

THE ROYAL ASTRONOMICAL SOCIETY OF CANADA



**GENERAL INDEX**  
to the  
**JOURNAL**  
**1967–1996**

**Volumes 61 to 90 inclusive**

**(including the NATIONAL NEWSLETTER, NATIONAL  
NEWSLETTER/BULLETIN, and BULLETIN)**

*Compiled by*  
**Beverly Miskolczi and David Turner\***  
*\* Editor of the Journal 1994–2000*

*Layout and Production by*  
**David Lane**

*Published by and Copyright © 2002 by*  
**The Royal Astronomical Society of Canada**  
**136 Dupont Street**  
**Toronto, Ontario, M5R 1V2**  
**Canada**

www.rasc.ca — rasc@rasc.ca



# Table of Contents

Preface .....	2
Volume Number Reference .....	3
Subject Index Reference .....	4
Subject Index .....	7
Author Index .....	121
Abstracts of Papers Presented at Annual Meetings of the National Committee for Canada of the I.A.U. (1967–1970) and Canadian Astronomical Society (1971–1996) .....	168
Abstracts of Papers Presented at the Annual General Assembly of the Royal Astronomical Society of Canada (1969–1996) .....	207

## PREFACE

The last cumulative Index to the *Journal*, published in 1971, was compiled by Ruth J. Northcott and assembled for publication by Helen Sawyer Hogg. It included all articles published in the *Journal* during the interval 1932–1966, Volumes 26–60. In the intervening years the *Journal* has undergone a variety of changes. In 1970 the *National Newsletter* was published along with the *Journal*, being bound with the regular pages of the *Journal*. In 1978 the *National Newsletter* was physically separated but still included with the *Journal*, and in 1989 it became simply the *Newsletter/Bulletin* and in 1991 the *Bulletin*. That continued until the eventual merger of the two publications into the new *Journal* in 1997.

An added complication was the inclusion in the *Journal* of abstracts of papers presented at annual meetings of the National Committee for Canada of the International Astronomical Union (1967–1970) and subsequently at annual meetings of the Canadian Astronomical Society • Société Canadienne d’Astronomie. Abstracts of papers presented at the annual General Assembly of the Royal Astronomical Society of Canada were added in 1969. The result has been a large increase in the number of titles and abstracts of items published in the *Journal*, which has increased the resulting size of the *Index* and complicated its assembly. The new compilation was accomplished single-handedly by Beverly Miskolcki during the period 1998–2000.

In order to avoid both undue length for the present *Index* as well as complicated cross-references, some shortcuts were taken in the present compilation. Each abstract is listed only once, for example, and by the name of the first author, regardless of the number of paper authors. The page numbering used should be obvious. Articles from the *Journal* are cited by volume number and page numbers, articles from the *National Newsletter*, *National Newsletter/Bulletin*, and *Bulletin* are prefaced by **NN**, **NNB**, and **B**, respectively. And the first volume of the *National Newsletter* has been identified by consecutive page numbers, even though the first two issues were both numbered with pages 1–4.

Articles have been identified with specific subject areas that closely approximate those used in other journals, and articles for a given subject have been listed in chronological order, with the exception of errata, which are listed following the listing for the original article. Such modifications have resulted in an *Index* that differs considerably from those published previously. The result, we hope, is an index that is less cumbersome to use.

Most typographical errors were caught when the Index was compiled, and we apologize for any remaining errors that have escaped our attention. We intend to correct any remaining errors or omissions in subsequent printings of the *Index*, and would be happy to receive any that are caught by readers of the present edition.

David G. Turner  
Department of Astronomy and Physics  
Saint Mary’s University  
Halifax, Nova Scotia, B3H 3C3  
Canada  
July 2002

## Volume Number Reference

Volume	Year
61	1967
62	1968
63	1969
64	1970
65	1971
66	1972
67	1973
68	1974
69	1975
70	1976
71	1977
72	1978
73	1979
74	1980
75	1981
76	1982
77	1983
78	1984
79	1985
80	1986
81	1987
82	1988
83	1989
84	1990
85	1991
86	1992
87	1993
88	1994
89	1995
90	1996

# SUBJECT INDEX REFERENCE

## A

About Our Authors/Nos Auteurs  
Across the RASC  
Advances in Astronomy  
Artificial Satellites, Space Probes  
Astrometry  
Astronomical Databases:

Miscellaneous

Astronomy Update  
Atlases  
Atmospheric Effects  
Atomic Data  
Aurorae  
Awards

## B

Balloons  
Biographies  
Black Hole Physics

## C

Calgary Centre  
Canadian Astronomical  
Society/Société Canadienne  
D'Astronomie  
Canadian Astronomy News  
Canadian Scientist Reports  
Catalogues  
Celestial Mechanics, Stellar Dynamics  
Centre Français de Montréal  
Centre News  
Centres Française  
Comets: General  
Comets: Individual  
Correspondence/Correspondance  
Cosmic Rays  
Cosmology: Cosmic Microwave  
Background  
Cosmology: Distance Scale  
Cosmology: Early Universe  
Cosmology: Gravitational Lensing  
Cosmology: Large-Scale Structure of  
the Universe  
Cosmology: Miscellaneous  
Cosmology: Observations  
Cosmology: Theory

## E

Earth  
Eclipses  
Editorials

Edmonton Centre  
Education in Astronomy  
Education Notes  
Elementary Particles  
Ephemerides  
Errata, Addenda, Corrigenda  
Extraterrestrial Life

## F

From the Library  
From the Past

## G

Galaxies: Abundances  
Galaxies: Active  
Galaxies: BL Lacertae Objects:  
General  
Galaxies: BL Lacertae Objects:  
Individual  
Galaxies: Clusters: General  
Galaxies: Clusters: Individual  
Galaxies: Distances and Redshifts  
Galaxies: Elliptical and Lenticular, Cd  
Galaxies: Evolution  
Galaxies: Formation  
Galaxies: Fundamental Parameters  
Galaxies: General  
Galaxies: Globular Clusters  
Galaxies: Individual  
Galaxies: Interactions  
Galaxies: Intergalactic Medium  
Galaxies: Interstellar Medium  
Galaxies: Irregular  
Galaxies: Jets  
Galaxies: Kinematics and Dynamics  
Galaxies: Local Group  
Galaxies: Luminosity Function, Mass  
Function  
Galaxies: Magellanic Clouds  
Galaxies: Magnetic Fields  
Galaxies: Nuclei  
Galaxies: Photometry  
Galaxies: Quasars: Absorption Lines  
Galaxies: Quasars: General  
Galaxies: Quasars: Individual  
Galaxies: Seyfert  
Galaxies: Spiral  
Galaxies: Stellar Content  
Galaxies: Structure  
Galaxy: Abundances  
Galaxy: Centre  
Galaxy: Evolution  
Galaxy: Formation  
Galaxy: Fundamental Parameters

Galaxy: General  
Galaxy: Globular Clusters: General  
Galaxy: Globular Clusters: Individual  
Galaxy: Halo  
Galaxy: Kinematics and Dynamics  
Galaxy: Open Clusters and  
Associations: General  
Galaxy: Open Clusters and  
Associations: Individual  
Galaxy: Solar Neighbourhood  
Galaxy: Stellar Content  
Galaxy: Structure  
Gravitation

## H

Halifax Centre  
Hamilton Centre  
History and Philosophy of Astronomy  
Hydrodynamics

## I

Infrared: Galaxies  
Infrared: General  
Infrared: Solar System  
Infrared: Stars  
Instrumentation: Detectors  
Instrumentation: Interferometers  
Instrumentation: Miscellaneous  
Instrumentation: Photometers  
Instrumentation: Spectographs  
Interplanetary Medium  
Interstellar Medium: Abundances  
Interstellar Medium: Bubbles  
Interstellar Medium: Clouds  
Interstellar Medium: Cosmic Rays  
Interstellar Medium: Dust, Extinction  
Interstellar Medium: General  
Interstellar Medium: H II Regions  
Interstellar Medium: Individual  
Objects (except planetary nebulae)  
Interstellar Medium: Jets and  
Outflows  
Interstellar Medium: Magnetic Fields  
Interstellar Medium: Molecules  
Interstellar Medium: Nebulae:  
General  
Interstellar Medium: Planetary  
Nebulae: General  
Interstellar Medium: Planetary  
Nebulae: Individual  
Interstellar Medium: Supernova  
Remnants  
Items of Interest

## K

Kingston Centre  
Kitchener-Waterloo Centre

## L

Light Pollution  
Lightwaves  
Line: Formation  
Line: Profiles  
London Centre

## M

Magnetohydrodynamics: MHD  
Masers  
Meetings  
Meteor News  
Meteorology  
Meteors, Meteoroids  
Methods: Analytical  
Methods: Data Analysis  
Methods: Numerical  
Minor Planets, Asteroids  
Miscellaneous  
Molecular Processes  
Montréal Centre  
Moon

## N

National Research Council of Canada  
News Briefs  
News Notes  
Niagara Centre  
Notes  
Notes from Newfoundland  
Notes from Observatories  
Notes from Planetaria  
Nouvelles de L'AGAA  
Nouvelles des Centres Québécois  
Nouvelles du Québec  
Nuclear Reactions, Nucleosynthesis,  
Abundances

## O

Obituaries  
Observations: General  
Observations: Interferometric  
Observations: Miscellaneous  
Observations: Photoelectric  
Observations: Photographic  
Observations: Photometric  
Observations: Radar  
Observations: Spectroscopic  
Observations: Visual

Observatories  
Observer's Cage  
Occultations  
Okanogan Centre  
Optics  
Ottawa Centre

## P

Planetaria  
Planets and Satellites: General  
Planets and Satellites: Individual  
Plasmas  
Polarization

## Q

Q & A  
Québec Centre

## R

Radiation Mechanisms:  
Bremsstrahlung  
Radiation Mechanisms: Gravitational  
Radio Astronomy: General  
Radio Astronomy: Sources: Galaxies  
Radio Astronomy: Sources: General  
Radio Astronomy: Sources:  
Interstellar Medium  
Radio Astronomy: Sources: Solar  
System  
Radio Astronomy: Sources: Stars  
RASC Papers  
Reflections  
Regina Centre  
Relativity  
Review of Publications/Critiques  
d'Ouvrages  
Royal Astronomical Society of  
Canada/Société Royale  
D'Astronomie du Canada

## S

Sarnia Centre  
Saskatoon Centre  
Shock Waves  
Site Testing  
Solar System: Formation  
Solar System: General  
Space Vehicles  
St. John's Centre  
Stars: Abundances  
Stars: Activity  
Stars: AGB, Post-AGB  
Stars: Atmospheres  
Stars: Binaries (including multiple):  
Close  
Stars: Binaries: Eclipsing

Stars: Binaries: General  
Stars: Binaries: Spectroscopic  
Stars: Binaries: Symbiotic  
Stars: Binaries: Visual  
Stars: Carbon  
Stars: Chemically Peculiar  
Stars: Chromospheres  
Stars: Circumstellar Matter  
Stars: Distances  
Stars: Dwarf  
Stars: Early-Type  
Stars: Emission-Line, Be  
Stars: Evolution  
Stars: Flare  
Stars: Formation  
Stars: Fundamental Parameters  
Stars: General  
Stars: Hertzsprung-Russell (HR)  
Diagram  
Stars: Horizontal Branch  
Stars: Individual  
Stars: Interiors  
Stars: Kinematics  
Stars: Late-Type  
Stars: Luminosity Function, Mass  
Function  
Stars: Magnetic Fields  
Stars: Mass-Loss  
Stars: Neutron  
Stars: Novae, Cataclysmic Variables  
Stars: Oscillations (including  
pulsations)  
Stars: Planetary Systems  
Stars: Pulsars: General  
Stars: Pulsars: Individual  
Stars: Rotation  
Stars: Statistics  
Stars: Subdwarfs  
Stars: Supergiants  
Stars: Supernovae: General  
Stars: Supernovae: Individual  
Stars: Variables: Cepheids  
Stars: Variables: Delta Scuti  
Stars: Variables: General  
Stars: Variables: Other  
Stars: White Dwarfs  
Stars: Wolf-Rayet  
Sun: Activity  
Sun: Chromosphere  
Sun: Corona  
Sun: Eclipses  
Sun: Flares  
Sun: General  
Sun: Interior  
Sun: Magnetic Fields  
Sun: Oscillations  
Sun: Particle Emission  
Sun: Photosphere  
Sun: Prominences  
Sun: Radio Radiation  
Sun: Solar-Terrestrial Relations

Sun: Sunspots  
Surveys

**T**

Techniques: Image Processing  
Techniques: Interferometric  
Techniques: Miscellaneous  
Techniques: Observing  
Techniques: Photographic  
Techniques: Photometric  
Techniques: Radial Velocities  
Techniques: Spectroscopic  
Telescopes  
Thunder Bay Centre  
Time

Toronto Centre  
Turbulence

**U**

Ultraviolet: Galaxies  
Ultraviolet: Stars

**V**

Vancouver Centre  
Variable Star Notes  
Victoria Centre

**W**

Windsor Centre  
Winnipeg Centre

**X**

X-rays: General  
X-rays: Interstellar Medium  
X-rays: Stars

**Y**

Young Astronomers



# SUBJECT INDEX

## About Our Authors/Nos Auteurs

- About Our Authors*, **61**, 40, 81, 145, 195, 343, 379.  
*About Our Authors*, Miriam S. Burland, **62**, 38, 65, 113, 188, 257, 377.
- S. Burland, **65**, 36, 74, 133, 164, 245, 295.  
*About Our Authors*, Miriam S. Burland, **66**, 62, 127, 167, 212, 275.  
*About Our Authors*, Ian Halliday, **66**, 310.  
*About Our Authors*, Miriam S. Burland, **67**, 34, 93, 152, 156, 190, 262, 318.  
*About Our Authors*, Miriam S. Burland, **68**, 40, 108, 163, 213, 334.  
*About Our Authors*, Miriam S. Burland, **69**, 37, 94, 139, 189, 240, 316.  
*About Our Authors*, Miriam S. Burland, **70**, 41, 88, 143, 193, 256, 320.  
*About Our Authors*, Miriam S. Burland, **71**, 54, 197, 263, 324, 390, 469.  
*About Our Authors*, Marie Fidler, **72**, 48, 107, 167, 220, 277, 335.  
*About Our Authors*, Marie Fidler, **73**, 37, 103, 146, 223, 293, 380.  
*About Our Authors*, Marie Fidler, **74**, 22, 92, 173, 237, 296, 353.  
*About Our Authors*, Marie Fidler, **75**, 59, 108, 151, 209, 242.  
*About Our Authors*, Marie Fidler, **76**, 58, 138, 205, 257, 314, 396.  
*About Our Authors*, Marie Fidler, **77**, 52, 92, 147, 220, 246, 336.  
*About Our Authors*, Marie Fidler, **78**, 48, 82, 127, 163, 196, 255.  
*About Our Authors*, Marie Fidler, **79**, 22, 100, 143, 182, 227, 312.  
*About Our Authors*, Marie Fidler, **80**, 55, 109, 152, 210, 263, 351.  
*About Our Authors*, Marie Fidler, **81**, 19, 61, 105, 142, 160, 226.  
*About Our Authors*, Marie Fidler, **82**, 31, 79, 146, 212, 269.  
*About Our Authors*, Marie Fidler & Peter Broughton, **82**, 359.  
*About Our Authors*, Marie Fidler, **83**, 42, 132, 219, 252, 293, 428.  
*About Our Authors*, Marie Fidler, **84**, 48, 132, 228, 281, 354, 397.  
*About Our Authors*, Marie Fidler, **85**, 51, 107, 139, 172, 281, 377.  
*About Our Authors*, Marie Fidler, **86**, 54, 110, 153, 210, 266, 331.  
*About Our Authors*, Marie Fidler, **87**, 64, 119, 161, 250, 342, 392.  
*About Our Authors*, Marie Fidler, **88**, 83, 143, 169, 272, 352, 404.  
*About Our Authors*, Suzanne E. Moreau, **89**, 27, 63, 109, 188, 224, 263.

- About Our Authors*, Miriam S. Burland, **63**, 44, 90, 136, 206, 264, 308.  
*About Our Authors*, Miriam S. Burland, **64**, 50, 104, 173, 250, 314, 370.

## About Our Authors, Miriam

- About Our Authors*, Suzanne E. Moreau, **90**, 57, 94, 158, 231, 339.

## Across the RASC

- Across the RASC*, Peter Jedicke, NN, **77**, 37.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*Across the RASC*, Peter Jedicke, NN, **78**, 24, 42.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59.  
*Across the RASC*, Peter Jedicke, NN, **78**, 73.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 89.  
*Across the RASC*, NN, **79**, 11, 30, 43, 57, 75, 90.  
*Across the RASC*, NN, **80**, 11, 26, 44, 52, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 24, 42, 61, 68, 84.  
*Across the RASC*, NN, **82**, 9, 27, 38, 53, 70, 83.  
*Across the RASC*, NNB, **83**, 15, 25, 37, 90.  
*Across the RASC*, NNB, **84**, 4, 20, 36, 60, 76, 90.  
*Across the RASC*, B, **1**, 2, 8.  
*Across the RASC*, B, **1**, 3, 6.  
*Across the RASC*, B, **1**, 4, 2.  
*Across the RASC*, B, **1**, 5, 2.  
*Across the RASC*, B, **2**, 1, 7.  
*Across the RASC*, B, **2**, 2, 2.  
*Across the RASC*, B, **2**, 2, 7.  
*Across the RASC*, B, **2**, 3, 8.  
*Across the RASC*, B, **2**, 4, 4.  
*Across the RASC*, B, **3**, 1, 5.  
*Across the RASC*, B, **3**, 5, 3.  
*Across the RASC*, B, **4**, 1, 4.  
*Across the RASC*, B, **4**, 3, 5.  
*Across the RASC*, B, **5**, 1, 3.

## Advances in Astronomy

- X-Rays in Astronomy, Ian Halliday, **61**, 43.  
Large Redshifts, Ian Halliday, **61**, 146.  
*Canadian Radio Astronomers Record Success*, Ian Halliday, **61**, 196.  
Stellar Spectra in the Far Ultraviolet, Ian Halliday, **61**, 380.  
A Closer Look at the Moon, Ian Halliday, **62**, 39.  
Comets of the Sun-Grazing Family, Ian Halliday, **62**, 73.  
Supernovae, Ian Halliday, **62**, 119.  
New Measures of Stellar Diameters, Ian Halliday, **62**, 197.  
Distortion of a Galactic Spiral Arm, Ian Halliday, **62**, 263.  
Cometary Gas Motions, Ian Halliday, **62**, 381.  
Seyfert Galaxies and Quasars, Ian Halliday, **63**, 91.  
Origin of the Solar System, Ian Halliday, **63**, 137.  
Motions in the Crab Nebula, Ian Halliday, **63**, 215.  
Observational Tests of Gravitational Theories, John R.

Percy, **63**, 265.

*Star Formation from Shock Waves*, Ian Halliday, **64**, 51.  
New Radio Telescopes in Europe, Philipp P. Kronberg, **64**, 105.

Mariners Report on Mars, Ian Halliday, **64**, 191.  
On Globular Clusters and Extragalactic Distances, René Racine, **64**, 257.

Meteorite Dust in the Atmosphere, Ian Halliday, **64**, 319.  
Naked-Eye Variable Stars, John R. Percy, **64**, 373.  
Explaining the Gegenschein, Ian Halliday, **65**, 76.  
Spiral Structure in Galaxies, Ian Halliday, **65**, 135.  
Tektite Debate Continues, Ian Halliday, **65**, 296.  
Mars in Focus, Terence Dickinson, **66**, 168.  
Satellites of the Outer Planets, Ian Halliday, **66**, 314.

### **Artificial Satellites, Space Probes (see also Space Vehicles)**

*Exploring the Universe*, J. L. Climenhaga, **62**, 29.  
*A Closer Look at the Moon*, Ian Halliday, **62**, 39.  
*Observation à Montréal à L'Occasion de L'Arrivée du Surveyor 5 sur la Lune*, Pierrette Jean, **62**, 43.  
*Space Report*, Peter M. Millman, **63**, 149.  
*Mariners Report on Mars*, Ian Halliday, **64**, 191.  
*Planetary Space Missions for the 1970's*, Martin G. Connors, NN, **64**, 30.  
*Mars in Focus*, Terence Dickinson, **66**, 168.  
*The Traditional Features of Mars Compared with the Geologic Map of the Planet*, Peter M. Millman, **67**, 115.  
*Observing a Synchronous Satellite*, Roy L. Bishop, NN, **69**, 5.  
*Spectral Lines in the Ultraviolet*, Anne B. Underhill, **71**, 123.  
*Like Watching Jupiter?*, NN, **73**, 22.  
*International Solar Polar Mission (ISPM)*, NN, **74**, 100.  
*STARLAB: An International Observatory in Earth Orbit*, James E. Hesser, **77**, 310.  
*Planetariums Commemorate Pioneer 10*, Ian McGregor, NN, **77**, 57.  
*Heard Any Good Satellites Lately?*, Ken Nelson, NN, **77**, 70.  
*Space Telescope*, Muriel Enock, NN, **77**, 90.  
*Fiction to Fact*, Philip Mozel, NN, **78**, 39.  
*Supporting Search and Rescue*, NN, **80**, 8.  
*Canadian Space Computer*, NN, **80**, 21.  
*Phobos and Deimos to be Explored*, NN, **80**, 25.  
*New Canadian Satellite*, NN, **80**, 28.  
*Editorial*, Ian G. McGregor, NN, **80**, 34.  
*Spacecraft Renamed*, NN, **80**, 48.  
*China May Launch Canadian Satellite*, NN, **80**, 76.  
*SARSAT to the Rescue*, NN, **80**, 86.  
*Two Eclipses Visible from a Geostationary Weather Satellite*, Jay Anderson, **81**, 83.  
*Auroral Secrets Revealed*, NN, **81**, 12.  
*Satellite Receives Emmy Award*, NN, **81**, 78.  
*New Eyes for Astronomy*, Barry F. Madore, **83**, 269.  
*Observing Earth Satellites*, Ted Molczan, NNB, **83**, 58.  
*Exploring Our Solar System: The Voyager Adventure*, Joseph Veverka, **84**, 334.  
*Canada-Sweden Space Probe to Launch in '97*, B, **6**, 1, 2.

### **Astrometry**

*Astrometry of Extragalactic Objects from the Palomar Sky Atlas Prints*, A. H. Bridle & R. E. Goodson, **71**, 240.

### **Astronomical Databases: Miscellaneous**

*Saguaro Astronomy Club Database*, Alister Ling, NNB, **84**, 25.

### **Astronomy Update**

*Astronomy Update: Recent Results of Research in Astronomy*, D. Hube, NN, **69**, 28.  
*Astronomy Update: Recent Results of Research in Astronomy*, Doug Hube, NN, **69**, 40.  
*Astronomy Update*, D. P. Hube, NN, **69**, 72.  
*Astronomy Update*, D. P. Hube, NN, **70**, 10.  
*Astronomy Update*, D. Hube, NN, **70**, 29.  
*Astronomy Update*, D. P. Hube, NN, **70**, 44.  
*Astronomy Update*, D. Hube, NN, **70**, 71.  
*Astronomy Update*, D. P. Hube, NN, **70**, 84.  
*Astronomy Update*, Doug Hube, NN, **71**, 6, 23, 40, 60.  
*Astronomy Update*, Doug Hube, NN, **72**, 15.

### **Atlases**

*Astrometry of Extragalactic Objects from the Palomar Sky Atlas Prints*, A. H. Bridle & R. E. Goodson, **71**, 240.  
*Ambitious Programme Undertaken by Our Editeur des Centres Français*, NN, **74**, 7.  
*The AAVSO Variable Star Atlas*, Charles C. Scovil, **75**, 164.  
*Un Atlas Photographique Avec Une Camera Schmidt de 14 cm*, Damien Lemay, **76**, 129.

### **Atmospheric Effects (see also Light Pollution, Meteorology)**

*An Observation of the "Fata Morgana" in the Canadian Winter*, Ian Halliday, **61**, 74.  
*Exploring the Universe*, J. L. Climenhaga, **62**, 29.  
*Calculation of the Twilight Visibility Function of Near-Sun Objects*, Sidney O. Kastner, **70**, 153.

### **Atomic Data**

*Cometary Gas Motions*, Ian Halliday, **62**, 381.

### **Aurorae**

*The Edmonton Survey of the Aurora Borealis*, Earl R. Milton, **63**, 238.  
*Recent Aurora Activity*, Rolf Meier, NN, **68**, 14.  
*Audible Sounds Excited by Aurorae and Meteor Fireballs*, Colin S. L. Keay, **74**, 253.  
*Observations of a Yukoner*, Ron Richards, NN, **74**, 57.  
*An Incredible Auroral Double-Feature*, Leo Enwright, NN, **75**, 45.  
*BAA Aurora Section Wants Canadian Observers*, S. R. Dunlop, NN, **77**, 5.  
*Aurora at Hamilton Centre Observatory Site*, Michael DeVillaer, NN, **77**, 41.  
*The BAA Encourages Canadian Aurora Observers*, R. J. Livesey, NN, **77**, 51.  
*A Note on Anomalous Sounds from Meteor Fireballs and Aurorae*, D. Y. Wang, T. F. Tuan & S. M. Silverman, **78**, 145.

*Astronomical Observations in the Anglo-Saxon Chronicle*, Owen Brazell, NN, **78**, 56.  
*Sounding Rocket Research in Canada*, Kenneth Pilon, NN, **79**, 6.  
*Science on Ice: Astronomy at the South Pole*, Steven Morris, NN, **79**, 25.  
*The Unusual Auroral Outburst of August 12-13, 1985*, Leo Enwright, NN, **79**, 80.  
*Auroral Secrets Revealed*, NN, **81**, 12.  
*Observer's Cage*, David H. Levy, NNB, **83**, 36.  
*Natural Light Pollution: The March Aurora Display*, Steven Spinney, NNB, **83**, 55.  
*C. A. Chant and the Mystery of Auroral Sounds*, Colin S. L. Keay, **84**, 373.  
*La Nuit du Grand OVNI de Montréal*, Marc A. Gélinas, B, **1**, 1, 4.  
*Aurorae and the Power System*, Joe Yurchesyn, B, **1**, 6, 1.  
*Aurorae and the Power System*, Roger G. Napier, B, **2**, 2, 2.  
*Aurorae and the Power System*, Joe Yurchesyn, B, **2**, 3, 2.  
*Terrestrial and Celestial Fireworks*, John Iverson, B, **2**, 1, 8.  
*An Ounce of Prevention ...*, Alister Ling, B, **2**, 2, 2.

## Awards

*Award of the Leonard Medal to Dr. C. S. Beals*, Peter M. Millman, **61**, 53.  
*Gold Medal of the R. A. S. C.*, Ruth J. Northcott, **61**, 100.  
*Chant Medal Award*, **61**, 149.  
*New Service Awards*, **61**, 150.  
*Gold Medal of the RASC*, Ruth J. Northcott, **61**, 388.  
*RASC Award to Exhibitor at Canada-Wide Science Fair*, **61**, 389.  
*New Service Members*, **62**, 117.  
*Service Awards Recipients*, Ruth J. Northcott, **62**, 258.  
*RASC Gold Medal Presented to Peter Martin*, Ruth J. Northcott, **63**, 46.  
*New Service Awards*, **64**, 259.  
*RASC Award to Exhibitor at Canada-Wide Science Fair*, **64**, 324.  
*Service Award Presented to Norman Green*, Kenneth E. Chilton, NN, **64**, 17.  
*New Service Awards*, **65**, 167.  
*Rumford Award Made to Canadian Radio Astronomer*, **65**, 187.  
*RASC Award to Exhibitor at Canada-Wide Science Fair*, **65**, 188.  
*Gerhard Hertzberg Awarded Nobel Prize*, **65**, 301.  
*New Service Awards*, **66**, 227.  
*1971 Gold Medal Winner Honoured By Toronto Centre*, **66**, 316.  
*Award of the 1972 Gold Medal*, **67**, 100.  
*New Service Award*, **67**, 208.  
*12th Canada-Wide Science Fair*, J. S. Griffith, NN, **67**, 28.  
*New Service Awards*, **68**, 218.  
*C. W. Lake Prize in Astronomy*, J. E. Kennedy, **69**, 44.  
*Sir Martin Ryle Co-Winner of Nobel Prize*, **69**, 95.  
*New Service Award*, **69**, 195.  
*Honorary Degree Given to Dr. A. W. Currie*, NN, **69**, 43.  
*Member Wins Canada-Wide Science Fair*, NN, **69**, 55.  
*New Service Awards*, **70**, 198.

*Dr. Helen Hogg Honoured*, Norman Green, NN, **70**, 58.  
*Quebec and Saskatoon Take Top Honours at Calgary*, Ulrich Haasdyk & Dunstan Pasterfield, NN, **70**, 65.  
*New Service Awards*, **71**, 333.  
*Astronomy Awards for High School Students*, NN, **71**, 41.  
*Toronto Display Competition*, Ian McGregor, NN, **71**, 51.  
*New Service Award*, **72**, 227.  
*Science Fair*, A. H. Batten, NN, **72**, 8.  
*Gold Medal Recipient for 1977*, NN, **72**, 31.  
*A Successful Observing Competition*, Alan Dyer, NN, **72**, 48.  
*Simon Newcomb Award*, NN, **72**, 53.  
*Canada-Wide Science Fair*, D. G. Turner, NN, **72**, 79.  
*Jean Vallières, Lauréat 1976*, NN, **72**, 80.  
*The Simon Newcomb Award*, NN, **72**, 81.  
*Chant Medal Award*, **73**, 228.  
*New Service Awards*, **73**, 228.  
*Ken Chilton Prize*, **73**, 230.  
*1979 Competition Roundup*, Walter K. Campney, NN, **73**, 57.  
*Two Members of the Society Receive Public Recognition*, NN, **73**, 73.  
*The Simon Newcomb Award*, Diane Brooks, NN, **73**, 77.  
*The Simon Newcomb Award*, L. A. Higgs, **74**, 31.  
*Chant Medal Award*, **74**, 308.  
*New Service Award*, **74**, 309.  
*Galaxy-Wide Discoveries Noted as Astronomers Honoured*, NN, **74**, 35.  
*Edmonton Centre Presents Awards in the Name of the RASC*, NN, **74**, 46.  
*A New Award for Messier Observers!*, Ian McGregor, NN, **74**, 67.  
*Simon Newcomb Award*, NN, **74**, 92.  
*Canadian Astronomer Honoured in Czechoslovakia*, Ian Halliday, **75**, 60.  
*New Service Awards*, **75**, 264.  
*Ken Chilton Prize*, **75**, 266.  
*New Service Awards*, **76**, 264.  
*52 Years of Service Recognized*, Ian G. McGregor, NN, **76**, 14.  
*Amateur Achievement Award of the Astronomical Society of the Pacific*, NN, **76**, 43.  
*Prizes Awarded for Entries in the Exhibit Contest*, NN, **76**, 52.  
*New Service Awards*, **77**, 251.  
*Ken Chilton Prize*, **77**, 252.  
*Congratulations to Dr. Hogg!*, Frederic L. Troyer, NN, **77**, 34.  
*Results of the Display Competition at the 1983 General Assembly in Quebec City*, NN, **77**, 53.  
*Résultat du Concours de Travaux Astronomiques Lors de L'Assemblée Générale 1983 à Québec*, NN, **77**, 55.  
*Science Fair Winners*, NN, **77**, 57.  
*Two Victoria Astronomers Honoured*, **78**, 86.  
*New Service Awards*, **78**, 221.  
*Star-Struck Students Win RASC Awards*, Susan V. Bosak, NN, **78**, 58.  
*New Service Awards*, **79**, 254.  
*Chant Medal Award*, **80**, 293.  
*New Service Awards*, **80**, 294.  
*Jean Meeus Wins Award*, NN, **80**, 53.

- Young Scientists Win Awards*, Melina Young, NN, **80**, 62.  
*Display Competition Winners at Winnipeg GA*, NN, **80**, 71.  
*Chant Medal Award*, **81**, 172.  
*New Service Awards*, **81**, 173.  
*Satellite Receives Emmy Award*, NN, **81**, 78.  
*Honour for Canadian Astronomer*, **82**, 213.  
*Chant Medal Award*, **82**, 298.  
*Ken Chilton Prize*, **82**, 298.  
*New Service Awards*, **82**, 299.  
*The Plaskett Medal, Our Society's Newest Award*, Lloyd A. Higgs, **82**, 312.  
*Fred Lossing Receives Recognition*, NN, **82**, 47.  
*Awards Presented at Victoria Conference*, NN, **82**, 72.  
*Gold Medal of the RASC, Toronto Centre*, Ralph Chou, NN, **82**, 86.  
*Czechoslovak Gold Medal for Canadian Astronomer*, **83**, 329.  
*Czechoslovak Gold Medal to Canadian Astronomer*, **84**, 133.  
*Chant Medal Award*, **83**, 439.  
*Ken Chilton Prize*, **83**, 439.  
*New Service Award*, **83**, 440.  
*Mary Grey Receives Award*, NNB, **83**, 42.  
*Congratulations Jack!*, NNB, **83**, 48.  
*Russell Lectureship and Killam Prize*, Lloyd Higgs, **84**, 230, 356.  
*Service Award*, **84**, 408.  
*Ken Chilton Prize*, **84**, 409.  
*Eve Savory Award for Science Communication*, J. E. Hesser, **84**, 438.  
*Way to Go, Toronto!*, Steve Dodson, NNB, **84**, 72.  
*Service Award*, **85**, 108.  
*Hubert Reeves, OC*, **86**, 55.  
*Helen Sawyer Hogg Scholarship*, **86**, 56.  
*Muhlmann Prize*, **86**, 111.  
*Service Award*, **86**, 111, 154.  
*Sanford Fleming Medal for Terence Dickinson*, **86**, 213.  
*Hon. Gerhard Herzberg PC CC*, **86**, 267.  
*Service Award*, **87**, 65.  
*Simon Newcomb Award*, **87**, 66.  
*Chant Medal*, **87**, 120.  
*Service Award*, **87**, 120.  
*Herzberg Medal for Dr. Nick Kaiser*, **87**, 162.  
*Reinhardt Fellowship for Dr. Christopher Pritchett*, **87**, 162.  
*Another Medal for a Plaskett Medallist*, **87**, 251.  
*Astronomical Society of the Pacific Amateur Achievement Award*, **87**, 344.  
*Awards*, B, **3**, 2, 36.  
*The Speech That Never Was*, Mary Lou Whitehorne, B, **3**, 5, 8.  
*1993 Nobel Prize in Physics Award to Hulse and Taylor*, F. I. Cooperstock, **88**, 85.  
*Service Awards*, **88**, 172.  
*B. C. Science Council Gold Medal to Peter Stetson*, **88**, 408.  
*Awards*, B, **4**, 2, 40.  
*Simon Newcomb Award*, B, **4**, 6, 3.  
*The New, Improved Simon Newcomb Award*, David M. F. Chapman, B, **4**, 6, 3.  
*Service Award to Pat Kelly*, **89**, 29.  
*Award Presentations for the 1995 General Assembly*, **89**, 113.  
*Award Winners Honoured at General Assembly in Windsor*, **89**, 226.  
*Awards*, B, **5**, 2, 32.  
*Should CAT Owners Receive Certificates?*, Doug Hube, B, **5**, 5, 4.  
*Simon Newcomb Award Presented at November Council Meeting*, **90**, 100.  
*Awards Presentations at the 1996 General Assembly*, **90**, 347.  
*Awards*, B, **6**, 2, 36.  
*Awards*, B, **6**, 3, 2.
- ## Balloons
- High Altitude Balloon Experiments to Study Oxygen in a Planetary Atmosphere*, W. F. J. Evans, A. Vallance Jones & E. J. Llewellyn, **61**, 82.  
*Exploring the Universe*, J. L. Climenhaga, **62**, 29.
- ## Biographies
- Some Contributions of R. M. Petrie to the Study of Groups of Stars*, Helen Sawyer Hogg, **61**, 105.  
*Copeland and Lohse and the Comet, 1882 II*, M. W. Burke-Gaffney, **62**, 49.  
*Carl Zeiss — A Prominent Name in Optics*, Ruth J. Northcott, **62**, 84.  
*On the History of the Copernican Manuscript De Revolutionibus Orbium Coelestium*, Karel Hujer, **62**, 123.  
*Stellar Radial Velocities and Spectroscopic Binaries*, John F. Heard, **64**, 209.  
*Gerhard Herzberg — Nobel Laureate, 1971*, H. L. Welsh, **66**, 183.  
*A Tribute to Simon Newcomb — July 9, 1972*, Peter M. Millman, **66**, 277.  
*Copernicus 1473-1543*, A. Vibert Douglas, **67**, 1.  
*Variable Stars in Globular Clusters*, Helen Sawyer Hogg, **67**, 8.  
*Thomas Young, 1773-1829*, A. Vibert Douglas, **67**, 150.  
*Al-Biruni, Persian Scholar, 973-1048*, A. Vibert Douglas, **67**, 209.  
*Hipparchus, the First Astronomer*, NN, **68**, 15.  
*Some Recollections of Mr. Van B*, J. F. Heard, NN, **68**, 23.  
*The Carpenter's Chronometers. II*, J. D. Fernie, NN, **69**, 2.  
*Regiomontanus, 1436-1476*, A. Vibert Douglas, **70**, 79.  
*The Struves of Pulkovo — A Family of Astronomers*, Alan H. Batten, **71**, 345.  
*The Roosevelt of Astronomy. I*, J. D. Fernie, NN, **71**, 9.  
*The Roosevelt of Astronomy. II*, J. D. Fernie, NN, **71**, 21.  
*The Roosevelt of Astronomy. III*, J. D. Fernie, NN, **71**, 42.  
*In Praise of Uncles*, J. D. Fernie, NN, **71**, 58.  
*Joseph Everett and the King's College Observatory*, Roy L. Bishop, **72**, 138.  
*Hubble*, J. Donald Fernie, NN, **72**, 3.  
*People and Places: Collected Reminiscences of John Frederick Heard*, edited by J. D. Fernie, **73**, 53.  
*People and Places: Collected Reminiscences of John Frederick Heard*, edited by J. D. Fernie, **73**, 109.  
*Einstein: The Revolution in Space-Time*, D. W. Sida, **73**, 133.

*People and Places: Collected Reminiscences of John Frederick Heard*, edited by J. D. Fernie, **73**, 177.

*The Typical RASC Type?*, NN, **73**, 27.

*The Director's Director*, J. D. Fernie, NN, **73**, 67.

*Henry Hayden, 1784-1862*, R. P. Broughton, **74**, 76.

*The Herschel Dynasty — Part I: William Herschel*, Peter M. Millman, **74**, 134.

*The Herschel Dynasty — Part II: John Herschel*, Peter M. Millman, **74**, 203.

*The Herschel Dynasty — Part III: Alexander Stewart Herschel*, Peter M. Millman, **74**, 279.

*Aristarchos of Samos*, Alan H. Batten, **75**, 29.

*A Special Visitor to Black Hole*, NS, Roy L. Bishop, NN, **76**, 8.

*Dr. Joseph Pearce*, Chris Aikman, NN, **76**, 34.

*Dr. J. A. Pearce*, **77**, 97.

*The Genius of Pixilated Point*, Michael W. Ovenden, **77**, 221.

*On the History of Wilhelm Von Biela and His Comet*, Karel Hujer, **77**, 305.

*Bok Thoughts*, David H. Levy, **78**, 8.

*A Telescope's First Century*, Philip Mozel, **78**, 75.

*Friedrich Wilhelm Bessel — A Bicentenary*, A. H. Batten, **78**, 133.

*Edmund Halley*, Eric Orr, NN, **79**, 52.

*Halley Greets Newton's Principia*, F. E. L. Priestley, **80**, 303.

*Joseph von Fraunhofer*, A. H. Batten, **81**, 106.

*Grote Reber, Founder of Radio Astronomy*, John D. Kraus, **82**, 107.

*The History of the Plaskett Family*, Thomas Stanley Plaskett, **82**, 319.

*Millet's Shooting Stars*, Martin Beech, **82**, 349.

*Edwin Hubble 1889-1953*, Allan Sandage, **83**, 351.

*William Frederick Denning: In Quest of Meteors*, Martin Beech, **84**, 383.

*Argelander and the Bonner Durchmusterung*, Alan H. Batten, **85**, 43.

*Johann Franz Encke, 1791-1865*, Alan H. Batten, **85**, 316.

*Johann Franz Encke, 1791-1865*, Alan H. Batten, **86**, 112.

*Bicentenary of the Birth of Sir John Herschel*, Patrick Moore, **86**, 112.

*Interpretation of Wolf-Rayet Stars: C. S. Beals' Contribution*, Randall C. Brooks & Mary Lou Whitehorne, **86**, 228.

*Assurer L'Appui de L'Astronomie*, René Racine, **86**, 300.

*The Backyard Universe of J. J. Wadsworth*, Bob Duff, B, **2**, 3, 6.

*The Schmalcalders of London and the "Priddis" Dial*, Julian A. Smith, **87**, 4.

*Charles Potter, Optician and Instrument Maker*, Julian A. Smith, **87**, 14.

*The Canada-France-Hawaii Telescope and George Willis Ritchey's Great Telescopes of the Future*, Donald E. Osterbrock, **87**, 51, 164.

*The Art of Comet Hunting, Part II*, David H. Levy, **88**, 5.

*The S's in SL9*, David Chapman, B, **4**, 3, 6.

*RASCals*, B, **4**, 4, 4.

*What Really Brought Edmund Halley to Newfoundland*, Peter Broughton, **89**, 18.

*James Craig Watson (1838-1880)*, Peter Broughton, **90**, 74.

*The Burke-Gaffneys*, Peter Broughton, **90**, 345.

## **Black Hole Physics (see also Relativity)**

*Gravity and its Astronomical Implications: An Elementary Guide*, Ray Skinner, **68**, 173, 237, 307.

*Black Holes Over Fifty Years Ago*, H. L. Armstrong, **72**, 338.

*Two Centuries of Black Holes*, J. N. Clarke & C. C. Dyer, **73**, 150.

*Searching for Black Holes*, David Crampton, J. B. Hutchings & A. P. Cowley, **77**, 103.

*Inside Black Holes*, G. H. George, **84**, 28, 283.

*A Look Inside Black Holes*, Eric Poisson, **84**, 191.

*New Black Hole Candidate in the Large Magellanic Cloud*, John Hutchings, **89**, 69.

## **Calgary Centre**

*General Assembly at Calgary, May 17-20, 1968*, Marie Fidler, **62**, 115.

*The 1972 Solar Eclipse*, J. Findlay, NN, **65**, 13.

*A Fantastic Total Eclipse*, Marie Litchinsky, NN, **66**, 25.

*Calgary Centre Eclipse Expedition*, NN, **67**, 25.

*Eclipse Book*, NN, **68**, 32.

*1976 General Assembly*, Ulrich Haasdyk, NN, **70**, 31.

*Calgary General Assembly Successful*, Robert Pike, NN, **70**, 47.

*Calgary Centre Members Experience Successful Eclipse Expedition*, Don W. Hladiuk, NN, **74**, 31.

*Activities in the Centres: Calgary Centre*, **75**, 323.

*RASC Centres Mark Astronomy Day*, NN, **76**, 39.

*Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.

*Centres Arrange Summer Observing Sessions*, Peter Jedicke, NN, **76**, 74.

*Centre News*, Peter Jedicke, NN, **77**, 10.

*Calgary Centre Celebrates Its 25<sup>th</sup> Anniversary*, NN, **77**, 36.

*Calgary Centre: The Next 25 Years*, Don Hladiuk, NN, **77**, 36.

*Across the RASC*, NN, Peter Jedicke, **77**, 37.

*Across the RASC*, Ian McGregor, NN, **78**, 6.

*RASC Centres Observe Astronomy Day*, B. R. Chou, NN, **78**, 53.

*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59, 89.

*Across the RASC*, NN, **79**, 11, 30, 43.

*A Successful Astronomy Day*, NN, **79**, 56.

*Across the RASC*, NN, **79**, 57, 75, 90.

*Visiting the Wilson Coulee Observatory*, Brian Burke, NN, **80**, 14.

*Across the RASC*, NN, **80**, 26, 44, 52, 77.

*Across the RASC*, Betty Robinson, NN, **80**, 89.

*Across the RASC*, NN, **81**, 5, 24, 42, 61.

*Alberta Star Party*, Simon Hum, NN, **81**, 76.

*Across the RASC*, NN, **81**, 84.

*Across the RASC*, NN, **82**, 9, 27, 38.

*Astronomy Day Calgary 1988*, Glenn Hawley, NN, **82**, 44.

*Across the RASC*, NN, **82**, 53.

*Across the RASC*, NNB, **83**, 15, 25, 37.

*Across the RASC*, NNB, **84**, 20.

*Chasing the 1991 Solar Eclipse*, Ian G. McGregor, NNB, **84**, 58.

*Across the RASC*, NNB, **84**, 60, 90.  
*Astronomy Day in Six Cities*, Steve Dodson, B, **1**, 4, 3.  
*Trip to Totality: One Person's Experience*, Ulrich Haasdyk, B, **1**, 5, 6.  
*Alberta Star Party 1991*, Glenn Hawley, B, **1**, 6, 3.  
*Thanks from Calgary*, Mel Head, B, **2**, 4, 5.  
*The 1992 GA*, Grant Dixon, B, **2**, 5, 1.  
*Centre Reports*, Glenn Hawley, B, **3**, 2, 4.  
*National and Centre Councils for 1993*, B, **3**, 2, 25.  
*Centre Finances*, B, **3**, 2, 30.  
*Calgary Eclipse Trip*, Don Hladiuk, B, **4**, 1, 3.  
*Centre Reports*, Glenn Hawley, B, **4**, 2, 8.  
*National and Centre Councils for 1994*, B, **4**, 2, 29.  
*Centre Finances*, B, **4**, 2, 34.  
*Centre Reports*, Susan Yeo, B, **5**, 2, 5.  
*National and Centre Councils for 1995*, B, **5**, 2, 21.  
*Centre Finances*, B, **5**, 2, 26.  
*Centre Reports*, Susan F. Yeo, B, **6**, 2, 5.  
*National and Centre Councils for 1996*, B, **6**, 2, 25.  
*Centre Finances*, B, **6**, 2, 30.

### **Canadian Astronomical Society/Société Canadienne D'Astronomie**

*Founding Meeting of the Canadian Astronomical Society, La Societe Astronomique du Canada, at Victoria, May 15, 1971*, G. A. H. Walker, **65**, 170.  
*First Regular Meeting of the Canadian Astronomical Society at the University of Toronto, November 11-13, 1971*, Peter M. Millman, **66**, 65.  
*The Second Regular Meeting of the Canadian Astronomical Society at the Université de Montréal, May 11-13, 1972*, Peter M. Millman, **66**, 215.  
*Third Regular Meeting of the Canadian Astronomical Society at the University of Alberta, Edmonton, May 10-12, 1973*, Peter M. Millman, **67**, 191.  
*Fourth Meeting of the Canadian Astronomical Society at Memorial University of Newfoundland, St. John's, June 10-13, 1974*, Peter M. Millman, **68**, 257.  
*Fifth Meeting of the Canadian Astronomical Society at the University of Manitoba, Winnipeg, November 7-9, 1974*, Peter M. Millman, **69**, 38.  
*Sixth Meeting of the Canadian Astronomical Society at Queen's University, Kingston, Ontario, June 18-21, 1975*, Peter M. Millman, **69**, 242.  
*Seventh Meeting of the Canadian Astronomical Society at the Dominion Radio Astrophysical Observatory, Penticton B. C., June 16-18, 1976*, Peter M. Millman, **70**, 257.  
*Eighth Meeting of the Canadian Astronomical Society at the University of Western Ontario, London, Ont., May 25-27, 1977*, Peter M. Millman, **71**, 391.  
*Ninth Meeting of the Canadian Astronomical Society at the University of Saskatchewan, Saskatoon, Saskatchewan, May 24-26, 1978*, Richard Bochonko, **72**, 278.  
*Tenth Meeting of the Canadian Astronomical Society at the University of British Columbia, Vancouver, British Columbia, May 23-25, 1979*, Richard Bochonko, **73**, 294.  
*Eleventh Meeting of the Canadian Astronomical Society Held at Saint Mary's University, Halifax, Nova Scotia, June 25-28, 1980*, Richard Bochonko, **74**, 354.

*Twelfth Meeting of the Canadian Astronomical Society Held at Université Laval, Québec, Québec, May 27-29, 1981*, Richard Bochonko, **75**, 243.  
*Thirteenth Meeting of the Canadian Astronomical Society Held at the University of Toronto, June 2-4, 1982*, **76**, 315.  
*Fourteenth Meeting of the Canadian Astronomical Society Held at the University of Victoria, June 26-30, 1983*, Richard Bochonko, **77**, 253.  
*Fifteenth Meeting of the Canadian Astronomical Society Held in Ottawa, June 4-7 1984*, Chris Aikman, **78**, 197.  
*Sixteenth Meeting of the Canadian Astronomical Society Held in Toronto, May 27-31, 1985*, Chris Aikman, **79**, 228.  
*CASCA Celebrates 50<sup>th</sup> Anniversary of the David Dunlap Observatory*, John R. Percy, NN, **79**, 85.  
*The 1986 Annual Meeting of the Canadian Astronomical Society Held in Penticton, June 9-13*, Chris Aikman, **80**, 264.  
*A Joint Meeting of the Canadian and American Astronomical Societies Held in Vancouver, June 14-19, 1987*, Chris Aikman, **81**, 161.  
*The 1988 Annual Meeting of the Canadian Astronomical Society*, Chris Aikman, **82**, 271.  
*The Plaskett Medal, Our Society's Newest Award*, Lloyd A. Higgs, **82**, 312.  
*Editorial*, Jeremy B. Tatum, **87**, 171.  
*The 24th Annual Meeting of the Canadian Astronomical Society*, G. Christopher L. Aikman, Dennis R. Crabtree, Ann C. Gower, James E. Hesser, Christopher J. Pritchett & Russell M. Robb, **87**, 271.  
*Twenty-Fifth Meeting of the Canadian Astronomical Society Held in London, Ontario, May 24-28, 1994*, David G. Turner, **88**, 243.  
*Twenty-Sixth Meeting of the Canadian Astronomical Society Held in Penticton, British Columbia, May 26-31, 1995*, Robert S. Roger & David G. Turner, **89**, 155.  
*Twenty-Seventh Meeting of the Canadian Astronomical Society Held in Kingston, Ont., June 1-5, 1996*, David G. Turner, **90**, 304.

### **Canadian Astronomy News**

*Canadian Astronomy News*, Ian McGregor, NN, **78**, 61.  
*Canadian Astronomy News*, Ian McGregor, NN, **79**, 29.  
*Canadian Astronomy News*, NN, **79**, 45.  
*Astronomy News*, NN, **79**, 89.

### **Canadian Scientist Reports**

*The Meeting of the National Committee for Canada of the IAU at Toronto, March 3-4, 1967*, Ernest R. Seaquist, **62**, 66.  
*The Waterloo Meeting of the National Committee for Canada of the IAU*, M. Pim FitzGerald & John F. Heard, **62**, 189.  
*The Meeting of the National Committee for Canada of the IAU at Ottawa, October 4-6, 1968*, Ian Halliday, **63**, 93.  
*The Meeting of the National Committee for Canada of the IAU at Vancouver, May 2-3, 1969*, Jason R. Auman & V. Gaizauskas, **63**, 207.

- The Meeting for the National Committee for Canada of the IAU at London, September 4-6, 1969*, V. Gaizauskas, **63**, 309.
- The Meeting of the National Committee for Canada of the IAU at Kingston, March 13-14, 1970*, V. Gaizauskas, **64**, 177.
- Canadian Astronomy: Manpower Supply and Demand*, R. C. Roeder & P. P. Kronberg, **64**, 315.
- The Meeting of the National Committee for Canada of the IAU at Ottawa, Ontario, October 23, 1970*, V. Gaizauskas, **65**, 44.

## Catalogues

- Index of Extragalactic Radio-Source Catalogues*, M. J. L. Kestevan & A. H. Bridle, **79**, 21.
- The Saguaro Astronomy Club Database*, Alister Ling, NNB, **83**, 57.
- Argelander and the Bonner Durchmusterung*, Alan H. Batten, **85**, 43.
- Names and Lists*, Alister Ling, B, **6**, 1, 1.
- The Caldwell Catalogue: Why All the Hype?*, Leo Enwright, B, **6**, 5/6, 1.

## Celestial Mechanics, Stellar Dynamics

- Celestial Mechanics — The Neglected Discipline*, J. S. Griffiths, **64**, 238.
- Dynamical Astronomy at Texas*, J. S. Griffiths, **64**, 325.
- Celestial Mechanics in the Twentieth Century*, J. S. Griffiths, **66**, 193.
- The Tools to Determine Orbital Parameters*, W. D. Heintz, **67**, 52.
- Remarks on Orbits and Dynamical Parallaxes*, J. Dommanget, **67**, 56.
- Navigation vs. Astronomie*, Raymond Auclair, NN, **75**, 23.
- The Calculation of Comet Ephemerides*, Jeremy Tatum, **76**, 157.
- Now Where Is That Comet? Building a Simple Model of Comet Halley's Orbit*, B. Franklyn Shinn, NN, **79**, 40, 69.
- Projectiles, Parabolas, and Velocity Expansions of the Laws of Planetary Motion*, J. N. Harris, **83**, 207.

## Centre Français de Montréal

- Across the RASC*, Peter Jedicke, NN, **78**, 73.
- Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 89.
- Centre Reports*, Pierre Paquette, B, **3**, 2, 11.
- National and Centre Councils for 1993*, B, **3**, 2, 26.
- Centre Finances*, B, **3**, 2, 30.
- Centre Reports*, Alain Roussel, B, **4**, 2, 13.
- National and Centre Councils for 1994*, B, **4**, 2, 30.
- Centre Finances*, B, **4**, 2, 34.
- National and Centre Councils for 1995*, B, **5**, 2, 22.
- Centre Finances*, B, **5**, 2, 26.
- National and Centre Councils for 1996*, B, **6**, 2, 26.
- Centre Finances*, B, **6**, 2, 30.

## Centre News

- Centre News*, NN, **75**, 22.
- Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.

*Centre News*, Peter Jedicke, NN, **77**, 10.

## Centres Français (see also Nouvelles du Québec, Nouvelles des Centres Québécois)

- Centres Française*, Damien Lemay, NN, **71**, 78.
- Centres Français*, Damien Lemay, NN, **72**, 34.
- Nouvelles des Centres Français*, Damien Lemay, NN, **76**, 56.

## Comets: General

- Comets of the Sun-Grazing Family*, Ian Halliday, **62**, 73.
- The Art of Comet Hunting*, David H. Levy, NN, **65**, 7.
- Meteor Showers*, Alan T. Blackwell, NN, **65**, 22.
- Giacobinid Meteor Shower: Prospect for 1972*, B. A. McIntosh, **66**, 149, 236.
- The Tenth Planet?*, Thomas Clarke, NN, **66**, 17.
- The Tenth Planet — A Search and a Problem*, Thomas Clarke, NN, **67**, 1.
- Interplanetary Material*, Peter M. Millman, **68**, 13.
- The Observability of Comets*, J. B. Tatum, **69**, 212.
- Comet and Nova Search*, NN, **69**, 47.
- Calculation of the Twilight Visibility Function of Near-Sun Objects*, Sidney O. Kastner, **70**, 153.
- Canadian Comet Discoveries*, R. P. Broughton, **70**, 311.
- Observations of Comets in Greek and Roman Sources Before A. D. 410*, A. A. Barrett, **72**, 81.
- "Problicom" — Threshold to Discovery*, Barry Matthews, NN, **73**, 10.
- Poet and Observer: Gerard Manley Hopkins and Some Mid-19th Century Comets*, David H. Levy, **75**, 139.
- Solar-System Astronomy in Volumes 1-25 of the Journal of the RASC (1907-1931)*, Ian Halliday, **75**, 299.
- The Measurement of Comet Position*, Jeremy B. Tatum, **76**, 97.
- The Calculation of Comet Ephemerides*, Jeremy Tatum, **76**, 157.
- Giant Molecular Clouds and the Solar System Comets*, Sidney van den Bergh, **76**, 303.
- The Star of Bethlehem: Some Historical Considerations*, Anthony A. Barrett, NN, **77**, 82.
- The Lost Periodic Comets of More Than One Apparition*, Christopher E. Spratt, **78**, 39.
- The Lost Periodic Comets of One Apparition*, Christopher E. Spratt, **78**, 189.
- Astronomical Observations in the Anglo-Saxon Chronicle*, Owen Brazell, NN, **78**, 56.
- The ALPO Comet and Meteor Sections*, David H. Levy, NN, **78**, 78.
- Finding Comet Halley by Projection Blinking*, Ben Mayer, NN, **79**, 38.
- Observing Tips for Comet Halley*, Dave Chapman, NN, **79**, 51.
- Observer's Cage*, David H. Levy, NN, **80**, 92.
- Observer's Cage*, David H. Levy, NN, **81**, 8.
- The "Eclipse Comets"*, Christopher E. Spratt, NN, **82**, 19.
- Observer's Cage*, David H. Levy, NNB, **84**, 26, 48.
- Encke, the Comet*, Zdenek Sekanina, **85**, 324.
- Comets Discovered by Canadians*, J. B. Tatum, **85**, 384.
- Comets Discovered by Canadians*, J. B. Tatum, **86**, 113.
- What the Blinkity-Blink is Going On Here?*, Jeremy B.

Tatum, B, **2**, 6, 5.  
*The Cretaceous/Tertiary Boundary Impact (or The Dinosaurs Didn't Have a Chance)*, Alan R. Hildebrand, **87**, 77.  
*The Art of Comet Hunting, Part II*, David H. Levy, **88**, 5.  
*The One That Got Away*, Jeremy Tatum, B, **4**, 5, 5.  
*Comet P/1995 Al (Jedicke)*, Jeremy Tatum, **89**, 70.  
*Twelve Years on the Palomar 18-Inch Schmidt*, Carolyn S. Shoemaker, **90**, 18.

## Comets: Individual

### BY NAME:

#### Austin (1989c)

*Comet Austin (1989c)*, NNB, **84**, 6.

#### Bennett

*Christmas Comets*, NN, **64**, 2.

*Comets*, NN, **64**, 5.

*Photoelectric Observations of Comet Bennett*, Gustav A. Bakos, **67**, 183.

#### Biela

*On the History of Wilhelm Von Biela and His Comet*, Karel Hujer, **77**, 305.

*Periodic Comet Biela 1852 III — An Update*, Christopher E. Spratt, **78**, 251.

#### Bradfield

*Comet Bradfield: A Look Back*, Patrick Kelly, NN, **82**, 46.

#### Brorsen-Metcalf

*The 1989 Return of the Periodic Comet Brorsen-Metcalf*, Christopher E. Spratt, **81**, 95.

#### Daido-Fujikawa (1970a)

*Comets*, NN, **64**, 5.

#### Encke

*Encke, the Comet*, Zdenek Sekanina, **85**, 324.

#### Giacobini-Zinner (1900 III)

*Giacobinid Meteor Shower: Prospect for 1972*, B. A. McIntosh, **66**, 149, 236.

#### Halley

*The Visibility of Halley's Comet*, R. P. Broughton, **73**, 24.  
*News Briefs*, NN, **76**, 4.

*Four Years and Counting*, Roy L. Bishop, NN, **76**, 20.

*Preparing For Halley's Comet*, Ian Halliday, **77**, 63.

*Halley's Comet is Coming!*, NN, **77**, 5.

*Halley Bulletin*, NN, **77**, 27.

*Comet Halley Reference List Published*, NN, **77**, 46.

*Comet News*, Chris Spratt, NN, **78**, 47.

*Halley's Comet*, **78**, 87.

*Halley's Comet: A Bibliography of Canadian Newspaper Sources, 1835-36 and 1910*, Julian A. Smith, **79**, 54.

*Observing Comet Halley from the South*, Michael S. F. Watson, **79**, 215.

*Halley's Comet 1985*, **79**, 314.

*IHW Coordinators*, NN, **79**, 11.

*Peru: Twelve Months Before Halley*, Jack Newton, NN, **79**, 37.

*Finding Comet Halley by Projection Blinking*, Ben Mayer, NN, **79**, 38.

*Now Where Is That Comet? Building a Simple Model of Comet Halley's Orbit*, B. Franklyn Shinn, NN, **79**, 40,

69.

*Observing Tips for Comet Halley*, Dave Chapman, NN, **79**, 51.

*Comet Halley for Canadians*, Michael S. F. Watson, NN, **79**, 67.

*Halley Has Arrived!*, Ian G. McGregor, NN, **79**, 82.

*Redit Cometes Halleii*, J. E. Kennedy, NN, **79**, 83.

*Alice Springs Prepares for Halley*, NN, **79**, 84.

*Halley's Comet: Canadian Observations and Reactions, 1835-36 and 1910*, Julian A. Smith, **80**, 1.

*The History of Comet Halley*, Donald K. Yeomans, Jürgen Rahe & Ruth S. Freitag, **80**, 62.

*Comet Halley Again*, **80**, 153.

*Comet Halley from Peru — 1986*, Jack Newton, **80**, 295.  
*Collecting Stamps on Comet Halley*, Andrew Yee, NN, **80**, 29.

*Halley Fever in New Zealand*, Rick Huziak, NN, **80**, 29.

*Halley from 35 000 — A Great Success*, Steve Dodson, NN, **80**, 42.

*Comet Halley: A View from Arizona*, Angelika Hackett, NN, **80**, 43.

*Comet Halley from the Galapagos Islands*, Betty Robinson, NN, **80**, 54.

*A Comet Halley Educational Experience*, Ron Waldron, NN, **80**, 58.

*Showers From Halley*, Peter Brown & Mark Zalcik, NN, **80**, 77.

*First Viewing from Saudi Arabia*, Eleanor Fanning, NN, **80**, 82.

*Yet More Comet Halley*, **81**, 20.

*Comet Halley Time Capsule*, Michael Watson, NN, **81**, 27.

*Saying Goodbye*, David H. Levy, NN, **81**, 73.

*Halley's Comet Time Capsule Sealed*, Patrick Kelly, B, **1**, 4, 6.

#### Hyakutake

*Comet Hyakutake Views*, **90**, 169.

#### Ikeya-Seki

*Cometary Gas Motions*, Ian Halliday, **62**, 381.

*The Art of Comet Hunting*, David H. Levy, NN, **65**, 7.

#### IRAS-Araki-Alcock (1983d)

*Two Surprising Spring Comets*, Ian McGregor, NN, **77**, 50.

#### Jurlof-Achmarof-Hassel (1939d)

*A Canadian's Pre-War Comet*, Philip Mozel, B, **1**, 1, 7.

#### Kobayash-Berger-Milon (1975h)

*The Art of Comet Hunting*, Cathy Hall, NN, **69**, 46.

*Independent Sighting of a New Comet (1975h) by a Saskatoon Amateur Astronomer*, NN, **69**, 47.

#### Kohoutek

*Orbital Data for Comet Kohoutek (1973f)*, Lorne Avery, NN, **67**, 25.

*Observations of Comet Kohoutek*, J. B. Newton, **68**, 152.

*Calculation of the Twilight Visibility Function of Near-Sun Objects*, Sidney O. Kastner, **70**, 153.

#### Levy (1987a)

*Comet Levy 1987a*, NN, **81**, 31.

#### Levy (1987y)

*Second Comet Levy for 1987*, Leo Enwright, NN, **81**, 83.

#### Levy (1990c)

*Comet Levy 1990c*, Jeremy B. Tatum, **84**, 283.



*Comet Levy 1990C*, **85**, 52.  
Levy (1991q)  
*Comet Levy 1991Q*, **85**, 225.  
Levy-Rudenko (1984t)  
*Comet Levy-Rudenko (1984t)*, NN, **79**, 12.  
Machholz 1986 VIII  
*The Anti-Tail of Periodic Comet Machholz 1986 VIII*, J. B. Tatum, D. D. Balam & T. B. Lowe, **85**, 91.  
Meier (1978f)  
*Comet Meier 1978f— Another Ottawa First*, Doug Welch, NN, **72**, 31.  
Meier (1979i)  
*Comet Meier 1979i*, NN, **73**, 79.  
Meier (1984o)  
*Comet Meier (1984o)*, NN, **78**, 84.  
Okanzaki-Levy-Rudenko (1989r)  
*Comet Okanzaki-Levy-Rudenko (1989r): David Levy's Fifth Comet*, Leo Enwright, NNB, **83**, 66.  
Shoemaker-Levy 1 (1990o)  
*Periodic Comet Shoemaker-Levy 1 1990O*, **85**, 52.  
Shoemaker-Levy 2 (1990p)  
*Periodic Comet Shoemaker-Levy 2 1990P*, **85**, 53.  
Shoemaker-Levy (1991d)  
*Comet Shoemaker-Levy 1991D*, **85**, 54.  
Shoemaker-Levy (1991e)  
*Periodic Comet Shoemaker-Levy 1991E*, **85**, 110.  
Shoemaker-Levy (1991f)  
*Comet Shoemaker-Levy 1991F*, **85**, 111.  
Shoemaker-Levy 5 (1991z)  
*Periodic Comet Shoemaker-Levy 5 1991z*, **86**, 56.  
Shoemaker-Levy (1991a<sub>1</sub>)  
*Comet Shoemaker-Levy 1991a<sub>1</sub>*, **86**, 57.  
Shoemaker-Levy 6 (1991b<sub>1</sub>)  
*Periodic Comet Shoemaker-Levy 6 1991b<sub>1</sub>*, **86**, 57.  
Shoemaker-Levy 7 (1991d<sub>1</sub>)  
*Comet Shoemaker-Levy 1991d<sub>1</sub>*, **86**, 57.  
*Periodic Comet Shoemaker-Levy 7 1991d<sub>1</sub>*, **86**, 214.  
Shoemaker-Levy 8 (1992f)  
*Periodic Comet Shoemaker-Levy 8 1992f*, **86**, 214.  
Shoemaker-Levy 9 (1993e)  
*Comet Shoemaker-Levy 1993e*, **87**, 163.  
*The S's in SL9*, David Chapman, B, **4**, 3, 6.  
*Observations of 1.4 GHz Continuum Emission from Jupiter During Its Collision With Comet Shoemaker-Levy 9*, John Galt & Susan Watkins, **89**, 135.  
*Observations of Jupiter in 1994*, Richard W. Schmude, Jr. & Danny Bruton, **89**, 257.  
*Twelve Years on the Palomar 18-Inch Schmidt*, Carolyn S. Shoemaker, **90**, 18.  
*Comet Shoemaker-Levy 9 and Jupiter: The Collision of the Century*, David H. Levy, **90**, 42.  
*Letter to the Editor: Observations of 1.4 GHz Continuum Emission from Jupiter During Its Collision With Comet Shoemaker-Levy 9*, Roland G. Duchesne, **90**, 159.  
Shoemaker-Levy (1993h)  
*Comet Shoemaker-Levy 1993h*, **87**, 251.  
Shoemaker-Levy (1994d)  
*Comet Shoemaker-Levy 1994d*, Jeremy Tatum, **88**, 170.  
Skorichenko-George (1989e<sub>1</sub>)  
*Comet Skorichenko-George (1989e<sub>1</sub>)*, NNB, **84**, 6.  
*... And a Comet, By George!*, **84**, 234.

Sugano-Saigusa-Fujikawa (1983e)  
*Two Surprising Spring Comets*, Ian McGregor, NN, **77**, 50.  
Swift-Tuttle  
*The Possible Return of a Famous Comet in 1992*, Christopher E. Spratt, **86**, 187.  
*Comet Swift-Tuttle 1992t*, **87**, 67.  
*Worlds in Collision?*, Alister Ling, B, **3**, 1, 6.  
Tago-Sato-Kosaka  
*Christmas Comets*, NN, **64**, 2.  
*Comets*, NN, **64**, 5.  
Takamizawa-Levy (1994f)  
*Comet Takamizawa-Levy 1994f*, Jeremy Tatum, **88**, 171.  
Wilson (1986l)  
*Comet Wilson 1986l*, NN, **80**, 80.

#### BY IAU DESIGNATION:

1882 II  
*Copeland and Lohse and the Comet, 1882 II*, M. W. Burke-Gaffney, **62**, 49.  
1974g  
*The Discovery of Comet 1974g*, Sidney van den Bergh, **69**, 29.  
Comet 1910a  
*The Genius of Pixilated Point*, Michael W. Ovenden, **77**, 221.  
*The Evening of January 27, 1910*, Ami S. Myrdal, **77**, 221.  
*Comet 1910a Again*, **78**, 49.  
1995 A1  
*Comet P/1995 A1 (Jedicke)*, Jeremy Tatum, **89**, 70.  
1996 A1  
*Comet P/1996 A1 (Jedicke)*, Jeremy Tatum, **90**, 102.

#### **Correspondence/Correspondance**

*Letter to the Editor*, Ken Hewitt-White, NN, **64**, 14.  
*Letter to the Editor*, Gordon K. Falconer, NN, **64**, 15.  
*Were There Any Other Observers?*, Ted Bronson, NN, **67**, 2.  
*Total Lunar Eclipse*, Doris L. Cooper, NN, **70**, 81.  
*A Letter to the Editor*, Robert Dick, NN, **76**, 44.  
*BAA Aurora Section Wants Canadian Observers*, S. R. Dunlop, NN, **77**, 5.  
*Bright February Fireball*, Leo Enwright, NN, **77**, 19.  
*A Mysterious Object*, Todd Lohvinenko, NN, **77**, 19.  
*The BAA Encourages Canadian Aurora Observers*, R. J. Livesey, NN, **77**, 51.  
*Letter to the Editor*, W. Jutting, NN, **78**, 21.  
*A Letter to the Editor*, Tom Williams, NN, **78**, 64.  
*Letter to the Editor*, Peter Ceravolo, NN, **80**, 62.  
*The Value of a Nagler*, Albert Nagler, NN, **81**, 39.  
*In Defence of Quality Products*, Peter Ceravolo, NN, **81**, 40.  
*Astronomy in the House*, Dave Nickerson, NN, **81**, 63.  
*The Rotations of Planets With Satellites*, Colin Scarfe, **82**, 80.  
*Evaluation of Uranometria 2000.0*, Gordon Friedrich, NN, **82**, 41.  
*Attention Telescope Makers*, Bill Krosney, NN, **82**, 41.

- Arabian, not Persian Gulf*, Abdul Ilah Marafie, NN, **82**, 41.  
*Persian Gulf Not Arabian*, J. Hurlburt, NNB, **83**, 4.  
*Erratum in the Errata*, Lucian J. Kemble, NN, **82**, 84.  
*Mount Kobau No Problem*, Ronald E. Dawes, NNB, **83**, 3.  
*Is Your Computer Sleeping?*, Chris Brown, NNB, **83**, 32.  
*Old Observer's Handbooks Wanted*, Patrick Wiggins, NNB, **83**, 32.  
*Who's Leading What or Whom Where?*, Frank Shinn, NNB, **83**, 39.  
*A Peruvian Amateur's Dilemma*, Ronald Wright, NNB, **83**, 39.  
*Simon Newcomb an American Astronomer*, Roy North, NNB, **83**, 40.  
*Projects for Amateur Radio Astronomers*, Grote Reber, NNB, **84**, 10.  
*Wanted: Back Issues of the Observer's Handbook*, Nicholas Hallett, NNB, **84**, 11.  
*2001: The Beginning of a New Decade*, James T. Himer, NNB, **84**, 24.  
*Saguaro Astronomy Club Database*, Alister Ling, NNB, **84**, 25.  
*Alberta Star Party 1989*, Rick Ponomar, NNB, **84**, 25.  
*Request for Links*, Antony R. Burrows, NNB, **84**, 63.  
*Address of British Sundial Society*, Richard Langley, NNB, **84**, 63.  
*Maple Grove Astronomy Club*, Bob MacConnell, NNB, **84**, 63.  
*Astronomy Day in Montréal*, Mario Caluori, B, **1**, 1, 2.  
*I'm Not Dead Yet!*, D. J. Fitzgerald, B, **1**, 1, 2.  
*Courageous Astronomer*, Zeljko Kunej, B, **1**, 2, 2.  
*The Mazatlan Zenith Curse?*, Alister Ling, B, **1**, 1, 2.  
*A Society First!?*, Jack Simison, B, **1**, 1, 2.  
*Humour Wanted!*, Gregory L. Zentz, B, **1**, 1, 2.  
*Astronomical Glasnost*, B, **1**, 2, 2.  
*This is Our REAL Address*, Catharine Breckenridge, B, **1**, 2, 2.  
*Testing Jupiter's Disk*, Clive Gibbons, B, **1**, 3, 2.  
*A Cure for Some Headlights*, Alister Ling, B, **1**, 3, 2.  
*Astronomy Under Attack*, Bassel A. Reyahi, B, **1**, 3, 2.  
*New Format Liked*, Alan Dyer, B, **1**, 4, 2.  
*The "Old" Name's History*, Jim Low, B, **1**, 4, 2.  
*A Mystery of Procyon*, Bassel A. Reyahi, B, **1**, 4, 2.  
*Palms Up!*, Todd Lohvinenko, B, **1**, 5, 2.  
*Let's All Share the Beauty*, Eric W. Casagrande, B, **2**, 1, 2.  
*Many Thanks and Please Write!*, Henry Lee, B, **2**, 1, 2.  
*May the Force Be With Us?*, Christian Stuhr, B, **2**, 1, 2.  
*Humour Appreciated*, Catharine Cousineau, B, **2**, 1, 8.  
*Mirrors Wanted*, Sudhakar Bhalerao, B, **2**, 2, 2.  
*An Ounce of Prevention ...*, Alister Ling, B, **2**, 2, 2.  
*What Goes Around Comes Around?*, Roger G. Napier, B, **2**, 2, 2.  
*Life, the Universe and Everything?*, Robert E. McElwaine, B, **2**, 2, 8.  
*On the Money*, Richard Small, B, **2**, 2, 8.  
*Deep Sky Journal*, Alister Ling, B, **2**, 3, 2.  
*Canadian Asteroids — A Mistake!*, Jeremy Tatum, B, **2**, 3, 2.  
*Of Field Lines, Electrons and Reading*, Joe Yurchesyn, B, **2**, 3, 2.  
*Annual Report Glitches*, B. Ralph Chou, B, **2**, 4, 2.  
*To Centre or Not To Centre*, Andreas Gada, B, **2**, 4, 2.  
*Editor's Mailing List Update*, Patrick Kelly, B, **2**, 4, 8.  
*Donations Linkage Upsetting*, Suzanne Moreau, B, **2**, 6, 2.  
*Big Bang for Little Bucks*, Peter Broughton, B, **3**, 1, 2.  
*Last But Not Least*, Philip Mozel, B, **3**, 1, 2.  
*Book Reviewers Wanted*, B, **3**, 1, 3.  
*A Biased View of Membership Fees*, Roy Bishop, B, **3**, 1, 3.  
*In the Best Possible Way*, Alan H. Batten, B, **3**, 3, 2.  
*No Sexism in Vancouver*, Diane Chaytor, B, **3**, 4, 2.  
*Classroom Astronomer's Wanted*, Andrew Fraknoi, B, **3**, 4, 2.  
*Elitist Men's Club?*, Clive Gibbons, B, **3**, 4, 2.  
*Decision Time for the RASC*, Darryl Dewolfe, B, **3**, 5, 2.  
*Astronomical Versus Society*, B. Franklyn Shinn, B, **3**, 5, 2.  
*Webb Society Update*, Owen Brazell, B, **3**, 6, 2.  
*People Sharing the Wonder*, Jim Low, B, **3**, 6, 2.  
*A Constructive Approach to Sexism*, Chris Baldock, B, **3**, 6, 3.  
*RASC 2000*, Doug George, B, **3**, 6, 3.  
*Closed Captions?*, Heinz Berrys, B, **4**, 1, 2.  
*Survey Comments*, Doug Hube, B, **4**, 1, 2.  
*Too Close for Comfort*, John Percy, B, **4**, 1, 2.  
*Nebula Will Not Be Mugged*, Steve Whitehouse, B, **4**, 1, 2.  
*A Telescope for Viet Nam*, Alan H. Batten, B, **4**, 3, 2.  
*Astronomy Material Sought*, Uros Burger, B, **4**, 3, 2.  
*Journal Comments Appreciated*, Andrew I. Oakes, B, **4**, 3, 2.  
*Did He Really Say That?*, Maurice Bruce Stewart, B, **4**, 3, 2.  
*Little More Than Orange Juice*, Stephen Biggs, B, **4**, 4, 2.  
*Annual or Annular?*, Rick Kelsch, B, **4**, 4, 2.  
*Die Energie der Welt ist Constant*, Allan Reddock, B, **4**, 5, 2.  
*It Belongs on the Bottom*, C. Musès, B, **4**, 6, 2.  
*The Wright Stuff*, Mary de Torcat, B, **4**, 6, 2.  
*Letter to the Editor*, Lambert C. Huneault, **89**, 225.  
*Letter to the Editor*, Richard S. Hill, **89**, 264.  
*Letter to the Editor*, Suzanne E. Moreau, **89**, 265.  
*Looking for Phenomena*, David J. Robinson, B, **5**, 1, 2.  
*Let's Keep Urania*, Camilla Robinson, B, **5**, 1, 2.  
*Testimony to an Astronomer*, John Hicks, B, **5**, 3, 2.  
*Little More Than Orange Juice?*, Blair MacDonald, B, **5**, 3, 2.  
*Don't Forget Pickering*, Dimitri P. Photiades, B, **5**, 3, 2.  
*Non-Doctors Talk Too*, Ron Porv, B, **5**, 4, 2.  
*Donations Needed for Brazil*, João Baptista Cintra, B, **5**, 5, 2.  
*Letter to the Editor*, Steven Biggs, **90**, 95.  
*Letter to the Editor*, Roland G. Duchesne, **90**, 159.  
*Letter to the Editor*, Ian Halliday, **90**, 161.  
*Letter to the Editor*, Norman Davidson, **90**, 162.  
*Letter to the Editor*, Walter Feibelman, **90**, 163.  
*Letter to the Editor*, Ralph B. Baldwin, **90**, 341.  
*Letter to the Editor*, Roy H. Garstang, **90**, 341.  
*Letter to the Editor*, Norman Davidson, **90**, 343.  
*You're a Great Fellow, Ed!*, P. M. Swan, B, **6**, 1, 2.  
*What About Setting Circles?*, Paul Boltwood, B, **6**, 3, 2.  
*Many Thanks!*, Rosemary Freeman, B, **6**, 4, 2.  
*Galileo Was #2*, Randall Brooks, B, **6**, 5/6, 2.  
*The Romans Messed It Up!*, Nathaniel Cohen, B, **6**, 5/6, 2.

## Cosmic Rays

*Cosmic Rays and Cosmic X-Rays*, James E. Felton, **64**, 33, 73.

*A Review of Extragalactic Non-Thermal Sources*, D. E. Harris, **74**, 109.

*Interstellar Forecast: Increasing Cloudiness*, B, **6**, 3, 3.

## Cosmology: Cosmic Microwave Background

*COBE Observations of the Early Universe*, George F. Smoot, **88**, 114.

## Cosmology: Distance Scale

*Cosmological Problems I. The Time Scale*, R. C. Roeder, **61**, 369.

*The Relativistic Doppler Effect*, D. Sher, **62**, 105.

*On Globular Clusters and Extragalactic Distances*, René Racine, **64**, 257.

*Novae and the Extragalactic Distance Scale*, Sidney van den Bergh, **75**, 169.

*The Age of the Universe*, Sidney van den Bergh, **79**, 153.

*An Iterative Solution for Stellar Space Densities*, B. Cameron Reed, **79**, 294.

*The Oblique Doppler Effect*, Jeremy B. Tatum, **79**, 302.

*From Galactic Structure to Quasars*, Maarten Schmidt, **87**, 318.

*New Results for the Hubble Constant*, John Hutchings, **88**, 407.

*The Age and Size of the Universe*, Sidney van den Bergh, **89**, 6.

*The Great Debate, 1996 Version*, **90**, 97.

## Cosmology: Early Universe

*The Early Moments of Our Universe*, Hubert Reeves, **83**, 223.

*COBE Observations of the Early Universe*, George F. Smoot, **88**, 114.

## Cosmology: Gravitational Lensing

*An Optical Analogue of the Gravitational Lens: A Classroom Demonstration of the Twin-Quasar Phenomenon*, T. A. Clark, **75**, 109.

*Simulating the Transparent Gravitational Lens*, Charles C. Dyer & Robert C. Roeder, **75**, 227.

## Cosmology: Large-Scale Structure of the Universe

*Space-Time Probes of Large Scale Structure Evolution*, David C. Koo, **87**, 379.

*Cosmic Velocity Flows*, S. M. Faber, S. Courteau, A. Dekel, A. Dressler, T. Kollatt, J. A. Willick & A. Yahil, **88**, 92.

*The Stickman, the Great Wall, and the HECTOSPEC: Large-Scale Structure in the Universe*, Margaret J. Geller, **88**, 283.

## Cosmology: Miscellaneous

*Cosmology*, P. J. E. Peebles, **63**, 4.

*The Uneasy Equilibrium of Our Physical Universe*, C. S. Beals, **64**, 339.

*The Telescope Number, T*, Roy L. Bishop, NN, **71**, 24.

*Cosmology — In Search of a New Paradigm?*, Sidney van den Bergh, **84**, 275.

## Cosmology: Observations

*The Relativistic Doppler Effect*, D. Sher, **62**, 105.

*Radio Source Counts, Cosmology, and Evolution*, George F. Mitchell, **65**, 195.

*Recent Results of Research in Astronomy*, Doug Hube, NN, **69**, 16.

*What Price Infinity?*, Roy L. Bishop, NN, **71**, 27.

*Space-Time Probes of Large Scale Structure Evolution*, David C. Koo, **87**, 379.

*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.

*The Stickman, the Great Wall, and the HECTOSPEC: Large-Scale Structure in the Universe*, Margaret J. Geller, **88**, 283.

## Cosmology: Theory

*Cosmology*, P. J. E. Peebles, **63**, 4.

*Radio Source Counts, Cosmology, and Evolution*, George F. Mitchell, **65**, 195.

*Gravity and its Astronomical Implications: An Elementary Guide*, Ray Skinner, **68**, 173, 237, 307.

*Les Éléments dans L'Univers*, Gilles Beaudet, **70**, 247.

*Einstein and Cosmology*, R. C. Roeder, **73**, 349.

*Astronomers and Creationism*, Alan H. Batten, **78**, 32.

*God and the Big Bang*, Lorna Green, **79**, 160.

*Speaking of God and the Universe*, Christian Stuhr, **80**, 87.

*The Early Moments of Our Universe*, Hubert Reeves, **83**, 223.

*Cosmogony and the Very Nearby Galaxies*, P. J. E. Peebles, **83**, 363.

*Look-Back Time, The Age of the Universe, and The Case for a Positive Cosmological Constant*, Kevin Krisciunas, **87**, 223.

*Space-Time Probes of Large Scale Structure Evolution*, David C. Koo, **87**, 379.

*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.

*COBE Observations of the Early Universe*, George F. Smoot, **88**, 114.

*The Stickman, the Great Wall, and the HECTOSPEC: Large-Scale Structure in the Universe*, Margaret J. Geller, **88**, 283.

*The Age and Size of the Universe*, Sidney van den Bergh, **89**, 6.

## Earth

- Summary of Drilling at the West Hawk Lake Crater*, Ian Halliday & A. A. Griffin, **61**, 1.
- High Altitude Balloon Experiments to Study Oxygen in a Planetary Atmosphere*, W. F. J. Evans, A. Vallance Jones & E. J. Llewellyn, **61**, 82.
- The Tektite Puzzle*, Ian Halliday, **61**, 86.
- Journey Via Otjiwarongo: A Trip to the Hoba Meteorite*, J. D. Fernie, **61**, 127.
- Impact Craters of the Earth and Moon*, C. S. Beals & Ian Halliday, **61**, 295.
- Vilna Meteorite — Camera, Visual, Seismic and Analytic Records*, R. E. Folinsbee, L. A. Bayrock, G. L. Cumming & D. G. W. Smith, **63**, 61.
- Current Research at Sikhote-Alin*, Peter M. Millman, **64**, 251.
- Meteorite Dust in the Atmosphere*, Ian Halliday, **64**, 319.
- The Uneasy Equilibrium of Our Physical Universe*, C. S. Beals, **64**, 339.
- Some Studies on Geomagnetic Crochet-Associated Solar Optical Flares and Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 66.
- Earth's Space Scars*, Peter M. Millman, **65**, 165.
- Tektite Debate Continues*, Ian Halliday, **65**, 296.
- The New Gravity Map of Canada*, NN, **68**, 10.
- Identifying a Meteorite*, Rolf Meier, NN, **68**, 13.
- Impact Structures in Canada: Their Recognition and Characteristics*, P. B. Robertson & R. A. F. Grieve, **69**, 1.
- Sunspots and Agriculture*, D. P. Hube, NN, **69**, 16.
- Lunar Occultations*, David Brown, NN, **71**, 28.
- Whence Energy?*, Roy L. Bishop, **74**, 163.
- On Measuring the Earth With a Hose*, Dennis Rawlins, **74**, 299.
- The 1979 February 26 Solar Eclipse on Short Wave*, Ken Tapping & Chip Wiest, NN, **74**, 40.
- How Long Are the Seasons?*, G. H. Moller, NN, **74**, 50.
- Volcanic Ash Gets in Your Eyes*, Chris Rutkowski, NN, **74**, 52.
- Comments on "How Long Are the Seasons?"*, NN, **74**, 52.
- "Earthquakes in the Air": The Seismological Theory of John Flamsteed (1693)*, J. E. Kennedy & W. A. S. Sarjeant, **76**, 213.
- Sol-Lunar Forces and Tides*, B. Franklyn Shinn, NN, **77**, 11.
- El Chichon and the Umbra*, Richard Linkletter, NN, **77**, 24.
- Sol-Lunar Forces and Tides — Part 2*, B. Franklyn Shinn, NN, **77**, 25.
- Sounding Rocket Research in Canada*, Kenneth Pilon, NN, **79**, 6.
- Science on Ice: Astronomy at the South Pole*, Steven Morris, NN, **79**, 25.
- Recurrent Phenomena of Venus and the Earth/Venus Orbital Resonance*, David M. F. Chapman, **80**, 336.
- Fox Lake Meteorite Hunt*, Peter Brown, NN, **80**, 25.
- The Aten-Apollo-Amor Close-Approach Minor Planets*, Christopher E. Spratt, **81**, 8.
- The Montagnais Impact Structure*, Roy Bishop, NN, **81**, 10.
- Visiting Montreal's Seismographic Station*, Brenda Leonard, NN, **81**, 13.
- Minor Planet Toro Approaching Earth*, Chris Spratt, NN, **82**, 48.
- Canada's Iron Creek Meteorite*, Christopher E. Spratt, **83**, 81, 329.
- A Possible Giant Astrobleme on the North Shore of Canada at the Cretaceous-Tertiary Boundary*, Ralph B. Baldwin, **83**, 377.
- Planet Earth as a Life Support System*, Lydia Dotto, **84**, 299.
- Recent Field Research on Potential Meteorite Falls from the Meteorite Observing and Recovery Project*, Peter Brown & Mark Zalcik, **86**, 130.
- A Simple Method for Viewing Meteorite Thin Sections*, Christopher E. Spratt, **86**, 215.
- The Cretaceous/Tertiary Boundary Impact (or The Dinosaurs Didn't Have a Chance)*, Alan R. Hildebrand, **87**, 77.
- Why is it Hotter in the Summer Than in the Winter?*, Roy L. Bishop, **87**, 346.
- Worlds in Collision?*, Alister Ling, B, **3**, 1, 6.
- The Earth-Moon System as Seen From Venus*, B, **3**, 6, 1.
- Rising and Setting Phenomena*, Terence Hicks, **88**, 86.
- Too Close for Comfort*, John Percy, B, **4**, 1, 2.
- Geopotential Surface Corrections to Large Aperture Liquid Mirror Telescopes*, Wayne H. Cannon & Slavek M. Rucinski, **89**, 99.
- Meteor Crater, Nova Scotia*, **89**, 111.
- Photographic Determination of the Eccentricity of the Earth's Orbit*, Richard L. Nugent, **89**, 217.
- Sunrises and Sunsets*, David G. Turner, **90**, 1.
- Letter to the Editor: Sunrises and Sunsets*, Ian Halliday, **90**, 161.
- Letter to the Editor: Sunrises and Sunsets*, Norman Davidson, **90**, 162.
- Letter to the Editor: Sunrises and Sunsets*, Walter Feibelman, **90**, 163.
- Letter to the Editor: Sunrises and Sunsets*, Roy H. Garstang, **90**, 341.
- Letter to the Editor: Sunrises and Sunsets*, Norman Davidson, **90**, 343.
- Lecture Notes: "The Fate of the Earth" by Dr. Scott Tremaine*, Doug Pitcairn, B, **6**, 1, 8.

## Eclipses

- International Solar Flash-Spectrum Experiment*, **64**, 201.
- An Observation of the Total Solar Eclipse of March 7, 1970*, T. Cairns, P. Moffat, J. Newton, J. Scatliff & J. Steffensen, **64**, 242.
- What a Gorgeous Eclipse!*, Tom Tothill, NN, **64**, 11.
- A Different Story*, Cyril G. Clark, NN, **64**, 12.
- Letter to the Editor*, Gordon K. Falconer, NN, **64**, 15.
- Total Solar Eclipse: July 10, 1972*, Si Brown, NN, **64**, 22.
- July 1972 Total Solar Eclipse*, Si Brown, NN, **64**, 29.
- Predictions of Local Circumstances Across Canada of the Total Solar Eclipse of July 10, 1972*, V. Gaizauskas, L. W. Avery & F. D. Manning, **65**, 107.
- Recording the Eclipse Shadow Bands on Magnetic Tape*, Frank M. Susel, **65**, 273.
- The 1972 Total Solar Eclipse*, NN, **65**, 4.
- Total Solar Eclipse, July 1972*, NN, **65**, 5.
- The 1972 Solar Eclipse*, J. Findlay, NN, **65**, 13.

- Polarization of the Solar Corona*, W. A. Feibelman, **66**, 109.
- Some Contributions of Canadian Astronomers to Solar Eclipse Expeditions*, J. E. Kennedy, **66**, 261.
- Cress Solar Eclipse Expedition*, R. W. Nicholls, **66**, 278.
- Total Solar Eclipses of Great Duration*, Edward S. Light, **66**, 295.
- A Suggested Eclipse Experiment*, Brian K. Dennison & Gary L. Seago, NN, **66**, 4.
- More Eclipse News*, NN, **66**, 11.
- Observations Planned Near the Edges of the Path of the July 10, 1972 Total Solar Eclipse in Canada*, David W. Dunham, NN, **66**, 16.
- The Eclipse of July 10th*, NN, **66**, 21.
- Murphy Strikes Again*, K. Chilton, NN, **66**, 23.
- A Fantastic Total Eclipse*, Marie Litchinsky, NN, **66**, 25.
- The Toronto Centre Eclipse Expedition 8 to 11 July, 1972*, B. R. Chou, NN, **66**, 26.
- Eclipse-72 Over the Northwest Territories*, John Scatliff, NN, **66**, 28.
- Solar Eclipse July 10 from Prince Edward Island*, B. F. Shinn, NN, **66**, 29.
- Goondiwindi Recalls 1922*, J. F. Heard, NN, **66**, 30.
- "A Glimpse Down the Road to Heaven"*, Mary C. Wynes, NN, **66**, 30.
- The Thix and the Fox, Mayan Solar Eclipse Intervals*, Charles H. Smiley, **67**, 175.
- Calgary Centre Eclipse Expedition*, NN, **67**, 25.
- Eclipse Book*, NN, **68**, 32.
- A Note on the Periodicity of Eclipses*, Charles H. Smiley, **69**, 133.
- The Partial Solar Eclipse of Dec. 13, 1974*, John Findlay, NN, **69**, 18.
- The Eclipse at Jarnac Pond*, David H. Levy, NN, **69**, 39.
- Solar Eclipse — S. E. Australia — 23 October 1976: October Average Weather Summary Along the Eclipse Path*, D. J. Linforth, NN, **69**, 43.
- On the Solar Eclipse of 1860*, J. E. Kennedy, **70**, 74.
- Periodicities of Eclipses*, G. P. Können & J. Meeus, **70**, 81.
- Total Solar Eclipses in Canada: 1963-2024 AD*, V. Gaizauskas & L. W. Avery, **70**, 135.
- Total Lunar Eclipse*, Doris L. Cooper, NN, **70**, 81.
- An Eclipse of Iapetus by Saturn Predicted for October 19, 1977*, C. E. Spratt, NN, **71**, 39.
- Revised Predictions for Eclipses of Saturn VIII (Iapetus)*, NN, **71**, 56.
- Predictions for the 1979 Solar Eclipse*, Fred Espenak, **72**, 149.
- The Total Solar Eclipse of 1979, February 26*, William T. Peters, NN, **72**, 25.
- Eye Injuries and the Solar Eclipse*, B. Ralph Chou, NN, **72**, 66.
- A Solar Flash Spectrum for 26th February, 1979*, Christopher Corbally, **73**, 263.
- Earned Acknowledgment*, NN, **73**, 30.
- Eclipse From Above*, Roy L. Bishop, NN, **73**, 31.
- The February 26, 1979 Eclipse*, David H. Levy, NN, **73**, 33.
- Eclipse de Soleil du 26 Fevrier 1979*, Damien Lemay, NN, **73**, 34.
- The Total Solar Eclipse*, David A. Roger, NN, **73**, 36.
- Totality 1979 — Looking Back*, NN, **73**, 37.
- Photometric Experiment*, Merlyn Mebly, NN, **73**, 39.
- Flash Spectrum Experiment*, Mike Wesolowski, NN, **73**, 40.
- Manitoba College Leads Eclipse Expedition*, Harlan Creighton, NN, **73**, 58.
- Transair Passengers See Eclipse*, NN, **73**, 59.
- Occultations and Eclipses of Saturn's Satellites for 1980*, NN, **73**, 88.
- The Total Solar Eclipse of February 16, 1980*, Sidney van den Bergh, **74**, 238.
- Total Penumbral Lunar Eclipses*, Jean Meeus, **74**, 291.
- Calgary Centre Members Experience Successful Eclipse Expedition*, Don W. Hladiuk, NN, **74**, 31.
- The 1979 February 26 Solar Eclipse on Short Wave*, Ken Tapping & Chip Wiest, NN, **74**, 40.
- Totality at Voi*, Randy Attwood, NN, **74**, 69.
- Astrophotographie: Réseau d'Équidensités Photographiques*, Andre Paul, NN, **74**, 82.
- Astrophotography: Photographic Generation of Equidensity Contours*, Andre Paul, NN, **74**, 85.
- Chasing the Monsoon Eclipse*, Jay Anderson, NN, **75**, 30.
- Why Would David Call Me Late at Night?*, Peter Jedicke, NN, **75**, 39.
- Eclipse Fever Strikes Again*, NN, **75**, 48.
- Lunar Eclipse of July 16-17*, Bruce Barnes, NN, **75**, 71.
- Early Days of Astronomy at Toronto — Part IV The Total Solar Eclipse of August 7, 1869*, Helen Sawyer Hogg, **76**, 235.
- The Saros Period and Halley's Comet*, A. H. Batten, **76**, 258.
- Past and Future Total Solar Eclipses Over Some Canadian Cities*, Andrew Lowe, **76**, 309.
- July Lunar Eclipse*, NN, **76**, 47.
- The Lunar Eclipse From Flagstaff*, James Morton, NN, **76**, 59.
- July's Long Total Lunar Eclipse*, Deane D. McIntyre, NN, **76**, 61.
- Local Circumstances in Java During the Total Solar Eclipse of 1983*, Fred Espenak, **77**, 5.
- El Chichon and the Umbra*, Richard Linkletter, NN, **77**, 24.
- The Lunar Eclipse — A Different View*, Richard Linkletter, NN, **77**, 24.
- Eclipse!*, Walter MacDonald, NN, **77**, 40.
- Gerhana Matahari 1983*, Michael Watson, NN, **77**, 77.
- Predictions for the Annular Solar Eclipse of 1984*, Fred Espenak, **78**, 10.
- The 1984 Toronto Centre Solar Eclipse Expedition*, Michael Watson, NN, **78**, 7.
- Circumstances of the Solar Eclipse of May 30*, Gunther Moller, NN, **78**, 25.
- A Dazzling Diamond Necklace*, Michael Watson, NN, **78**, 50.
- The May Eclipse — A Toronto Perspective*, Ian McGregor, NN, **78**, 52.
- Astronomical Observations in the Anglo-Saxon Chronicle*, Owen Brazell, NN, **78**, 56.
- Some Observations on Observing Eclipses*, Mike Wesolowski, NN, **78**, 68.
- Totality in Hula*, Randy Attwood, NN, **79**, 26.
- November's Marine Eclipse*, Andrew Lowe, NN, **79**, 60.

*Predicting October's Eclipse*, Gunther Moller, NN, **80**, 24.  
*North America's Partial Solar Eclipse October 3, 1986*, NN, **80**, 24.  
*Predictions for the Total Solar Eclipse of 1988*, Fred Espenak, **81**, 44.  
*Predictions for the Total Solar Eclipse of 1988*, Fred Espenak, **81**, 227.  
*Two Eclipses Visible from a Geostationary Weather Satellite*, Jay Anderson, **81**, 83.  
*Eclipse Weather: The March 1988 Total Solar Eclipse*, Jay Anderson, NN, **81**, 18.  
*1988 Solar Eclipse Expedition*, Randy Attwood, NN, **81**, 60.  
*Solar Eclipse '88*, David Hurd, NN, **81**, 72.  
*Finland Prepares for Solar Eclipse 1990*, NN, **82**, 10.  
*The "Eclipse Comets"*, Christopher E. Spratt, NN, **82**, 19.  
*Totality in the Philippines*, Randy Attwood, NN, **82**, 77.  
*Predictions for the Total Solar Eclipse of 1991*, Fred Espenak, **83**, 157.  
*The 1991 RASC Solar Eclipse Expedition*, Michael Watson, NNB, **83**, 22.  
*Observing the March Solar Eclipse*, Daryl Rybotycki, NNB, **83**, 45.  
*Toronto Centre Eclipse Expeditions*, Ralph Chou & Jennifer Owen, NNB, **83**, 93.  
*Chasing the 1991 Solar Eclipse*, Ian G. McGregor, NNB, **84**, 58.  
*Seven Months and Counting: The RASC 1991 Solar Eclipse Expedition*, Michael S. F. Watson, NNB, **84**, 82.  
*The Mazatlan Zenith Curse?*, Alister Ling, B, **1**, 1, 2.  
*The RASC Eclipse Expedition*, Dan Falk, B, **1**, 5, 4.  
*An Encounter With Totality*, Bruce W. Shier, B, **1**, 5, 4.  
*Trip to Totality: One Person's Experience*, Ulrich Haasdyk, B, **1**, 5, 6.  
*Historical and Modern Total Solar Eclipses*, J. E. Kennedy, B, **2**, 2, 4.  
*Eclipse Chasing Without the Chase .. Sort Of*, Steve Edberg, B, **2**, 3, 4.  
*The Great Eclipse: A Video Documentary*, Suzanne Moreau, B, **2**, 5, 6.  
*Lessons from a Partial Solar Eclipse*, Todd Lohvinenko, B, **3**, 4, 4.  
*May 10, 1994 Annular Solar Eclipse*, **88**, 146.  
*Eclipse Hysteria*, **88**, 275.  
*Calgary Eclipse Trip*, Don Hladiuk, B, **4**, 1, 3.  
*Photographing the May 10<sup>th</sup> Solar Eclipse*, Michael S. F. Watson, B, **4**, 2, 3.  
*Solar Eclipse a Ringing Success*, B, **4**, 3, 3.  
*Murphy's Annular Eclipse*, B, **4**, 4, 4.  
*Le Mauvais Oeil de L'Eclipse du 10 Mai*, Marc A. Gélinas, B, **4**, 4, 4.  
*The Ten Most Common Annular Eclipse Misconceptions*, B, **4**, 4, 7.  
*Composite Eclipse Photo*, Ian Grant, B, **4**, 5, 5.  
*The Eclipse of Nicias*, Philip Mozell, **89**, 11.  
*Eclipse Damage: A Burning Issue*, Alister Ling, B, **5**, 1, 8.  
*Conjunctions of a Totally Eclipsed Moon With Bright Stars and Planets*, Joe Rao, **90**, 216.  
*Dolores Claiborne's Eclipse*, David M. F. Chapman, **90**, 235.

*Excerpts From Simon Newcomb's Diary of 1860*, J. E. Kennedy & S. D. Hanson, **90**, 292.  
*Total Lunar Eclipse: April 3<sup>rd</sup> 1996*, B, **6**, 1, 7.

## Editorials

*Editorial*, NN, **64**, 1, 5.  
*Editorial*, NN, **68**, 21.  
*Editorial*, Ian Halliday, **69**, 323.  
*Editorial*, NN, **69**, 58.  
*The Yellow Pages*, NN, **70**, 18.  
*Welcome!*, NN, **70**, 18.  
*RASC Elections, 1976*, NN, **70**, 18.  
*National Library Closes Temporarily*, NN, **70**, 18.  
*Editorial*, NN, **70**, 46.  
*Editorial*, Harlan Creighton, NN, **70**, 75.  
*Editorial*, B. Ralph Chou, NN, **71**, 14.  
*Thanks, Norman*, NN, **71**, 46.  
*Welcome!*, NN, **71**, 46.  
*Editorial*, L. A. Higgs, **72**, 1.  
*Editorial*, B. Franklyn Shinn, NN, **72**, 2.  
*Editorial*, Ian McGregor, NN, **72**, 30.  
*Editorial*, L. A. Higgs, **74**, 31, 369.  
*Content of the Newsletter*, NN, **74**, 18.  
*Royal Greenwich Observatory Forced to Discontinue Lunar Occultation Work*, NN, **74**, 24.  
*Editorial*, Alan H. Batten, **75**, 1.  
*Editorial*, Alan H. Batten, **75**, 277.  
*Editorial*, B. R. Chou, NN, **75**, 62.  
*Editorial*, NN, **76**, 2.  
*Star Attractions: A Great Editorial*, Wayne Crowell, NN, **77**, 2.  
*Editorial*, B. R. Chou, NN, **77**, 18.  
*Our New Look*, A. H. Batten, **78**, 1.  
*Concerns About Costs*, Leo Enwright, NN, **78**, 2.  
*Editorial*, B. Ralph Chou, NN, **79**, 34.  
*Editorial*, Ian G. McGregor, NN, **79**, 50, 66.  
*Halley Has Arrived!*, Ian G. McGregor, NN, **79**, 82.  
*Editorial*, A. H. Batten, **80**, 61.  
*Editorial*, Ian G. McGregor, NN, **80**, 2, 18, 34, 50, 66.  
*Editorial*, A. H. Batten, **81**, 1, 25, 73, 183.  
*Editorial*, Ian G. McGregor, NN, **81**, 2, 29, 34, 82.  
*Editorial*, A. H. Batten, **82**, 307.  
*Editorial*, Ian G. McGregor, NN, **82**, 2.  
*Editorial*, Damien Lemay, NN, **82**, 18.  
*Editorial*, Ian G. McGregor, NN, **82**, 50.  
*Editorial*, Jeremy B. Tatum, **83**, 1, 135, 267.  
*Editorial*, Ian G. McGregor, NNB, **83**, 2.  
*Editorial*, Jeremy B. Tatum, **84**, 57, 241, 293.  
*Editorial*, Ian G. McGregor, NNB, **84**, 34.  
*Editorial*, Jeremy B. Tatum, **85**, 2, 65.  
*My First Editorial*, Patrick Kelly, B, **1**, 1, 1.  
*My Second Editorial*, Patrick Kelly, B, **1**, 2, 1.  
*Editorial*, Jeremy B. Tatum, **86**, 69.  
*My Third Editorial*, Patrick Kelly, B, **2**, 2, 1.  
*Editorial*, Jeremy B. Tatum, **87**, 171.  
*Editorial*, David G. Turner, **88**, 91.  
*Editorial*, David G. Turner, **89**, 1.  
*Commentary*, David G. Turner, **90**, 67, 113.  
*In This Issue*, David G. Turner, **90**, 177.

## Edmonton Centre

*General Assembly at Edmonton May 15-18, 1970*, Marie Fidler, NN, **64**, 9.  
*Activities at the Centre: Edmonton*, F. Loede, NN, **67**, 21.  
*Edmonton Starnight a Success*, NN, **71**, 42.  
*The 1978 General Assembly in Review*, Alan Dyer, NN, **72**, 46.  
*A Question of Balance*, Alan Dyer, NN, **73**, 70.  
*Edmonton Centre Presents Awards in the Name of the RASC*, NN, **74**, 46.  
*Astronomy Day 1981*, NN, **75**, 52.  
*RASC Centres Mark Astronomy Day*, NN, **76**, 39.  
*Centres Arrange Summer Observing Sessions*, Peter Jedicke, NN, **76**, 74.  
*Centre News*, Peter Jedicke, NN, **77**, 10.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Peter Jedicke, NN, **78**, 24.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59.  
*Across the RASC*, Peter Jedicke, NN, **78**, 73.  
*A Successful Astronomy Day*, NN, **79**, 56.  
*1985 General Assembly Hosted by the Edmonton Centre*, Mary Anne Harrington, NN, **79**, 64.  
*Across the RASC*, NN, **80**, 11, 26, 44.  
*Edmonton Centre Telescope Mirror Stolen*, Peter Ceravolo, NN, **80**, 47.  
*Across the RASC*, NN, **80**, 52, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 24, 42, 61, 84.  
*Across the RASC*, NN, **82**, 9, 27, 38, 53, 83.  
*Across the RASC*, NNB, **83**, 15, 25, 37.  
*The Edmonton Centre's New Telescope*, Bob Drew, NNB, **83**, 82.  
*Across the RASC*, NNB, **83**, 90.  
*Across the RASC*, NNB, **84**, 4, 20, 36, 60, 90.  
*Astronomy Workshop 1990*, Dave Clyburn, B, **1**, 1, 6.  
*This is Our REAL Address*, Catharine Breckenridge, B, **1**, 2, 2.  
*Across the RASC*, B, **1**, 2, 8.  
*Alberta Star Party 1991*, Glenn Hawley, B, **1**, 6, 3.  
*Across the RASC*, B, **2**, 2, 7.  
*Across the RASC*, B, **2**, 3, 8.  
*Across the RASC*, B, **3**, 1, 5.  
*Centre Reports*, Bruce McCurdy, B, **3**, 2, 5.  
*National and Centre Councils for 1993*, B, **3**, 2, 25.  
*Centre Finances*, B, **3**, 2, 30.  
*Centre Reports*, Bruce McCurdy, B, **4**, 2, 8.  
*National and Centre Councils for 1994*, B, **4**, 2, 29.  
*Centre Finances*, B, **4**, 2, 34.  
*Centre Reports*, Bob Drew, B, **5**, 2, 5.  
*National and Centre Councils for 1995*, B, **5**, 2, 21.  
*Centre Finances*, B, **5**, 2, 26.  
*Centre Reports*, Bob Drew, B, **6**, 2, 6.  
*National and Centre Councils for 1996*, B, **6**, 2, 25.  
*Centre Finances*, B, **6**, 2, 30.  
*The 1996 Edmonton General Assembly*, Ken Noesgaard, B, **6**, 4, 6.

## Education in Astronomy (see also Education Notes)

*Astronomy and Astrophysics at York University*, K. A. Innanen & R. W. Nicholls, **63**, 87.  
*Conference on Education and History of Astronomy*, **65**, 134.  
*Summer Lecture Series in Saskatoon*, Linton Smith, NN, **65**, 18.  
*Geocentric and Heliocentric Parallax Demonstrations*, Marvin J. Pryor, **66**, 53.  
*Polaroid Film in Undergraduate Astronomical Photography*, K. A. Innanen, C. R. Purton, R. Berry & W. G. Weller, **66**, 157.  
*A Teaching Astronomical Spectrograph*, K. A. Innanen & W. G. Weller, **66**, 189.  
*Astronomy on Television*, NN, **66**, 10.  
*Astronomy Educational Material*, NN, **66**, 11.  
*The Teaching of Astronomy*, John R. Percy, NN, **67**, 5.  
*Have Telescope Will Travel*, Bill Smythe, Eric Clinton & G. Chris Essex, NN, **67**, 27.  
*12th Canada-Wide Science Fair*, J. S. Griffith, NN, **67**, 28.  
*Toronto Centre Holds Teachers' Workshop*, John R. Percy, NN, **68**, 9.  
*Astronomy for Campers*, Andreas Gada & Richard McWatters, NN, **68**, 29.  
*Astronomy for Campers, 1975*, NN, **69**, 27.  
*Education in Astronomy: A Review*, John R. Percy, **70**, 277.  
*Information Packet*, NN, **70**, 39.  
*Astronomical League*, NN, **71**, 27.  
*Undergraduate Astronomy at Canadian Universities*, John R. Percy, **72**, 296.  
*Project Zubenelgenubi — 1978 A Public Awareness of Astronomy Programme*, Gerald Schieven, NN, **73**, 2.  
*Space Odyssey*, Phyllis Belfield, NN, **73**, 5.  
*International Astronomical Youth Camps*, Lori Walton, NN, **73**, 19.  
*Manitoba College Leads Eclipse Expedition*, Harlan Creighton, NN, **73**, 58.  
*The Mall Display in Kingston*, Leo Enwright, NN, **73**, 82.  
*The Teaching of Astronomy in Canadian Schools*, John R. Percy, **74**, 81.  
*April 26 Named as "Astronomy Day 1980" by Associated Societies*, Thomas Colwell, NN, **74**, 14.  
*An Astronomy Program for Young Children*, David Levy, NN, **74**, 39.  
*Community Astronomy in British Columbia*, NN, **74**, 50.  
*The Brydone Jack Lectures on Astronomy and Related Topics*, J. E. Kennedy, **75**, 132.  
*Mars Information Packet Available*, NN, **75**, 11.  
*NASA Publications Available*, NN, **75**, 39.  
*Astronomy Toronto*, Randy Attwood, NN, **75**, 46.  
*Voyages to Giant Worlds*, NN, **75**, 48.  
*Astronomy Day 1981*, NN, **75**, 52.  
*RASC Centres Mark Astronomy Day*, NN, **76**, 39.  
*Astronomy Education in Cuba*, Randall Brooks, NN, **76**, 47.  
*Some New Publications*, NN, **76**, 75.  
*New A. V. Aids*, NN, **77**, 6.  
*Astronomy Toronto: An Update*, Randy Attwood, NN, **77**, 42.  
*International Astronomy Day — May 5, 1984*, Leo Enwright, NN, **78**, 4.  
*Stars and Schools: Ideas for Presenting Astronomy in a*

- Grade School Classroom (Part I)*, David H. Levy, NN, **78**, 18.
- Stars and Schools: Ideas for Presenting Astronomy in a Grade School Classroom (Part II)*, David H. Levy, NN, **78**, 34.
- New Educational Materials from ASP*, NN, **78**, 47.
- RASC Centres Observe Astronomy Day*, B. R. Chou, NN, **78**, 53.
- Un Planétarium à L'Institut de Marine du CÉGEP de Rimouski*, Damien Lemay, **79**, 102.
- NASA Summer Student Programme 1984*, Keith Hitchon, NN, **79**, 9.
- International Astronomy Day April 27, 1985*, Leo Enwright, NN, **79**, 20.
- Astronomy Education Materials*, R. C. Brooks, NN, **79**, 29.
- A Successful Astronomy Day*, NN, **79**, 56.
- International Astronomy Day April 19, 1986*, Leo Enwright, NN, **80**, 5.
- A Comet Halley Educational Experience*, Ron Waldron, NN, **80**, 58.
- International Astronomy Day*, Len Gamache, NN, **80**, 60.
- International Astronomy Day*, Leo Enwright, NN, **80**, 60.
- A High School Planetarium*, John Mrmak & Angelo Zeffiro, NN, **80**, 85.
- Slides, Books and Astronomy Aids*, NN, **80**, 88.
- My Experiences in Teaching Astronomy*, Dennis Ryan, NN, **80**, 91.
- McLaughlin Planetarium's New Astrocentre*, Ian G. MacGregor, NN, **81**, 12.
- International Astronomy Day May 9, 1987*, Leo Enwright, NN, **81**, 14.
- Astronomy Day Calgary 1988*, Glenn Hawley, NN, **82**, 44.
- Space University*, NN, **82**, 62.
- First Space Graduates*, NN, **82**, 85.
- International Astronomy Day 1989*, Steve Dodson, NNB, **83**, 8.
- The Heavens on Tape*, NNB, **83**, 21.
- Astronomy Day Expands in Centennial Year*, Steve Dodson, NNB, **83**, 42.
- Astronomy Day Report (1): March 13, 1989*, Mario Caluori, NNB, **83**, 52.
- Astronomy Day Report (2): March 13, 1989*, Paul Fjeld, NNB, **83**, 53.
- Astronomy Day 1989: A Cross Country Roundup*, Steve Dodson, NNB, **83**, 76.
- Following the Stars — For a Hundred Years*, Steve Dodson, NNB, **83**, 79.
- "Canada's Stargazers"*, NNB, **84**, 25.
- ISU Hosted by York University*, NNB, **84**, 39.
- Spreading the Word*, Doug Pitcairn, NNB, **84**, 46.
- Centennial Astronomy Week — A National Wrap-Up*, Steve Dodson, NNB, **84**, 51.
- Astronomy Week 1990*, Mary Anne Harrington, NNB, **84**, 59.
- The Accessible Universe*, Steve Dodson, NNB, **84**, 73.
- Recruiting Disabled People Into Astronomy*, Denise Sabatini, NNB, **84**, 79.
- Astronomy Day in Montréal*, Mario Caluori, B, **1**, 1, 2.
- Astronomy Day 1990 at the Montréal Centre*, Mario Caluori, B, **1**, 1, 3.
- Ways to Increase Disabled Participation*, Wayne Davie & Kathie Davie, B, **1**, 1, 4.
- Introducing Children to Astronomy*, Sylvia Smith, B, **1**, 2, 6.
- Astronomy Day in Six Cities*, Steve Dodson, B, **1**, 4, 3.
- Astronomy Day in Montreal*, Mario Caluori, B, **1**, 4, 7.
- Astronomy Day Reports*, B, **2**, 4, 3.
- Outreach Programs for Centres*, Bill Broderick, B, **2**, 6, 4.
- The Noblest Cause*, Doug Pitcairn, B, **2**, 6, 5.
- A Survey of the Attitudes of University Students to Astrology and Astronomy*, M. M. De Robertis & P. A. Delaney, **87**, 34.
- What Makes Science "Hard"?*, Sheila Tobias, **87**, 327.
- Why is it Hotter in the Summer Than in the Winter?*, Roy L. Bishop, **87**, 346.
- Bicycles, Bubble Gum and Astronomy*, Alister Ling, B, **3**, 3, 5.
- Classroom Astronomer's Wanted*, Andrew Fraknoi, B, **3**, 4, 2.
- New Hubble Slides*, B, **3**, 4, 4.
- Astronomy Week in Kingston*, Bill Broderick, B, **3**, 4, 5.
- Helen Sawyer Hogg Distinguished Visitorship*, Peter Broughton, B, **3**, 4, 9.
- About Sky News*, B, **3**, 4, 10.
- Un Mot Sur Ciel Info*, B, **3**, 4, 10.
- Astronomy Week 1994*, Sandy Ferguson, B, **4**, 1, 3.
- Solar Eclipse a Ringing Success*, B, **4**, 3, 3.
- A Stellar Wind Breezes Into Nova Scotia Schools*, Mary Lou Whitehorne, B, **4**, 6, 5.
- Astronomy Week 1995*, Sandra Ferguson, B, **5**, 1, 3.
- Spaced Out in Nova Scotia!*, Mary Lou Whitehorne, B, **5**, 1, 4.
- Eclipse Damage: A Burning Issue*, Alister Ling, B, **5**, 1, 8.
- National Astronomy Day 1995*, Sandy Ferguson, B, **5**, 3, 7.
- New Space Science Resource for Canada*, Mary Lou Whitehorne, B, **5**, 4, 4.
- Sunrises and Sunsets*, David G. Turner, **90**, 1.
- GNAT: A Global Network of Small Telescopes as a Resource for Astronomical Research and Education*, David L. Crawford & Eric Craine, **90**, 224.

## Education Notes (see also Education in Astronomy)

- Astronomy Activities Package*, John R. Percy, **71**, 55.
- A Classroom Photometer and Artificial Star*, David L. DuPuy, **71**, 199.
- Graduate Programs in Astronomy at Canadian Universities*, John R. Percy, **71**, 264.
- Education Notes*, John R. Percy, **71**, 325.
- Education at the Atlanta AAS Meeting*, John R. Percy, **71**, 412.
- The Astronomy Display at the Burke-Gaffney Observatory*, David L. DuPuy, **71**, 470.
- A Laboratory Experiment on Resolving Power*, John R. Percy, **72**, 54.
- Astronomical Slides*, John R. Percy, **72**, 55.
- Educational Material in Astronomy Produced and Distributed by Canadian Observatories, Museums, and Planetariums*, John R. Percy, **72**, 168.
- A Bibliography of Recent Astronomical Education Articles*, David L. DuPuy, **72**, 221.
- Undergraduate Astronomy at Canadian Universities*, John



- R. Percy, **72**, 296.
- Une Experience de Video-Astronomie au CEGEP de la Pocatiere*, Alphée Nadeau, **72**, 346.
- Two "New" Films on Astronomy*, John R. Percy, **73**, 38.
- Astronomy Teaching Ideas for Secondary-School Teachers*, D. L. DuPuy, **73**, 104.
- Cyclopean Astronomy and an Unusual Atlas*, Roy L. Bishop, **73**, 147.
- Some Unusual Educational Activities of the Kingston Centre*, David H. Levy, **73**, 308.
- Orbital Motion on an Interactive-Graphics Terminal*, Dorothy M. K. Welch & Gary A. Welch, **74**, 23.
- Experience D'Astronomie Avancee: Spectroscopie Moleculaire a Moyenne Dispersion de Jupiter et Saturn*, R. Boudreault, S. Fleurant & A. F. J. Moffat, **74**, 93.
- Une Nouvelle Publication Destinee a L'Enseignement de L'Astronomie*, Serge Demers, **74**, 180.
- A Solar Calendar*, Gilles Ménard, **74**, 242, 370.
- On Measuring the Earth With a Hose*, Dennis Rawlins, **74**, 299.
- An Optical Analogue of the Gravitational Lens: A Classroom Demonstration of the Twin-Quasar Phenomenon*, T. A. Clark, **75**, 109.
- Women in Astronomy*, John R. Percy, **75**, 210.
- Teaching "Life on Other Worlds"*, Robert F. Garrison, **75**, 255.
- Teaching Constellations in an Introductory Astronomy Course*, J. N. Scrimger, **75**, 330.
- Education Notes*, R. L. Bishop, **77**, 93.
- Astronomy at the University of Prince Edward Island*, Earl Wonnacott, **77**, 148.
- On the Computation of Dynamical Parallaxes*, B. Cameron Reed, **78**, 83.
- "Astronomy Compels the Soul"*, Doug Cunningham & John Hlynialuk, **78**, 128.
- N. F. B. Astronomy Films*, Roy L. Bishop, **79**, 23.
- Un Planétarium à L'Institut de Marine du CÉGEP de Rimouski*, Damien Lemay, **79**, 102.
- A Senior High School Course in Astronomy*, Peter R. Ryback, **79**, 144.
- Simulating an Eclipsing Binary Light Curve*, David L. DuPuy & Robert D. Ellis, **79**, 183.
- Astronomy in Canadian Schools: A National Perspective*, Menahem Finegold & Heidi Kass, **79**, 257.
- A New NFB Astronomy Film*, Roy L. Bishop, **79**, 264.
- How to Make the Best of a Poster Presentation*, Robert F. Garrison, Judith A. Irwin & John R. Percy, **79**, 317.
- Astronomy Education in Saskatoon Schools*, Ronald M. Waldron, **80**, 110.
- Telescopes for Students*, Roy L. Bishop, **80**, 211.
- Radio Astronomy Rediscovered*, Sherri Aker & William P. Lonc, **81**, 65.
- Astronomy Toronto — Astronomy on Cable Television*, J. Randy Attwood, **82**, 85.
- An Astronomical Experience for Gifted Children*, Robin Kingsburgh, Petrusia Kowalsky & John R. Percy, **82**, 154.
- Undergraduate Experiments in Radio Astronomy*, William P. Lonc, **83**, 45.
- Public Education Programmes in Astronomy*, Don Hladiuk, **83**, 253.
- Voyager: An Electronic Universe*, Roy L. Bishop, **83**, 331.
- An Astronomical Research Experience for Gifted High School Students*, John R. Percy, **84**, 49.
- Distance Education in Teaching Introductory Astronomy*, Martin Connors, **86**, 59.
- Computers and the Seattle Astronomical Society*, James R. Naiden, **86**, 114.
- The Educational Services of the Astronomical Society of the Pacific*, John R. Percy, **86**, 156.
- A Simple Method for Viewing Meteorite Thin Sections*, Christopher E. Spratt, **86**, 215.
- Crossword Puzzles in Introductory Astronomy Courses*, David L. DuPuy, **86**, 334.
- Stellar Magnitudes and Photon Fluxes*, B. Cameron Reed, **87**, 123.
- CD-ROM Electronic Encyclopedias as an Astronomical Education Resource*, Martin Connors, **87**, 253.
- Why is it Hotter in the Summer Than in the Winter?*, Roy L. Bishop, **87**, 346.
- Rising and Setting Phenomena*, Terence Hicks, **88**, 86.
- An Experimental Course in Astronomy for Non-Science Students*, Richard A. Jarrell, **88**, 148.
- Demonstrating Cluster Main-Sequence Fitting to Best Advantage*, David G. Turner, **88**, 176.
- Geography with an Astronomical Slant in Nova Scotia High Schools*, Mary Lou Whitehorne, **88**, 277.
- Education Notes 1977-94*, Roy L. Bishop, **89**, 33.
- The Sun's Temperature at  $\lambda = 5$  Centimetres*, William Lonc & Na Han Chan, **89**, 118.
- Detecting the Galactic Centre at 70 cm*, William Lonc & Jennifer Hatt, **90**, 61.
- A Simple Formula for Calculating Stellar Rise Times and Azimuth Angles*, B. Cameron Reed, **90**, 354.

## Elementary Particles

- The Solar-Neutrino Puzzle*, D. Y. Kim & S. I. H. Naqvi, **73**, 203.
- Of Pleides and Particles*, Frank Shinn, NN, **74**, 74.
- Neutrons, the Sun and Canada*, Peter Jedicke, **81**, 221.
- Neutrino Detectors as Early Warning Devices for Supernovae*, Robert Jedicke, **83**, 116.
- Sanduleak -69° 202, Supernova 1987A and the Beginning of Neutrino Astronomy*, H. R. A. Jones, **85**, 235.
- Towards a Solution to the Solar Neutrino Problem*, **89**, 31.

## Ephemerides

- Stationary Conjunction and Near-Conjunctions of Jupiter and Saturn*, Charles H. Smiley, **62**, 181.
- The Position of the Moon*, J. S. Griffith, **64**, 5.
- Occultation of Star by Jupiter Predicted*, NN, **64**, 1.
- July 1972 Total Solar Eclipse*, Si Brown, NN, **64**, 29.
- Predictions of Local Circumstances Across Canada of the Total Solar Eclipse of July 10, 1972*, V. Gaizauskas, L. W. Avery & F. D. Manning, **65**, 107.
- Historical Significance of Five Conjunctions 1226-27*, A. Vibert Douglas, **65**, 129.
- Occultation Highlights, October-December 1971*, David W. Dunham, NN, **65**, 21.
- Grazing Occultations Over Canada During 1972*, L. V.

Morrison, **66**, 56.  
*Giacobinid Meteor Shower: Prospect for 1972*, B. A. McIntosh, **66**, 149, 236.  
*Total Solar Eclipses of Great Duration*, Edward S. Light, **66**, 295.  
*Orbital Data for Comet Kohoutek (1973f)*, Lorne Avery, NN, **67**, 25.  
*The Observability of Comets*, J. B. Tatum, **69**, 212.  
*Carl Friedrich Gauss, Astronomer*, Brian G. Marsden, **71**, 309.  
*An Eclipse of Iapetus by Saturn Predicted for October 19, 1977*, C. E. Spratt, NN, **71**, 39.  
*Revised Predictions for Eclipses of Saturn VIII (Iapetus)*, NN, **71**, 56.  
*Predictions for the 1979 Solar Eclipse*, Fred Espenak, **72**, 149.  
*Occultation of SAO 85009 by Pallas on May 29, 1978*, John R. Percy, NN, **72**, 10.  
*The Visibility of Halley's Comet*, R. P. Broughton, **73**, 24.  
*The Calculation of Some Planetary Phenomena*, Jean Meeus, **75**, 94.  
*Navigation vs. Astronomie*, Raymond Auclair, NN, **75**, 23.  
*Chasing the Monsoon Eclipse*, Jay Anderson, NN, **75**, 30.  
*The Calculation of Comet Ephemerides*, Jeremy Tatum, **76**, 157.  
*Past and Future Total Solar Eclipses Over Some Canadian Cities*, Andrew Lowe, **76**, 309.  
*Local Circumstances in Java During the Total Solar Eclipse of 1983*, Fred Espenak, **77**, 5.  
*Predictions for the Annular Solar Eclipse of 1984*, Fred Espenak, **78**, 10.  
*Periodic Comet Biela 1852 III — An Update*, Christopher E. Spratt, **78**, 251.  
*Circumstances of the Solar Eclipse of May 30*, Gunther Moller, NN, **78**, 25.  
*Observing Comet Halley from the South*, Michael S. F. Watson, **79**, 215.  
*Comet Halley for Canadians*, Michael S. F. Watson, NN, **79**, 67.  
*The History of Comet Halley*, Donald K. Yeomans, Jürgen Rahe & Ruth S. Freitag, **80**, 62.  
*Predictions for the Total Solar Eclipse of 1988*, Fred Espenak, **81**, 44.  
*The 1989 Return of the Periodic Comet Brorsen-Metcalf*, Christopher E. Spratt, **81**, 95.  
*Finland Prepares for Solar Eclipse 1990*, NN, **82**, 10.  
*Minor Planet Toro Approaching Earth*, Chris Spratt, NN, **82**, 48.  
*Predictions for the Total Solar Eclipse of 1991*, Fred Espenak, **83**, 157.

## Errata, Addenda, and Corrigenda

*Oops Again (and Again)*, NN, **73**, 9.  
*Index to Volume 74*, **75**, 116.  
*Corrigenda: Observer's Handbook 1982*, Roy L. Bishop, NN, **76**, 2.  
*Erratum in the Errata*, Lucian J. Kemble, NN, **82**, 84.  
*The Second-Largest Telescope*, Jeremy B. Tatum, **84**, 231.  
*Stargazing — A Correction*, **86**, 56.  
*To Centre or Not To Centre*, Andreas Gada, B, **2**, 4, 2.  
*Annual Report Glitches*, B. Ralph Chou, B, **2**, 4, 2.

*Annual or Annular?*, Rick Kelsch, B, **4**, 4, 2.  
*Letter to the Editor*, Ralph B. Baldwin, **90**, 341.  
*Missing Abstract*, **90**, 345.

## Extraterrestrial Life

*Seven Maxims of UFO's — A Scientific Approach*, Peter M. Millman, **69**, 175.  
*A Close Encounter of the First Kind ... To a Non-Observer*, Doug Welch, NN, **72**, 35.  
*Transient Optical Phenomena of the Atmosphere — A Case Study*, Philip A. Stahl, **74**, 168.  
*Teaching "Life on Other Worlds"*, Robert F. Garrison, **75**, 255.  
*The Gert Herb Report*, Chris Rutkowski, NN, **75**, 12.  
*Revenge of the Space Pet*, Chris Rutkowski, NN, **76**, 58.  
*Sommaire de 25 Anées D'Observations Visant a Detecter des Etres Intelligents Extraterrestres*, J. P. Vallée, **79**, 9.  
*The Search for Knowledge: Science vs. Religion?*, J. P. Vallée, **83**, 8.  
*The Planetary Society in Toronto*, Jennifer Owen, NNB, **83**, 11.  
*Recherches Canadiennes sur la Vie Intelligente Extraterrestre*, Jacques P. Vallée, NNB, **83**, 18.  
*Astrophysical and Biological Constraints on Radiopanspermia*, Jeff Secker, Paul S. Wesson & James R. Lepock, **90**, 184.

## From the Library

*From the Library*, R. Peter Broughton, NN, **64**, 7, 12, 23, 28.  
*From the Library*, R. Peter Broughton, NN, **65**, 15, 26.

## From the Past

*Seventy-Five Years Ago*, **76**, 61, 141, 210, 259, 328, 397.  
*Seventy-Five Years Ago*, **77**, 56, 99, 154, 223, 266, 337.  
*Seventy-Five Years Ago*, **78**, 50, 88, 135, 164, 223, 256.  
*Seventy-Five Years Ago*, **79**, 28, 101, 146, 188, 256, 315.  
*Seventy-Five Years Ago*, **80**, 58, 115, 154, 216, 297, 352.  
*Seventy-Five Years Ago*, **81**, 20, 64, 107, 143, 175, 227.  
*Seventy-Five Years Ago*, **82**, 34, 84, 152, 214, 304, 364.  
*Seventy-Five Years Ago*, **83**, 44, 134, 221, 259, 330, 429.  
*Seventy-Five Years Ago*, **84**, 134, 234, 283.  
*One Hundred Years Ago*, **84**, 355.  
*Seventy-Five Years Ago*, **84**, 356, 438.  
*Seventy-Five Years Ago*, **85**, 54, 111, 140, 225, 284, 388.  
*Seventy-Five Years Ago*, **86**, 58, 113, 155, 214, 270, 333.  
*Seventy-Five Years Ago*, **87**, 68, 122, 164, 252, 345, 393.  
*Seventy-Five Years Ago*, **88**, 85, 147, 175, 276, 354, 409.  
*Seventy-Five Years Ago*, **89**, 32, 71, 116, 190, 231, 268.  
*Seventy-Five Years Ago*, **90**, 60, 102, 171, 238, 352.

## Galaxies: Abundances

*Planetary Nebulae: Their Use as a Tool to Probe the Evolution of Galaxies*, Michael G. Richer, **90**, 246.

## Galaxies: Active

*The Classification of Active Galaxies*, Sidney van den Bergh, **69**, 105.  
*A Model for Collimation of Supersonic Beams in*

*Extragalactic Radio Sources*, A. H. Bridle, K. L. Chan & R. N. Henriksen, **75**, 69.

*A Five-Level Program for Ions of Astrophysical Research*, M. M. De Robertis, R. J. Dufour & R. W. Hunt, **81**, 195.

*Optical Polarization Properties of Compact Radio Sources*, Raymond Rusk, **84**, 199.

### **Galaxies: BL Lacertae Objects: General**

*Optical Polarization Properties of Compact Radio Sources*, Raymond Rusk, **84**, 199.

### **Galaxies: BL Lacertae Objects: Individual**

#### BY NAME:

##### BL Lac

*Twinkling Galaxy?*, **64**, 65.

### **Galaxies: Clusters: General**

*Revue des Galaxies Exhibant une Trainee Luminuese*, Jacques P. Vallée, **71**, 443.

*A Comment on the Formation of Spiral Galaxies*, M. de Robertis & R. N. Henriksen, **74**, 189.

*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.

*On the Influence of Supernova Remnant Thermal Energy in Powering Galactic Winds*, Brad K. Gibson, **88**, 383.

### **Galaxies: Clusters: Individual**

#### BY NAME:

##### Virgo

*On Globular Clusters and Extragalactic Distances*, René Racine, **64**, 257.

*Novae and the Extragalactic Distance Scale*, Sidney van den Bergh, **75**, 169.

#### BY OTHER DESIGNATION:

##### Abell 2390

*Evolution of a Cluster of Galaxies*, John Hutchings, **88**, 409.

### **Galaxies: Distances and Redshifts**

*Large Redshifts*, Ian Halliday, **61**, 146.

*On Globular Clusters and Extragalactic Distances*, René Racine, **64**, 257.

*An Analysis of the Distribution of Redshifts of Quasars and Emission-Line Objects*, R. G. Lake & R. C. Roeder, **66**, 111.

*Cosmogony and the Very Nearby Galaxies*, P. J. E. Peebles, **83**, 363.

*From Galactic Structure to Quasars*, Maarten Schmidt, **87**, 318.

*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.

*Cosmic Velocity Flows*, S. M. Faber, S. Courteau, A. Dekel, A. Dressler, T. Kollatt, J. A. Willick & A. Yahil, **88**, 92.

### **Galaxies: Elliptical and Lenticular, cD**

*The Stars in Elliptical Galaxies*, Sidney van den Bergh, **65**, 13.

*New Neighbours in Space*, NN, **65**, 5.

*The Evolution of Galaxies — A Heretical View*, Sidney van den Bergh, **66**, 237.

*The Origin of Lenticular Galaxies*, Sidney van den Bergh, **73**, 198.

*A Comment on the Formation of Spiral Galaxies*, M. de Robertis & R. N. Henriksen, **74**, 189.

*The Extended Spectrum of NGC 5846*, T. J. Davidge, **85**, 131.

*On the Influence of Supernova Remnant Thermal Energy in Powering Galactic Winds*, Brad K. Gibson, **88**, 383.

*Planetary Nebulae: Their Use as a Tool to Probe the Evolution of Galaxies*, Michael G. Richer, **90**, 246.

### **Galaxies: Evolution**

*The Evolution of Galaxies — A Heretical View*, Sidney van den Bergh, **66**, 237.

*The Classification of Normal Galaxies*, Sidney van den Bergh, **69**, 57.

*The Origin of Lenticular Galaxies*, Sidney van den Bergh, **73**, 198.

*Planetary Nebulae: Their Use as a Tool to Probe the Evolution of Galaxies*, Michael G. Richer, **90**, 246.

### **Galaxies: Formation**

*A Comment on the Formation of Spiral Galaxies*, M. de Robertis & R. N. Henriksen, **74**, 189.

*Cosmogony and the Very Nearby Galaxies*, P. J. E. Peebles, **83**, 363.

### **Galaxies: Fundamental Parameters**

*Morphological Properties of Some Bright Southern Galaxies*, R. F. Garrison & N. R. Walborn, **68**, 117.

*The Classification of Normal Galaxies*, Sidney van den Bergh, **69**, 57.

*The Classification of Active Galaxies*, Sidney van den Bergh, **69**, 105.

*The Origin of Lenticular Galaxies*, Sidney van den Bergh, **73**, 198.

*Miscellaneous Photoelectric UBV Observations*, Sidney van den Bergh, **82**, 13.

*A Research Proposal*, Richard Wagner, B, **2**, 3, 1.  
*Classification of Medium Redshift Galaxies*, John

Hutchings, **89**, 266.

## **Galaxies: General**

*Amateur Radio Astronomy Part IV*, Ken Tapping, NN, **72**, 60.

*Quasars and Galaxies Observable With the Space Telescope*, Charles J. Krieger, **80**, 56.

*Miscellaneous Photoelectric UBV Observations*, Sidney van den Bergh, **82**, 13.

*Saguaro Astronomy Club Database*, Alister Ling, NNB, **84**, 25.

*Progress in CCD Photometry*, Peter B. Stetson, **86**, 71.

*Du RLR à la MSF: 75 Ans D'Horizons Mouvants*, René Racine, **87**, 357.

*Galaxies Then and Now*, John Hutchings, **89**, 68.

## **Galaxies: Globular Clusters**

*2000 Globular Clusters in M87*, René Racine, **62**, 367.

*On Globular Clusters and Extragalactic Distances*, René Racine, **64**, 257.

*CO and CN Absorption in the Near-Infrared Spectra of Luminous M31 Globular Clusters*, T. J. Davidge, **84**, 166.

## **Galaxies: Individual**

### BY MESSIER NUMBER:

#### M31

*The Galaxies of the Local Group*, Sidney van den Bergh, **62**, 219.

*CO and CN Absorption in the Near-Infrared Spectra of Luminous M31 Globular Clusters*, T. J. Davidge, **84**, 166.

*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, Jacques P. Vallée, **88**, 201, 405.

#### M33

*The Galaxies of the Local Group*, Sidney van den Bergh, **62**, 219.

*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, Jacques P. Vallée, **88**, 201, 405.

#### M81

*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, Jacques P. Vallée, **88**, 201, 405.

#### M83

*Messier 83*, Christopher J. Pritchett, **85**, 4.

#### M87

*2000 Globular Clusters in M87*, René Racine, **62**, 367.

#### M100

*Two Photos and Comparison Chart of Supernova in M100*, NN, **73**, 49, 80.

*Supernova in M100 (NGC 4321) in Coma Visually Discovered by Gus Johnson, Maryland*, NN, **73**, 50.

*Two Photos and Comparison Chart of Supernova in M100*, NN, **73**, 80.

#### M101

*UBV Observations of Supernova 1970g in NGC 5457*, John E. Winzer, **68**, 36.

### BY NGC NUMBER:

#### NGC 315

*A Model for Collimation of Supersonic Beams in Extragalactic Radio Sources*, A. H. Bridle, K. L. Chan & R. N. Henriksen, **75**, 69.

#### NGC 598

*The Galaxies of the Local Group*, Sidney van den Bergh, **62**, 219.

*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, Jacques P. Vallée, **88**, 201.

#### NGC 1275

*The Evolution of Galaxies — A Heretical View*, Sidney van den Bergh, **66**, 237.

#### NGC 1614

*Supernova in NGC 1614*, **90**, 167.

#### NGC 4151

*Observations of a Variable Galaxy*, Dave Holmgren, NN, **74**, 60.

#### NGC 4321

*Two Photos and Comparison Chart of Supernova in M100*, NN, **73**, 49, 80.

*Supernova in M100 (NGC 4321) in Coma Visually Discovered by Gus Johnson, Maryland*, NN, **73**, 50.

*Two Photos and Comparison Chart of Supernova in M100*, NN, **73**, 80.

#### NGC 4490

*That's Wild!*, Jack Newton, NN, **76**, 38.

#### NGC 5128

*The Evolution of Galaxies — A Heretical View*, Sidney van den Bergh, **66**, 237.

#### NGC 5457

*UBV Observations of Supernova 1970g in NGC 5457*, John E. Winzer, **68**, 36.

#### NGC 5846

*The Extended Spectrum of NGC 5846*, T. J. Davidge, **85**, 131.

#### NGC 6946

*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, Jacques P. Vallée, **88**, 201, 405.

### BY NAME:

#### Maffei 1

*New Neighbours in Space*, NN, **65**, 5.

#### Maffei 2

*New Neighbours in Space*, NN, **65**, 5.

### BY OTHER DESIGNATION:

#### 3C 428

*Radio Observations of a Neglected 3C Source: 3C 428*, L. A. Higgs & J. P. Vallée, **80**, 180.

#### IC 342

*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, Jacques P. Vallée, **88**, 201, 405.

#### IC 5270

*The Visual Discovery of Supernova 1993I*, Robert Evans, B, 3, 4, 3.

### **Galaxies: Interactions**

*Magnetism des Galaxies Spirales*, J. P. Vallée, 78, 57.

### **Galaxies: Intergalactic Medium**

*On the Influence of Supernova Remnant Thermal Energy in Powering Galactic Winds*, Brad K. Gibson, 88, 383.

### **Galaxies: Interstellar Medium**

*Selected HI Observations of Double Galaxies*, Steven D. Peterson & Yervant Terzian, 73, 215.

*Magnetism des Galaxies Spirales*, J. P. Vallée, 78, 57.

*Les Gaz Ionisés Hors du Noyau d'une Galaxie Spirale ou Irrégulière*, J. P. Vallée, 81, 128.

*A Five-Level Program for Ions of Astrophysical Research*, M. M. De Robertis, R. J. Dufour & R. W. Hunt, 81, 195.

*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, Jacques P. Vallée, 88, 201, 405.

*On the Influence of Supernova Remnant Thermal Energy in Powering Galactic Winds*, Brad K. Gibson, 88, 383.

*Planetary Nebulae: Their Use as a Tool to Probe the Evolution of Galaxies*, Michael G. Richer, 90, 246.

### **Galaxies: Irregular**

*The Galaxies of the Local Group*, Sidney van den Bergh, 62, 219.

*Les Gaz Ionisés Hors du Noyau d'une Galaxie Spirale ou Irrégulière*, J. P. Vallée, 81, 128.

*Planetary Nebulae: Their Use as a Tool to Probe the Evolution of Galaxies*, Michael G. Richer, 90, 246.

### **Galaxies: Jets**

*A Review of Extragalactic Non-Thermal Sources*, D. E. Harris, 74, 109.

*A Model for Collimation of Supersonic Beams in Extragalactic Radio Sources*, A. H. Bridle, K. L. Chan & R. N. Henriksen, 75, 69.

*Optical Polarization Properties of Compact Radio Sources*, Raymond Rusk, 84, 199.

### **Galaxies: Kinematics and Dynamics**

*Cosmogony and the Very Nearby Galaxies*, P. J. E. Peebles, 83, 363.

### **Galaxies: Local Group**

*The Galaxies of the Local Group*, Sidney van den Bergh, 62, 145, 219.

*New Neighbours in Space*, NN, 65, 5.

*Novae and the Extragalactic Distance Scale*, Sidney van den Bergh, 75, 169.

### **Galaxies: Luminosity Function, Mass Function**

*From Galactic Structure to Quasars*, Maarten Schmidt, 87, 318.

### **Galaxies: Magellanic Clouds**

*The Galaxies of the Local Group*, Sidney van den Bergh, 62, 145.

*The Magellanic Clouds*, Bart J. Bok, 63, 105.

*Searching for Black Holes*, David Crampton, J. B. Hutchings & A. P. Cowley, 77, 103.

*New Black Hole Candidate in the Large Magellanic Cloud*, John Hutchings, 89, 69.

*Planetary Nebulae: Their Use as a Tool to Probe the Evolution of Galaxies*, Michael G. Richer, 90, 246.

### **Galaxies: Magnetic Fields**

*A Review of Extragalactic Non-Thermal Sources*, D. E. Harris, 74, 109.

*Magnetism des Galaxies Spirales*, J. P. Vallée, 78, 57.

*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, Jacques P. Vallée, 88, 201, 405.

### **Galaxies: Nuclei**

*The Stars in Elliptical Galaxies*, Sidney van den Bergh, 65, 13.

*A Review of Extragalactic Non-Thermal Sources*, D. E. Harris, 74, 109.

*Les Gaz Ionisés Hors du Noyau d'une Galaxie Spirale ou Irrégulière*, J. P. Vallée, 81, 128.

### **Galaxies: Photometry**

*Miscellaneous Photoelectric UBV Observations*, Sidney van den Bergh, 82, 13.

*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, 88, 39.

### **Galaxies: Quasars: Absorption Lines**

*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, 88, 39.

### **Galaxies: Quasars: General**

*Seyfert Galaxies and Quasars*, Ian Halliday, 63, 91.

*An Analysis of the Distribution of Redshifts of Quasars and Emission-Line Objects*, R. G. Lake & R. C. Roeder, 66, 111.

*The Classification of Active Galaxies*, Sidney van den Bergh, 69, 105.

*Quasars: The Continuing Enigma*, J. D. Fernie, 71, 40.

*Seyfert Galaxies and Quasars*, J. B. Oke, 72, 121.

*A Model for Collimation of Supersonic Beams in Extragalactic Radio Sources*, A. H. Bridle, K. L. Chan & R. N. Henriksen, **75**, 69.

*An Optical Analogue of the Gravitational Lens: A Classroom Demonstration of the Twin-Quasar Phenomenon*, T. A. Clark, **75**, 109.

*Simulating the Transparent Gravitational Lens*, Charles C. Dyer & Robert C. Roeder, **75**, 227.

*Quasars and Galaxies Observable With the Space Telescope*, Charles J. Krieger, **80**, 56.

*First Radio Quasar Observed by Amateur*, Frank Roy, NN, **80**, 51.

*Optical Polarization Properties of Compact Radio Sources*, Raymond Rusk, **84**, 199.

*From Galactic Structure to Quasars*, Maarten Schmidt, **87**, 318.

## Galaxies: Quasars: Individual

### BY DESIGNATION:

#### 3C 273

*A Complete Spectral Analysis of the Flare of the Quasar 3C 273*, Alberto C. Sadun, **86**, 15.

#### PKS 0438-43

*Sol III*, NN, **73**, 65.

## Galaxies: Seyfert

*Seyfert Galaxies and Quasars*, Ian Halliday, **63**, 91.

*The Classification of Active Galaxies*, Sidney van den Bergh, **69**, 105.

*Seyfert Galaxies and Quasars*, J. B. Oke, **72**, 121.

*Observations of a Variable Galaxy*, Dave Holmgren, NN, **74**, 60.

## Galaxies: Spiral

*Spiral Structure in Galaxies*, Ian Halliday, **65**, 135.

*New Neighbours in Space*, NN, **65**, 5.

*UBV Observations of Supernova 1970g in NGC 5457*, John E. Winzer, **68**, 36.

*Two Photos and Comparison Chart of Supernova in M100*, NN, **73**, 49, 80.

*Supernova in M100 (NGC 4321) in Coma Visually Discovered by Gus Johnson, Maryland*, NN, **73**, 50.

*A Comment on the Formation of Spiral Galaxies*, M. de Robertis & R. N. Henriksen, **74**, 189.

*Magnetism des Galaxies Spirales*, J. P. Vallée, **78**, 57.

*The Mysterious Nebulae, 1610-1924*, Owen Gingerich, **81**, 113.

*Les Gaz Ionisés Hors du Noyau d'une Galaxie Spirale ou Irrégulière*, J. P. Vallée, **81**, 128.

*Messier 83*, Christopher J. Pritchett, **85**, 4.

*The Visual Discovery of Supernova 1993I*, Robert Evans, B, **3**, 4, 3.

*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, Jacques P. Vallée, **88**, 201, 405.

*Observing Spiral Structure in Galaxies*, Mark Bratton, B, **6**, 5/6, 7.

## Galaxies: Stellar Content

*The Stars in Elliptical Galaxies*, Sidney van den Bergh, **65**, 13.

*The Classification of Normal Galaxies*, Sidney van den Bergh, **69**, 57.

## Galaxies: Structure

*Spiral Structure in Galaxies*, Ian Halliday, **65**, 135.

## Galaxy: Abundances

*The Chemical Evolution of the Galaxy*, A. G. W. Cameron & J. W. Truran, **65**, 1.

## Galaxy: Centre

*A Note on the Radial Motion of Neutral Hydrogen in the Galactic Interior*, K. A. Innanen, **61**, 141.

*Illumination of High-Latitude Nebulae by the Central Region of the Galactic System*, K. A. Innanen, **63**, 193.

*Radio Confusion in the Galactic Plane*, L. A. Higgs, **65**, 263.

*Radio Astronomy Rediscovered*, Sherri Aker & William P. Lonc, **81**, 65.

*Les Gaz Ionisés dans le Noyau de Notre Galaxie*, J. P. Vallée, **81**, 75.

*Detecting the Galactic Centre at 70 cm*, William Lonc & Jennifer Hatt, **90**, 61.

## Galaxy: Evolution

*The Chemical Evolution of the Galaxy*, A. G. W. Cameron & J. W. Truran, **65**, 1.

*Age and Evolution of the Galactic Disk and Halo*, Sidney van den Bergh, **84**, 60.

*The Globular Clusters of the Disk and Halo*, Robert Zinn, **84**, 89.

## Galaxy: Formation

*A Theory for the Formation of the Galactic Stellar Halo*, K. A. Innanen & D. Keenan, **67**, 248.

*On the Formation and Age of the Galaxy*, Allan Sandage, **84**, 70.

*White Dwarf Stars and the Age of the Galactic Disk*, M. A. Wood, **84**, 150.

## Galaxy: Fundamental Parameters

*White Dwarf Stars and the Age of the Galactic Disk*, M. A. Wood, **84**, 150.

## Galaxy: General

*Of Stars and the Galaxy*, Alan H. Batten, **61**, 241.

*The Galaxies of the Local Group*, Sidney van den Bergh, **62**, 145.

*Amateur Radio Astronomy Part III*, Ken Tapping, NN, **72**, 38.

*Amateur Radio Astronomy Part IV*, Ken Tapping, NN, **72**, 60.

## Galaxy: Globular Clusters: General

*Apparent Visual Magnitudes of the Brightest Stars in Globular Clusters*, Sidney van den Bergh, **61**, 179.

*Cosmological Problems I. The Time Scale*, R. C. Roeder, **61**, 369.

*On Globular Clusters and Extragalactic Distances*, René Racine, **64**, 257.  
*Variable Stars in Globular Clusters*, Helen Sawyer Hogg, **67**, 8.  
*A Theory for the Formation of the Galactic Stellar Halo*, K. A. Innanen & D. Keenan, **67**, 248.  
*The Ellipticities of the RR Lyrae Star Systems in Globular Clusters*, K. A. Innanen & Geraldine O'Brien, **71**, 47.  
*Victoria Revisited*, Helen Sawyer Hogg, NN, **74**, 78.  
*Below the Tip: New Controversies in Globular Cluster Research*, James E. Hesser, **76**, 69.  
*Miscellaneous Photoelectric UBV Observations*, Sidney van den Bergh, **82**, 13.  
*On the Formation and Age of the Galaxy*, Allan Sandage, **84**, 70.  
*The Globular Clusters of the Disk and Halo*, Robert Zinn, **84**, 89.  
*Age Differences Between Globular Clusters*, Michael Bolte, **84**, 137.  
*Progress in CCD Photometry*, Peter B. Stetson, **86**, 71.  
*Observing the Palomar Clusters*, Randy Pagan, B, **4**, 5, 3.  
*Sketching Globular Star Clusters*, Mark Bratton, B, **6**, 3, 5.

## Galaxy: Globular Clusters: Individual

### BY MESSIER NUMBER:

#### M5

*The Bright Variable Stars in Messier 5*, Christine M. Coutts Clement & Helen Sawyer Hogg, **71**, 281.

#### M15

*The Planetary Nebula in M15*, W. A. Feibelman, **64**, 193.

### BY NGC NUMBER:

#### NGC 5927

*Distribution of B8-A0 Stars and Interstellar Reddening Towards NGC 5927*, B. Cameron Reed & Christopher J. Thomas, **86**, 248.

### BY NAME:

#### ω Centauri

*The Ellipticities of the RR Lyrae Star Systems in Globular Clusters*, K. A. Innanen & Geraldine O'Brien, **71**, 47.

## Galaxy: Halo

*A Theory for the Formation of the Galactic Stellar Halo*, K. A. Innanen & D. Keenan, **67**, 248.  
*Age and Evolution of the Galactic Disk and Halo*, Sidney van den Bergh, **84**, 60.  
*The Globular Clusters of the Disk and Halo*, Robert Zinn, **84**, 89.  
*How Metal-Weak Can a Disk Star Be?*, Heather L. Morrison, **84**, 107.  
*From WYSIWYG to Haloes and Fountains: The Discovery of Galactic Structure*, Judith A. Irwin, **87**, 368.  
*Kinematic Bias in Proper Motion Surveys*, P. C. Dawson, R. G. Johnson & A. J. Rorabeck, **89**, 201.

## Galaxy: Kinematics and Dynamics

*A Note on the Radial Motion of Neutral Hydrogen in the Galactic Interior*, K. A. Innanen, **61**, 141.  
*A Note on the Dynamics of the Bending of the Galaxy*, K. A. Innanen, **63**, 260.  
*Star Formation from Shock Waves*, Ian Halliday, **64**, 51.  
*R. M. Petrie and the B-Star Program of the Dominion Astrophysical Observatory*, Jean K. Petrie, **64**, 163.  
*On the Formation and Age of the Galaxy*, Allan Sandage, **84**, 70.  
*From WYSIWYG to Haloes and Fountains: The Discovery of Galactic Structure*, Judith A. Irwin, **87**, 368.  
*Kinematic Bias in Proper Motion Surveys*, P. C. Dawson, R. G. Johnson & A. J. Rorabeck, **89**, 201.

## Galaxy: Open Clusters and Associations:

### General

*Some Contributions of R. M. Petrie to the Study of Groups of Stars*, Helen Sawyer Hogg, **61**, 105.  
*On the Need for a New Spectroscopic Standard for MK Spectral Type B0III*, David G. Turner & Ronald W. Lyons, **77**, 87.  
*A Deep Sky Project*, Alister Ling & Paul Brown, NN, **80**, 30.  
*Demonstrating Cluster Main-Sequence Fitting to Best Advantage*, David G. Turner, **88**, 176.  
*Binaries and Clusters Collide in Calgary*, Gene Milone & David Turner, **89**, 227.  
*The Progenitors of Classical Cepheid Variables*, David G. Turner, **90**, 82.

## Galaxy: Open Clusters and Associations: Individual

### BY NGC NUMBER:

#### NGC 6823

*A Study of the Extinction in the Young Open Cluster NGC 6823*, David G. Turner, **73**, 74.

### BY NAME:

#### Byurakan 2

*The Galactic Cluster Byurakan 2*, David L. DuPuy & Walter Zukauskas, **70**, 169.

#### P Cygni

*P Cygni and Its Cluster*, Walter A. Feibelman, **89**, 3.  
*Update on P Cygni and Its Cluster*, **90**, 58.

#### SU Cygni

*More About SU Cygni*, **88**, 275.

#### Hyades

*How Far Away Are the Hyades?*, Alan H. Batten, **75**, 152.  
*CASCA '92 Hyades Cluster Workshop*, David G. Turner, Robert F. Garrison & Stephen C. Morris, **88**, 303.

#### Mon OB1

*On the Need for a New Spectroscopic Standard for MK Spectral Type B0III*, David G. Turner & Ronald W. Lyons, **77**, 87.

#### CV Monocerotis

*CV Monocerotis — The Forgotten Cluster Cepheid*,  
David G. Turner, **72**, 248.

#### Pleiades

*Double Graze, June 1970*, Dora Russell, NN, **64**, 26.

*The Colourful Pleiades*, Zdenko Saroch, NN, **74**, 4.

#### Praesepe

*MK Spectral Classification in the Praesepe Lower Main  
Sequence*, C. J. Corbally & R. F. Garrison, **77**, 28.

#### Ruprecht 36

*UBV Photographic Photometry of Ruprecht 36*, B.

Cameron Reed, **79**, 1.

#### Tombaugh 1

*The Open Cluster Tombaugh 1 and Its Neighbouring  
Cepheid XZ Canis Majoris*, David G. Turner, **77**, 31.

#### BY OTHER DESIGNATION:

#### I Puppis

*Distribution of O to B9 Stars and Dust in a Region in  
Puppis ( $\ell = 245^\circ$ ,  $b = -0.2^\circ$ )*, W. J. F. Wilson & M.  
Pim FitzGerald, **66**, 254.

#### II Puppis

*Distribution of O to B9 Stars and Dust in a Region in  
Puppis ( $\ell = 245^\circ$ ,  $b = -0.2^\circ$ )*, W. J. F. Wilson & M.  
Pim FitzGerald, **66**, 254.

#### III Cephei

*Spectrographic Orbit and Photometric Observations of  
HD 217312 in the III Cephei Association*, J. F. Heard  
& J. D. Fernie, **62**, 99.

#### C1947+272

*A Newly-Discovered Open Cluster Surrounding the 68½-  
Day Cepheid S Vulpeculae*, David G. Turner, **79**, 175.

*Photometry of the S Vul Cluster*, David G. Turner, Peter  
J. T. Leonard & Barry F. Madore, **80**, 166.

#### IC 1805

*Study of the Open Cluster IC 1805*, U. C. Joshi & Ram  
Sagar, **77**, 40.

#### **Galaxy: Solar Neighbourhood**

*The Local Space Density of Thick Disk Stars*, P. C. Dawson,  
**84**, 175.

#### **Galaxy: Stellar Content**

*A Statistical Study of Binary Stars*, Wulff D. Heintz, **63**,  
275.

*Subdwarfs*, Per H. Anderson, **65**, 119.

*Distribution of O to B9 Stars and Dust in a Region in  
Puppis ( $\ell = 245^\circ$ ,  $b = -0.2^\circ$ )*, W. J. F. Wilson & M.  
Pim FitzGerald, **66**, 254.

*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 268^\circ$ ,  
 $b = -0.3^\circ$ )*, John E. Stegman & M. Pim FitzGerald, **66**,  
303.

*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 277^\circ$ ,  
 $b = 0^\circ$ )*, John H. Moore & M. Pim FitzGerald, **67**, 291.

*Distribution of Giant M and Carbon Stars in a Region in  
Puppis ( $\ell = 246^\circ$ ,  $b = -0.6^\circ$ )*, Kenneth A. Kirton & M.  
Pim FitzGerald, **68**, 154.

*The Carbon and Related Stars*, Robert D. McClure, **79**,  
277.

*An Iterative Solution for Stellar Space Densities*, B.

Cameron Reed, **79**, 294.

*The Frequency of Multiple Stellar Systems*, A. H. Batten &  
J. M. Fletcher, **83**, 289.

*Some Properties of the Population of Known Spectroscopic  
Binary Stars*, J. M. Fletcher & A. H. Batten, **84**, 44.

*Age and Evolution of the Galactic Disk and Halo*, Sidney  
van den Bergh, **84**, 60.

*On the Formation and Age of the Galaxy*, Allan Sandage,  
**84**, 70.

*The Globular Clusters of the Disk and Halo*, Robert Zinn,  
**84**, 89.

*How Metal-Weak Can a Disk Star Be?*, Heather L.  
Morrison, **84**, 107.

*The Local Space Density of Thick Disk Stars*, P. C. Dawson,  
**84**, 175.

*Distribution of B8-A0 Stars and Interstellar Reddening  
Towards NGC 5927*, B. Cameron Reed & Christopher  
J. Thomas, **86**, 248.

*The Visibility of Galactic Supernovae*, P. C. Dawson & R.  
G. Johnson, **88**, 369.

#### **Galaxy: Structure**

*Distortion of a Galactic Spiral Arm*, Ian Halliday, **62**, 263.

*Star Formation from Shock Waves*, Ian Halliday, **64**, 51.

*R. M. Petrie and the B-Star Program of the Dominion  
Astrophysical Observatory*, Jean K. Petrie, **64**, 163.

*From WYSIWYG to Haloes and Fountains: The Discovery  
of Galactic Structure*, Judith A. Irwin, **87**, 368.

#### **Gravitation (see also Black Holes, Relativity)**

*Observational Tests of Gravitational Theories*, John R.  
Percy, **63**, 265.

*Gravity and its Astronomical Implications: An Elementary  
Guide*, Ray Skinner, **68**, 173, 237, 307.

*The New Gravity Map of Canada*, NN, **68**, 10.

*The Attraction of Schiehallion as Presented in a Lecture by  
Brydone Jack to a Fredericton Audience in 1856*, J. E.  
Kennedy, **80**, 197.

*Halley Greets Newton's Principia*, F. E. L. Priestley, **80**,  
303.

*Newton and the Apple*, F. E. L. Priestley, **81**, 185.

*300th Anniversary of Principia*, NN, **81**, 14.

*A Factor of Two*, Jan (John) Bron, B, **6**, 3, 3.

#### **Halifax Centre**

*Activities at the Centre: Halifax*, Peter Edwards, NN, **67**,  
19.

*Halifax Hosts Exciting General Assembly*, NN, **69**, 49.

*A Brief History of the Halifax Centre*, R. C. Brooks, NN,  
**69**, 53.

*Halifax Centre Display*, David L. DuPuy, NN, **71**, 56.

*News from Eastern Centres*, Barry Matthews, NN, **71**, 77.

*Halifax Centre Holds Camping/Observing Weekend*,  
Randall Brooks, NN, **71**, 79.

*Highly Successful Observing in Halifax*, Michael P.  
Edwards, NN, **72**, 21.

*From the Eastern Centres*, Barry Matthews, NN, **73**, 12.

*Report of the 1980 "Bluenose" General Assembly*, Randall  
C. Brooks, NN, **74**, 62.

*Activities in the Centres: Halifax Centre*, William J.  
Calnen, **75**, 323.



*Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.  
*Centres Arrange Summer Observing Sessions*, Peter Jedicke, NN, **76**, 74.  
*Winter Activities of RASC Centres*, Peter Jedicke, NN, **77**, 20.  
*Across the RASC*, Peter Jedicke, NN, **77**, 37.  
*Across the RASC*, Peter Jedicke, NN, **78**, 24.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59.  
*Across the RASC*, Peter Jedicke, NN, **78**, 73.  
*Across the RASC*, NN, **79**, 11, 30, 43, 57, 90.  
*Across the RASC*, NN, **80**, 11, 26, 44, 52, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 42, 84.  
*Across the RASC*, NN, **82**, 27, 53, 70, 83.  
*Across the RASC*, NNB, **83**, 15, 25, 37, 90.  
*Across the RASC*, NNB, **84**, 4, 20, 36.  
*An Invitation to Nova East*, Randall Brooks, NNB, **84**, 38.  
*Across the RASC*, NNB, **84**, 60, 90.  
*Across the RASC*, B, **1**, 4, 2.  
*Astronomy Day in Six Cities*, Steve Dodson, B, **1**, 4, 3.  
*Nova Scotia: There's So Much to Sea!*, Mary Lou Whitehorne, B, **2**, 6, 3.  
*Centre Reports*, Patrick Kelly, B, **3**, 2, 7.  
*National and Centre Councils for 1993*, B, **3**, 2, 25.  
*Centre Finances*, B, **3**, 2, 30.  
*Gracias, Merci, Danke, Schon, and Thanks!*, Mary Lou Whitehorne, B, **3**, 4, 4.  
*Nova East '93 Report*, Douglas Pitcairn, B, **3**, 6, 9.  
*Centre Reports*, Patrick Kelly, B, **4**, 2, 9.  
*The '93 GA*, B, **4**, 2, 22.  
*National and Centre Councils for 1994*, B, **4**, 2, 29.  
*Centre Finances*, B, **4**, 2, 34.  
*Solar Eclipse a Ringing Success*, B, **4**, 3, 3.  
*Centre Reports*, Patrick Kelly, B, **5**, 2, 6.  
*National and Centre Councils for 1995*, B, **5**, 2, 21.  
*Centre Finances*, B, **5**, 2, 26.  
*Comet Hyakutake Views*, **90**, 169.  
*Centre Reports*, B, **6**, 2, 7.  
*National and Centre Councils for 1996*, B, **6**, 2, 25.  
*Centre Finances*, B, **6**, 2, 30.  
*Construction Begins on Halifax Observatory*, B, **6**, 3, 8.

## Hamilton Centre

*Study of the Planet Saturn by the Hamilton Centre*, K. E. Chilton, **64**, 53.  
*A Different Story*, Cyril G. Clark, NN, **64**, 12.  
*The Transit of Mercury, May 9, 1970*, NN, **64**, 17.  
*General Assembly at Hamilton, May 21-24, 1971*, Marie Fidler, NN, **65**, 9.  
*More Eclipse News*, NN, **66**, 11.  
*Activities at the Centre: Hamilton*, K. Chilton, NN, **67**, 22.  
*An Observatory for the Hamilton Centre*, NN, **68**, 6.  
*RASC "East"*, Barry Matthews, NN, **72**, 37.  
*From the Eastern Centres*, Barry Matthews, NN, **73**, 12.  
*Winter Activities of RASC Centres*, Peter Jedicke, NN, **77**, 20.  
*Across the RASC*, Peter Jedicke, NN, **77**, 37.  
*Aurora at Hamilton Centre Observatory Site*, Michael DeVillaer, NN, **77**, 41.

*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*Members Gather for an Enjoyable Assembly*, Betty Robinson, NN, **78**, 66.  
*Across the RASC*, Peter Jedicke, NN, **78**, 73.  
*Across the RASC*, NN, **79**, 11, 30, 43.  
*A Successful Astronomy Day*, NN, **79**, 56.  
*Across the RASC*, NN, **79**, 57, 75.  
*Across the RASC*, NN, **80**, 26, 44, 52.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 42, 61, 84.  
*Across the RASC*, NN, **82**, 27, 53, 70.  
*Across the RASC*, NNB, **83**, 25.  
*Across the RASC*, NNB, **84**, 20, 36, 76.  
*Across the RASC*, B, **1**, 2, 8.  
*Centre Reports*, Patricia Marsh, B, **3**, 2, 8.  
*National and Centre Councils for 1993*, B, **3**, 2, 26.  
*Centre Finances*, B, **3**, 2, 30.  
*Centre Reports*, Garry Woodcock, B, **4**, 2, 10.  
*National and Centre Councils for 1994*, B, **4**, 2, 30.  
*Centre Finances*, B, **4**, 2, 34.  
*National and Centre Councils for 1995*, B, **5**, 2, 22.  
*Centre Finances*, B, **5**, 2, 26.  
*Centre Reports*, Roger Hill, B, **6**, 2, 7.  
*National and Centre Councils for 1996*, B, **6**, 2, 26.  
*Centre Finances*, B, **6**, 2, 30.

## History and Philosophy of Astronomy

*Jules Verne (True Prognosticator or Obfuscated Obfuscator)*, Frank A. Stebbins, **61**, 20.  
*Interim Report on Commission 41, IAU*, A. Vibert Douglas, **61**, 193.  
*Astronomy in Canada*, K. O. Wright, **61**, 211.  
*The Growth of the RASC and Its Guiding Mentor C. A. Chant*, Ruth J. Northcott, **61**, 218.  
*Astronomy of Time and Position*, Malcolm M. Thomson, **61**, 226.  
*Of Stars and the Galaxy*, Alan H. Batten, **61**, 241.  
*Astronomy at the David Dunlap Observatory 1935-1967*, John F. Heard & Helen Sawyer Hogg, **61**, 257.  
*Stars Fall Over Canada*, Peter M. Millman & D. W. R. McKinley, **61**, 277.  
*The Development of Solar Microwave Radio Astronomy in Canada*, A. E. Covington, **61**, 314.  
*Exploring the Universe*, J. L. Climenhaga, **62**, 29.  
*Copeland and Lohse and the Comet, 1882 II*, M. W. Burke-Gaffney, **62**, 49.  
*History of Astronomy at Prague, 1967*, A. Vibert Douglas, **62**, 62.  
*On the History of the Copernican Manuscript De Revolutionibus Orbium Coelestium*, Karel Hujer, **62**, 123.  
*Some Old Astronomical Instruments of Historical Value*, John R. Scatliff, **62**, 125.  
*Stationary Conjunction and Near-Conjunctions of Jupiter and Saturn*, Charles H. Smiley, **62**, 181.  
*Astronomy and the Orphic Hymns*, A. Vibert Douglas, **62**, 217.  
*Fifty Years at the Dominion Astrophysical Observatory*, K. O. Wright, **62**, 269.

- Some Recollections of the Observatory (1924-1935)*, Joseph A. Pearce, **62**, 287.
- Early Days at the Dominion Astrophysical Observatory*, C. S. Beals, **62**, 298.
- The Spectrographs of the Dominion Astrophysical Observatory*, E. H. Richardson, **62**, 313.
- XII International Congress for the History of Science*, A. Vibert Douglas, **63**, 57.
- The Royal Astronomical Society of Canada 1968*, Malcolm M. Thomson, **63**, 177.
- Russel Porter and the Canadian North*, Ian Halliday, **63**, 269.
- Stellar Radial Velocities and Spectroscopic Binaries*, John F. Heard, **64**, 209.
- The Uneasy Equilibrium of Our Physical Universe*, C. S. Beals, **64**, 339.
- The Planet That Never Was*, Dora Russell, NN, **64**, 18.
- The Moon that Never Was (Maybe?)*, K. E. Chilton, NN, **64**, 27.
- Three Interesting Sundials*, M. M. Thomson, **65**, 21.
- History of Astronomy at the IAU, 1970*, A. Vibert Douglas, **65**, 39.
- Sesquicentenary of the Royal Astronomical Society of London*, Karel Hujer, **65**, 60.
- Historical Significance of Five Conjunctions 1226-27*, A. Vibert Douglas, **65**, 129.
- Conference on Education and History of Astronomy*, **65**, 134.
- Ideas Concerning the Human Factor in the Development of Modern Science*, David H. Levy, **65**, 145.
- The Early History of Astronomical Activity in the Canadian Public Service*, R. Meldrum Stewart, **65**, 206.
- Meteor Showers*, Alan T. Blackwell, NN, **65**, 22.
- Kepler's Dream*, A. Vibert Douglas, **66**, 59.
- Our Heritage in Canadian Astronomy*, J. E. Kennedy, **66**, 83.
- The Measurement of Time*, John H. Reid, **66**, 135.
- Celestial Mechanics in the Twentieth Century*, J. S. Griffith, **66**, 193.
- Some Contributions of Canadian Astronomers to Solar Eclipse Expeditions*, J. E. Kennedy, **66**, 261.
- Time and Its Measurement in Fredericton*, J. E. Kennedy, **66**, 311.
- Anniversary of Copernicus*, **66**, 321.
- Copernicus 1473-1543*, A. Vibert Douglas, **67**, 1.
- A Note on Copernicus' Instruments*, R. W. Tanner, **67**, 40.
- Solar Telescope at Winnipeg to Mark Quincentennial of Copernicus' Birth*, B. Franklyn Shinn, **67**, 88.
- Nicolaus Copernicus and Modern Science*, Wilhelmina Iwanowska, **67**, 105, 207.
- Thomas Young, 1773-1829*, A. Vibert Douglas, **67**, 150.
- The Thix and the Fox, Mayan Solar Eclipse Intervals*, Charles H. Smiley, **67**, 175.
- Al-Biruni, Persian Scholar, 973-1048*, A. Vibert Douglas, **67**, 209.
- The Partial Acceptance of the Copernican Theory by Athanasius Kircher, 1646*, A. E. Covington & T. R. Robinson, **67**, 311.
- History of the Winnipeg Centre*, NN, **67**, 9.
- Nicolaus Copernicus 500th Anniversary*, NN, **67**, 17.
- The Harmony of the Spheres*, Barbara R. Gaizauskas, **68**, 146.
- Truth, Science, and Language*, Alan H. Batten, **68**, 285.
- Presentation of an Historical Plaque*, J. E. Kennedy, NN, **68**, 2.
- Hipparchus, the First Astronomer*, NN, **68**, 15.
- The Star of Bethlehem*, H. C. King, NN, **68**, 25.
- The Carpenter's Chronometers I*, J. D. Fernie, NN, **68**, 26.
- Astronomical Antiques Wanted*, NN, **68**, 30.
- Origins of Canadian Government Astronomy*, R. A. Jarrell, **69**, 77.
- Royal Observatory, Greenwich*, A. Vibert Douglas, **69**, 140.
- David Dunlap Observatory Forty Years Old*, John F. Heard, **69**, 141.
- The Historical Search for Stellar Parallax*, J. D. Fernie, **69**, 153.
- The Dominion Astrophysical Observatory 1918-1975*, K. O. Wright, **69**, 205.
- The Historical Search for Stellar Parallax*, J. D. Fernie, **69**, 222.
- Plaque Unveiled at Dominion Observatory for W. F. King*, A. E. Covington, **69**, 286.
- The Carpenter's Chronometers. II*, J. D. Fernie, NN, **69**, 2.
- On Planetarium Experiences, Old and New*, H. C. King, NN, **69**, 10.
- Participation of RASC Members in Heritage Canada — Our National Trust*, A. E. Covington, NN, **69**, 15.
- Rules, Rules and a Few Regulations*, J. E. Kennedy, NN, **69**, 22.
- A Brief History of the Halifax Centre*, R. C. Brooks, NN, **69**, 53.
- Whatever Became of Tungol-Craft: Some Notes on the Origin of Astronomical Words*, D. W. Sida, **70**, 67.
- On the Solar Eclipse of 1860*, J. E. Kennedy, **70**, 74.
- Regiomontanus, 1436-1476*, A. Vibert Douglas, **70**, 79.
- Engineering Heritage and the Dominion Observatory*, A. E. Covington, **70**, 194.
- The Development of Astronomy in Fredericton, New Brunswick, Between 1847 and 1876*, J. E. Kennedy, **70**, 238.
- Canadian Comet Discoveries*, R. P. Broughton, **70**, 311.
- The Adams-Leverrier Affair*, J. D. Fernie, NN, **70**, 2.
- The Adams-Leverrier Affair II*, J. D. Fernie, NN, **70**, 20.
- The Time Inventors*, J. D. Fernie, NN, **70**, 59.
- History of Astronomy (IAU Commission 41)*, A. Vibert Douglas, **71**, 56.
- Canada's Prime Meridian*, Malcolm M. Thomson & Richard W. Tanner, **71**, 204.
- The Birth of Canadian Astrophysics: J. S. Plaskett at the Dominion Observatory*, R. A. Jarrell, **71**, 221.
- Carl Friedrich Gauss, Astronomer*, Brian G. Marsden, **71**, 309.
- Aristotle and Averted Vision*, A. A. Barrett, **71**, 327.
- The Struves of Pulkovo — A Family of Astronomers*, Alan H. Batten, **71**, 345.
- An Eighteenth Century Nova Scotia Observatory*, Roy L. Bishop, **71**, 425.
- The Roosevelt of Astronomy. I*, J. D. Fernie, NN, **71**, 9.
- The Roosevelt of Astronomy. II*, J. D. Fernie, NN, **71**, 21.
- Something Old — Something New*, J. E. Kennedy, NN, **71**, 23.
- The Roosevelt of Astronomy. III*, J. D. Fernie, NN, **71**, 42.

- Mythology and Astronomy*, John Grow, NN, **71**, 44.  
*In Praise of Uncles*, J. D. Fernie, NN, **71**, 58.  
*Castle Frederick, Nova Scotia*, NN, **71**, 64.  
*The Christmas Star as a Supernova in Aquila*, A. J. Morehouse, **72**, 65.  
*Observations of Comets in Greek and Roman Sources Before A. D. 410*, A. A. Barrett, **72**, 81.  
*XV International Congress of the History of Science*, A. Vibert Douglas, **72**, 108.  
*A Possible Historical Association Between a Dolland Telescope and Early Scientific Surveys in Canada*, Arthur E. Covington, **72**, 111.  
*Joseph Everett and the King's College Observatory*, Roy L. Bishop, **72**, 138.  
*Whither Leads Urania?*, Alan H. Batten, **72**, 241.  
*Hubble*, J. Donald Fernie, NN, **72**, 3.  
*Gathering the History of a Centre*, Ella Dack, NN, **72**, 20.  
*Are There Only Three of These in Canada?*, J. E. Kennedy, NN, **72**, 31.  
*Review: "The IAU and Its Triennial Congresses: A Talk by Dr. A. Vibert Douglas"*, David H. Levy, NN, **72**, 42.  
*The Improbable Progenitor*, G. P. Brooks & R. C. Brooks, **73**, 9.  
*Einstein: The Revolution in Space-Time*, D. W. Sida, **73**, 133.  
*Cyclopean Astronomy and an Unusual Atlas*, Roy L. Bishop, **73**, 147.  
*How Sure Are We?*, H. L. Armstrong, **73**, 313.  
*M. de Chabert and the 1750 Louisbourg Observatory*, R. C. Brooks, **73**, 333.  
*Einstein and Cosmology*, R. C. Roeder, **73**, 349.  
*The Reception of Einstein's Theory of Relativity in Canada*, Richard A. Jarrell, **73**, 358.  
*History of Astronomy*, A. Vibert Douglas, **73**, 383.  
*More on Gregorian Telescopes*, J. E. Kennedy, NN, **73**, 4.  
*Still More on Gregorian Telescopes*, J. E. Kennedy, NN, **73**, 41.  
*The Director's Director*, J. D. Fernie, NN, **73**, 67.  
*Comments on the Astronomical Alignments at Callanish*, Lewis, Jean-René Roy, **74**, 1.  
*Some Background Information on Dr. Jean-René Roy's Paper on Callanish*, Gerald S. Hawkins, **74**, 10.  
*Astronomy at King's College, Windsor, Nova Scotia*, William J. Calnen, **74**, 57.  
*Astronomy and Basic Science*, G. Herzberg, **74**, 70.  
*Henry Hayden, 1784-1862*, R. P. Broughton, **74**, 76.  
*The Herschel Dynasty — Part I: William Herschel*, Peter M. Millman, **74**, 134.  
*The Herschel Dynasty — Part II: John Herschel*, Peter M. Millman, **74**, 203.  
*A Unique Greek Sundial Recently Discovered in Central Asia*, René R. J. Rohr, **74**, 271.  
*The Herschel Dynasty — Part III: Alexander Stewart Herschel*, Peter M. Millman, **74**, 279.  
*Serendipity*, Jim Cobban, NN, **74**, 11.  
*Here's News a Hundred Years Old*, Peter Broughton, NN, **74**, 68.  
*Gregorians Are Still Turning Up*, Ed Kennedy, NN, **74**, 68.  
*Aristarchos of Samos*, Alan H. Batten, **75**, 29.  
*The Habitable Sun: One of William Herschel's Stranger Ideas*, Steven Kawaler & J. Veverka, **75**, 46.  
*International Conference on the History and Philosophy of Science*, A. Vibert Douglas, **75**, 63.  
*The Brydone Jack Lectures on Astronomy and Related Topics*, J. E. Kennedy, **75**, 132.  
*Poet and Observer: Gerard Manley Hopkins and Some Mid-19th Century Comets*, David H. Levy, **75**, 139.  
*Astronomy in Seventeenth-Century Canada*, Peter Broughton, **75**, 175, 340.  
*Early Days of Astronomy at Toronto — Part I: The Toronto Astronomy Club*, Helen Sawyer Hogg, **75**, 281.  
*Canadian Radio Astronomy — Past, Present, Future?*, J. A. Galt, **75**, 297.  
*Solar-System Astronomy in Volumes 1-25 of the Journal of the RASC (1907-1931)*, Ian Halliday, **75**, 299.  
*A Visit to the Herschel House*, Phil Mozel & Debbie Tonge, NN, **75**, 5.  
*The Failure of Scottish Astronomy in the Eighteenth Century — Part I*, Ian Stuart, NN, **75**, 21.  
*To All Members of the RASC*, Bernard Hobdell, NN, **75**, 28.  
*The Failure of Scottish Astronomy in the Eighteenth Century — Part II*, Ian W. Stewart, NN, **75**, 37.  
*In Praise of the Hooker*, Roy L. Bishop, NN, **75**, 40.  
*Searching for Historical Telescopes*, NN, **75**, 44.  
*Cinquante Annees de Radioastronomie: Progres, Decouvertes et Avenir*, J. P. Vallée, **76**, 1.  
*Early Days of Astronomy at Toronto — Part II The Canadian Journal and the Activities of the Toronto Astronomical Club and Society 1868-1869*, Helen Sawyer Hogg, **76**, 26.  
*The 6-Inch Cooke Refractor in Toronto*, Brian Beattie, **76**, 109.  
*Early Days of Astronomy at Toronto — Part III The Example of Ormsby MacKnight Mitchel and the Cincinnati Observatory*, Helen Sawyer Hogg, **76**, 149.  
*The Woodstock College Observatory*, Philip Mozel, **76**, 168.  
*I Don't Know!*, L. H. Greenberg, **76**, 207.  
*"Earthquakes in the Air": The Seismological Theory of John Flamsteed (1693)*, J. E. Kennedy & W. A. S. Sarjeant, **76**, 213.  
*Early Days of Astronomy at Toronto — Part IV The Total Solar Eclipse of August 7, 1869*, Helen Sawyer Hogg, **76**, 235.  
*Two Centenaries: The Royal Society of Canada and the Last Transit of Venus, 1882*, Helen Sawyer Hogg, **76**, 362.  
*A Recent Valuable Acquisition by the Library of the Dominion Astrophysical Observatory*, Alan H. Batten, **76**, 382.  
*Seventy-Five Editions of the Observer's Handbook*, John R. Percy, **76**, 392.  
*A Brief History of L'Association des Groupes d'Astronomes Amateurs (AGAA)*, Damien Lemay, NN, **76**, 3.  
*Herschel House Revisited*, B. Ralph Chou, NN, **76**, 22.  
*Le Théodolite*, Réal Manseau, NN, **76**, 27.  
*History Seminar*, P. Mozel, NN, **76**, 77.  
*History of Astronomy in British Columbia*, J. S. Plaskett, **77**, 108.  
*The Cabinet Cyclopedia*, J. E. Kennedy, **77**, 153.  
*A Recently Discovered Letter From Sir William Herschel to*

- Sir William Hamilton*, Anthony A. Barrett, **77**, 167.
- On the History of Wilhelm Von Biela and His Comet*, Karel Hujer, **77**, 305.
- A 1908 Brass Refractor*, Brian Carr, NN, **77**, 7.
- Brief History of the Library of the Royal Astronomical Society of Canada*, Helen Sawyer Hogg, NN, **77**, 22.
- My "Roger Bacon Observatory"*, Lucien J. Kemble, NN, **77**, 62.
- The Star of Bethlehem: Some Historical Considerations*, Anthony A. Barrett, NN, **77**, 82.
- Astronomers and Creationism*, Alan H. Batten, **78**, 32.
- A Telescope's First Century*, Philip Mozel, **78**, 75.
- J. S. Plaskett and The Study of History*, **78**, 87.
- Friedrich Wilhelm Bessel — A Bicentenary*, A. H. Batten, **78**, 133.
- Stone-Age Burials as a Hint to Prehistoric Astronomy*, Th. Schmidt-Kaler & W. Schlosser, **78**, 178.
- The Star of Bethlehem: A Postscript*, Anthony A. Barrett, NN, **78**, 23.
- Astronomical Observations in the Anglo-Saxon Chronicle*, Owen Brazell, NN, **78**, 56.
- Herschel House in Trouble*, Ian McGregor, NN, **78**, 58.
- Nineteenth Century Timekeeping for Halifax Shipping*, R. C. Brooks, NN, **78**, 62.
- A Letter to the Editor*, Tom Williams, NN, **78**, 64.
- Greenwich Time*, Muriel Enock, NN, **78**, 85.
- Halley's Comet: A Bibliography of Canadian Newspaper Sources, 1835-36 and 1910*, Julian A. Smith, **79**, 54.
- Contributions of W. B. Jack and W. F. King to the Standardization of Early Surveying Instruments*, J. E. Kennedy, **79**, 130.
- God and the Big Bang*, Lorna Green, **79**, 160.
- Draft of Instructions to the Officers Acting as Principal Astronomers in the British Commission for Defining the Boundary Line in North America Under the Treaty of Washington*, J. E. Kennedy, **79**, 313.
- The Application of Standard Time to Railways (Part I)*, Omer Lavallée, NN, **79**, 2.
- Fifty Years of Public Viewing: Notes on a 12-Inch Cassegrain on Mount Wilson*, David H. Levy, NN, **79**, 18.
- The Application of Standard Time to Railways (Part II)*, Omer Lavallée, NN, **79**, 22.
- Nitrate You Say? Pity ...*, J. D. Fernie, NN, **79**, 35.
- Keeping the RASC on Time*, Harlan Creighton, NN, **79**, 44.
- Edmund Halley*, Eric Orr, NN, **79**, 52.
- The Moose Factory Telescope*, Philip Mozel & Debbie Mozel, NN, **79**, 58.
- Redit Cometes Halleii*, J. E. Kennedy, NN, **79**, 83.
- Halley's Comet: Canadian Observations and Reactions, 1835-36 and 1910*, Julian A. Smith, **80**, 1.
- The History of Comet Halley*, Donald K. Yeomans, Jürgen Rahe & Ruth S. Freitag, **80**, 62.
- Speaking of God and the Universe*, Christian Stuhr, **80**, 87.
- The Kingston Observatory*, V. A. Hughes, **80**, 124.
- A Note on the History of the Liquid-Mirror Telescope*, Duncan Olsson-Steel, **80**, 128.
- The Christian Island "Astrolabe"*, Peter Broughton, **80**, 142.
- The Attraction of Schiehallion as Presented in a Lecture by Brydone Jack to a Fredericton Audience in 1856*, J. E. Kennedy, **80**, 197.
- Halley Greets Newton's Principia*, F. E. L. Priestley, **80**, 303.
- In Search of Sprites: The Discovery of Ariel and Umbriel*, Philip Mozel, **80**, 344.
- Historic Occasion for Astronomy in Kingston*, Leo Enwright, NN, **80**, 3.
- The William Herschel Society and the RASC*, Roy L. Bishop, NN, **80**, 19.
- A Comet Halley Educational Experience*, Ron Waldron, NN, **80**, 58.
- The Fort Malden Telescope*, Philip Mozel, NN, **80**, 75.
- On Meteors and Mushrooms*, Martin Beech, **81**, 27.
- Joseph von Fraunhofer*, A. H. Batten, **81**, 106.
- The Mysterious Nebulae, 1610-1924*, Owen Gingerich, **81**, 113.
- Newton and the Apple*, F. E. L. Priestley, **81**, 185.
- 300th Anniversary of Principia*, NN, **81**, 14.
- Stamps Remember Newton*, NN, **81**, 30.
- The Fort Malden Telescope: The Story Continues*, Hein van Asperen, NN, **81**, 56.
- Astronomical Nationalism?*, David H. Levy, NN, **81**, 85.
- A Play Entitled The Beginning of Radio Astronomy*, Grote Reber, **82**, 93.
- Grote Reber, Founder of Radio Astronomy*, John D. Kraus, **82**, 107.
- Historical Remarks on the Discovery of Interstellar Molecules*, Gerhard Herzberg, **82**, 115.
- The Herschel House and Museum, 19 New King Street, Bath*, Sean Keep, **82**, 148.
- Origins of Canadian Radio Astronomy*, Arthur E. Covington, **82**, 165.
- The Twentieth Anniversary of Long-Baseline Interferometry*, J. L. Locke, **82**, 219.
- Beginnings of VLBI in Canada*, H. P. Gush, **82**, 221.
- Early Days of Canadian Long-Baseline Interferometry: Reflections and Reminiscences*, N. W. Broten, **82**, 233.
- Beginnings of Long-Baseline Interferometry in Canada: A Perspective from Penticton*, John Galt, **82**, 242.
- The Origin and Evolution of the NRAO-Cornell VLBI System*, K. I. Kellerman & M. H. Cohen, **82**, 248.
- An Introduction to the Following Paper*, Peter Broughton, **82**, 317.
- The History of the Plaskett Family*, Thomas Stanley Plaskett, **82**, 319.
- Memories of the Plaskett Era of the Dominion Astrophysical Observatory, 1931-1934*, Helen Sawyer Hogg, **82**, 328.
- Millet's Shooting Stars*, Martin Beech, **82**, 349.
- J. S. Plaskett in 1918*, **82**, 361.
- Newton's Lincolnshire Home*, Dianne Brooks, NN, **82**, 3.
- The "Eclipse Comets"*, Christopher E. Spratt, NN, **82**, 19.
- The Search for Knowledge: Science vs. Religion?*, J. P. Vallée, **83**, 8.
- Canada's Iron Creek Meteorite*, Christopher E. Spratt, **83**, 81, 329.
- Projectiles, Parabolas, and Velocity Expansions of the Laws of Planetary Motion*, J. N. Harris, **83**, 207.
- New Eyes for Astronomy*, Barry F. Madore, **83**, 269.
- Edwin Hubble 1889-1953*, Allan Sandage, **83**, 351.
- Some Thoughts on Montreal Centre's 70<sup>th</sup> Anniversary*,

- Louis Bernstein, NNB, **83**, 4.  
*Crescent Moon Shines Shyly On Moonwatchers*, NNB, **83**, 7.  
*Simon Newcomb an American Astronomer*, Roy North, NNB, **83**, 40.  
*The Accumulation of Calendar-Year/Tropical-Year Differences: A Comparison of Accumulation-Reduction Algorithms*, Peter A. Peck, **84**, 14.  
*Boundary Line in North America*, S. D. Hanson & J. E. Kennedy, **84**, 231.  
*Dorpat and Pulkova: An Astronomer's Pilgrimage*, Alan H. Batten, **84**, 253.  
*The Value of Astronomy for a Civilized Society*, Richard Jarrell, **84**, 314.  
*C. A. Chant and the Mystery of Auroral Sounds*, Colin S. L. Keay, **84**, 373.  
*William Frederick Denning: In Quest of Meteors*, Martin Beech, **84**, 383.  
*The Regulation of the Ptolemaieia: A Hypothesis Explored*, R. A. Hazzard & M. Pim Vatter FitzGerald, **85**, 6.  
*Argelander and the Bonner Durchmusterung*, Alan H. Batten, **85**, 43.  
*The Madras Observatory, 1792-1931*, C. K. Ananthasubramanian, **85**, 97, 223.  
*The Madras Observatory, 1792-1931*, C. K. Ananthasubramanian, **88**, 170.  
*Liquid Mirror Telescopes: History*, Brad K. Gibson, **85**, 158.  
*The Venus Table of the Dresden Codex and the Movements of the Planet Venus*, Bryan Wells, **85**, 291.  
*Johann Franz Encke, 1791-1865*, Alan H. Batten, **85**, 316.  
*Encke, the Comet*, Zdenek Sekanina, **85**, 324.  
*T. W. Webb's Classic Text*, J. E. Kennedy, B, **1**, 1, 7.  
*A Canadian's Pre-War Comet*, Philip Mozel, B, **1**, 1, 7.  
*News Reaches the Colony*, Ed Kennedy, B, **1**, 5, 8.  
*Historical Instrument Inventory*, Randall C. Brooks, **86**, 267.  
*Historical and Modern Total Solar Eclipses*, J. E. Kennedy, B, **2**, 2, 4.  
*The Backyard Universe of J. J. Wadsworth*, Bob Duff, B, **2**, 3, 6.  
*Rainbows Over Woolsthorpe*, Patrick Kelly, B, **2**, 4, 6.  
*Montréal 350e, la SAM Était*, Marc Gélinas, B, **2**, 5, 5.  
*The Schmalcalders of London and the "Priddis" Dial*, Julian A. Smith, **87**, 4.  
*Charles Potter, Optician and Instrument Maker*, Julian A. Smith, **87**, 14.  
*The Instrument Was Instrumental: Plaskett's Telescope and Canadian Astronomy Between the Wars*, Richard A. Jarrell, **87**, 218.  
*Scientific Highlights from the Dominion Astrophysical Observatory*, Robert D. McClure, **87**, 282.  
*From 1.8 to 8 m Telescopes*, David Crampton, **87**, 299.  
*Du RLR à la MSF: 75 Ans D'Horizons Mouvants*, René Racine, **87**, 357.  
*From WYSIWYG to Haloes and Fountains: The Discovery of Galactic Structure*, Judith A. Irwin, **87**, 368.  
*The Art of Comet Hunting, Part II*, David H. Levy, **88**, 5.  
*The Beijing Ancient Observatory and Intercultural Contacts*, P. A. L. Chapman-Rietschi, **88**, 24.  
*Remarks on the Star of Bethlehem*, **88**, 405.  
*Look Out for Looking Up*, B, **4**, 3, 7.  
*The Eclipse of Nicias*, Philip Mozel, **89**, 11.  
*What Really Brought Edmund Halley to Newfoundland*, Peter Broughton, **89**, 18.  
*The Celestial David and Goliath*, F. Graham Millar, **89**, 141.  
*Those Were the Days*, **89**, 231.  
*Canadian Astronomical History: 1991-1994*, Ed Kennedy, B, **5**, 4, 12.  
*The Astronomy of Native Americans*, Diane Brooks, B, **5**, 5, 5.  
*Extracts from the Diaries of the University of Toronto Southern Observatory. I. The Old Days*, William E. Harris, **90**, 7, 167.  
*From a Plaque on Treasurer's House, York, England*, **90**, 59.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. II. The Night of the Supernova*, Barry F. Madore, Robert Jedzrejewski & Jaymie M. Matthews, **90**, 69.  
*Letter to the Editor: The Celestial David and Goliath*, Steven Biggs, **90**, 95.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. III. Our Lady of Tilden and Other Tales*, Jaymie M. Matthews, **90**, 115.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. IV. Pot-Pourri*, J. Donald Fernie, Barry F. Madore, Max Faúndez-Abans, Mart de Groot, Richard A. Crowe, Robert F. Garrison & Jaymie M. Matthews, **90**, 270.  
*Meteorite Sparks a Cult*, Pierre M. Bellemare, **90**, 287.  
*Excerpts From Simon Newcomb's Diary of 1860*, J. E. Kennedy & S. D. Hanson, **90**, 292.  
*A Clock Out of Time*, Nat Cohen, B, **6**, 1, 4.  
*Got Some Julian Time on Your Hands?*, Dan Collier, B, **6**, 3, 7.  
*The Twenty-Four Solar Terms of the Chinese Calendar*, Henry Lee, B, **6**, 5/6, 4.  
*Chinese New Year 4694*, Henry Lee, B, **6**, 5/6, 6.
- ## Hydrodynamics
- On the Evolving Role of Computational Astrophysics*, Paul Charbonneau, **86**, 31.
- ## Infrared: Galaxies
- CO and CN Absorption in the Near-Infrared Spectra of Luminous M31 Globular Clusters*, T. J. Davidge, **84**, 166.  
*A Complete Spectral Analysis of the Flare of the Quasar 3C 273*, Alberto C. Sadun, **86**, 15.
- ## Infrared: General
- New Eyes for Astronomy*, Barry F. Madore, **83**, 269.
- ## Infrared: Solar System
- High Altitude Balloon Experiments to Study Oxygen in a Planetary Atmosphere*, W. F. J. Evans, A. Vallance Jones & E. J. Llewellyn, **61**, 82.  
*Atmospheric Water Vapour at Mt. Kobau and Calgary and Its Relevance to Infrared Astronomical Measurements*,

T. A. Clarke & G. Irwin, **67**, 142.  
*Science on Ice: Astronomy at the South Pole*, Steven Morris, NN, **79**, 25.  
*Two Eclipses Visible from a Geostationary Weather Satellite*, Jay Anderson, **81**, 83.

### **Infrared: Stars**

*The Visual and Near-Infrared Spectra of Planetary-Nebulae Nuclei*, Lawrence H. Aller, **71**, 67.  
*Are Long-Period Variables Really Pulsating?*, George Wallerstein, **71**, 298.  
*Two Eclipses Visible from a Geostationary Weather Satellite*, Jay Anderson, **81**, 83.

### **Instrumentation: Detectors**

*Une Camera Schmidt Simplifiee avec Tiges Compensatrices*, Yvon Dufour, **62**, 121.  
*The Calgary Photographic Zenith Tube (P. Z. T.)*, Malcolm M. Thomson, **62**, 205.  
*Direct Photography with a Carnegie Image Tube*, S. Jeffers, **64**, 121.  
*The Use of Closed-Circuit TV in Conjunction with Amateur Astronomical Telescopes*, Donovan H. Fallows, **65**, 78.  
*Motion Picture Photography Through the Telescope*, Robert J. Wood, **65**, 239.  
*Recording the Eclipse Shadow Bands on Magnetic Tape*, Frank M. Susel, **65**, 273.  
*Polaroid Film in Undergraduate Astronomical Photography*, K. A. Innanen, C. R. Purton, R. Berry & W. G. Weller, **66**, 157.  
*An Evaluation of Cameras for Photographing Stars*, Richard Berry, NN, **66**, 5.  
*An Experiment with a Naturally-Cooled Emulsion*, J. B. Newton, **67**, 148.  
*Modern Instrumentation for Optical Astronomy*, Francis J. Ahern, **68**, 99.  
*Films for Astrophotography*, Tony Puerzer, NN, **69**, 13.  
*Nitrogen Soaking*, Jack Newton, NN, **69**, 25.  
*Cold Weather Astrophotography*, G. N. Patterson, NN, **69**, 70.  
*Hydrogen Hypersensitization for Films*, Rick Salmon, NN, **70**, 42.  
*Spectrophotometry with Television-Type Detectors*, Gordon A. H. Walker, **71**, 139.  
*Une Experience de Video-Astronomie au CEGEP de la Pocatiere*, Alphée Nadeau, **72**, 346.  
*A New Film on the Market*, Leo Enwright, NN, **75**, 13.  
*Direct Imaging and Photometry with an Intensified Silicon Vidicon Detector*, S. Jeffers, **76**, 19.  
*The Challenge of Deep Sky Photography*, Jack Newton, **76**, 50.  
*Un Atlas Photographique Avec Une Camera Schmidt de 14 cm*, Damien Lemay, **76**, 129.  
*Cameras! Cameras! Cameras!*, Mario Caluori, NN, **77**, 8.  
*How Few Photons Per Second Can You See?*, Fred Lossing, NN, **78**, 11.  
*A Visit to the Ball Observatory*, B. Franklyn Shinn, NN, **80**, 35.  
*Digitizing the Moon*, John Dekker, NN, **81**, 37.  
*Neutrino Detectors as Early Warning Devices for Supernovae*, Robert Jedicke, **83**, 116.

*The UTSO CCD*, Marshall L. McCall, Jayanne English & Ian Shelton, **83**, 179.  
*Progress in CCD Photometry*, Peter B. Stetson, **86**, 71.  
*A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 151, 344.  
*Hypered Film for Astrophotography*, Rajiv Gupta, B, **3**, 5, 3.  
*Medium-Format Astrophotography*, Rajiv Gupta, B, **4**, 1, 4.  
*Towards a Solution to the Solar Neutrino Problem*, **89**, 31.  
*Star Charts Suitable for CCD Cameras*, Chris Brown, B, **5**, 3, 4.

### **Instrumentation: Interferometers**

*Canadian Radio Astronomers Record Success*, Ian Halliday, **61**, 196.  
New Measures of Stellar Diameters, Ian Halliday, **62**, 197.  
*Site-Testing for a Proposed 12 MHz Radio Telescope in Alberta*, F. S. Chute, C. G. Englefield, P. J. R. Harding, C. R. James & D. Routledge, **65**, 49.  
*An Interference-Excising Correlator for Radio Astronomy*, B. L. Kasper, F. S. Chute, D. Routledge & J. F. Vaneldik, **72**, 310.  
*Amateur Radio Astronomy Part II*, K. F. Tapping, NN, **72**, 22.  
*Une Systeme Modulaire D'Interferometrie de Fabry-Perot Pour L'Imagerie et la Spectrometrie*, J.-R. Roy, R. Arsenault, R. Bisson & G. Joncas, **76**, 277.  
*The Future of VLBI*, P. P. Kronberg, **82**, 266.  
*RadioAstron: The World's Largest Radio Telescope*, NNB, **84**, 31.

### **Instrumentation: Miscellaneous**

*Astronomy of Time and Position*, Malcolm M. Thomson, **61**, 226.  
*An Instrument to Aid Visual Meteor Observation*, M. J. Neale, **61**, 353.  
*A Sun-Dial at EXPO '67*, Malcolm M. Thomson, **62**, 90.  
*A Control Console for the Dunlap 74-Inch Telescope*, John F. Heard & Frank Hawker, **62**, 91.  
*Some Old Astronomical Instruments of Historical Value*, John R. Scatliff, **62**, 125.  
*The Optical Projection of Solar and Lunar Objects on a Modified Translucent Viewing Screen*, Donovan H. Fallows, **62**, 259.  
*E. R. Gardner Grinding Machine Serves Winnipeg Planetarium*, B. F. Shinn, **63**, 1.  
*Grazing Occultations*, David W. Dunham, **63**, 143.  
*Foucault's Pendulum*, D. Sher, **63**, 227.  
*Centennial Planetarium*, S. Weiser, **64**, 63.  
*Three Interesting Sundials*, M. M. Thomson, **65**, 21.  
*Two Sundials of Canadian Design*, Malcolm M. Thomson, **65**, 159.  
*Geocentric and Heliocentric Parallax Demonstrations*, Marvin J. Pryor, **66**, 53.  
*A Note on Copernicus' Instruments*, R. W. Tanner, **67**, 40.  
*The Carpenter's Chronometers I*, J. D. Fernie, NN, **68**, 26.  
*The Carpenter's Chronometers. II*, J. D. Fernie, NN, **69**, 2.  
*Accurate Time*, John Howell, NN, **70**, 44.  
*Bloc de Guidage à Logique COS/MOS*, Alphonse Tardif,

NN, **71**, 69.  
*Bloc de Guidage à Logique COS/MOS*, Alphonse Tardif, NN, **72**, 10.  
*Canada's Prime Meridian*, Malcolm M. Thomson & Richard W. Tanner, **71**, 204.  
*A Latitude-Independent Sundial*, J. G. Freeman, **72**, 69.  
*Beta Tritium*, Roy L. Bishop, NN, **73**, 22.  
*Le Temps: La Mesure de L'Astronomie*, Real Manseau, NN, **73**, 86.  
*Sundial Made From a Microwave Antenna Honours Canada's Pioneer Radio Astronomer*, V. Gaizauskas, S. Gerylo & J. D. Moore, **74**, 174.  
*A Unique Greek Sundial Recently Discovered in Central Asia*, René R. J. Rohr, **74**, 271.  
*Le Théodolite*, Réal Manseau, NN, **76**, 27.  
*Nineteenth Century Timekeeping for Halifax Shipping*, R. C. Brooks, NN, **78**, 62.  
*Greenwich Time*, Muriel Enock, NN, **78**, 85.  
*Contributions of W. B. Jack and W. F. King to the Standardization of Early Surveying Instruments*, J. E. Kennedy, **79**, 130.  
*Finding Comet Halley by Projection Blinking*, Ben Mayer, NN, **79**, 38.  
*The Christian Island "Astrolabe"*, Peter Broughton, **80**, 142.  
*Partial Automation of a Cuffey Iris Astrophotometer*, B. Cameron Reed, David G. Turner & J. Norman Scrimger, **80**, 203.  
*A Clock for All Occasions*, David M. Stokes, NN, **80**, 87.  
*Proposal to Make a Line of Micrometers*, Edgar Soulié, **82**, 82.  
*The Scientific Instrument Society*, Randall Brooks, NN, **82**, 23.  
*A Computer-Driven Astronomical Telescope Guidance and Control System With Superimposed Star Field and Celestial Coordinate Graphics Display*, Douglas P. George & L. Robert Morris, **83**, 32.  
*A New Latitude-Independent Sundial*, J. A. F. De Rijk, **83**, 137.  
*The Isoclinic Sundial*, R. Sanders & W. J. Sanders, **83**, 145.  
*The Modified Isoclinic Sundial*, R. Sanders, **84**, 116.  
*Sundial Society in Formation*, J. E. Kennedy, NNB, **84**, 29.  
*MICRO-GUIDER: A Computerized Setting Circle/Database Device*, David J. Lane, B, **1**, 6, 4.  
*Improvements to the PDS Microdensitometer of the Dominion Astrophysical Observatory*, J. R. Stilburn, P. B. Stetson & W. A. Fischer, **86**, 140.  
*Historical Instrument Inventory*, Randall C. Brooks, **86**, 267.  
*The Schmalcalders of London and the "Priddis" Dial*, Julian A. Smith, **87**, 4.  
*A Clock Out of Time*, Nat Cohen, B, **6**, 1, 4.

### **Instrumentation: Photometers**

*Stellar Photoelectric Photometry for Amateurs*, E. P. Majden, NN, **66**, 1.  
*Modern Instrumentation for Optical Astronomy*, Francis J. Ahern, **68**, 99.  
*A Classroom Photometer and Artificial Star*, David L. DuPuy, **71**, 199.

*An Inexpensive Photometer for Amateur Astronomy*, R. Dick, A. Fraser, F. Lossing & D. Welch, **72**, 40.  
*An Electric Programmer for an Integrator*, S. K. Gupta, **76**, 181.  
*How Few Photons Per Second Can You See?*, Fred Lossing, NN, **78**, 11.

### **Instrumentation: Spectrographs**

*Exploring the Universe*, J. L. Climenhaga, **62**, 29.  
*The Spectrographs of the Dominion Astrophysical Observatory*, E. H. Richardson, **62**, 313.  
*The Construction of an H $\alpha$  Solar Prominence Spectroscope*, Jack B. Newton, **64**, 197.  
*A Rapid Scanning Radial Velocity Spectrometer*, J. R. Stilborn, J. M. Fletcher & F. D. A. Hartwick, **66**, 49.  
*A Teaching Astronomical Spectrograph*, K. A. Innanen & W. G. Weller, **66**, 189.  
*A Small Off-Axis Spectrograph*, E. H. Richardson & G. A. Brealey, **67**, 165.  
*Presentation of Canadian Spectrograph to Polish Observatory*, **68**, 268.  
*Current Trends in Astronomical Spectroscopy*, K. O. Wright, **69**, 265.  
*Stellar Spectroscopy — A Personal Approach*, Clive Gibbons, NN, **73**, 74.  
*The Spectrum of the Solar Disk*, R. F. Garrison & Linda Zimmerman, **77**, 78.  
*Revised Orbital Elements for the Spectroscopic Binary HD 92000 (36 Leo Minoris)*, A. H. Batten, J. M. Fletcher & Robert D. McClure, **77**, 241.  
*On the Velocity Variability of 5 Serpentis and  $\alpha$  Aquilae*, C. D. Scarfe, **79**, 180.  
*Fibre-Linked Spectroscopy at the David Dunlap Observatory*, NN, **82**, 64.  
*A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 151, 344.  
*From 1.8 to 8 m Telescopes*, David Crampton, **87**, 299.

### **Interplanetary Medium**

*Explaining the Gegenschein*, Ian Halliday, **65**, 76.  
*Interplanetary Material*, Peter M. Millman, **68**, 13.

### **Interstellar Medium: Abundances**

*A Five-Level Program for Ions of Astrophysical Research*, M. M. De Robertis, R. J. Dufour & R. W. Hunt, **81**, 195.

### **Interstellar Medium: Bubbles**

*Les Gaz Ionisés dans Notre Galaxie (Revue des Régions H II, He II, C II, S II Interstellaires)*, J. P. Vallée, **80**, 16.  
*From WYSIWYG to Haloes and Fountains: The Discovery of Galactic Structure*, Judith A. Irwin, **87**, 368.

### **Interstellar Medium: Clouds**

*A Note on the Radial Motion of Neutral Hydrogen in the Galactic Interior*, K. A. Innanen, **61**, 141.  
*Molecule Formation in Dense Interstellar Clouds*, W. W. Duley, **64**, 331.

*Interstellar Molecules — A Review of Recent Developments*, B. E. Turner, **68**, 55.  
*Giant Molecular Clouds and the Solar System Comets*, Sidney van den Bergh, **76**, 303.  
*Molecular Clouds and Star-Forming Regions*, W. H. McCutcheon, **86**, 195.  
*Interstellar Forecast: Increasing Cloudiness*, B, **6**, 3, 3.

### **Interstellar Medium: Cosmic Rays**

*Interstellar Forecast: Increasing Cloudiness*, B, **6**, 3, 3.

### **Interstellar Medium: Dust, Extinction**

*Illumination of High-Latitude Nebulae by the Central Region of the Galactic System*, K. A. Innanen, **63**, 193.  
*Molecule Formation in Dense Interstellar Clouds*, W. W. Duley, **64**, 331.  
*Effect of H<sub>2</sub> Absorption on Interstellar Extinction by Core-Mantle Grains*, W. R. M. Graham & W. W. Duley, **65**, 63.  
*A Study of the Extinction in the Young Open Cluster NGC 6823*, David G. Turner, **73**, 74.  
*The Reddening of Beta Doradus*, David G. Turner, **74**, 64.  
*Star Dust, Mass Loss and the Late Stages of Stellar Evolution*, Sun Kwok, **74**, 216.  
*Study of the Open Cluster IC 1805*, U. C. Joshi & Ram Sagar, **77**, 40.  
*Space Reddenings for Six Cepheid Variables*, David G. Turner, **78**, 229.  
*Molecular Clouds and Star-Forming Regions*, W. H. McCutcheon, **86**, 195.  
*Distribution of B8-A0 Stars and Interstellar Reddening Towards NGC 5927*, B. Cameron Reed & Christopher J. Thomas, **86**, 248.  
*Demonstrating Cluster Main-Sequence Fitting to Best Advantage*, David G. Turner, **88**, 176.

### **Interstellar Medium: General**

*Studies of the Interstellar Medium at the Dominion Astrophysical Observatory*, G. A. H. Walker, **62**, 361.  
*Les Gaz Ionises dans Notre Galaxie (Revue des Regions H II, He II, C II, S II Interstellaires)*, J. P. Vallée, **80**, 16.  
*The DRAO Galactic Plane Survey*, Lloyd A. Higgs, **83**, 105.  
*From WYSIWYG to Haloes and Fountains: The Discovery of Galactic Structure*, Judith A. Irwin, **87**, 368.

### **Interstellar Medium: H II Regions**

*Fossil H II Regions*, Sidney van den Bergh, **61**, 23.  
*Radio Emission from Gaseous Nebulae*, L. A. Higgs & K. V. V. Ramana, **62**, 5.  
*Radio Confusion in the Galactic Plane*, L. A. Higgs, **65**, 263.  
*Observations of 85 $\alpha$  Recombination Lines from W48*, J. M. McLeod, L. H. Doherty & L. A. Higgs, **71**, 377.  
*Discovery of a Remarkable Cometary-Shaped Radio Source*, Lloyd A. Higgs & Jacques P. Vallée, **78**, 155.  
*Les Gaz Ionises dans Notre Galaxie (Revue des Regions H II, He II, C II, S II Interstellaires)*, J. P. Vallée, **80**, 16.  
*Les Gaz Ionises dans le Noyau de Notre Galaxie*, J. P. Vallée, **81**, 75.  
*A Five-Level Program for Ions of Astrophysical Research*,

M. M. De Robertis, R. J. Dufour & R. W. Hunt, **81**, 195.

*A 408-MHz Radio Survey of the Region Surrounding Simeis 57*, L. A. Higgs, T. L. Landecker, F. P. Israel & J. Bally, **85**, 24.

*Getting to the Bottom of the Lagoon*, Marshall L. McCall, **87**, 1.

### **Interstellar Medium: Individual Objects (except planetary nebulae)**

#### BY NAME:

#### Cassiopeia A

*The Distance to the Supernova Remnant Cassiopeia A*, **90**, 236.

#### Crab Nebula

*Motions in the Crab Nebula*, Ian Halliday, **63**, 215.

#### Lagoon Nebula

*Getting to the Bottom of the Lagoon*, Marshall L. McCall, **87**, 1.

#### Merope Nebula

*IC 349: Barnard's Merope Nebula*, George H. Herbig, **89**, 133.

#### Simeis 57

*A 408-MHz Radio Survey of the Region Surrounding Simeis 57*, L. A. Higgs, T. L. Landecker, F. P. Israel & J. Bally, **85**, 24.

#### BY DESIGNATION:

#### IC 349

*IC 349: Barnard's Merope Nebula*, George H. Herbig, **89**, 133.

#### MSH 14-63

*Einstein Spectral and Imaging Observations of the Supernova Remnant MSH 14-63*, Denis A. Leahy, **90**, 128.

#### S121

*Discovery of a Remarkable Cometary-Shaped Radio Source*, Lloyd A. Higgs & Jacques P. Vallée, **78**, 155.

#### W43

*Automatic Reduction of Radio Astronomical Maps: A Map of the W43 Region at 4.3 cm*, L. A. Higgs, **67**, 123.

#### W48

*Observations of 85 $\alpha$  Recombination Lines from W48*, J. M. McLeod, L. H. Doherty & L. A. Higgs, **71**, 377.

### **Interstellar Medium: Jets and Outflows**

*Les Gaz Ionises dans Notre Galaxie (Revue des Regions H II, He II, C II, S II Interstellaires)*, J. P. Vallée, **80**, 16.

### **Interstellar Medium: Magnetic Fields**

*Les Voies Magnetiques dans Notre Galaxie (Revue du Champ Magnetique Interstellaire)*, J. P. Vallée, **77**, 177.

*Magnetism des Galaxies Spirales*, J. P. Vallée, **78**, 57.

### **Interstellar Medium: Molecules**



*Anomalous Emission from Interstellar Hydroxyl and Water*,  
B. E. Turner, **64**, 221, 283.

*Molecule Formation in Dense Interstellar Clouds*, W. W.  
Duley, **64**, 331.

*Effect of H<sub>2</sub> Absorption on Interstellar Extinction by Core-  
Mantle Grains*, W. R. M. Graham & W. W. Duley, **65**,  
63.

*A Method of Forming Complex Molecules in Interstellar  
Space*, G. R. Floyd, R. H. Prince & W. W. Duley, **67**,  
299.

*Interstellar Molecules — A Review of Recent  
Developments*, B. E. Turner, **68**, 55.

*On the Diatomic and Triatomic Hydrogen Molecules in the  
Planetary Nebula NGC 7027*, Grant Gussie & Chris  
Pritchett, **82**, 69.

*Historical Remarks on the Discovery of Interstellar  
Molecules*, Gerhard Herzberg, **82**, 115.

*Molecular Clouds and Star-Forming Regions*, W. H.  
McCutcheon, **86**, 195.

*Astrophysical and Biological Constraints on  
Radiopanspermia*, Jeff Secker, Paul S. Wesson &  
James R. Lepock, **90**, 184.

### **Interstellar Medium: Nebulae: General**

*Illumination of High-Latitude Nebulae by the Central  
Region of the Galactic System*, K. A. Innanen, **63**, 193.

*The Mysterious Nebulae, 1610-1924*, Owen Gingerich, **81**,  
113.

*Saguaro Astronomy Club Database*, Alister Ling, NNB, **84**,  
25.

*A Research Proposal*, Richard Wagner, B, **2**, 3, 1.

*Observing Faint Bright Nebulae*, Randy Pakan, B, **4**, 3, 7.

### **Interstellar Medium: Planetary Nebulae: General**

*Optical Positions of 32 Planetary Nebulae*, L. A. Higgs, **63**,  
200.

*Note on the Widths of Radio Spectral Lines from Planetary  
Nebulae*, L. A. Higgs, **68**, 295.

*The Visual and Near-Infrared Spectra of Planetary-  
Nebulae Nuclei*, Lawrence H. Aller, **71**, 67.

*Star Dust, Mass Loss and the Late Stages of Stellar  
Evolution*, Sun Kwok, **74**, 216.

*A Five-Level Program for Ions of Astrophysical Research*,  
M. M. De Robertis, R. J. Dufour & R. W. Hunt, **81**,  
195.

*Miscellaneous Photoelectric UBV Observations*, Sidney  
van den Bergh, **82**, 13.

*Amateurs Needed to Observe Nothing!*, Douglas Pitcairn, B,  
**1**, 3, 4.

*A Newly Discovered Planetary Nebula Near SU Cyg*, **88**,  
171.

*More About SU Cygni*, **88**, 275.

*Planetary Nebulae: Their Use as a Tool to Probe the  
Evolution of Galaxies*, Michael G. Richer, **90**, 246.

### **Interstellar Medium: Planetary Nebulae: Individual**

#### BY NAME:

#### HM Sagittae

*The Detection of Radio Emission from the New Optical  
Emission Variable HM Sagittae*, P. A. Feldman, **71**,  
386.

#### BY NCG NUMBER:

#### NGC 1535

*Monochromatic Photographs and Isophotic Contours of  
Planetary Nebulae, II: NGC 1535, 6572, 6543, 7662,  
and 7009*, W. A. Feibelman, **65**, 25.

#### NGC 2392

*Monochromatic Photography and Isophotic Contours of  
Planetary Nebulae, III: NGC 2392, 6210, 6826, 6720,  
6853*, W. A. Feibelman, **65**, 251.

#### NGC 3242

*Monochromatic Photographs and Isophotic Contours of  
Planetary Nebulae. I: NGC 3242*, W. A. Feibelman,  
**64**, 305.

#### NGC 6210

*Monochromatic Photography and Isophotic Contours of  
Planetary Nebulae, III: NGC 2392, 6210, 6826, 6720,  
6853*, W. A. Feibelman, **65**, 251.

#### NGC 6543

*Monochromatic Photographs and Isophotic Contours of  
Planetary Nebulae, II: NGC 1535, 6572, 6543, 7662,  
and 7009*, W. A. Feibelman, **65**, 25.

#### NGC 6572

*Monochromatic Photographs and Isophotic Contours of  
Planetary Nebulae, II: NGC 1535, 6572, 6543, 7662,  
and 7009*, W. A. Feibelman, **65**, 25.

#### NGC 6720

*Monochromatic Photography and Isophotic Contours of  
Planetary Nebulae, III: NGC 2392, 6210, 6826, 6720,  
6853*, W. A. Feibelman, **65**, 251.

#### NGC 6826

*Monochromatic Photography and Isophotic Contours of  
Planetary Nebulae, III: NGC 2392, 6210, 6826, 6720,  
6853*, W. A. Feibelman, **65**, 251.

#### NGC 6853

*Monochromatic Photography and Isophotic Contours of  
Planetary Nebulae, III: NGC 2392, 6210, 6826, 6720,  
6853*, W. A. Feibelman, **65**, 251.

#### NGC 7009

*Monochromatic Photographs and Isophotic Contours of  
Planetary Nebulae, II: NGC 1535, 6572, 6543, 7662,  
and 7009*, W. A. Feibelman, **65**, 25.

#### NGC 7027

*On the Diatomic and Triatomic Hydrogen Molecules in  
the Planetary Nebula NGC 7027*, Grant Gussie & Chris  
Pritchett, **82**, 69.

#### NGC 7078

*The Planetary Nebula in M15*, W. A. Feibelman, **64**, 193.

#### NGC 7662

*Monochromatic Photographs and Isophotic Contours of  
Planetary Nebulae, II: NGC 1535, 6572, 6543, 7662,  
and 7009*, W. A. Feibelman, **65**, 25.

#### BY OTHER DESIGNATION:

## IC 418

*Observations of IC 418 in the Near-Infrared*, J. Norman Scrimger, **73**, 90.

## K 648

*The Planetary Nebula in M15*, W. A. Feibelman, **64**, 193.

## **Interstellar Medium: Supernova Remnants**

*Motions in the Crab Nebula*, Ian Halliday, **63**, 215.

*Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.

*Supernovae and Their Remnants*, Sidney van den Bergh, **82**, 179.

*Einstein Spectral and Imaging Observations of the Supernova Remnant MSH 14-63*, Denis A. Leahy, **90**, 128.

*The Distance to the Supernova Remnant Cassiopeia A*, **90**, 236.

## **Items of Interest**

*Items of Interest*, B, **2**, 2, 3.

*Items of Interest*, B, **2**, 4, 2.

*Items of Interest*, B, **2**, 6, 3.

*Items of Interest*, B, **3**, 1, 3.

*Items of Interest*, B, **3**, 5, 3.

*Items of Interest*, B, **4**, 4, 3.

*Items of Interest*, B, **4**, 5, 2.

*Items of Interest*, B, **4**, 6, 3.

*Items of Interest*, B, **5**, 1, 2.

*Items of Interest*, B, **5**, 3, 3.

*Items of Interest*, B, **5**, 5, 3.

## **Kingston Centre**

*Activities at the Centre: Kingston*, J. R. Wyght, NN, **67**, 20.

*The Mall Display in Kingston*, Leo Enwright, NN, **73**, 82.

*Astronomy Day 1981*, NN, **75**, 52.

*Activities in the Centres: A Resurgent Kingston Centre*, Leo Enwright, **75**, 324.

*Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.

*Across the RASC*, Ian McGregor, NN, **77**, 78.

*Kingston Centre Deep Sky Programme*, Leo Enwright, NN, **77**, 88.

*Across the RASC*, Ian McGregor, NN, **78**, 6.

*Across the RASC*, Peter Jedicke, NN, **78**, 24.

*RASC Centres Observe Astronomy Day*, B. R. Chou, NN, **78**, 53.

*Across the RASC*, Peter Jedicke, NN, **78**, 73.

*Across the RASC*, NN, **79**, 11, 30, 43.

*A Successful Astronomy Day*, NN, **79**, 56.

*Across the RASC*, NN, **79**, 57, 90.

*Across the RASC*, NN, **80**, 11, 26, 44.

*International Astronomy Day*, Leo Enwright, NN, **80**, 60.

*Across the RASC*, NN, **80**, 77.

*Across the RASC*, Betty Robinson, NN, **80**, 89.

*Across the RASC*, NN, **81**, 5, 42, 68, 84.

*Across the RASC*, NN, **82**, 27, 38, 83.

*Across the RASC*, NNB, **83**, 25, 90.

*Across the RASC*, NNB, **84**, 76.

*Astronomy Day in Six Cities*, Steve Dodson, B, **1**, 4, 3.

*Kingston Centre Hosts a Real Blast!*, Bill Broderick, B, **1**, 4, 7.

*Astronomy Day Reports*, B, **2**, 4, 3.

*Across the RASC*, B, **2**, 4, 4.

*National and Centre Councils for 1995*, B, **2**, 6, 26.

*Centre Reports*, Kim Hay, B, **3**, 2, 9.

*National and Centre Councils for 1993*, B, **3**, 2, 26.

*Centre Finances*, B, **3**, 2, 30.

*Activities*, B, **3**, 2, 32.

*Astronomy Week in Kingston*, Bill Broderick, B, **3**, 4, 5.

*Centre Reports*, Kim Hay, B, **4**, 2, 11.

*National and Centre Councils for 1994*, B, **4**, 2, 30.

*Centre Finances*, B, **4**, 2, 34.

*Centre Reports*, Ruth Hicks, B, **5**, 2, 7.

*National and Centre Councils for 1995*, B, **5**, 2, 22.

*Centre Finances*, B, **5**, 2, 26.

*National Astronomy Day 1995*, Sandy Ferguson, B, **5**, 3, 7.

*Centre Reports*, Ruth E. Hicks, B, **6**, 2, 9.

*Centre Finances*, B, **6**, 2, 30.

*Activities*, B, **6**, 2, 32.

## **Kitchener-Waterloo Centre**

*Kitchener-Waterloo Centre Inaugurated*, B. R. Chou, NN, **75**, 3.

*Astronomy Day 1981*, NN, **75**, 52.

*Across the RASC*, Peter Jedicke, NN, **77**, 37.

*Across the RASC*, Ian McGregor, NN, **77**, 78.

*Across the RASC*, Peter Jedicke, NN, **78**, 24.

*RASC Centres Observe Astronomy Day*, B. R. Chou, NN, **78**, 53.

*Across the RASC*, NN, **81**, 24, 42, 61, 68, 84.

*Across the RASC*, NN, **82**, 27, 38, 53, 70, 83.

*Across the RASC*, NNB, **83**, 15, 25, 37, 90.

*Across the RASC*, NNB, **84**, 90.

*Centre Reports*, Jeff Brunton, B, **3**, 2, 9.

*National and Centre Councils for 1993*, B, **3**, 2, 26.

*Centre Finances*, B, **3**, 2, 30.

*Centre Report*, Jeff Brunton, B, **4**, 2, 11.

*National and Centre Councils for 1994*, B, **4**, 2, 30.

*Centre Finances*, B, **4**, 2, 34.

*Centre Reports*, Jeff Brunton, B, **5**, 2, 8.

*National and Centre Councils for 1995*, B, **5**, 2, 22.

*Centre Finances*, B, **5**, 2, 26.

*Centre Reports*, Jeff Brunton, B, **6**, 2, 9.

*National and Centre Councils for 1996*, B, **6**, 2, 26.

*Centre Finances*, B, **6**, 2, 30.

## **Light Pollution** (see also Lightwaves)

*David Dunlop Observatory Faces Problems of Light Pollution*, NN, **68**, 28.

*Light Pollution Programme*, Richard Berry, NN, **68**, 31.

*Light Pollution in Southern Ontario*, Richard L. Berry, **70**, 97.

*A Simple Computer Model for the Growth of Light Pollution*, Robert Pike, **70**, 116.

*The Night-Sky Spectrum of the City of Toronto*, Mary C. Lane & R. F. Garrison, **72**, 198.

*Pick Your Pollution Now*, Barry Matthews, NN, **73**, 24.

*On Purchasing a Nebular Filter*, Trish Linke, NN, **74**, 47.

*Amateur Astronomy Survey: A Bulletin from The Astronomical League*, NN, **76**, 6.

*Light Pollution*, C. E. Spratt, NN, **76**, 30.

*Growth of Light Pollution at the David Dunlop Observatory*, NN, **76**, 45.

*Light Pollution and Community Relations*, C. T. Bolton, NN, **79**, 62.  
*Light Pollution: The Battle Continues*, Betty Robinson, NN, **80**, 31.  
*Brighter Skies for DDO*, NN, **81**, 8.  
*And Miles to Go*, Dennis Ryan, NN, **81**, 78.  
*Thoughts on Light Pollution*, Alister Ling, NN, **81**, 79.  
*Light Pollution*, Jeremy Tatum, **85**, 109.  
*RASC Lighting Certificate*, Ruth Lewis, B, **3**, 3, 5.  
*Light Pollution Update*, Ruth Lewis, B, **4**, 3, 5.

### **Lightwaves**

*Why Be Concerned About Light Pollution?*, Bill Broderick, B, **5**, 3, 6.  
*Good Lighting/Bad Lighting: What Is the Difference?*, Bill Broderick, B, **5**, 4, 8.  
*Putting Our Own House in Order*, Bill Broderick, B, **5**, 5, 6.  
*Getting Started as a Light Pollution Activist*, Bill Broderick, B, **6**, 1, 6.  
*Light Pollution Questions and Answers*, Bill Broderick, B, **6**, 3, 6.  
*Petitions on Light Pollution*, Bill Broderick, B, **6**, 5/6, 8.

### **Line: Formation**

*The Near Ultraviolet Spectrum from a B Star*, Anne B. Underhill, **61**, 9.  
*The Interpretation of Stellar Spectra*, Anne B. Underhill, **62**, 331.

### **Line: Profiles**

*Note on the Widths of Radio Spectral Lines from Planetary Nebulae*, L. A. Higgs, **68**, 295.  
*Profiles of Radio Recombination Lines*, L. A. Higgs, **69**, 289.

### **London Centre**

*Dr. H. R. Kingston Memorial Lecture*, NN, **66**, 11.  
*Have Telescope Will Travel*, Bill Smythe, Eric Clinton & G. Chris Essex, NN, **67**, 27.  
*RASC "East"*, Barry Matthews, NN, **72**, 37.  
*Call for Papers — 1979 General Assembly, London*, Robert W. Cornforth, NN, **72**, 79.  
*Project Zubenelgenubi — 1978 A Public Awareness of Astronomy Programme*, Gerald Schieven, NN, **73**, 2.  
*The 1979 RASC General Assembly*, Peter Jedicke, NN, **73**, 54.  
*London Centre Celebrates Diamond Anniversary*, Tom Glinos, NN, **76**, 26.  
*Winter Activities of RASC Centres*, Peter Jedicke, NN, **77**, 20.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*Across the RASC*, Peter Jedicke, NN, **78**, 24.  
*Across the RASC*, Peter Jedicke, NN, **78**, 73.  
*Across the RASC*, **79**, NN, 11, 30, 43.  
*Across the RASC*, **80**, NN, 26, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 42, 68.  
*Across the RASC*, NN, **82**, 27, 38, 53, 83.

*Across the RASC*, NNB, **83**, 15, 25.  
*Across the RASC*, NNB, **84**, 4, 20, 36, 90.  
*Across the RASC*, B, **1**, 3, 6.  
*Centre Reports*, Grant Carscallen, B, **3**, 2, 10.  
*National and Centre Councils for 1993*, B, **3**, 2, 26.  
*Centre Finances*, B, **3**, 2, 30.  
*Centre Reports*, Dan McMillan, B, **4**, 2, 12.  
*National and Centre Councils for 1994*, B, **4**, 2, 30.  
*Centre Finances*, B, **4**, 2, 34.  
*Activities*, B, **4**, 2, 36.  
*Across the RASC*, B, **4**, 3, 5.  
*National and Centre Councils for 1995*, B, **5**, 2, 22.  
*Centre Finances*, B, **5**, 2, 26.  
*Centre Reports*, Sue Vonesh, B, **6**, 2, 10.  
*National and Centre Councils for 1996*, B, **6**, 2, 26.  
*Centre Finances*, B, **6**, 2, 30.

### **Magnetohydrodynamics: MHD**

*On the Evolving Role of Computational Astrophysics*, Paul Charbonneau, **86**, 31.

### **Masers**

*Anomalous Emission from Interstellar Hydroxyl and Water*, B. E. Turner, **64**, 221, 283.  
*A Study of the Velocity Pattern of Maser Emission from Infrared Stars*, Sun Kwok, **70**, 49.

### **Meetings**

*Variable Star Notes*, Margaret W. Mayall, **61**, 49.  
*General Assembly at Montreal, May 19-21, 1967*, **61**, 147.  
*Minutes of Annual Meeting, March 17, 1967*, Norman Green, **61**, 147.  
*Interim Report on Commission 41, IAU*, A. Vibert Douglas, **61**, 193.  
*Variable Star Notes*, Margaret W. Mayall, **61**, 207.  
*The XIII General Assembly of the IAU*, Margaret W. Mayall, **61**, 391.  
*The XIII General Assembly of the IAU 1967*, A. Vibert Douglas, **62**, 1.  
*Variable Star Notes*, Margaret W. Mayall, **62**, 45.  
*History of Astronomy at Prague, 1967*, A. Vibert Douglas, **62**, 62.  
*The Meeting of the National Committee for Canada of the IAU at Toronto, March 3-4, 1967*, Ernest R. Seaquist, **62**, 66.  
*Minutes of the Annual Meeting, March 15, 1968*, Norman Green, **62**, 114.  
*General Assembly at Calgary, May 17-20, 1968*, Marie Fidler, **62**, 115.  
*The Waterloo Meeting of the National Committee for Canada of the IAU*, M. Pim FitzGerald & John F. Heard, **62**, 189.  
*Variable Star Notes*, Margaret W. Mayall, **62**, 265.  
*Variable Star Notes*, Margaret W. Mayall, **62**, 395.  
*Fifty Times Around the Sun*, Donald Davis, **63**, 42.  
*Variable Star Notes*, Margaret W. Mayall, **63**, 53.  
*XII International Congress for the History of Science*, A. Vibert Douglas, **63**, 57.  
*The Meeting of the National Committee for Canada of the IAU at Ottawa, October 4-6, 1968*, Ian Halliday, **63**,

- 93.
- Minutes of the Annual Meeting, May 17, 1969*, Norman Green, **63**, 151.
- General Assembly at Toronto, May 16-19, 1969*, John R. Percy, **63**, 152.
- The Meeting of the National Committee for Canada of the IAU at Vancouver, May 2-3, 1969*, Jason R. Auman & V. Gaizauskas, **63**, 207.
- Notes*, John R. Percy, **63**, 219.
- Variable Star Notes*, Margaret W. Mayall, **63**, 271.
- The Meeting for the National Committee for Canada of the IAU at London, September 4-6, 1969*, V. Gaizauskas, **63**, 309.
- International Conference on Laboratory Astrophysics and Opening of the Petrie Science Building, York University, Toronto, November 7-9, 1969*, R. W. Nicholls, **64**, 66.
- Variable Star Notes*, Margaret W. Mayall, **64**, 69.
- The Meeting of the National Committee for Canada of the IAU at Kingston, March 13-14, 1970*, V. Gaizauskas, **64**, 177.
- Minutes of the Annual Meeting, May 16, 1970*, Marie Fidler, **64**, 203.
- Variable Star Notes*, Margaret W. Mayall, **64**, 263.
- Canadian Astronomy: Manpower Supply and Demand*, **64**, 315.
- Dynamical Astronomy at Texas*, J. S. Griffiths, **64**, 325.
- General Assembly at Edmonton May 15-18, 1970*, Marie Fidler, NN, **64**, 9.
- History of Astronomy at the IAU, 1970*, A. Vibert Douglas, **65**, 39.
- The Meeting of the National Committee for Canada of the IAU at Ottawa, Ontario, October 23, 1970*, V. Gaizauskas, **65**, 44.
- Variable Star Notes*, Margaret W. Mayall, **65**, 45.
- Sesquicentenary of the Royal Astronomical Society of London*, Karel Hujer, **65**, 60.
- Conference on Education and History of Astronomy*, **65**, 134.
- Minutes of the Annual Meeting, May 22, 1971*, Marie Fidler, **65**, 137.
- The Meeting of the National Research Council Associative Committee on Astronomy at Victoria, May 13-15, 1971*, **65**, 169.
- Founding Meeting of the Canadian Astronomical Society at Victoria, May 15, 1971 and the National Committee for Canada of the IAU at Montreal, May 11-13, 1972*, G. A. H. Walker, **65**, 170.
- Variable Star Notes*, Margaret W. Mayall, **65**, 191.
- General Assembly at Hamilton, May 21-24, 1971*, Marie Fidler, NN, **65**, 9.
- International Union of Amateur Astronomers*, K. E. Chilton, NN, **65**, 26.
- The Meeting of the National Research Council Associate Committee on Astronomy at Toronto, November 11-13, 1971*, G. A. H. Walker, **66**, 63.
- First Regular Meeting of the Canadian Astronomical Society at the University of Toronto, November 11-13, 1971*, Peter M. Millman, **66**, 65.
- Variable Star Notes*, Margaret W. Mayall, **66**, 79.
- Minutes of the Annual Meeting, May 20, 1972*, Marie Fidler, **66**, 171.
- The Meeting of the National Research Council Associate Committee on Astronomy*, G. A. H. Walker, **66**, 213.
- The Second Regular Meeting of the Canadian Astronomical Society at the Université de Montréal, May 11-13, 1972*, Peter M. Millman, **66**, 215.
- Variable Star Notes*, Margaret W. Mayall, **66**, 285.
- The Coordinated Program for Observing the Zeta Aurigae Stars, 1971-72*, K. O. Wright, **66**, 289.
- General Assembly at Vancouver, May 19-22, 1972*, Marie Litchinsky, NN, **66**, 13.
- Orbital and Physical Parameters of Double Stars: Proceedings of Colloquium No. 18 of the International Astronomical Union Held at Swarthmore College, Pennsylvania, USA, April 12-15, 1972*, W. D. Heintz, **67**, 49.
- Third Regular Meeting of the Canadian Astronomical Society at the University of Alberta, Edmonton, May 10-12, 1973*, Peter M. Millman, **67**, 191.
- Minutes of the Annual Meeting May 26, 1973*, Marie Fidler, **67**, 205.
- Variable Star Notes*, Margaret W. Mayall, **67**, 213.
- Announcement of Symposium*, J. D. Fernie, NN, **67**, 5.
- NFCAA Meets in Hamilton*, NN, **67**, 6.
- General Assembly at Ottawa, May 25-27, 1973*, Marie Litchinsky, NN, **67**, 17.
- Joint Meeting: Royal Astronomical Society of Canada and American Association of Variable Star Observers*, Richard Bochonko, NN, **67**, 29.
- Annual Meeting — Meteoritical Society*, J. E. Kennedy & M. R. Dence, **68**, 41.
- Planetarium Educators to Meet in October*, **68**, 43.
- Variable Star Notes*, Janet Akyüz Mattei, **68**, 48.
- Fifteenth General Assembly of the International Astronomical Union, Sydney, Australia, August 21-30, 1973*, Graham Hill, **68**, 89.
- Minutes of the Annual Meeting June 29, 1974*, Marie Fidler, **68**, 215.
- Fourth Meeting of the Canadian Astronomical Society at Memorial University of Newfoundland, St. John's, June 10-13, 1974*, Peter M. Millman, **68**, 257.
- Variable Star Notes*, Janet Akyüz Mattei, **68**, 281.
- General Assembly at Winnipeg, June 28-July 1, 1974: RASC-AAVSO Joint Meeting*, Marie Fidler, NN, **68**, 21.
- Fifth Meeting of the Canadian Astronomical Society at the University of Manitoba, Winnipeg, November 7-9, 1974*, Peter M. Millman, **69**, 38.
- Variable Star Notes*, Janet Akyüz Mattei, **69**, 53.
- Minutes of the Annual Meeting June 28, 1975*, Rosemary Freeman, **69**, 191.
- Variable Star Notes*, Janet Akyüz Mattei, **69**, 201.
- Sixth Meeting of the Canadian Astronomical Society at Queen's University, Kingston, Ontario, June 18-21, 1975*, Peter M. Millman, **69**, 242.
- The AAVSO and Margaret Mayall*, Helen Sawyer Hogg, NN, **69**, 1.
- Halifax Hosts Exciting General Assembly*, NN, **69**, 49.
- Minutes of the Annual Meeting, May 22, 1976*, Jim Cobban, **70**, 196.
- Seventh Meeting of the Canadian Astronomical Society at the Dominion Radio Astrophysical Observatory*,

- Penticton B. C., June 16-18, 1976*, Peter M. Millman, **70**, 257.
- 1976 General Assembly*, Ulrich Haasdyk, NN, **70**, 31.
- Calgary General Assembly Successful*, Robert Pike, NN, **70**, 47.
- History of Astronomy (IAU Commission 4I)*, A. Vibert Douglas, **71**, 56.
- Symposium in Honour of Dr. K. O. Wright*, A. H. Batten, **71**, 65.
- Minutes of the Annual Meeting, 2 July, 1977*, Harlan Creighton, **71**, 329.
- Eighth Meeting of the Canadian Astronomical Society at the University of Western Ontario, London, Ont., May 25-27, 1977*, Peter M. Millman, **71**, 391.
- Education at the Atlanta AAS Meeting*, John R. Percy, **71**, 412.
- General Assembly Papers*, John R. Percy, NN, **71**, 15.
- Upcoming Conventions*, NN, **71**, 16.
- General Assembly Travel Grants*, D. J. Fitzgerald, NN, **71**, 16.
- Toronto Hosts 1977 General Assembly*, Ian McGregor, NN, **71**, 50.
- The 40th Annual Meeting of the Meteoritical Society in Cambridge, England, July 24-29, 1977*, Peter M. Millman, **72**, 49.
- XV International Congress of the History of Science*, A. Vibert Douglas, **72**, 108.
- Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **72**, 114.
- Minutes of the Annual Meeting, May 21, 1978*, Harlan Creighton, **72**, 224.
- Ninth Meeting of the Canadian Astronomical Society at the University of Saskatchewan, Saskatoon, Saskatchewan, May 24-26, 1978*, Richard Bochonko, **72**, 278.
- The 41st Annual Meeting of the Meteoritical Society in Sudbury, Ontario, August 14-17, 1978*, Peter M. Millman, **72**, 336.
- Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **72**, 339.
- Review: "The IAU and Its Triennial Congresses: A Talk by Dr. A. Vibert Douglas"*, David H. Levy, NN, **72**, 42.
- The 1978 General Assembly in Review*, Alan Dyer, NN, **72**, 46.
- Call for Papers — 1979 General Assembly, London*, Robert W. Cornforth, NN, **72**, 79.
- Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **73**, 150.
- Minutes of the Annual Meeting, May 20, 1979*, Harlan Creighton, **73**, 225.
- Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.
- Tenth Meeting of the Canadian Astronomical Society at the University of British Columbia, Vancouver, British Columbia, May 23-25, 1979*, Richard Bochonko, **73**, 294.
- Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **73**, 311.
- History of Astronomy*, A. Vibert Douglas, **73**, 383.
- International Union of Amateur Astronomers*, George Ball, NN, **73**, 42.
- To Straighten the Record*, NN, **73**, 47, 79.
- The 1979 RASC General Assembly*, Peter Jedicke, NN, **73**, 54.
- National Council News*, NN, **73**, 64.
- Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **74**, 27.
- Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **74**, 178.
- Minutes of the Annual Meeting, June 29, 1980*, Harlan Creighton, **74**, 305.
- Eleventh Meeting of the Canadian Astronomical Society Held at Saint Mary's University, Halifax, Nova Scotia, June 25-28, 1980*, Richard Bochonko, **74**, 354.
- Report of the 1980 "Bluenose" General Assembly*, Randall C. Brooks, NN, **74**, 62.
- Northwest Astronomical League Holds Convention*, NN, **74**, 73.
- Summary of Minutes of the National Council, June 27-28, 1980*, NN, **74**, 76.
- International Conference on the History and Philosophy of Science*, A. Vibert Douglas, **75**, 63.
- Meeting of the NRC Associate Committee on Astronomy*, Alan H. Batten, **75**, 113.
- Twelfth Meeting of the Canadian Astronomical Society Held at Université Laval, Québec, Québec, May 27-29, 1981*, Richard Bochonko, **75**, 243.
- Twenty-First Meeting of the NRC Associate Committee on Astronomy*, A. H. Batten, **75**, 259.
- Minutes of the Annual Meeting, 28 June, 1981*, Harlan Creighton, **75**, 261.
- NFCAAA Meets at Niagara Falls*, Robert Jedicke, NN, **75**, 7.
- AAVSO Meeting*, Clifford Cunningham, NN, **75**, 45.
- Victoria Was the One in June of '81*, Muriel Enock, NN, **75**, 50.
- IAPPP Symposium*, Clifford Cunningham, NN, **75**, 53.
- Report of the National Council Meeting 26 June 1981*, Harlan Creighton, NN, **75**, 55.
- National Council Report*, Harlan Creighton, NN, **75**, 76.
- Twenty-Second Meeting of the NRC Associate Committee on Astronomy*, L. W. Avery, **76**, 139.
- The Fifth Kingston Meeting on Theoretical Astrophysics*, W. Y. Chau, **76**, 140.
- The Second STARLAB Joint Science Working Group Meeting*, Christopher Aikman, David Crampton & James E. Hesser, **76**, 209.
- Minutes of the Annual Meeting, 23 May, 1982*, Harlan Creighton, **76**, 262.
- Thirteenth Meeting of the Canadian Astronomical Society Held at the University of Toronto, June 2-4, 1982*, **76**, 315.
- Twenty-Third Meeting of the NRC Associate Committee on Astronomy*, A. H. Batten, **76**, 327.
- General Assembly Travel Grants*, R. Peter Broughton, NN, **76**, 20.
- National Council Report*, Harlan Creighton, NN, **76**, 33.
- COSPAR Meeting*, Clifford Cunningham, NN, **76**, 39.
- The Saskatoon General Assembly*, G. N. Patterson, NN, **76**, 50.
- National Council Report*, Harlan Creighton, NN, **76**, 62.
- History Seminar*, P. Mozel, NN, **76**, 77.
- The Eighteenth General Assembly of the International*

- Astronomical Union at Patras, Greece, August 17-26, 1982*, G. Christopher L. Aikman, **77**, 1.
- Twenty-Fourth Meeting of the NRC Associate Committee on Astronomy*, Ian Halliday, **77**, 55.
- Minutes of the Annual Meeting, 22 May, 1983*, Leo Enwright, **77**, 248.
- Fourteenth Meeting of the Canadian Astronomical Society Held at the University of Victoria, June 26-30, 1983*, Richard Bochonko, **77**, 253.
- Japanese Amateur Astronomers Meet*, Osao Shigehisa, NN, **77**, 6.
- A Report of the January National Council Meeting*, Leo Enwright, NN, **77**, 21.
- Report of the May 1983 National Council Meeting*, Leo Enwright, NN, **77**, 52.
- Niagara Frontier Amateurs Meet*, Derek Baker, NN, **77**, 56.
- L'Assemblée Générale 1983 à Québec*, Damien Lemay, NN, **77**, 67.
- Summer Meetings of Canadian Societies*, Ian McGregor, NN, **77**, 76.
- Report of the September National Council Meeting*, Leo Enwright, NN, **77**, 86.
- Microcomputers in Astronomy*, R. M. Genet, **78**, 49.
- Fifteenth Meeting of the Canadian Astronomical Society Held in Ottawa, June 4-7 1984*, Chris Aikman, **78**, 197.
- Minutes of the Annual Meeting of June 30, 1984*, Leo Enwright, **78**, 216.
- The 1983 General Assembly*, Rolf Meier, NN, **78**, 10.
- Report of the January National Council Meeting*, Leo Enwright, NN, **78**, 29.
- NFCAA Meeting Report*, Randy Attwood, NN, **78**, 60.
- Members Gather for an Enjoyable Assembly*, Betty Robinson, NN, **78**, 66.
- Report of the June 1984 National Council Meetings*, Leo Enwright, NN, **78**, 71.
- Astronomers Celebrate Cepheid Bicentenary*, John R. Percy, NN, **78**, 76.
- Astronomy with the Hubble Space Telescope*, Sidney van den Bergh, **79**, 134.
- Sixteenth Meeting of the Canadian Astronomical Society Held in Toronto, May 27-31, 1985*, Chris Aikman, **79**, 228.
- Minutes of the Annual Meeting of June 30, 1985*, Leo Enwright, **79**, 249.
- The Study of Variable Stars Using Small Telescopes*, John R. Percy, NN, **79**, 4.
- Report of the January 1985 National Council Meeting*, Leo Enwright, NN, **79**, 36.
- 1985 General Assembly Hosted by the Edmonton Centre*, Mary Anne Harrington, NN, **79**, 64.
- Report of the June 1985 National Council Meetings*, Leo Enwright, NN, **79**, 76.
- CASCA Celebrates 50<sup>th</sup> Anniversary of the David Dunlap Observatory*, John R. Percy, NN, **79**, 85.
- Planetarium Association Meets*, NN, **79**, 88.
- Report of September 1985 National Council Meeting*, Leo Enwright, NN, **79**, 90.
- The IAU Meeting in India*, Alan H. Batten, **80**, 121.
- The 1986 Annual Meeting of the Canadian Astronomical Society Held in Penticton, June 9-13*, Chris Aikman, **80**, 264.
- Minutes of the Annual Meeting of June 29, 1986*, Leo Enwright, **80**, 288.
- World Astronomers Meet in New Delhi*, John R. Percy, NN, **80**, 13.
- Report of January 1986 National Council Meeting*, Leo Enwright, NN, **80**, 22.
- The 1986 General Assembly*, Mary Anne Harrington, NN, **80**, 69.
- Report of the June 1986 National Council Meetings*, Leo Enwright, NN, **80**, 72.
- A Joint Meeting of the Canadian and American Astronomical Societies Held in Vancouver, June 14-19, 1987*, Chris Aikman, **81**, 161.
- Minutes of the Annual Meeting of May 17, 1987*, Leo Enwright, **81**, 165.
- Long Range Goals for the RASC*, Lloyd Higgs, NN, **81**, 27.
- Canadian Amateurs Invited to Japan*, Osao Shigehisa, NN, **81**, 36.
- The 1987 General Assembly in Toronto*, Dennis Ryan, NN, **81**, 50.
- Report of the May 1987 National Council Meetings*, Leo Enwright, NN, **81**, 54.
- Planetarium Community Meets*, Ian G. McGregor, NN, **81**, 59.
- Syracuse Summer Seminar*, Denise Sabatini, NN, **81**, 77.
- Report of the September 1987 National Council Meeting*, Leo Enwright, NN, **81**, 87.
- Vancouver Island Observers Meet*, Donovan Fallows, NN, **81**, 91.
- The 1988 Annual Meeting of the Canadian Astronomical Society*, Chris Aikman, **82**, 271.
- The Minutes of the Annual Meeting of July 2, 1988*, Leo Enwright, **82**, 290.
- Résumé des Activités de L'AGAA en 1987*, Damien Lemay, NN, **82**, 15.
- Noted Astronomer to Visit Syracuse*, Frank Rioux, NN, **82**, 21.
- Report of the January 1988 National Council Meeting*, Leo Enwright, NN, **82**, 42.
- Victoria Retrospective*, Alice Newton, NN, **82**, 66.
- Astronomical Conference — Victoria 1988*, Mary Anne Harrington, NN, **82**, 68.
- Report of the June 1988 National Council Meeting*, Leo Enwright, NN, **82**, 69.
- XIIIième Congrès de L'AGAA*, NN, **82**, 84.
- The Minutes of the Annual Meeting of July 2, 1989*, Henry Lee, **83**, 431.
- The Planetary Society in Toronto*, Jennifer Owen, NNB, **83**, 11.
- Cape Breton General Assembly*, Mary Anne Harrington, NNB, **83**, 67.
- Nouvelles de L'Été*, Marc A. Gélinas, NNB, **83**, 72.
- The 1990 General Assembly*, Rob McCallum, NNB, **83**, 96.
- Welcoming Remarks to the Public Symposium "You and the Universe" Held at Carleton University, Ottawa, 1990 June 29*, Robin H. Farquhar, **84**, 297.
- The Minutes of the Annual Meeting of July 2, 1990*, Henry Lee, **84**, 399.
- "You and the Universe": A Public Symposium for Everyone*, NNB, **84**, 13.
- Centennial General Assembly*, Mary Anne Harrington,

NNB, **84**, 66.  
*Kingston Centre Hosts a Real Blast!*, Bill Broderick, B, **1**, 4, 7.  
*The 1991 General Assembly*, Steven Spinney, B, **1**, 5, 3.  
*Computers and the Seattle Astronomical Society*, James R. Naiden, **86**, 114.  
*The September 28<sup>th</sup> Council Meeting*, Mary Anne Harrington, B, **2**, 1, 3.  
*Council Highlights*, B, **2**, 4, 5.  
*Thanks from Calgary*, Mel Head, B, **2**, 4, 5.  
*The 1992 GA*, Grant Dixon, B, **2**, 5, 1.  
*Nova Scotia: There's So Much to Sea!*, Mary Lou Whitehorne, B, **2**, 6, 3.  
*The 24th Annual Meeting of the Canadian Astronomical Society*, G. Christopher L. Aikman, Dennis R. Crabtree, Ann C. Gower, James E. Hesser, Christopher J. Pritchett & Russell M. Robb, **87**, 271.  
*National Council Highlights*, B, **3**, 1, 5.  
*Minutes of the 1992 Annual Meeting*, Mary Anne Harrington, B, **3**, 2, 20.  
*Gracias, Merci, Danke, Schon, and Thanks!*, Mary Lou Whitehorne, B, **3**, 4, 4.  
*Meeting Highlights*, Joe Yurchesyn, B, **3**, 4, 6.  
*Meeting Highlights*, Joe Yurchesyn, B, **3**, 6, 3.  
*The October 1993 Council Meeting*, Walter MacDonald & Doug Hube, B, **3**, 6, 6.  
*Twenty-Fifth Meeting of the Canadian Astronomical Society Held in London, Ontario, May 24-28, 1994*, David G. Turner, **88**, 243.  
*CASCA '92 Hyades Cluster Workshop*, David G. Turner, Robert F. Garrison & Stephen C. Morris, **88**, 303.  
*Council Highlights*, Walter MacDonald, B, **4**, 2, 2.  
*The '93 GA*, B, **4**, 2, 22.  
*Minutes of the 1993 Annual Meeting*, Mary Anne Harrington, B, **4**, 2, 24.  
*National Council Update*, Walter MacDonald, B, **4**, 4, 3.  
*An Amateur at the IAU General Assembly*, Mary Lou Whitehorne, B, **4**, 5, 1.  
*Special Conference Travel Grant*, B, **4**, 5, 8.  
*National Council Update*, Cathy Hall, B, **4**, 6, 4.  
*Twenty-Sixth Meeting of the Canadian Astronomical Society Held in Penticton, British Columbia, May 26-31, 1995*, Robert S. Roger & David G. Turner, **89**, 155.  
*Binaries and Clusters Collide in Calgary*, Gene Milone & David Turner, **89**, 227.  
*National Council Update*, Cathy Hall, B, **5**, 1, 5.  
*Minutes of the 1994 Annual Meeting*, Peter Jedicke, B, **5**, 2, 18.  
*Activities*, B, **5**, 2, 28.  
*National Council Report*, Rick Wagner, B, **5**, 5, 3.  
*Simon Newcomb Award Presented at November Council Meeting*, **90**, 100.  
*Twenty-Seventh Meeting of the Canadian Astronomical Society Held in Kingston, Ont., June 1-5, 1996*, David G. Turner, **90**, 304.  
*National Council Report*, Patrick Kelly, B, **6**, 4, 3.  
*The 1996 Edmonton General Assembly*, Ken Noesgaard, B, **6**, 4, 6.

## Meteor News

*The Leonids*, Peter M. Millman, **61**, 89.  
*The I. G. C. (1966) Visual Meteor Program — Progress Report No. 12*, Peter M. Millman, **61**, 151.  
*The I. G. C. (1967) Visual Meteor Program — Progress Report No. 13*, Peter M. Millman, **62**, 387.  
*The Leonids — 1969*, Peter M. Millman, **64**, 55.  
*A Tape Recording of the Belfast Meteorite*, Peter M. Millman, **64**, 57.  
*Meteorite Orbits*, Peter M. Millman, **64**, 114.  
*Meteoritic Flux Determined from Visual Observations*, Peter M. Millman, **64**, 187.  
*Current Research at Sikhote-Alin*, Peter M. Millman, **64**, 251.  
*Image Orthicon Meteor Spectra*, Peter M. Millman, **64**, 371.  
*Heights of Meteor Spectra*, Peter M. Millman, **65**, 37.  
*Canadians and Meteorites on the Moon*, Peter M. Millman, **65**, 85.  
*Earth's Space Scars*, Peter M. Millman, **65**, 165.  
*Airborne Observations of the 1972 Giacobinids*, Peter M. Millman, **67**, 35.  
*A Story of Meteorite Collecting*, Peter M. Millman, **67**, 95.

## Meteorology

*Recent Advances in the Research on Noctilucent Clouds*, Benson Fogle, **61**, 64.  
*The Uneasy Equilibrium of Our Physical Universe*, C. S. Beals, **64**, 339.  
*July 1972 Total Solar Eclipse*, Si Brown, NN, **64**, 29.  
*Predictions of Local Circumstances Across Canada of the Total Solar Eclipse of July 10, 1972*, V. Gaizauskas, L. W. Avery & F. D. Manning, **65**, 107.  
*Total Solar Eclipse, July 1972*, NN, **65**, 5.  
*A New Use for Polaris*, NN, **66**, 21.  
*Sunspots and Agriculture*, D. P. Hube, NN, **69**, 16.  
*Solar Eclipse — S. E. Australia — 23 October 1976: October Average Weather Summary Along the Eclipse Path*, D. J. Linforth, NN, **69**, 43, NN.  
*A Most Forgotten Land*, Ken Pilon, NN, **70**, 5.  
*The Total Solar Eclipse of 1979, February 26*, William T. Peters, NN, **72**, 25.  
*Transient Optical Phenomena of the Atmosphere — A Case Study*, Philip A. Stahl, **74**, 168.  
*Chasing the Monsoon Eclipse*, Jay Anderson, NN, **75**, 30.  
*Tornado!*, Harlan Creighton, NN, **76**, 36.  
*Dew: What to do About It*, Alister Ling, NN, **80**, 9.  
*Predictions for the Total Solar Eclipse of 1988*, Fred Espenak, **81**, 44.  
*Eclipse Weather: The March 1988 Total Solar Eclipse*, Jay Anderson, NN, **81**, 18.  
*This Cloud's For You*, Mark Zalcik, NN, **82**, 51.  
*Noctilucent Clouds: We're Watching Them Again*, Mark Zalcik, NNB, **83**, 12.  
*Noctilucent Clouds in Edmonton Skies*, Mark Zalcik, NNB, **84**, 16.  
*Rainbows Over Woolsthorpe*, Patrick Kelly, B, **2**, 4, 6.  
**Meteors, Meteoroids** (see also Meteor News)  
*Summary of Drilling at the West Hawk Lake Crater*, Ian Halliday & A. A. Griffin, **61**, 1.

- A Bright Fireball Observed Photographically, By Radar and Visually*, F. R. Park & B. A. McIntosh, **61**, 25.
- The Tektite Puzzle*, Ian Halliday, **61**, 86.
- Journey Via Otiwarongo: A Trip to the Hoba Meteorite*, J. D. Fernie, **61**, 127.
- The Fireball of April 25, 1966. I. Canadian Visual Observations*, B. A. McIntosh & J. A. V. Douglas, **61**, 159.
- The Fireball of December 9, 1965 — Part I. Calculation of the Trajectory and Orbit by Photographic Triangulation of the Train*, Von Del Chamberlain & David J. Krause, **61**, 184, 390.
- Path of the Fireball of June 14, 1967*, Bruce A. McIntosh, **61**, 191.
- Stars Fall Over Canada*, Peter M. Millman & D. W. R. McKinley, **61**, 277.
- Impact Craters of the Earth and Moon*, C. S. Beals & Ian Halliday, **61**, 295.
- An Instrument to Aid Visual Meteor Observation*, M. J. Neale, **61**, 353.
- Radar Meteor Observations from Opposite Hemispheres*, Colin S. L. Keay, **61**, 358.
- The Fireball of April 25, 1966. II. Photographic Observations and Orbit Determination*, A. A. Griffin, **62**, 55.
- Leonids — Then and Now*, Peter Millman, **62**, 124.
- Photoelectric Timing of the Fireball of September 17, 1966*, W. A. Feibelman, **62**, 185.
- Vilna Meteorite — Camera, Visual, Seismic and Analytic Records*, R. E. Folinsbee, L. A. Bayrock, G. L. Cumming & D. G. W. Smith, **63**, 61.
- Telescopic Observation of a Meteor and Its Train*, W. A. Feibelman, **63**, 189.
- On the End-Point Height of Fireballs*, B. A. McIntosh, **64**, 267.
- Meteorite Dust in the Atmosphere*, Ian Halliday, **64**, 319.
- April 24-25*, NN, **64**, 6.
- Meteor Observations Continue in Ottawa*, Ken Hewitt-White, NN, **64**, 22.
- Tektite Debate Continues*, Ian Halliday, **65**, 296.
- Meteor Showers*, Alan T. Blackwell, NN, **65**, 22.
- Giacobinid Meteor Shower: Prospect for 1972*, B. A. McIntosh, **66**, 149, 236.
- Giacobinid Meteor Spectra*, Peter M. Millman, **66**, 201.
- Interplanetary Material*, Peter M. Millman, **68**, 13.
- Annual Meeting — Meteoritical Society*, J. E. Kennedy & M. R. Dence, **68**, 41.
- Identifying a Meteorite*, Rolf Meier, NN, **68**, 13.
- Impact Structures in Canada: Their Recognition and Characteristics*, P. B. Robertson & R. A. F. Grieve, **69**, 1.
- The Dynamics and Orbit of an Iron Meteoroid*, A. A. Griffin, **69**, 126.
- Geminid Shower a Bust (Again)*, Ken Hewitt-White, NN, **69**, 18.
- The 1974 Geminids*, Robert McCallum, NN, **69**, 20.
- Events Interpreted as Volcanic, Associated With the Impact Craters Gagarin and Aitken on the Lunar Farside*, C. S. Beals & R. W. Tanner, **72**, 3.
- The Innisfree Meteorite and the Canadian Camera Network*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **72**, 15.
- The 40th Annual Meeting of the Meteoritical Society in Cambridge, England, July 24-29, 1977*, Peter M. Millman, **72**, 49.
- The Kitchener Daylight Fireball of November 4, 1977*, A. A. Griffin & I. Halliday, **72**, 189.
- The 41st Annual Meeting of the Meteoritical Society in Sudbury, Ontario, August 14-17, 1978*, Peter M. Millman, **72**, 336.
- Perseid Meteor Shower*, Patricia Berezowski, NN, **72**, 86.
- Transient Optical Phenomena of the Atmosphere — A Case Study*, Philip A. Stahl, **74**, 168.
- Audible Sounds Excited by Aurorae and Meteor Fireballs*, Colin S. L. Keay, **74**, 253.
- Solar-System Astronomy in Volumes 1-25 of the Journal of the RASC (1907-1931)*, Ian Halliday, **75**, 299.
- A Fire in the Sky*, Stewart Krysko, NN, **75**, 27.
- Let the Search Begin or Shall We Offer a Reward?*, D. G. Graham, NN, **75**, 67.
- Perseids 1981*, Bruce Waters, NN, **75**, 73.
- Perseid Meteor Shower Alert*, Michael E. Boschat, NN, **76**, 35.
- Observers Needed for Meteor Network*, NN, **77**, 5.
- Bright February Fireball*, Leo Enwright, NN, **77**, 19.
- A Quadrantid Fireball*, David Rechtshaffen, NN, **77**, 47.
- The Purcell Mountains Meteorite*, Chris Aikman, NN, **77**, 64.
- A Note on Anomalous Sounds from Meteor Fireballs and Aurorae*, D. Y. Wang, T. F. Tuan & S. M. Silverman, **78**, 145.
- Astronomical Observations in the Anglo-Saxon Chronicle*, Owen Brazell, NN, **78**, 56.
- The ALPO Comet and Meteor Sections*, David H. Levy, NN, **78**, 78.
- Report on the Perseid Meteor Shower 1984*, Alison Healy & Neil Laffra, NN, **78**, 84.
- The Grande Prairie Fireball of 1984 February 22*, Ian Halliday, **79**, 197.
- Giacobinids 1985*, Peter Brown & Mark Zalcik, NN, **79**, 70.
- The August Perseids*, Ian G. McGregor, NN, **79**, 70.
- Two Alberta Fireballs in 1985*, R. E. Folinsbee, D. G. W. Smith, D. P. Hube & K. J. Finstad, **80**, 312.
- Giacobinids Disappoint Canadian Observers*, Peter Brown & Mark Zalcik, NN, **80**, 21.
- Fox Lake Meteorite Hunt*, Peter Brown, NN, **80**, 25.
- Searching for Early Perseids*, Peter Brown & Mark Zalcik, NN, **80**, 46.
- Showers From Halley*, Peter Brown & Mark Zalcik, NN, **80**, 77.
- Perseid Shower 1986*, Peter Brown & Mark Zalcik, NN, **80**, 91.
- On Meteors and Mushrooms*, Martin Beech, **81**, 27.
- Observer's Cage*, David H. Levy, NN, **81**, 8.
- The Montagnais Impact Structure*, Roy Bishop, NN, **81**, 10.
- Canadian Meteorites and the National Meteorite Collection of Canada*, Christopher E. Spratt, **82**, 24.
- Millet's Shooting Stars*, Martin Beech, **82**, 349.
- International Meteor Organization*, Peter Brown, NN, **82**, 57.
- Detailed Records of Many Unrecovered Meteorites in Western Canada For Which Further Searches are*



*Recommended*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **83**, 49.

*Canada's Iron Creek Meteorite*, Christopher E. Spratt, **83**, 81, 329.

*The Daylight Fireball of January 20, 1988*, G. C. L. Aikman, P. F. Younger & D. H. Weichert, **83**, 232.

*A Possible Giant Astrobleme on the North Shore of Canada at the Cretaceous-Tertiary Boundary*, Ralph B. Baldwin, **83**, 377.

*A Hitherto Unrecorded Fragment of the Bruderheim Meteorite*, Jeremy B. Tatum, **84**, 1.

*William Frederick Denning: In Quest of Meteors*, Martin Beech, **84**, 383.

*Possible Hazards of Meteorite Falls*, Christopher E. Spratt, **85**, 263.

*Escadrille Exceptionnelle de Météors*, Gaetan Morissette, B, **1**, 3, 8.

*Meteors: Why Not?*, Peter Brown, B, **1**, 4, 5.

*Barred Olivine Chondrule in the Allende Meteorite*, Alan E. Rubin, **86**, 1.

*The Fall of the Abee Meteorite and Its Probable Orbit*, Arthur A. Griffin, Peter M. Millman & Ian Halliday, **86**, 5.

*Recent Field Research on Potential Meteorite Falls from the Meteorite Observing and Recovery Project*, Peter Brown & Mark Zalcik, **86**, 130.

*A Simple Method for Viewing Meteorite Thin Sections*, Christopher E. Spratt, **86**, 215.

*Montréal 350e, la SAM y Était*, Marc Gélinas, B, **2**, 5, 5.

*A Revised Canadian Fireball Reporting System*, Robert Hawkes & Damien Lemay, **87**, 140.

*Perseids 1993 — Shower or Storm?*, Peter Brown, B, **3**, 3, 3.

*The 1993 Perseid "Sprinkle"*, David M. F. Chapman, B, **3**, 5, 4.

*The Value of Fireball Reports from the General Public: The October 30, 1993 Western Canada Fireball as a Case Study*, Richard Huziak & Gordon Sarty, **88**, 332.

*Meteor Crater, Nova Scotia*, **89**, 111.

*Brilliant Bolide Blazes Over Beclouded Starfest*, Dave McCarter, B, **5**, 4, 4.

*Meteorite Sparks a Cult*, Pierre M. Bellemare, **90**, 287.

## Methods: Analytical

*On the End-Point Height of Fireballs*, B. A. McIntosh, **64**, 267.

*The Tools to Determine Orbital Parameters*, W. D. Heintz, **67**, 52.

*Remarks on Orbits and Dynamical Parallaxes*, J. Dommanget, **67**, 56.

*Hertzprung's Luminosity-Colour Relation for Visual Binaries*, W. S. Finsen & P. N. J. Wisse, **67**, 58.

*The Observability of Comets*, J. B. Tatum, **69**, 212.

*Graphical Method of Finding the Azimuth of Sunrise and Sunset*, LeRoy A. Woodward, NN, **70**, 7.

*The Ellipticities of the RR Lyrae Star Systems in Globular Clusters*, K. A. Innanen & Geraldine O'Brien, **71**, 47.

*Carl Friedrich Gauss, Astronomer*, Brian G. Marsden, **71**, 309.

*La Magnitude d'un Groupe D'Etoiles*, Ronald Ouellette,

NN, **72**, 18.

*The Visibility of Halley's Comet*, R. P. Broughton, **73**, 24.

*Simulating the Transparent Gravitational Lens*, Charles C. Dyer & Robert C. Roeder, **75**, 227.

*The Calculation of Comet Ephemerides*, Jeremy Tatum, **76**, 157.

*On the Computation of Dynamical Parallaxes*, B. Cameron Reed, **78**, 83.

*Circumstances of the Solar Eclipse of May 30*, Gunther Moller, NN, **78**, 25.

*Now Where Is That Comet? Building a Simple Model of Comet Halley's Orbit*, B. Franklyn Shinn, NN, **79**, 40, 69.

*The Tropical Year and Solar Calendar*, Kazimierz M. Borkowski, **85**, 121.

*A Pulsar's Perplexing Periodic Pulses*, Zdenko A. Saroch, B, **2**, 2, 7.

*Demonstrating Cluster Main-Sequence Fitting to Best Advantage*, David G. Turner, **88**, 176.

*Photographic Determination of the Eccentricity of the Earth's Orbit*, Richard L. Nugent, **89**, 217.

## Methods: Data Analysis

*An Analysis of the Distribution of Redshifts of Quasars and Emission-Line Objects*, R. G. Lake & R. C. Roeder, **66**, 111.

*Automatic Reduction of Radio Astronomical Maps: A Map of the W43 Region at 4.3 cm*, L. A. Higgs, **67**, 123.

*Calculation of the Twilight Visibility Function of Near-Sun Objects*, Sidney O. Kastner, **70**, 153.

*Photoelectric Reduction for the Amateur Astronomer*, D. Welch, **73**, 370.

*The Measurement of Comet Position*, Jeremy B. Tatum, **76**, 97.

*A Simple and Accurate On-Line Data Acquisition Program*, M. Pim FitzGerald & Ian Shelton, **76**, 337.

*Coudé Radial Velocities of  $\zeta$  Herculis*, C. D. Scarfe, H. Funakawa, P. A. Delaney & David J. Barlow, **77**, 126.

*Solar Flare Prognostication by the Empirical-Statistical Approach*, Philip A. Stahl, **77**, 203.

*Finding Cepheid Maxima by Means of a Least-Squares Cubic*, J. Michael Roney & Robert G. McCallum, **77**, 231.

*An Iterative Solution for Stellar Space Densities*, B. Cameron Reed, **79**, 294.

*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.

*A Re-Examination of Mass-Luminosity Relations from Binary-Star Data*, S. C. Griffiths, R. B. Hicks & E. F. Milone, **82**, 1.

*Progress in CCD Photometry*, Peter B. Stetson, **86**, 71.

*North-South Asymmetry of Sunspot Distribution*, Wang Yi, **86**, 89.

*Kinematic Bias in Proper Motion Surveys*, P. C. Dawson, R. G. Johnson & A. J. Rorabeck, **89**, 201.

*Einstein Spectral and Imaging Observations of the Supernova Remnant MSH 14-63*, Denis A. Leahy, **90**, 128.

## Methods: Numerical

- Observational Procedures for Visual Double-Star Work*, Otto G. Franz, **67**, 81.
- Computer Ray Tracing for Amateur Telescopes*, Robert Pike, NN, **69**, 59.
- A Simple Computer Model for the Growth of Light Pollution*, Robert Pike, **70**, 116.
- An Easter Program for the HP 29C*, E. L. R. Webb, **74**, 17.
- Orbital Motion on an Interactive-Graphics Terminal*, Dorothy M. K. Welch & Gary A. Welch, **74**, 23.
- A Model for Collimation of Supersonic Beams in Extragalactic Radio Sources*, A. H. Bridle, K. L. Chan & R. N. Henriksen **75**, 69.
- Some Reflections on the Personal Computer for the Amateur Astronomer*, David Stokes, NN, **77**, 74.
- Letter to the Editor*, W. Jutting, NN, **78**, 21.
- Simulating an Eclipsing Binary Light Curve*, David L. DuPuy & Robert D. Ellis, **79**, 183.
- A Five-Level Program for Ions of Astrophysical Research*, M. M. De Robertis, R. J. Dufour & R. W. Hunt, **81**, 195.
- Wolf — A Computer Expert System for Sunspot Classification and Solar-Flare Prediction*, Richard W. Miller, **82**, 191.
- On the Evolving Role of Computational Astrophysics*, Paul Charbonneau, **86**, 31.
- The Value of Fireball Reports from the General Public: The October 30, 1993 Western Canada Fireball as a Case Study*, Richard Huziak & Gordon Sarty, **88**, 332.
- What is Normal Among the A-Type Stars?*, Grant M. Hill, **88**, 359.
- The Visibility of Galactic Supernovae*, P. C. Dawson & R. G. Johnson, **88**, 369.

## Minor Planets, Asteroids

- The Fireball of April 25, 1966. II, Photographic Observations and Orbit Determination*, A. A. Griffin, **62**, 55.
- On the Angular Momenta of Stars, Planets and Asteroids*, G. G. Fahlman & S. P. S. Anand, **63**, 36, 150.
- Observation of Asteroids*, K. E. Chilton, NN, **65**, 12.
- Interplanetary Material*, Peter M. Millman, **68**, 13.
- Minor Planet Observing*, Doug Welsh, NN, **70**, 12.
- Les Asteroids*, Damien Lemay, NN, **71**, 31.
- Occultation of SAO 85009 by Pallas on May 29, 1978*, John R. Percy, NN, **72**, 10.
- “Problicom” — Threshold to Discovery*, Barry Matthews, NN, **73**, 10.
- In Search of Satellites of Minor Planets*, Paul D. Maley, **74**, 327.
- Solar-System Astronomy in Volumes 1-25 of the Journal of the RASC (1907-1931)*, Ian Halliday, **75**, 299.
- Chasing Asteroids*, Alan Dyer, NN, **75**, 9.
- Photoelectric Photometry of 2 Pallas*, Clifford J. Cunningham, **77**, 121.
- An Occultation by 690 Wratislavia*, Andrew Lowe, NN, **77**, 39.
- The Asteroid Sawyer Hogg*, **78**, 256.
- Asteroids Named for Canadian Astronomers*, Frederic L. Troyer, NN, **78**, 85.
- Two More Minor Planets Named for Canadian*

- Astronomers*, Ian Halliday, **79**, 26.
- Another “Canadian” Minor Planet*, **79**, 188.
- Minor Planet (3023) Heard*, **80**, 58.
- The Aten-Apollo-Amor Close-Approach Minor Planets*, Christopher E. Spratt, **81**, 8.
- More on Minor Planets*, **81**, 63.
- Lost Asteroids Recovered*, NN, **81**, 10.
- On the Naming of Minor Planets*, Christopher E. Spratt, NN, **81**, 28.
- More Minor Planets Named After Canadian Astronomers*, **82**, 33.
- The Trojan Minor Planets*, Christopher E. Spratt, **82**, 204.
- Minor Planet News*, Peter M. Millman, **82**, 301.
- The Naming of Minor Planets*, Peter M. Millman, **82**, 362.
- Minor Planet Toro Approaching Earth*, Chris Spratt, NN, **82**, 48.
- New Canadian Asteroid*, NN, **82**, 60.
- Tit-for-Tat: Another “Canadian” Asteroid*, Jeremy B. Tatum, **83**, 134.
- Minor Planets and the Canadian Connection*, Peter M. Millman, **83**, 329.
- The Hilda Group of Minor Planets*, Christopher E. Spratt, **83**, 393.
- The Hungaria Group of Minor Planets*, Christopher E. Spratt, **84**, 123.
- Minor Planet Index to Scientific Papers*, Clifford Cunningham, **84**, 133.
- Four More Minor Planets with a Canadian Connection*, **84**, 233, 356.
- (4058) Cecilgreen*, **85**, 53.
- Two More Minor Planets with a Canadian Connection*, **85**, 110.
- The Prediction and Discovery of a Martian Trojan Asteroid*, Kimmo A. Innanen, **85**, 151.
- Five More Minor Planets with a Canadian Connection*, **85**, 224.
- Minor Planets With a Canadian Connection*, J. B. Tatum, **85**, 381.
- Minor Planets With a Canadian Connection*, J. B. Tatum, **B**, 2, 3, 2.
- (3307) Athabasca*, **86**, 57.
- Minor Planets With a Canadian Connection*, J. B. Tatum, **86**, 214.
- Occultation pas Pallas*, Alain Roussel, **B**, 1, 3, 8.
- How Astronomer’s Captured an Asteroid*, John Howell, **B**, 1, 4, 4.
- The Discovery of Sprattia*, Jeremy B. Tatum, **B**, 2, 1, 4.
- What the Blinkity-Blink is Going On Here?*, Jeremy B. Tatum, **B**, 2, 6, 5.
- (4719) Burnaby*, Jeremy B. Tatum, **87**, 68.
- The Cretaceous/Tertiary Boundary Impact (or The Dinosaurs Didn’t Have a Chance)*, Alan R. Hildebrand, **87**, 77.
- The Light Curves of the Asteroids (198) Ampella, (481) Erita and (772) Tanete*, Larry Bogan, Russell Robb & D. D. Balam, **88**, 55.
- Simultaneous Images of Asteroids*, **88**, 144.
- (5272) Dickinson*, **88**, 145.
- (5553) Chodas*, **88**, 145.
- (5424) Covington = 1983 TN1*, **88**, 274.
- Endangered Asteroids*, Jeremy Tatum, **B**, 4, 5, 6.

*New Names of Minor Planets*, **89**, 31.  
*More Asteroids With Canadian Connections*, **89**, 70.  
*Asteroid Jedicke*, **89**, 231.  
*Asteroids With Canadian Connections*, **89**, 267.  
*Heard Has Been Seen*, Jeremy Tatum, B, **5**, 4, 7.  
*Twelve Years on the Palomar 18-Inch Schmidt*, Carolyn S. Shoemaker, **90**, 18.  
*Asteroids With Canadian Connections*, Jeremy Tatum, **90**, 237.  
*The “Growing” Kuiper Belt*, **90**, 346.

## Miscellaneous

*Astronomy and Astrophysics at York University*, K. A. Innanen & R. W. Nicholls, **63**, 87.  
*A Decade of Progress*, NN, **64**, 2.  
*The Amateur Astronomer in the 1970's*, R. Terence Dickinson, NN, **64**, 25.  
*News Items*, NN, **64**, 27.  
*What's In a Name?*, Dora Russell, NN, **65**, 13.  
*Astronomical Serendipity*, Kenneth Weitzenhoffer, NN, **65**, 24.  
*Metriation*, NN, **66**, 34.  
*A Few Words About Eastend, Saskatchewan*, NN, **67**, 11.  
*A New Society*, K. D. Abhyankar, NN, **67**, 14.  
*Activities at the Centre: SAM*, NN, **67**, 19.  
*Program Problems — People*, B. F. Shinn, NN, **69**, 4.  
*Murphy's Laws*, NN, **69**, 31.  
*Astronomy Downdate*, J. Winzer, NN, **69**, 41.  
*L'Envoi, The Stars Are Free*, Dora Russell, NN, **70**, 16.  
*Is an Ellipse a Conic Section?*, J. B. Tatum, NN, **70**, 38.  
*The Temiskaming Astronomical Society*, Peter Ryback & Dalton Farrow, NN, **70**, 66.  
*Stars and Pseudostars*, Roy L. Bishop, NN, **70**, 77.  
*Let Us Now Praise Famous Men*, Frank Shinn, NN, **70**, 80.  
*Skies Over Labrador*, Dora Russell, NN, **70**, 82.  
*Welcome!*, NN, **71**, 2.  
*Lands — End*, Ken Pilon, NN, **71**, 19.  
*New Venezuelan Astronomical Society*, NN, **71**, 57.  
*Astronomy Downdate*, Jack Winzer, NN, **71**, 66.  
*Nova S-1, A Black Hole Confirmed*, Roy L. Bishop, NN, **71**, 68.  
*La Société D'Astronomie de Montréal*, NN, **72**, 7.  
*The Indefatigable Amateur*, NN, **72**, 14.  
*The Frustrated Amateur*, Dora Russell, NN, **72**, 43.  
*The Armchair Astronomer*, K. J. O'Brien, NN, **72**, 44.  
*Processing Service for GAF Film*, Chris Spratt, NN, **72**, 64.  
*Report on the Temiskaming Astronomical Society*, Peter R. Ryback, NN, **72**, 84.  
*The Joys of Country Living*, Jody Le Blanc, NN, **73**, 79.  
*Duty Free Astronomical Equipment???*, Peter Jedicke, NN, **73**, 88.  
*Does Anybody Know ... ?*, NN, **74**, 4.  
*What Can an Amateur Do?*, Dennis Ryan, NN, **74**, 47.  
*Looking Downwards: Sociological Images of the Vocation and Avocation of Astronomy*, Robert A. Stebbins, **75**, 2.  
*Quelques Travaux en Astrophysique Théorique au Canada*, Georges Michaud, **75**, 289.  
*Tucson Report*, David Levy, NN, **75**, 11.  
*Thank You, Dr. Hogg*, Ian G. McGregor, NN, **75**, 20.  
*Telescope Tariff Changed*, NN, **75**, 28.

*The Revisionists's Corner*, NN, **75**, 53.  
*Management and the Amateur Astronomical Society*, R. J. Livesey, NN, **75**, 63.  
*Amateur Astronomy Survey: A Bulletin from The Astronomical League*, NN, **76**, 6.  
*Astronomy in New Zealand*, Don Hladiuk, NN, **76**, 9.  
*A Meeting With Dr. Bart Bok*, Alister Ling, NN, **76**, 12.  
*Neutron Star*, Peter Jedicke, NN, **76**, 13.  
*Toronto Star Does It Again*, B. Ralph Chou, NN, **76**, 47.  
*Astronomy Marches Onward*, Steven Morris, NN, **76**, 48, 74.  
*The Revisionist's Corner*, NN, **76**, 77.  
*Amateurs Affiliate with Professionals*, Ian G. McGregor, NN, **77**, 21.  
*Canadian Astronomy News*, Ian G. McGregor, NN, **77**, 31.  
*Ten Laws of Astrophotography*, Clive Gibbons, NN, **77**, 35.  
*The Joy of Gazing Now Available*, J. W. S. Marshall, NN, **77**, 48.  
*Amateur Astronomy in Hong Kong*, Josephine Chan, NN, **77**, 59.  
*The Sudbury Astronomy Club*, David Turner, NN, **77**, 61.  
*Downsview Astronomy Club*, Neil Meirovich, NN, **77**, 62.  
*Notes of Interest*, NN, **77**, 84.  
*Revisionist's Corner*, NN, **77**, 89.  
*Publication by Canadian Astronomers*, Sidney van den Bergh, **78**, 97.  
*Astronomy Intrigues “Bufs” on Vancouver Island*, Franklyn Shinn, NN, **78**, 3.  
*An Astronomy and Space Science Report from the USSR*, Ken McBride, NN, **78**, 36.  
*Astronomy in Canada*, Steven Morris, NN, **78**, 37.  
*Notes From Abroad*, B. R. Chou, NN, **78**, 45.  
*Telescopes and Canada Customs*, NN, **78**, 48.  
*Bart Bok Memorial Fund*, NN, **78**, 56.  
*Amateur to Professional*, Ian McGregor, NN, **78**, 63.  
*A Future Centre?*, Raymond Auclair, NN, **78**, 78.  
*L'Astronomie sur L'Ille Royale*, NN, **78**, 79.  
*Topical Astronomy*, Pat Kelly, NN, **78**, 79.  
*Stop the Press ... and Rockets!*, NN, **78**, 93.  
*Decalogue for Stargazers*, John Sanford, NN, **79**, 46.  
*Hello Canada!*, Greg Beach, NN, **79**, 61.  
*The Webb Society*, NN, **79**, 62.  
*Our Dr. Helen Hogg Remarries*, NN, **80**, 4.  
*Collecting Stamps on Comet Halley*, Andrew Yee, NN, **80**, 29.  
*The Road to the Stars*, Ron Galna, NN, **80**, 48.  
*Hi-Tech Council Includes Astronaut*, NN, **80**, 59.  
*My First Year*, Roderick Murray, NN, **80**, 61.  
*Ways to End an Organization*, NN, **80**, 63.  
*Amateur Builds Remarkable Star Globes*, F. Graham Millar, NN, **80**, 68.  
*Brasilian Amateurs Invite Canadian Contact*, NN, **80**, 88.  
*Astronomy (and Some Other Things) in China*, Alan H. Batten, **81**, 147.  
*Star Dome in Mississauga*, NN, **81**, 4.  
*News from the ASP*, NN, **81**, 29.  
*Forty Years of Observing Trends*, Paul Comision, NN, **81**, 79.  
*The White Mountain*, Mary Anne Harrington, NN, **81**, 86.  
*Nouvelles de la SAM*, Marc Gelin, NNB, **82**, 43.  
*Other Worlds*, Len Larkin, NN, **82**, 45.

*First Soviet Spacecraft Models*, NN, **82**, 47.  
*Writing for a Newsletter*, Tom Torrance, NN, **82**, 61.  
*Tariffs on Telescopes, Parts and Accessories*, NN, **82**, 74.  
*Intimidated*, Dennis Ryan, NN, **82**, 77.  
*Starry, Starry Skies*, Stefan Carter, NN, **82**, 93.  
*A Down-to-Earth Put-Down*, Patrick Cosgrove, NNB, **83**, 13.  
*A Tour of Soviet Astronomy, and Hospitals?*, Raymond Auclair, NNB, **83**, 31.  
*J'ai Mon Voyage*, Raymond Auclair, NNB, **83**, 43.  
*The Increasing Importance of Amateur Contributions to Astronomy*, Winston Stairs, NNB, **83**, 50.  
*The Maple Grove Astronomy Club*, Robert MacConnell, NNB, **83**, 62.  
*Naturalists of the Night — The Amateur Astronomers*, Terence Dickinson, **84**, 304.  
*Recherches Astronomiques: Peines et Félicités*, René Racine, **84**, 324.  
*Sundial Society in Formation*, J. E. Kennedy, NNB, **84**, 29.  
*Looking for A Penpal*, Alister Ling, NNB, **84**, 32.  
*L'Astronomie au Canada Français*, Marc A. Gélinas, NNB, **84**, 54.  
*Le Financement de la Recherche en Astronomie au Canada*, Georges Michaud, **85**, 79.  
*Ramblings of an Armchair Astronomer*, Jim Low, B, **1**, 3, 7.  
*Major US Research University Discovers New Element!!*, B, **1**, 4, 5.  
*L'Astronomie en Couleur*, Marc A. Gélinas, B, **1**, 4, 6.  
*A Call for More Scientific Truth in Product Warning Labels*, Susan Hewitt & Edward Subitsky, B, **1**, 5, 1.  
*Escher's Stars*, Martin Beech, **86**, 169.  
*Assurer L'Appui de L'Astronomie*, René Racine, **86**, 300.  
*L'Astronomie sur Une Étoffe*, Marc A. Gélinas, B, **2**, 1, 4.  
*Surprise*, Lucian J. Kemble, B, **2**, 2, 3.  
*Canadian Astronomer in Disgrace*, Walter MacDonald, B, **2**, 2, 5.  
*Le Mort de L'URSS et Celle de L'Astrologie?*, Jean-Pierre Urbain, B, **2**, 3, 3.  
*A Cure for Mosquitos!*, Bill Broderick, B, **2**, 3, 8.  
*The Many-Body Problem*, Micheal Attas, B, **2**, 4, 5.  
*Heavenly Harkenings*, Ricardo Chong, B, **2**, 5, 5.  
*A Survey of the Attitudes of University Students to Astrology and Astronomy*, M. M. De Robertis & P. A. Delaney, **87**, 34.  
*Le Futur de L'Astronomie Amateur*, Damien Lemay, **87**, 244.  
*Du RLR à la MSF: 75 Ans D'Horizons Mouvants*, René Racine, **87**, 357.  
*Planetary Citizen, A Reminiscence of the Space Age*, James G. Laframboise, **87**, 389.  
*An Ocean of Stars*, Jeremy Tatum, B, **3**, 4, 5.  
*Just for Laughs: Deep Sky Observers*, Randy Pakan, B, **3**, 4, 7.  
*A Plan for the Improvement of English Spelling*, Mark Twain, B, **3**, 4, 12.  
*Unfair Criticism*, Alister Ling, B, **3**, 5, 5.  
*An Astronomer's Christmas*, Bill Broderick, B, **3**, 6, 10.  
*You Know ...*, Doug Pitcairn, B, **3**, 6, 11.  
*Astronomy in the Third World*, Alan H. Batten, **88**, 163.  
*How I Discovered Astronomy*, Bert Huneault, B, **4**, 4, 5.  
*T'was the Night Before Christmas*, Mark Chartrand, B, **4**, 5,

8.  
*Found Poem*, Jannen Werner-King, B, **4**, 5, 8.  
*Musical Stars*, Bruce McCurdy, B, **5**, 1, 7.  
*Burke's Blunders*, Dan Collier, B, **5**, 2, 8.  
*Shakespeare Was No Astronomer*, Rob Roy, B, **5**, 5, 4.  
*RASC to Be Privatized*, Guy Nason, B, **6**, 1, 3.  
*Galileo on Stage*, B, **6**, 3, 2.  
*Astronomical Amalgamation*, Patrick Kelly, B, **6**, 5/6, 5.

## Molecular Processes

*Molecule Formation in Dense Interstellar Clouds*, W. W. Duley, **64**, 331.  
*A Method of Forming Complex Molecules in Interstellar Space*, G. R. Floyd, R. H. Prince & W. W. Duley, **67**, 299.  
*Interstellar Molecules — A Review of Recent Developments*, B. E. Turner, **68**, 55.  
*A Study of the Velocity Pattern of Maser Emission from Infrared Stars*, Sun Kwok, **70**, 49.  
*On the Diatomic and Triatomic Hydrogen Molecules in the Planetary Nebula NGC 7027*, Grant Gussie & Chris Pritchett, **82**, 69.

## Montréal Centre

*General Assembly at Montreal, May 19-21, 1967*, **61**, 147.  
*What a Gorgeous Eclipse!*, Tom Tothill, NN, **64**, 11.  
*Observatory for Montreal Centre*, NN, **66**, 10.  
*How to Find the Montreal Centre Observatory*, NN, **67**, 7.  
*Activities in Montreal*, John Allcock, NN, **67**, 10.  
*Activities of the Centre: Montreal*, Constantine Papacosmas, NN, **67**, 24.  
*Nouvelles des Centres Québécois*, Damien Lemay, NN, **74**, 25, 40.  
*Nouvelles des Centres Québécois*, Damien Lemay, NN, **75**, 4.  
*Nouvelles des Centres Français*, Damien Lemay, NN, **75**, 44.  
*Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.  
*Centres Arrange Summer Observing Sessions*, Peter Jedicke, NN, **76**, 74.  
*Centre News*, Peter Jedicke, NN, **77**, 10.  
*Winter Activities of RASC Centres*, Peter Jedicke, NN, **77**, 20.  
*Across the RASC*, Peter Jedicke, NN, **77**, 37.  
*The Joy of Gazing Now Available*, J. W. S. Marshall, NN, **77**, 48.  
*Planetariums Commemorate Pioneer 10*, Ian McGregor, NN, **77**, 57.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*Across the RASC*, Peter Jedicke, NN, **78**, 42, 73.  
*Times Past: A Look at Earlier Days of the Montreal Centre's Observatory*, David H. Levy, NN, **79**, 13.  
*Across the RASC*, NN, **79**, 30.  
*A Successful Astronomy Day*, NN, **79**, 56.  
*Across the RASC*, NN, **79**, 57, 75.  
*Across the RASC*, NN, **80**, 11, 26, 44, 52, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 24, 42, 61, 84.  
*Across the RASC*, NN, **82**, 9, 27, 38, 83.  
*Some Thoughts on Montreal Centre's 70<sup>th</sup> Anniversary*,

Louis Bernstein, NNB, **83**, 4.  
*Across the RASC*, NNB, **83**, 15, 25.  
*A Tour of Soviet Astronomy, and Hospitals?*, Raymond Auclair, NNB, **83**, 31.  
*J'ai Mon Voyage*, Raymond Auclair, NNB, **83**, 43.  
*Astronomy Day Report (1): March 13, 1989*, Mario Caluori, NNB, **83**, 52.  
*Across the RASC*, NNB, **83**, 90.  
*Across the RASC*, NNB, **84**, 4, 20, 36, 60.  
*Astronomy Day 1990 at the Montréal Centre*, Mario Caluori, B, **1**, 1, 3.  
*Astronomy Day in Six Cities*, Steve Dodson, B, **1**, 4, 3.  
*Astronomy Day in Montreal*, Mario Caluori, B, **1**, 4, 7.  
*Astronomy Day Reports*, B, **2**, 4, 3.  
*Centre Reports*, Louie Bernstein, B, **3**, 2, 11.  
*National and Centre Councils for 1993*, B, **3**, 2, 27.  
*Centre Finances*, B, **3**, 2, 30.  
*Centre Reports*, Dominique Mackenzie, B, **4**, 2, 13.  
*National and Centre Councils for 1994*, B, **4**, 2, 31.  
*Centre Finances*, B, **4**, 2, 34.  
*Centre Reports*, Carole Talbot, B, **5**, 2, 9.  
*National and Centre Councils for 1995*, B, **5**, 2, 23.  
*Centre Finances*, B, **5**, 2, 26.  
*National Astronomy Day 1995*, Sandy Ferguson, B, **5**, 3, 7.  
*Centre Reports*, Carole Talbot, B, **6**, 2, 11.  
*National and Centre Councils for 1996*, B, **6**, 2, 27.  
*Centre Finances*, B, **6**, 2, 30.

## Moon

*Impact Craters of the Earth and Moon*, C. S. Beals & Ian Halliday, **61**, 295.  
*A Closer Look at the Moon*, Ian Halliday, **62**, 39.  
*Observation à Montréal à L'Occasion de L'Arrivée du Surveyor 5 sur la Lune*, Pierrette Jean, **62**, 43.  
*The Optical Projection of Solar and Lunar Objects on a Modified Translucent Viewing Screen*, Donovan H. Fallows, **62**, 259.  
*Grazing and Total Lunar Occultations for the Amateur Astronomer*, J. Howell, **63**, 140.  
*Transient Lunar Phenomena*, K. E. Chilton, **63**, 203.  
*The Position of the Moon*, J. S. Griffith, **64**, 5.  
*Canadian Craters on the Moon*, Peter M. Millman, **64**, 375.  
*Lunar Occultations*, Edward Kipp, NN, **64**, 19.  
*Lunar Occultations: Recent Developments*, F. John Howell, NN, **64**, 20.  
*More on Lunar Occultations*, NN, **64**, 26.  
*Double Graze, June 1970*, Dora Russell, NN, **64**, 26.  
*Canadians and Meteorites on the Moon*, Peter M. Millman, **65**, 85.  
*Motion Picture Photography Through the Telescope*, Robert J. Wood, **65**, 239.  
*The Last Men on the Moon*, Terence Dickinson, NN, **65**, 17.  
*Grazing Occultations*, David W. Dunham, NN, **65**, 19.  
*Occultation Highlights, October-December 1971*, David W. Dunham, NN, **65**, 21.  
*Grazing Occultations Over Canada During 1972*, L. V. Morrison, **66**, 56.  
*Kepler's Dream*, A. Vibert Douglas, **66**, 59.  
*Observational Procedures for Visual Double-Star Work*, Otto G. Franz, **67**, 81.

*A Note on the Periodicity of Eclipses*, Charles H. Smiley, **69**, 133.  
*On the Age of Mare Orientale*, C. S. Beals & R. W. Tanner, **69**, 299.  
*Observing Lunar Occultations*, David Brown, NN, **69**, 23.  
*The Eclipse at Jarnac Pond*, David H. Levy, NN, **69**, 39.  
*Total Lunar Eclipse*, Doris L. Cooper, NN, **70**, 81.  
*Lunar Occultations*, David Brown, NN, **71**, 28.  
*Early Morning Graze of Venus, May 14*, B. Franklyn Shinn, NN, **71**, 37.  
*Events Interpreted as Volcanic, Associated With the Impact Craters Gagarin and Aitken on the Lunar Farside*, C. S. Beals & R. W. Tanner, **72**, 3.  
*Photoelectric Observations of Lunar Occultations at the DAO*, C. L. Morbey, J. M. Fletcher & G. Edwards, **72**, 305.  
*Total Penumbral Lunar Eclipses*, Jean Meeus, **74**, 291.  
*Royal Greenwich Observatory Forced to Discontinue Lunar Occultation Work*, NN, **74**, 24.  
*How I Saw a Grazing Occultation From My Backyard (Despite Doing Everything Wrong)*, Alan Whitman, NN, **74**, 37.  
*Occultation Observers, Extinct or in the Closet?*, Neil Laffra, NN, **74**, 38.  
*What is Happening on the Moon? Lunar Transient Phenomena*, C. Rutkowski, **75**, 237.  
*The Moon's Better Half*, Clive Gibbons, NN, **75**, 14.  
*Why Would David Call Me Late at Night?*, Peter Jedicke, NN, **75**, 39.  
*Lunar Eclipse of July 16-17*, Bruce Barnes, NN, **75**, 71.  
*Earliest Global Visibility of the New Moon 1981-85*, M. Ilyas, **76**, 371.  
*Sketching Hevel*, Maritta Ellis, NN, **76**, 31.  
*July Lunar Eclipse*, NN, **76**, 47.  
*The Lunar Eclipse From Flagstaff*, James Morton, NN, **76**, 59.  
*July's Long Total Lunar Eclipse*, Deane D. McIntyre, NN, **76**, 61.  
*Report on Two Graze Expeditions*, Brian Burke, NN, **76**, 70.  
*The Danjon Limit of Lunar Visibility: A Re-Examination*, Mohammad Ilyas, **77**, 214.  
*Sol-Lunar Forces and Tides*, B. Franklyn Shinn, NN, **77**, 11.  
*The Lunar Eclipse — A Different View*, Richard Linkletter, NN, **77**, 24.  
*El Chichon and the Umbra*, Richard Linkletter, NN, **77**, 24.  
*Sol-Lunar Forces and Tides — Part 2*, B. Franklyn Shinn, NN, **77**, 25.  
*Eclipse!*, Walter MacDonald, NN, **77**, 40.  
*The Moon by Eye and Film*, Jillian Buriak & John Hicks, NN, **77**, 44.  
*Astronomical Observations in the Anglo-Saxon Chronicle*, Owen Brazell, NN, **78**, 56.  
*Lunar Calendars: The Mission Date-Lines*, Mohammad Ilyas, **80**, 328.  
*Two Eclipses Visible from a Geostationary Weather Satellite*, Jay Anderson, **81**, 83.  
*Digitizing the Moon*, John Dekker, NN, **81**, 37.  
*Eyewitness Report: Spica Snuffed for 53 Minutes*, Mark Zalcik, NN, **81**, 48.

*Crescent Moon Shines Shyly On Moonwatchers*, NNB, **83**, 7.  
*New World Record for Youngest Naked-Eye Crescent Moon Sighting*, Mohibullah N. Durrani, NNB, **83**, 34.  
*News Reaches the Colony*, Ed Kennedy, B, **1**, 5, 8.  
*The Small Moon Illusion*, Alister Ling, B, **2**, 2, 5.  
*Lessons from a Partial Solar Eclipse*, Todd Lohvinenko, B, **3**, 4, 4.  
*The Earth-Moon System as Seen From Venus*, B, **3**, 6, 1.  
*Simultaneous Lunar Occultations of Two Planets*, Michael S. F. Watson, **88**, 213, 405.  
*Too Close for Comfort*, John Percy, B, **4**, 1, 2.  
*A Polar Expedition of a Different Kind*, Russ Sampson, B, **4**, 3, 4.  
*The Eclipse of Nicias*, Philip Mozel, **89**, 11.  
*Conjunctions of a Totally Eclipsed Moon With Bright Stars and Planets*, Joe Rao, **90**, 216.  
*Total Lunar Eclipse: April 3<sup>rd</sup> 1996*, B, **6**, 1, 7.

### National Research Council of Canada

*The I. G. C. (1966) Visual Meteor Program — Progress Report No. 12*, Peter M. Millman, **61**, 151.  
*The Development of Solar Microwave Radio Astronomy in Canada*, A. E. Covington, **61**, 314.  
*The I. G. C. (1967) Visual Meteor Program — Progress Report No. 13*, Peter M. Millman, **62**, 387.  
*The Meeting of the National Committee for Canada of the IAU at Ottawa, October 4-6, 1968*, Ian Halliday, **63**, 93.  
*The Leonids — 1969*, Peter M. Millman, **64**, 55.  
*Canadian Astronomy: Manpower Supply and Demand*, **64**, 315.  
*Meteor Observations Continue in Ottawa*, Ken Hewitt-White, NN, **64**, 22.  
*The Meeting of the National Committee for Canada of the IAU at Ottawa, Ontario, October 23, 1970*, V. Gaizauskas, **65**, 44.  
*The Meeting of the National Research Council Associate Committee on Astronomy at Victoria, May 13-15, 1971*, **65**, 169.  
*Founding Meeting of the Canadian Astronomical Society, La Societe Astronomique du Canada, at Victoria, May 15, 1971*, G. A. H. Walker, **65**, 170.  
*The Meeting of the National Research Council Associate Committee on Astronomy at Toronto, November 11-13, 1971*, G. A. H. Walker, **66**, 63.  
*The Meeting of the National Research Council Associate Committee on Astronomy*, G. A. H. Walker, **66**, 213.  
*Airborne Observations of the 1972 Giacobinids*, Peter M. Millman, **67**, 35.  
*The Canada-France-Hawaii Telescope*, J. L. Locke, **67**, 203.  
*About the New Telescope*, NN, **67**, 14.  
*University of Toronto Staff Build 60 Foot Radio Telescope*, NN, **68**, 15.  
*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **72**, 114, 339.  
*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **73**, 150.  
*Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.

*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **73**, 311.  
*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **74**, 27.  
*Sundial Made From a Microwave Antenna Honours Canada's Pioneer Radio Astronomer*, V. Gaizauskas, S. Gerylo & J. D. Moore, **74**, 174.  
*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **74**, 178.  
*Meeting of the NRC Associate Committee on Astronomy*, Alan H. Batten, **75**, 113.  
*Twenty-First Meeting of the NRC Associate Committee on Astronomy*, A. H. Batten, **75**, 259.  
*Twenty-Second Meeting of the NRC Associate Committee on Astronomy*, L. W. Avery, **76**, 139.  
*Twenty-Third Meeting of the NRC Associate Committee on Astronomy*, A. H. Batten, **76**, 327.  
*Twenty-Fourth Meeting of the NRC Associate Committee on Astronomy*, Ian Halliday, **77**, 55.  
*Sounding Rocket Research in Canada*, Kenneth Pilon, NN, **79**, 6.  
*Algonquin Radio Observatory to Close*, NN, **81**, 7.  
*NRC to Link With Hubble Space Telescope*, NNB, **84**, 44.

### News Briefs (see also News Notes)

*Astronomical Antiques Wanted*, NN, **68**, 30.  
*Toronto Centre Plans Major Observing Programme*, Robert Pike, NN, **68**, 30.  
*Light Pollution Programme*, Richard Berry, NN, **68**, 31.  
*Eclipse Book*, NN, **68**, 32.  
*A Large Mirror for Vancouver*, NN, **69**, 15.  
*An Appeal for Observational Assistance*, K. E. Chilton, NN, **69**, 16.  
*Sunspots and Agriculture*, D. P. Hube, NN, **69**, 16.  
*Recent Results of Research in Astronomy*, Doug Hube, NN, **69**, 16.  
*Astronomy for Campers, 1975*, NN, **69**, 27.  
*Honorary Degree Given to Dr. A. W. Currie*, NN, **69**, 43.  
*Solar Eclipse — S. E. Australia — 23 October 1976: October Average Weather Summary Along the Eclipse Path*, D. J. Linforth, NN, **69**, 43.  
*New RASC Insignia Crests Available*, NN, **69**, 55.  
*Smog and Telescope*, NN, **69**, 55.  
*Member Wins Canada-Wide Science Fair*, NN, **69**, 55.  
*News Briefs*, NN, **76**, 4.

### News Notes (see also News Briefs)

*News Notes*, NN, **64**, 32.  
*News Notes*, NN, **65**, 12.  
*News Notes*, NN, **78**, 4.

### Niagara Centre

*NFCAA Meets at Niagara Falls*, Robert Jedicke, NN, **75**, 7.  
*Astronomy Day 1981*, NN, **75**, 52.  
*Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.  
*Centre News*, Peter Jedicke, NN, **77**, 10.  
*Across the RASC*, Peter Jedicke, NN, **77**, 37.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*Across the RASC*, Peter Jedicke, NN, **78**, 24.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**,

59.

- Members Gather for an Enjoyable Assembly*, Betty Robinson, NN, **78**, 66.  
*Across the RASC*, Peter Jedicke, NN, **78**, 73.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 89.  
*Across the RASC*, NN, **79**, 11, 30, 43.  
*A Successful Astronomy Day*, NN, **79**, 56.  
*Across the RASC*, **79**, NN, 57, 75.  
*Across the RASC*, **80**, NN, 11, 26, 52, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 24, 42, 61, 68, 84.  
*Across the RASC*, NN, **82**, 9, 27, 38, 53, 83.  
*Across the RASC*, NNB, **83**, 15, 25, 37, 90.  
*Across the RASC*, NNB, **84**, 4, 20, 36, 60, 90.  
*Centre Reports*, Walter Jutting, B, **3**, 2, 12.  
*National and Centre Councils for 1993*, B, **3**, 2, 27.  
*Centre Finances*, B, **3**, 2, 30.  
*Centre Reports*, Ron Gasbarini, B, **4**, 2, 14.  
*National and Centre Councils for 1994*, B, **4**, 2, 31.  
*Centre Finances*, B, **4**, 2, 34.  
*Centre Reports*, Ron Gasbarini, B, **5**, 2, 9.  
*National and Centre Councils for 1995*, B, **5**, 2, 23.  
*Centre Finances*, B, **5**, 2, 26.  
*Centre Reports*, Ron Gasbarini, B, **6**, 2, 12.  
*National and Centre Councils for 1995*, B, **6**, 2, 27.  
*Centre Finances*, B, **6**, 2, 30.

#### Notes (see also From the Past)

- Gold Medal of the R. A. S. C.*, Ruth J. Northcott, **61**, 100.  
*Gold Medal of the RASC*, Ruth J. Northcott, **61**, 388.  
*RASC Award to Exhibitor at Canada-Wide Science Fair*, **61**, 389.  
*RASC Observational Activities*, **61**, 390.  
*Observation à Montréal à L'Occasion de L'Arrivée du Surveyor 5 sur la Lune*, Pierrette Jean, **62**, 43.  
*Ten Highlights of Astronomy, October 1966 - October 1967*, Owen Gingerich, **62**, 83.  
*Carl Zeiss — A Prominent Name in Optics*, Ruth J. Northcott, **62**, 84.  
*Facilities for Visitors at KPNO and CTIO*, N. U. Mayall, **62**, 85.  
*A Sun-Dial at EXPO '67*, Malcolm M. Thomson, **62**, 90.  
*A Control Console for the Dunlap 74-Inch Telescope*, John F. Heard & Frank Hawker, **62**, 91.  
*Centennial Reprint*, Ruth J. Northcott, **62**, 92.  
*The International Union of Amateur Astronomers*, K. E. Chilton, **62**, 132.  
*Service Awards Recipients*, Ruth J. Northcott, **62**, 258.  
*The Queen Elizabeth II Telescope*, G. J. Odgers & K. O. Wright, **62**, 392.  
*Sites for Optical Telescopes*, N. U. Mayall, **63**, 46.  
*RASC Gold Medal Presented to Peter Martin*, Ruth J. Northcott, **63**, 46.  
*Wishful Thinking*, Wade Wellman, **63**, 47.  
*Space Report*, Peter M. Millman, **63**, 149.  
*Notes*, John R. Percy, **63**, 219.  
*Ruth Northcott Memorial Fund*, **63**, 269.  
*Russel Porter and the Canadian North*, Ian Halliday, **63**, 269.

- The R. M. Petrie Lectures*, V. Gaizauskas, **63**, 318.  
*New University of Western Ontario Observatory Opened*, William Wehlau, **63**, 318.  
*The Future of the Planetarium*, Larry Gilchrist, **64**, 64.  
*Twinkling Galaxy?*, **64**, 65.  
*International Conference on Laboratory Astrophysics and Opening of the Petrie Science Building, York University, Toronto, November 7-9, 1969*, R. W. Nicholls, **64**, 66.  
*International Solar Flash-Spectrum Experiment*, **64**, 201.  
*RASC Award to Exhibitor at Canada-Wide Science Fair*, **64**, 324.  
*Dynamical Astronomy at Texas*, J. S. Griffiths, **64**, 325.  
*Canadian Craters on the Moon*, Peter M. Millman, **64**, 375.  
*History of Astronomy at the IAU, 1970*, A. Vibert Douglas, **65**, 39.  
*Conference on Education and History of Astronomy*, **65**, 134.  
*Observatory to be Named for RASC Member*, **65**, 134.  
*Rumford Award Made to Canadian Radio Astronomer*, **65**, 187.  
*RASC Award to Exhibitor at Canada-Wide Science Fair*, **65**, 188.  
*Gerhard Hertzberg Awarded Nobel Prize*, **65**, 301.  
*Canada Adopts Atomic Time*, Malcolm M. Thomson, **65**, 302.  
*New Planetarium Journal*, **66**, 226.  
*A Tribute to Simon Newcomb — July 9, 1972*, Peter M. Millman, **66**, 277.  
*Cress Solar Eclipse Expedition*, R. W. Nicholls, **66**, 278.  
*Employment in Astronomy*, **66**, 279.  
*A Major Optical Telescope for Canada*, K. O. Wright, **66**, 317.  
*Anniversary of Copernicus*, **66**, 321.  
*Jānis Arvids Bertolds Zariņš, 1908-1972*, Marie Fidler, **67**, 39.  
*Harlow Shapley and Copernicus*, Helen Sawyer Hogg, **67**, 39.  
*A Note on Copernicus' Instruments*, R. W. Tanner, **67**, 40.  
*Award of the 1972 Gold Medal*, **67**, 100.  
*The Canada-France-Hawaii Telescope*, J. L. Locke, **67**, 203.  
*National Officers and Council for 1973*, **67**, 204.  
*New Honorary Members of the Society*, **67**, 320.  
*Journal Now Available on Microfilm*, **67**, 322.  
*Annual Meeting — Meteoritical Society*, J. E. Kennedy & M. R. Dence, **68**, 41.  
*New Director of Royal Greenwich Observatory*, J. E. Kennedy, **68**, 42.  
*Planetarium Educators to Meet in October*, **68**, 43.  
*Presentation of Canadian Spectrograph to Polish Observatory*, **68**, 268.  
*Historic 15-Inch Refractor Removed from Dome in Ottawa*, **68**, 272.  
*Planetarium Programs*, **68**, 274.  
*C. W. Lake Prize in Astronomy*, J. E. Kennedy, **69**, 44.  
*Progress on the CFHT 3.6 m Mirror at the DAO*, K. O. Wright, **69**, 46.  
*Sir Martin Ryle Co-Winner of Nobel Prize*, **69**, 95.  
*Leo Goldberg New Honorary Member of the Society*, **69**, 96.

- Royal Observatory, Greenwich*, A. Vibert Douglas, **69**, 140.  
*David Dunlap Observatory Forty Years Old*, John F. Heard, **69**, 141.  
*Hertzberg Institute of Astrophysics Formed*, **69**, 144.  
*Reduced Subscription Rate to RASC Members*, **69**, 195.  
*Engineering Heritage and the Dominion Observatory*, A. E. Covington, **70**, 194.  
*History of Astronomy (IAU Commission 41)*, A. Vibert Douglas, **71**, 56.  
*Canada's Prime Meridian*, Malcolm M. Thomson & Richard W. Tanner, **71**, 204.  
*Aristotle and Averted Vision*, A. A. Barrett, **71**, 327.  
*The 40th Annual Meeting of the Meteoritical Society in Cambridge, England, July 24-29, 1977*, Peter M. Millman, **72**, 49.  
*XV International Congress of the History of Science*, A. Vibert Douglas, **72**, 108.  
*A Possible Historical Association Between a Dolland Telescope and Early Scientific Surveys in Canada*, Arthur E. Covington, **72**, 111.  
*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **72**, 114.  
*The 41st Annual Meeting of the Meteoritical Society in Sudbury, Ontario, August 14-17, 1978*, Peter M. Millman, **72**, 336.  
*Black Holes Over Fifty Years Ago*, H. L. Armstrong, **72**, 338.  
*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **72**, 339.  
*Two Centuries of Black Holes*, J. N. Clarke & C. C. Dyer, **73**, 150.  
*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **73**, 150, 311.  
*How Sure Are We?*, H. L. Armstrong, **73**, 313.  
*Flamsteed's 3 Cas = AR Cas + SAO 35386*, R. P. Broughton, **73**, 381.  
*History of Astronomy*, A. Vibert Douglas, **73**, 383.  
*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **74**, 27.  
*The View of Science in the Magazine OMNI*, Katherine E. Hill, **74**, 28.  
*The Simon Newcomb Award*, L. A. Higgs, **74**, 31.  
*Opening of the Canada-France-Hawaii Telescope*, Don Fernie, **74**, 101.  
*Sundial Made From a Microwave Antenna Honours Canada's Pioneer Radio Astronomer*, V. Gaizauskas, S. Gerylo & J. D. Moore, **74**, 174.  
*Meeting of the NRC Associate Committee on Astronomy*, L. A. Higgs, **74**, 178.  
*The Total Solar Eclipse of February 16, 1980*, Sidney van den Bergh, **74**, 238.  
*Exploring the Universe, A Syndicated Weekly Astronomy Column*, Andrew Fraknoi, **74**, 240.  
*IAPPP, A New Forum for Amateur-Professional Co-Operation*, L. A. Higgs, **74**, 297.  
*Canadian Astronomer Honoured in Czechoslovakia*, Ian Halliday, **75**, 60.  
*International Conference on the History and Philosophy of Science*, A. Vibert Douglas, **75**, 63.  
*Meeting of the NRC Associate Committee on Astronomy*, Alan H. Batten, **75**, 113.  
*How Far Away Are the Hyades?*, Alan H. Batten, **75**, 152.  
*New Honorary Member of the RASC*, Ian Halliday, **75**, 152.  
*The Masses of the Stars*, Alan H. Batten, **75**, 215.  
*Twenty-First Meeting of the NRC Associate Committee on Astronomy*, A. H. Batten, **75**, 259.  
*Symbiotic Stars*, Sun Kwok, **76**, 59.  
*Twenty-Second Meeting of the NRC Associate Committee on Astronomy*, L. W. Avery, **76**, 139.  
*The Fifth Kingston Meeting on Theoretical Astrophysics*, W. Y. Chau, **76**, 140.  
*I Don't Know!*, L. H. Greenberg, **76**, 207.  
*The Second STARLAB Joint Science Working Group Meeting*, Christopher Aikman, David Crampton & James E. Hesser, **76**, 209.  
*The Saros Period and Halley's Comet*, A. H. Batten, **76**, 258.  
*L'Astronomie*, **76**, 259.  
*Twenty-Third Meeting of the NRC Associate Committee on Astronomy*, A. H. Batten, **76**, 327.  
*Swift and the Satellites of Mars*, H. L. Armstrong, **77**, 54.  
*Twenty-Fourth Meeting of the NRC Associate Committee on Astronomy*, Ian Halliday, **77**, 55.  
*The Barr Effect*, A. H. Batten, **77**, 95.  
*Dr. J. A. Pearce*, **77**, 97.  
*Ralph E. Williamson — An Appreciation*, Arthur E. Covington, **77**, 97.  
*The Cabinet Cyclopaedia*, J. E. Kennedy, **77**, 153.  
*The Evening of January 27, 1910*, Ami S. Myrdal, **77**, 221.  
*The Genius of Pixilated Point*, Michael W. Ovenden, **77**, 221.  
*Agreement Between IAU and IUAA*, **77**, 222.  
*Amateur Astronomy in the German Democratic Republic*, **77**, 223.  
*Comet 1910a Again*, **78**, 49.  
*Microcomputers in Astronomy*, R. M. Genet, **78**, 49.  
*Two Victoria Astronomers Honoured*, **78**, 86.  
*Dr. A. V. Douglas*, **78**, 87.  
*Halley's Comet*, **78**, 87.  
*J. S. Plaskett and The Study of History*, **78**, 87.  
*Friedrich Wilhelm Bessel — A Bicentenary*, A. H. Batten, **78**, 133.  
*Starlife*, **78**, 134.  
*Dr. J. J. Green*, Christine Clement, **78**, 164.  
*The Asteroid Sawyer Hogg*, **78**, 256.  
*Two More Minor Planets Named for Canadian Astronomers*, Ian Halliday, **79**, 26.  
*Another "Canadian" Minor Planet*, **79**, 188.  
*Draft of Instructions to the Officers Acting as Principal Astronomers in the British Commission for Defining the Boundary Line in North America Under the Treaty of Washington*, J. E. Kennedy, **79**, 313.  
*Halley's Comet 1985*, **79**, 314.  
*Quasars and Galaxies Observable With the Space Telescope*, Charles J. Krieger, **80**, 56.  
*Minor Planet (3023) Heard*, **80**, 58.  
*Comet Halley Again*, **80**, 153.  
*Journal No. 600*, **80**, 154.  
*Comet Halley from Peru — 1986*, Jack Newton, **80**, 295.  
*Yet More Comet Halley*, **81**, 20.  
*The Rotation of Planets with Satellites — Revised Numerical Data*, J. Bouet, **81**, 62.



- More on Minor Planets*, **81**, 63.  
*Joseph von Fraunhofer*, A. H. Batten, **81**, 106.  
*Request for Back Issues*, **81**, 143.  
*Supernova 1987A*, **81**, 143.  
*Supernova 1987A*, **82**, 33.  
*Former Honorary Members*, **81**, 175.  
*New Honorary Member*, **82**, 32.  
*More Minor Planets Named After Canadian Astronomers*,  
**82**, 33.  
*Proposal to Make a Line of Micrometers*, Edgar Soulié, **82**,  
82.  
*Journal for December 1987*, **82**, 83.  
*The Herschel House and Museum, 19 New King Street,*  
*Bath*, Sean Keep, **82**, 148.  
*New Editor for the Journal*, **82**, 152.  
*Honour for Canadian Astronomer*, **82**, 213.  
*Leo Goldberg 1913-1987*, **82**, 213.  
*Preparation of Manuscripts for the Journal*, **82**, 213.  
*Minor Planet News*, Peter M. Millman, **82**, 301.  
*Obituary*, **82**, 303.  
*New Editor*, **82**, 304.  
*J. S. Plaskett in 1918*, **82**, 361.  
*The Naming of Minor Planets*, Peter M. Millman, **82**, 362.  
*Tit-for-Tat: Another "Canadian" Asteroid*, Jeremy B.  
Tatum, **83**, 134.  
*Czechoslovak Gold Medal for Canadian Astronomer*, **83**,  
329.  
*Czechoslovak Gold Medal to Canadian Astronomer*, **84**,  
133.  
*Minor Planets and the Canadian Connection*, Peter M.  
Millman, **83**, 329.  
*Minor Planet Index to Scientific Papers*, Clifford  
Cunningham, **84**, 133.  
*Russell Lectureship and Killam Prize*, Lloyd Higgs, **84**,  
230, 356.  
*Boundary Line in North America*, S. D. Hanson & J. E.  
Kennedy, **84**, 231.  
*Four More Minor Planets With a Canadian Connection*, **84**,  
233, 356.  
... *And a Comet, By George!*, **84**, 234.  
*Comet Levy 1990c*, Jeremy B. Tatum, **84**, 283.  
*Eve Savory Award for Science Communication*, J. E.  
Hesser, **84**, 438.  
*British Astronomical Association*, Jeremy B. Tatum, **84**,  
438.  
*Comet Levy 1990C*, **85**, 52.  
*Periodic Comet Shoemaker-Levy 1 1990O*, **85**, 52.  
(4058) *Cecilgreen*, **85**, 53.  
*Periodic Comet Shoemaker-Levy 2 1990P*, **85**, 53.  
*Comet Shoemaker-Levy 1991D*, **85**, 54.  
*Service Award*, **85**, 108.  
*Periodic Comet Shoemaker-Levy 1991E*, **85**, 110.  
*Two More Minor Planets with a Canadian Connection*, **85**,  
110.  
*Comet Shoemaker-Levy 1991F*, **85**, 111.  
*CASCA Acronyms*, **85**, 223.  
*Five More Minor Planets with a Canadian Connection*, **85**,  
224.  
*Comet Levy 1991Q*, **85**, 225.  
*UAL — Undefined Acronym List*, **85**, 282.  
*Very Special Old ...*, **85**, 284.  
*Vatican Observatory: 100th Anniversary*, William Lonc,  
**85**, 378.  
*Minor Planets With a Canadian Connection*, J. B. Tatum,  
**85**, 381.  
*Minor Planets With a Canadian Connection*, J. B. Tatum,  
B, 2, 3, 2.  
*Minor Planets With a Canadian Connection*, J. B. Tatum,  
**86**, 214.  
*Comets Discovered by Canadians*, J. B. Tatum, **85**, 384.  
*Comets Discovered by Canadians*, J. B. Tatum, **86**, 113.  
*Hubert Reeves, OC*, **86**, 55.  
*Helen Sawyer Hogg Scholarship*, **86**, 56.  
*Periodic Comet Shoemaker-Levy 5 1991z*, **86**, 56.  
*The Longest-Serving Editor*, **86**, 56.  
(3307) *Athabasca*, **86**, 57.  
*Comet Shoemaker-Levy 1991a<sub>1</sub>*, **86**, 57.  
*Comet Shoemaker-Levy 1991d<sub>1</sub>*, **86**, 57.  
*Periodic Comet Shoemaker-Levy 6 1991b<sub>1</sub>*, **86**, 57.  
*Muhlmann Prize*, **86**, 111.  
*Service Award*, **86**, 111.  
*Bicentenary of the Birth of Sir John Herschel*, Patrick  
Moore, **86**, 112.  
*Service Award*, **86**, 154.  
*Honorary Membership for Dr. Owen Gingerich*, **86**, 211.  
*Sanford Fleming Medal for Terence Dickinson*, **86**, 213.  
*Periodic Comet Shoemaker-Levy 7 1991d<sub>1</sub>*, **86**, 214.  
*Periodic Comet Shoemaker-Levy 8 1992f*, **86**, 214.  
*Historical Instrument Inventory*, Randall C. Brooks, **86**,  
267.  
*Hon. Gerhard Herzberg PC CC*, **86**, 267.  
*B. A. A. Computer Programs*, **86**, 268.  
*Spare Journals*, **86**, 269.  
*Dedication of University of Toronto's 61 cm Telescope in*  
*Chile in Honour of Professor Helen Sawyer Hogg*, E.  
R. Seaquist, **86**, 332.  
*Centro de Investigaciones de Astronomia*, **86**, 333.  
*Service Award*, **87**, 65.  
*Simon Newcomb Award*, **87**, 66.  
*Comet Swift-Tuttle 1992t*, **87**, 67.  
*Professor Jan Oort*, **87**, 67.  
(4719) *Burnaby*, Jeremy B. Tatum, **87**, 68.  
*Helen Sawyer Hogg*, **87**, 68.  
*Chant Medal*, **87**, 120.  
*Service Award*, **87**, 120.  
*What A Cite!*, **87**, 121.  
*Herzberg Medal for Dr. Nick Kaiser*, **87**, 162.  
*Reinhardt Fellowship for Dr. Christopher Pritchett*, **87**, 162.  
*Comet Shoemaker-Levy 1993e*, **87**, 163.  
*Herstmonceux Castle — Sold to Canada!*, **87**, 164.  
*Another Medal for a Plaskett Medallist*, **87**, 251.  
*Comet Shoemaker-Levy 1993h*, **87**, 251.  
*RASC Observer's Calendar*, **87**, 251.  
*Astronomical Society of the Pacific Amateur Achievement*  
*Award*, **87**, 344.  
*A Memorial in Honour of Helen Sawyer Hogg*, **87**, 393.  
*Notes*, Jeremy B. Tatum, **87**, 394.  
*1993 Nobel Prize in Physics Award to Hulse and Taylor*, F.  
I. Cooperstock, **88**, 85.  
*Simultaneous Images of Asteroids*, **88**, 144.  
*Thank You To ...*, **88**, 144.  
(5272) *Dickinson*, **88**, 145.

(5553) Chodas, **88**, 145.  
*Congratulations To ...*, **88**, 145.  
*May 10, 1994 Annular Solar Eclipse*, **88**, 146.  
*Possible Nomination for the 1993 Golden Bloopers Award?*,  
**88**, 147.  
*Comet Shoemaker-Levy 1994d*, Jeremy Tatum, **88**, 170.  
*A Newly Discovered Planetary Nebula Near SU Cyg*, **88**,  
171.  
*Comet Takamizawa-Levy 1994f*, Jeremy Tatum, **88**, 171.  
*Properties of the Brightest Stars*, **88**, 172.  
*Service Awards*, **88**, 172.  
*The Puzzling and Perplexing Problem of the Pulsation of*  
*Polaris*, Jaymie M. Matthews, **88**, 273.  
(5424) Covington = 1983 TN1, **88**, 274.  
*Congratulations To ...*, **88**, 274.  
*Eclipse Hysteria*, **88**, 275.  
*More About SU Cygni*, **88**, 275.  
*Congratulations To ...*, **88**, 353.  
*Genius and Error*, Sidney van den Bergh, **88**, 353.  
*National Geographic Society and Royal Canadian*  
*Geographical Society Take Note!*, **88**, 354.  
*Remarks on the Star of Bethlehem*, **88**, 405.  
*New Results for the Hubble Constant*, John Hutchings, **88**,  
407.  
*B. C. Science Council Gold Medal to Peter Stetson*, **88**,  
408.  
*Just As We Suspected*, **88**, 409.  
*Evolution of a Cluster of Galaxies*, John Hutchings, **88**,  
409.  
*Honorary RASC Member Patrick Moore*, **89**, 28.  
*Service Award to Pat Kelly*, **89**, 29.  
*Congratulations To ...*, **89**, 30.  
*New Names of Minor Planets*, **89**, 31.  
*Towards a Solution to the Solar Neutrino Problem*, **89**, 31.  
*Honorary RASC Member Robert Evans*, **89**, 64.  
*SN1995F — An All-Canadian Supernova*, **89**, 66.  
*Galaxies Then and Now*, John Hutchings, **89**, 68.  
*Congratulations To ...*, **89**, 68.  
*News From the CADC*, John Hutchings, **89**, 69.  
*New Black Hole Candidate in the Large Magellanic Cloud*,  
John Hutchings, **89**, 69.  
*More Asteroids With Canadian Connections*, **89**, 70.  
*Comet P/1995 AI (Jedicke)*, Jeremy Tatum, **89**, 70.  
*In Passing ... William L. H. Shuter*, **89**, 110.  
*In Passing ... William H. Wehlau*, **89**, 110.  
*Why Astronomy Professors Turn Grey (Golden Bloopers,*  
*Part II)*, **89**, 110.  
*Meteor Crater, Nova Scotia*, **89**, 111.  
*Award Presentations for the 1995 General Assembly*, **89**,  
113.  
*Congratulations To ...*, **89**, 189.  
*For the Visually Acute*, **89**, 189.  
*Cycle 22 Continues*, **89**, 190.  
*Award Winners Honoured at General Assembly in Windsor*,  
**89**, 226.  
*Binaries and Clusters Collide in Calgary*, Gene Milone &  
David Turner, **89**, 227.  
*Asteroid Jedicke*, **89**, 231.  
*Those Were the Days*, **89**, 231.  
*In Passing ... Subrahmanyam Chandrasekhar*, **89**, 266.  
*McLaughlin Planetarium Closure*, **89**, 266.

*Classification of Medium Redshift Galaxies*, John  
Hutchings, **89**, 266.  
*Gemini Project News*, John Hutchings, **89**, 266.  
*Asteroids With Canadian Connections*, **89**, 267.  
*HD 23642 Found To Be an Eclipsing Binary*, **90**, 58.  
*Some Good News on the Planetarium Front*, **90**, 58.  
*Update on P Cygni and Its Cluster*, **90**, 58.  
*From a Plaque on Treasurer's House, York, England*, **90**,  
59.  
*News About Our Honorary Members*, **90**, 59.  
*The Great Debate, 1996 Version*, **90**, 97.  
*The Canada-France-Hawaii Telescope and Gemini*, John  
Hutchings, **90**, 97.  
*Remembering Marie Fidler*, Roy L. Bishop, **90**, 98.  
*Remembering Marie Fidler*, Rosemary Freeman, **90**, 99.  
*Simon Newcomb Award Presented at November Council*  
*Meeting*, **90**, 100.  
*News About Our Honorary Members*, **90**, 101.  
*Comet P/1996 AI (Jedicke)*, Jeremy Tatum, **90**, 102.  
*Supernova in NGC 1614*, **90**, 167.  
*Comet Hyakutake Views*, **90**, 169.  
*Congratulations To ...*, **90**, 171.  
*In Passing ... Miriam Burland*, **90**, 171.  
*In Passing ... Richard Tanner*, **90**, 171.  
*What Use Are Old Diskettes?*, **90**, 235.  
*Dolores Claiborne's Eclipse*, David M. F. Chapman, **90**,  
235.  
*The Distance to the Supernova Remnant Cassiopeia A*, **90**,  
236.  
*Asteroids With Canadian Connections*, Jeremy Tatum, **90**,  
237.  
*Congratulations To ...*, **90**, 238.  
*In Passing ... Mary W. Grey*, **90**, 238.  
*The Burke-Gaffneys*, Peter Broughton, **90**, 345.  
*The "Growing" Kuiper Belt*, **90**, 346.  
*Awards Presentations at the 1996 General Assembly*, **90**,  
347.  
*In Passing ... Victor Amazaspovich Ambartsumian*, **90**, 351.

## Notes From Newfoundland

*Notes from Newfoundland*, Dora Russell, NN, **66**, 33.  
*Notes from Newfoundland*, Dora Russell, NN, **67**, 6, 11.  
*Notes from Newfoundland*, NN, **67**, 27.  
*Notes from Newfoundland*, Dora Russell, NN, **68**, 6.

## Notes from Observatories

*David Dunlap Observatory*, Donald A. MacRae, **61**, 47.  
*Dominion Astrophysical Observatory*, A. H. Batten, **61**, 93.  
*David Dunlap Observatory*, Donald A. MacRae, **61**, 198.  
*Dominion Astrophysical Observatory*, A. H. Batten, **61**,  
345.  
*Dominion Observatory*, Mary W. Grey, **61**, 385.  
*David Dunlap Observatory*, Donald A. MacRae, **62**, 41.  
*Dominion Astrophysical Observatory*, Alan H. Batten, **62**,  
81.  
*Dominion Observatory*, Mary W. Grey, **62**, 138.  
*David Dunlap Observatory*, Donald A. MacRae, **62**, 199.  
*Dominion Observatory*, Mary W. Grey, **62**, 383.  
*Dominion Astrophysical Observatory*, Alan H. Batten, **62**,  
385.  
*David Dunlap Observatory*, Donald A. MacRae, **63**, 51.

*Dominion Astrophysical Observatory*, A. H. Batten, **63**, 99.  
*Dominion Observatory*, Mary W. Grey, **63**, 147.  
*David Dunlap Observatory*, Donald A. MacRae, **63**, 217.  
*Dominion Astrophysical Observatory*, A. H. Batten, **63**, 267.  
*Dominion Observatory*, Mary W. Grey, **63**, 314.  
*David Dunlap Observatory*, Donald A. MacRae, **64**, 60.  
*Dominion Astrophysical Observatory*, A. H. Batten, **64**, 108.  
*Re-Organization of Astronomy in the Federal Government*, **64**, 109.  
*Dominion Observatory*, Mary W. Grey, **64**, 174.  
*David Dunlap Observatory*, Donald A. MacRae, **64**, 254.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **64**, 321.  
*David Dunlap Observatory*, Donald A. MacRae, **65**, 41.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **65**, 82.  
*David Dunlap Observatory*, Donald A. MacRae, **65**, 184.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **65**, 246.  
*David Dunlap Observatory*, Donald A. MacRae, **66**, 75.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **66**, 128.  
*David Dunlap Observatory*, Donald A. MacRae, **66**, 229.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **66**, 276.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **67**, 97.  
*Burke-Gaffney Observatory*, David L. Dupuy, **67**, 156.  
*David Dunlap Observatory*, Donald A. MacRae, **67**, 200.  
*Dominion Astrophysical Observatory*, K. O. Wright, **67**, 267.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **68**, 109, 275.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **69**, 97.  
*University of Western Ontario*, A. Wehlau, **69**, 146.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **69**, 257.  
*Dominion Radio Astrophysical Observatory*, J. A. Galt, **70**, 89.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **70**, 90.  
*University of Western Ontario*, A. Wehlau, **70**, 144.  
*Astronomy Section of the HIA*, B. H. Andrew, **70**, 200.  
*Algonquin Radio Observatory*, N. W. Broten, **70**, 202.  
*Planetary Sciences Section, HIA*, A. G. McNamara, **70**, 202.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **70**, 270.  
*Queen's University*, A. H. Bridle, **71**, 59.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **71**, 203, 414.  
*Queen's University*, A. H. Bridle, **72**, 51.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **72**, 116, 292.  
*Astronomy Section, HIA*, J. M. MacLeod, **72**, 341.  
*Dominion Radio Astrophysical Observatory*, R. S. Roger, **72**, 344.  
*University of Western Ontario*, W. H. Wehlau, **73**, 40.

*Queen's University*, A. H. Bridle, **73**, 42.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **73**, 107, 314.  
*Queen's University*, A. H. Bridle, **74**, 32.  
*Astronomy Section, HIA*, J. M. MacLeod, **74**, 34.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **74**, 104, 302.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **75**, 115.  
*Dominion Astrophysical Observatory*, J. B. Hutchings, **76**, 206.

## Notes from Planetaria

*The H. R. MacMillan Planetarium*, David A. Rodger, **63**, 268.  
*Winnipeg (Manitoba Museum of Man and Nature) Planetarium*, B. F. Shinn, **63**, 316.  
*Centennial Planetarium*, S. Weiser, **64**, 63.  
*H. R. MacMillan Planetarium*, David A. Rodger, **64**, 110.  
*The McLaughlin Planetarium*, Norman Green, **64**, 111.  
*McLaughlin Planetarium*, Harlan Creighton, **64**, 323.  
*McLaughlin Planetarium*, Harlan Creighton, **65**, 83, 299.  
*H. R. MacMillan Planetarium*, David A. Rodger, **72**, 294.

## Nouvelles de L'AGAA

*Nouvelles de L'AGAA*, Damien Lemay, NN, **81**, 6.  
*Nouvelles de L'AGAA*, NN, **81**, 38.

## Nouvelles des Centres Québécois (see also Centres Français, Nouvelles du Québec)

*Nouvelles des Centres Québécois*, Damien Lemay, NN, **72**, 18.  
*Nouvelles des Centres Québécois*, Damien Lemay, NN, **72**, 50, 75, 87.  
*Nouvelles des Centres Québécois*, Damien Lemay, NN, **73**, 6, 51, 73, 86.  
*Nouvelles des Centres Québécois*, Damien Lemay, NN, **74**, 11, 25, 40, 49.  
*Nouvelles des Centres Québécois*, Damien Lemay, NN, **75**, 4, 20, 44, 75.

## Nouvelles du Québec (see also Centres Français, Nouvelles des Centres Québécois)

*Nouvelles du Québec*, Marc A. Gélinas, NNB, **83**, 85.  
*Nouvelles de Québec*, Marc A. Gélinas, NNB, **84**, 9.  
*Nouvelles du Québec*, Marc A. Gélinas, **84**, 26.  
*Nouvelles du Québec*, Marc A. Gélinas, **84**, 40, NNB.  
*L'Astronomie au Canada Français*, Marc A. Gélinas, NNB, **84**, 78, 85.

## Nuclear Reactions, Nucleosynthesis, Abundances

*The Chemical Evolution of the Galaxy*, A. G. W. Cameron & J. W. Truran, **65**, 1.  
*Origin of the Chemical Elements and Stellar Evolution*, R. L. Sears, **68**, 1.  
*Les Éléments dans L'Univers*, Gilles Beaudet, **70**, 247.  
*Actinide Astronomy*, Charles R. Cowley, **71**, 108.  
*Beta Tritium*, Roy L. Bishop, NN, **73**, 22.

*The Solar-Neutrino Puzzle*, D. Y. Kim & S. I. H. Naqvi, **73**, 203.  
*Neutrons, the Sun and Canada*, Peter Jedicke, **81**, 221.  
*Neutrino Detectors as Early Warning Devices for Supernovae*, Robert Jedicke, **83**, 116.  
*Sanduleak -69° 202, Supernova 1987A and the Beginning of Neutrino Astronomy*, H. R. A. Jones, **85**, 235.  
*Towards a Solution to the Solar Neutrino Problem*, **89**, 31.

## Obituaries

*Georges Lemaitre, 1894-1966*, A. Vibert Douglas, **61**, 77.  
*W. S. McClenahan (1892-1968)*, Malcolm M. Thomson, **62**, 133.  
*Society Loses Three Honourary Members*, Ruth J. Northcott, **62**, 135.  
*John Peter Hagen, Jr., 1941-1968*, John F. Heard, **62**, 391.  
*Ruth Josephine Northcott*, John F. Heard, **63**, 225.  
*Victor Ben Meen, 1910-1971*, Donald A. MacRae, **65**, 97.  
*A Tribute to Colonel R. S. McLaughlin*, J. E. Kennedy, **66**, 125.  
*Angus Smith (1931-1972)*, NN, **66**, 20.  
*Harlow Shapley*, Helen Sawyer Hogg, **67**, 31.  
*Jānis Arvids Bertolds Zarinš, 1908-1972*, Marie Fidler, **67**, 39.  
*Robert L. Aikens*, M. W. Burke-Gaffney, NN, **67**, 2.  
*The Passing of Two Devoted Members: Douglas R. P. (Darly) Coats, Samuel Litchinsky*, NN, **67**, 28.  
*Jesse Ketchum, 1885-1973*, Frederic L. Troyer, NN, **67**, 30.  
*Henri Simard, 1922-1973*, Malcolm M. Thomson & Martine Normandin, **68**, 53.  
*Georges van Biesbroeck, 1880-1974*, Robert H. Hardie, **68**, 202.  
*Henri Simard, 1922-1973*, NN, **68**, 2.  
*R. S. Evans*, NN, **68**, 6.  
*Andrew Thomson, O. B. E., M. A., D. Sc.*, John F. Heard, **69**, 32.  
*William Elgin Van Steenburgh, 1899-1974*, C. S. Beals, **69**, 35.  
*Gerald Maurice Clemence, 1908-1974*, Helen Sawyer Hogg, **69**, 136.  
*James Kemp*, Terence Dickinson, NN, **69**, 7.  
*Ernest Atkinson Hodgson, 1886-1975*, C. S. Beals, **70**, 84.  
*John Frederick Heard*, NN, **70**, 74.  
*Ken Chilton*, NN, **70**, 74.  
*John Frederick Heard, 1907-1976*, Helen Sawyer Hogg, **71**, 1.  
*Kenneth Edward Chilton, 1939-1976*, Peter H. Ashenhurst, **71**, 195.  
*Charles Hugh Smiley, 1903-1977*, David H. Kelley, **72**, 46.  
*Reynold Kenneth Young, 1886-1977*, Peter M. Millman, **72**, 181.  
*Dominion Astronomer Passes: C. S. Beals*, NN, **73**, 72.  
*Rev. M. W. Burke-Gaffney, S. J., 1896-1979*, R. C. Brooks, **73**, 100.  
*Carlyle Smith Beals 1899-1979*, J. L. Locke, **73**, 325.  
*In Memorium: Pat Corey*, Mal Corey, NN, **73**, 48.  
*Harry Hemley Plaskett, 1893-1980*, Peter M. Millman, **74**, 234.  
*Joseph Ashbrook*, B. R. Chou, NN, **74**, 66.  
*Morris James Sage Innis, 1907-1980*, M. R. Dence & J. G. Tanner, **75**, 117.

*Balfour Watson Currie, 1902-1981*, J. E. Kennedy, **75**, 219.  
*Ralph E. Williamson — An Appreciation*, Arthur E. Covington, **77**, 97.  
*George Abell 1926-1983*, NN, **77**, 85.  
*Bart Jan Bok, 1906-1983*, Peter M. Millman, **78**, 3.  
*Dr. J. J. Green*, Christine Clement, **78**, 164.  
*La Mémoire de Rolland Noël de Tilly*, Lucien Coallier, NN, **78**, 29.  
*In Memoriam: A. G. Kindy*, NN, **78**, 29.  
*Sir Martin Ryle*, NN, **78**, 86.  
*Professor H. L. Welsh, 1910-1984*, Donald A. MacRae, **79**, 109.  
*John Paul Cox (1926-1984)*, R. H. Garstang, NN, **79**, 6.  
*Les V. Powis*, NN, **79**, 53.  
*Judson Pulford Henderson*, Malcolm M. Thomson, **80**, 221.  
*Michael William Ovenden*, Alan H. Batten, **81**, 109.  
*Former Honourary Members*, **81**, 175.  
*In Memoriam: Dora Russell*, NN, **81**, 7.  
*In Memoriam: Tom Tothill (1921-1987)*, NN, **81**, 23.  
*Leo Goldberg 1913-1987*, **82**, 213.  
*Obituary — Dr. A. Vibert Douglas*, **82**, 303.  
*Obituary — Prof. F. E. L. Priestly*, **82**, 303.  
*Obituary — Dr. J. A. Pearce*, **82**, 303.  
*Alice Vibert Douglas, 1894-1988*, Peter M. Millman, **82**, 309.  
*Joseph A. Pearce, 1893-1988*, Kenneth O. Wright, **83**, 3.  
*Obituary — Reverend Roger Leclair*, S. J., David G. Turner & Francis J. Heyden, **83**, 250.  
*Carman Hudson Costain, 1932-1989*, J. L. Locke, **84**, 243.  
*Nouvelles du Québec*, Marc A. Gélinas, NNB, **84**, 26.  
*Peter Mackenzie Millman, 1906-1990*, Ian Halliday, **85**, 67.  
*Peter Mackenzie Millman, 1906-1990*, Ian Halliday, B, **1**, 2, 3.  
*Albérie Boivin 1919-1991*, B, **2**, 2, 3.  
*Professor Jan Oort*, **87**, 67.  
*Helen Sawyer Hogg*, **87**, 68.  
*An Astronomical Life: J. H. Oort (1900-1992)*, Sidney van den Bergh, **87**, 73.  
*John Tuzo Wilson, CC, OBE, FRSC, FRS (1908-1993)*, John R. Percy, **87**, 339.  
*Helen Sawyer Hogg, 1905-1993*, Christine Clement & Peter Broughton, **87**, 351.  
*A Memorial in Honour of Helen Sawyer Hogg*, **87**, 393.  
*In Passing ... William H. Wehlau*, **89**, 110.  
*In Passing ... William L. H. Shuter*, **89**, 110.  
*In Passing ... Subrahmanyam Chandrasekhar*, **89**, 266.  
*Testimony to an Astronomer*, John Hicks, B, **5**, 3, 2.  
*Obituary — Peter Moor*, Clive Gibbons, B, **5**, 5, 7.  
*Remembering Marie Fidler*, Roy L. Bishop, **90**, 98.  
*Remembering Marie Fidler*, Rosemary Freeman, **90**, 99.  
*In Passing ... Miriam Burland*, **90**, 171.  
*In Passing ... Richard Tanner*, **90**, 171.  
*In Passing ... Mary W. Grey*, **90**, 238.  
*In Passing ... Victor Amazaspovich Ambartsumian*, **90**, 351.  
*Mary Grey 1927-1996*, B, **6**, 4, 2.

## Observations: General

*What a Gorgeous Eclipse!*, Tom Tothill, NN, **64**, 11.  
*Letter to the Editor*, Gordon K. Falconer, NN, **64**, 15.  
*Double Graze, June 1970*, Dora Russell, NN, **64**, 26.  
*The Eclipse of July 10th*, NN, **66**, 21.

- Murphy Strikes Again*, K. Chilton, NN, **66**, 23.  
*A Fantastic Total Eclipse*, Marie Litchinsky, NN, **66**, 25.  
*The Toronto Centre Eclipse Expedition 8 to 11 July, 1972*,  
 B. R. Chou, NN, **66**, 26.  
*Eclipse-72 Over the Northwest Territories*, John Scatcliff,  
 NN, **66**, 28.  
*Solar Eclipse July 10 from Prince Edward Island*, B. F.  
 Shinn, NN, **66**, 29.  
 "A Glimpse Down the Road to Heaven", Mary C. Wynes,  
 NN, **66**, 30.  
*Airborne Observations of the 1972 Giacobinids*, Peter M.  
 Millman, **67**, 35.  
*The Skies Down Here*, Chris Smith, NN, **68**, 5.  
*Recent Aurora Activity*, Rolf Meier, NN, **68**, 14.  
*40th Annual Stellafane Convention*, NN, **68**, 29.  
*The Eclipse at Jarnac Pond*, David H. Levy, NN, **69**, 39.  
*41st Stellafane Meeting*, Rolf Meier, NN, **70**, 13.  
*Public Interest in Astronomy is High, Winnipeg*  
*Planetarium Finds*, Frank Shinn, NN, **70**, 34.  
*Early Morning Graze of Venus, May 14*, B. Franklyn Shinn,  
 NN, **71**, 37.  
*Edmonton Starnight a Success*, NN, **71**, 42.  
*Daytime and Twilight Observation*, Lucien J. Kemble, NN,  
**70**, 69.  
*Halifax Centre Holds Camping/Observing Weekend*,  
 Randall Brooks, NN, **71**, 79.  
*Highly Successful Observing in Halifax*, Michael P.  
 Edwards, NN, **72**, 21.  
*Perseid Meteor Shower*, Patricia Berezowski, NN, **72**, 86.  
*Stellafane 1978*, Cathy Hall, NN, **72**, 104.  
*A Shot in the Dark*, Michael Rogers, NN, **73**, 24.  
*The February 26, 1979 Eclipse*, David H. Levy, NN, **73**,  
 33.  
*The Total Solar Eclipse*, David A. Roger, NN, **73**, 36.  
*Saskatoon Centre Active*, Kevin Atchison, NN, **74**, 24.  
*Calgary Centre Members Experience Successful Eclipse*  
*Expedition*, Don W. Hladiuk, NN, **74**, 31.  
*How I Saw a Grazing Occultation From My Backyard*  
*(Despite Doing Everything Wrong)*, Alan Whitman,  
 NN, **74**, 37.  
 "Nine Planet Club", Leo Enwright, NN, **74**, 57.  
*Observations of a Yukoner*, Ron Richards, NN, **74**, 57.  
*Totality at Voi*, Randy Attwood, NN, **74**, 69.  
*Where the Astronomers and the Buffalo Roam*, Chris  
 Rutkowski, NN, **74**, 81.  
*Why Would David Call Me Late at Night?*, Peter Jedicke,  
 NN, **75**, 39.  
*An Incredible Auroral Double-Feature*, Leo Enwright, NN,  
**75**, 45.  
*Let the Search Begin or Shall We Offer a Reward?*, D. G.  
 Graham, NN, **75**, 67.  
*MASCON 1981*, NN, **76**, 12.  
*The Lunar Eclipse From Flagstaff*, James Morton, NN, **76**,  
 59.  
*Report on Two Graze Expeditions*, Brian Burke, NN, **76**,  
 70.  
*Centres Arrange Summer Observing Sessions*, Peter  
 Jedicke, NN, **76**, 74.  
*Reflections of a Solitary Observer*, Grant Wm. Dixon, NN,  
**77**, 13.  
*The Lunar Eclipse — A Different View*, Richard Linkletter,  
 NN, **77**, 24.  
*Eclipse!*, Walter MacDonald, NN, **77**, 40.  
*An Amazing Messier Marathon*, Leo Enwright, NN, **77**, 41.  
*Deep Sky Observing*, Chris Malicki, NN, **77**, 58.  
*Vue de Saturne au Mont Mégantic*, Marc Gélinas, NN, **77**,  
 63.  
*Gerhana Matahari 1983*, Michael Watson, NN, **77**, 77.  
*The Best of the NGC's*, Steven Morris, NN, **77**, 87.  
*Kingston Centre Deep Sky Programme*, Leo Enwright, NN,  
**77**, 88.  
*MASCON '83*, Joan Badger, NN, **77**, 94.  
*An Observing Night in Chatham*, M. E. Flegel, NN, **78**, 44.  
*A Dazzling Diamond Necklace*, Michael Watson, NN, **78**,  
 50.  
*The May Eclipse — A Toronto Perspective*, Ian McGregor,  
 NN, **78**, 52.  
*A Stellafane Adventure*, George Fortier, NN, **78**, 69.  
*Report on the Perseid Meteor Shower 1984*, Alison Healy  
 & Neil Laffra, NN, **78**, 84.  
*The Mount Kobau Star Party 1984*, Jack Newton & Muriel  
 Enock, NN, **79**, 7.  
*Totality in Hula*, Randy Attwood, NN, **79**, 26.  
*November's Marine Eclipse*, Andrew Lowe, NN, **79**, 60.  
*Giacobinids 1985*, Peter Brown & Mark Zalcik, NN, **79**, 70.  
*More Adventures in Good Observing*, Ian Stuart, NN, **79**,  
 71.  
*Starfest '85*, Dale Armstrong, NN, **79**, 73.  
*East Coast Observing Weekend*, David Chapman, NN, **79**,  
 74.  
*A Special Night of Observing*, Randy Attwood, NN, **79**, 79.  
*Comet Halley from Peru — 1986*, Jack Newton, **80**, 295.  
*First Telescope: An Unexpected Universe*, Matt Bourdeau,  
 NN, **80**, 10.  
*MASCON '85 A Success*, Guy Westcott, NN, **80**, 12.  
*My Best Night?*, R. J. Kirland, NN, **80**, 39.  
*Halley from 35 000 — A Great Success*, Steve Dodson, NN,  
**80**, 42.  
*Comet Halley: A View from Arizona*, Angelika Hackett,  
 NN, **80**, 43.  
*Comet Halley from the Galapagos Islands*, Betty Robinson,  
 NN, **80**, 54.  
*3<sup>rd</sup> Annual Mount Kobau Star Party*, Malcolm Scrimger,  
 NN, **80**, 76.  
*Starfest '86*, Steven Spinney, NN, **80**, 79.  
*First Viewing from Saudi Arabia*, Eleanor Fanning, NN, **80**,  
 82.  
*CAFTA 1986*, Marc A. Gélinas, NN, **80**, 86.  
*Observing at Mount Lemmon*, Neil Rowlands, NN, **81**, 3.  
*Observations About Graze Observations*, Frank Shinn, NN,  
**81**, 66.  
*Saying Goodbye*, David H. Levy, NN, **81**, 73.  
*Alberta Star Party*, Simon Hum, NN, **81**, 76.  
*Nova East '87*, Doug Pitcairn, NN, **81**, 88.  
*Mount Kobau 1987*, Gerry Knight, NN, **81**, 89.  
*Our Handbook*, David H. Levy, NN, **82**, 5.  
*Memories of Mauna Kea*, Jack B. Newton, NN, **82**, 24.  
*Observing on the Kuiper Airborne Observatory*, Neil  
 Rowlands, NN, **82**, 34.  
*Comet Bradfield: A Look Back*, Patrick Kelly, NN, **82**, 46.  
*Totality in the Philippines*, Randy Attwood, NN, **82**, 77.  
*Festival d'Astronomie Populaire du Mont-Mégantic*, NN,

82, 85.  
*Mount Kobau Kaleidoscope*, John Howell, NN, **82**, 88.  
*Stellafane 1988*, George Fortier, NN, **82**, 91.  
*Nova East '88*, Mary Lou Whitehorne, NN, **82**, 91.  
*Mount Kobau No Problem*, Ronald E. Dawes, NNB, **83**, 3.  
*A Messier Marathon*, David H. Levy, NNB, **83**, 10.  
*The Moon is a Naked Eye Object*, Paul Campbell, NNB, **83**, 14.  
*New World Record for Youngest Naked-Eye Crescent Moon Sighting*, Mohibullah N. Durrani, NNB, **83**, 34.  
*Observing the March Solar Eclipse*, Daryl Rybotycki, NNB, **83**, 45.  
*Natural Light Pollution: The March Aurora Display*, Steven Spinney, NNB, **83**, 55.  
*Nova East 1989*, Doug Pitcairn, NNB, **83**, 86.  
*"Rocky Mountain High": Alberta Star Party 1989*, Rick Ponomar & Barry M. Olson, NNB, **83**, 87.  
*Have You Ever Seen ...*, David H. Levy, NNB, **84**, 8.  
*Mount Kobau 1989*, David Clyburn, NNB, **84**, 14.  
*Noctilucent Clouds in Edmonton Skies*, Mark Zalcik, NNB, **84**, 16.  
*Night Skies in Cyprus Hills Provincial Park*, Don Friesen, NNB, **84**, 18.  
*An Invitation to Nova East*, Randall Brooks, NNB, **84**, 38.  
*Eyes of Wonder*, Winston Stairs, NNB, **84**, 42.  
*Hunting Messier Objects from Digby*, Douglas Pitcairn, NNB, **84**, 43.  
*In Search of Deep Sky Nights*, David Clyburn, NNB, **84**, 45.  
*Starfest '90*, NNB, **84**, 91.  
*The 1990 Mount Kobau Star Party*, Dave Clyburn, NNB, **84**, 92.  
*Nova East '90*, Doug Pitcairn, NNB, **84**, 93.  
*Long Time, No See*, Brian Segal, B, **1**, 1, 3.  
*Astronomy Workshop 1990*, Dave Clyburn, B, **1**, 1, 6.  
*Planets in the Palm of Your Hand*, Brian McCullough, B, **1**, 3, 4.  
*Astronomie le Long du Saint-Laurent*, Marc A. Gélinas, B, **1**, 3, 8.  
*Escadrille Exceptionnelle de Météors*, Gaetan Morissette, B, **1**, 3, 8.  
*Some Observations of the Zodiacal Light*, Alister Ling, B, **1**, 4, 8.  
*The RASC Eclipse Expedition*, Dan Falk, B, **1**, 5, 4.  
*An Encounter With Totality*, Bruce W. Shier, B, **1**, 5, 4.  
*Trip to Totality: One Person's Experience*, Ulrich Haasdyk, B, **1**, 5, 6.  
*Mount Kobau '91*, Dave Clyburn, B, **1**, 6, 3.  
*Alberta Star Party 1991*, Glenn Hawley, B, **1**, 6, 3.  
*Canadian "Starfest" Comes of Age*, Cathy Cresswell, B, **1**, 6, 6.  
*NOVA EAST '91*, Doug Pitcairn, B, **1**, 6, 6.  
*Terrestrial and Celestial Fireworks*, John Iverson, B, **2**, 1, 8.  
*Eclipse Chasing Without the Chase .. Sort Of*, Steve Edberg, B, **2**, 3, 4.  
*The Backyard Universe of J. J. Wadsworth*, Bob Duff, B, **2**, 3, 6.  
*The 1992 Mount Kobau Star Party*, June Kirkcaldy, B, **2**, 5, 3.  
*Nova East '92*, Doug Pitcairn, B, **2**, 5, 5.  
*A Successful Messier Marathon*, Paul Markov, B, **2**, 5, 6.

*A Successful Messier Marathon*, Paul Markov, B, **3**, 1, 3.  
*Starfest '92*, Dale Armstrong, B, **2**, 6, 6.  
*The Joys(?) of Astrophotography*, Clive Gibbons, B, **3**, 1, 7.  
*Keen for the Deep Sky?*, Alister Ling, B, **3**, 4, 11.  
*Kobau 1993*, Rick Keppler, B, **3**, 6, 7.  
*Starfest '93 — The CCD Arrives*, Dale Armstrong, B, **3**, 6, 8.  
*The 1993 Alberta Star Party*, John Howell, B, **3**, 6, 9.  
*Nova East '93 Report*, Douglas Pitcairn, B, **3**, 6, 9.  
*Score One for Astronomy*, Randy Pakan, B, **4**, 1, 3.  
*Solar Eclipse a Ringing Success*, B, **4**, 3, 3.  
*A Polar Expedition of a Different Kind*, Russ Sampson, B, **4**, 3, 4.  
*Take a Deep Galaxy Tour*, Randy Pakan, B, **4**, 3, 8.  
*Alberta Star Party: Wet But Wonderful*, Alister Ling, B, **4**, 6, 6.  
*Huronian Star Party: Stellar Speakers*, Dave Sage, B, **4**, 6, 6.  
*Kobau '94: Fire on the Mountain*, Dave Clyburn, B, **4**, 6, 7.  
*Nova East 1994: Telescopes and Turkeys*, Doug Pitcairn, B, **4**, 6, 7.  
*Brilliant Bolide Blazes Over Beclouded Starfest*, Dave McCarter, B, **5**, 4, 4.  
*The 1995 Mount Kobau Star Party*, Bob Drew, B, **5**, 4, 9.  
*Another Successful Messier Marathon*, Paul Markov, B, **6**, 3, 4.  
*Land of the Midnight Venus*, John Connelly, B, **6**, 5/6, 4.

### Observations: Interferometric

*Observations of IC 418 in the Near-Infrared*, J. Norman Scrimger, **73**, 90.  
*The Designation of Radio Sources Observed With the DRAO Synthesis Telescope*, L. A. Higgs, **80**, 51.  
*Radio Observations of a Neglected 3C Source: 3C 428*, L. A. Higgs & J. P. Vallée, **80**, 180.  
*A 408-MHz Radio Survey of the Region Surrounding Simeis 57*, L. A. Higgs, T. L. Landecker, F. P. Israel & J. Bally, **85**, 24.  
*A Complete Spectral Analysis of the Flare of the Quasar 3C 273*, Alberto C. Sadun, **86**, 15.

### Observations: Miscellaneous

*Vilna Meteorite — Camera, Visual, Seismic and Analytic Records*, R. E. Folinsbee, L. A. Bayrock, G. L. Cumming & D. G. W. Smith, **63**, 61.  
*A Tape Recording of the Belfast Meteorite*, Peter M. Millman, **64**, 57.  
*A Radio Photograph of the Cygnus-X Region*, J. E. Winzer & J. A. Roberts, **65**, 100.  
*Recording the Eclipse Shadow Bands on Magnetic Tape*, Frank M. Susel, **65**, 273.  
*Totality 1979 — Looking Back*, NN, **73**, 37.  
*The 1979 February 26 Solar Eclipse on Short Wave*, Ken Tapping & Chip Wiest, NN, **74**, 40.  
*The Daylight Fireball of January 20, 1988*, G. C. L. Aikman, P. F. Younger & D. H. Weichert, **83**, 232.  
*Comet Swift-Tuttle 1992t*, **87**, 67.

### Observations: Photoelectric

*Nova Delphini 1967*, Thomas Barnes, Sidney van den

- Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Remage & Vicki Watt, **61**, 339.  
*Photoelectric Timing of the Fireball of September 17, 1966*, W. A. Feibelman, **62**, 185.  
*Observations of RU Camelopardalis*, J. D. Fernie, **62**, 214.  
*UVB Observations of Miscellaneous Stars*, J. D. Fernie, **63**, 133.  
*Light Variations in  $\psi$  Orionis*, John R. Percy, **63**, 233.  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.  
*Observing Conditions on Mount Kobau*, E. Brosterhus, E. Pfannenschmidt & F. Younger, **66**, 1.  
*The Unique Variable V725 Sagittarii*, Serge Demers, **67**, 19.  
*Photoelectric Observations of Comet Bennett*, Gustav A. Bakos, **67**, 183.  
*UBVRI Observations of Miscellaneous Stars*, J. D. Fernie, **70**, 77.  
*Light Pollution in Southern Ontario*, Richard L. Berry, **70**, 97.  
*The Galactic Cluster Byurakan 2*, David L. DuPuy & Walter Zukauskas, **70**, 169.  
*U Cephei and Its Outbursts in 1969 and 1974*, Gustav A. Bakos & Jozef Tremko, **71**, 234.  
*A Photometric Study of the Am Binary System AN Andromedae*, Jozef Tremko & Gustav A. Bakos, **72**, 263.  
*Photoelectric Observations of Lunar Occultations at the DAO*, C. L. Morbey, J. M. Fletcher & G. Edwards, **72**, 305.  
*A Study of the Extinction in the Young Open Cluster NGC 6823*, David G. Turner, **73**, 74.  
*Photoelectric Reduction for the Amateur Astronomer*, D. Welch, **73**, 370.  
*Recent Observations of HD 127617 — Bidelman's High-Latitude Be Star*, David G. Turner & Ronald W. Lyons, **74**, 12.  
*The Reddening of Beta Doradus*, David G. Turner, **74**, 64.  
*Variations of the Light Curve of the Eclipsing Binary EM Cephei*, Jozef Tremko & Gustav A. Bakos, **74**, 321.  
*History of U Coronae Borealis — A Sequel*, Gustav A. Bakos & Jozef Tremko, **75**, 124.  
*Photoelectric Photometry of 2 Pallas*, Clifford J. Cunningham, **77**, 121.  
*Photometry of the S Vul Cluster*, David G. Turner, Peter J. T. Leonard & Barry F. Madore, **80**, 166.  
*Miscellaneous Photoelectric UBV Observations*, Sidney van den Bergh, **82**, 13.  
*Another Look at the Delta Scuti Star FM Comae*, Jeff Bax, William H. Wehlau & Steve Sharpe, **89**, 245.
- Observations: Photographic**  
*A Bright Fireball Observed Photographically, By Radar and Visually*, F. R. Park & B. A. McIntosh, **61**, 25.  
*Recent Advances in the Research on Noctilucent Clouds*, Benson Fogle, **61**, 64.  
*The Leonids*, Peter M. Millman, **61**, 89.  
*The Fireball of December 9, 1965 — Part I. Calculation of the Trajectory and Orbit by Photographic Triangulation of the Train*, Von Del Chamberlain & David J. Krause, **61**, 184, 390.  
*Path of the Fireball of June 14, 1967*, Bruce A. McIntosh, **61**, 191.  
*The Fireball of April 25, 1966. II, Photographic Observations and Orbit Determination*, A. A. Griffin, **62**, 55.  
*2000 Globular Clusters in M87*, René Racine, **62**, 367.  
*Vilna Meteorite — Camera, Visual, Seismic and Analytic Records*, R. E. Folinsbee, L. A. Bayrock, G. L. Cumming & D. G. W. Smith, **63**, 61.  
*Direct Photography with a Carnegie Image Tube*, S. Jeffers, **64**, 121.  
*The Planetary Nebula in M15*, W. A. Feibelman, **64**, 193.  
*An Observation of the Total Solar Eclipse of March 7, 1970*, T. Cairns, P. Moffat, J. Newton, J. Scatliff & J. Steffensen, **64**, 242.  
*Monochromatic Photographs and Isophotic Contours of Planetary Nebulae. I: NGC 3242*, W. A. Feibelman, **64**, 305.  
*Monochromatic Photographs and Isophotic Contours of Planetary Nebulae, II: NGC 1535, 6572, 6543, 7662, and 7009*, W. A. Feibelman, **65**, 25.  
*Monochromatic Photography and Isophotic Contours of Planetary Nebulae, III: NGC 2392, 6210, 6826, 6720, 6853*, W. A. Feibelman, **65**, 251.  
*Polarization of the Solar Corona*, W. A. Feibelman, **66**, 109.  
*Polaroid Film in Undergraduate Astronomical Photography*, K. A. Innanen, C. R. Purton, R. Berry & W. G. Weller, **66**, 157.  
*The Traditional Features of Mars Compared with the Geologic Map of the Planet*, Peter M. Millman, **67**, 115.  
*An Experiment with a Naturally-Cooled Emulsion*, J. B. Newton, **67**, 148.  
*The November 10 Transit of Mercury*, Jack Newton, NN, **67**, 29.  
*Morphological Properties of Some Bright Southern Galaxies*, R. F. Garrison & N. R. Walborn, **68**, 117.  
*Observations of Comet Kohoutek*, J. B. Newton, **68**, 152.  
*Distribution of Giant M and Carbon Stars in a Region in Puppis ( $\ell = 246^\circ$ ,  $b = -0.6^\circ$ )*, Kenneth A. Kirton & M. Pim FitzGerald, **68**, 154.  
*White Light Observations of a Solar Flare, July 4, 1974*, Robert Pike, **68**, 330.  
*The Discovery of Comet 1974g*, Sidney van den Bergh, **69**, 29.  
*The Partial Solar Eclipse of Dec. 13, 1974*, John Findlay, NN, **69**, 18.  
*Nitrogen Soaking*, Jack Newton, NN, **69**, 25.  
*The Galactic Cluster Byurakan 2*, David L. DuPuy & Walter Zukauskas, **70**, 169.  
*Astrophotos*, Damien Lemay, NN, **70**, 40.  
*The Bright Variable Stars in Messier 5*, Christine M. Coutts Clement & Helen Sawyer Hogg, **71**, 281.  
*Structures Chromosphériques Fines dans la Couronne Solaire*, J.-René Roy, **71**, 373.  
*The Innisfree Meteorite and the Canadian Camera Network*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **72**, 15.  
*Mars Photographed at 1971 Opposition*, Roy Belfield, NN,

72, 28.  
*Eclipse From Above*, Roy L. Bishop, NN, **73**, 31.  
*Eclipse de Soleil du 26 Fevrier 1979*, Damien Lemay, NN, **73**, 34.  
*Two Photos and Comparison Chart of Supernova in M100*, NN, **73**, 49, 80.  
*The Double Star Sirius*, George R. Ball, NN, **73**, 53.  
*The Total Solar Eclipse of February 16, 1980*, Sidney van den Bergh, **74**, 238.  
*Astrophotographie: Réseau d'Équidensités Photographiques*, Andre Paul, NN, **74**, 82.  
*Astrophotography: Photographic Generation of Equidensity Contours*, Andre Paul, NN, **74**, 85.  
*Un Atlas Photographique Avec Une Camera Schmidt de 14 cm*, Damien Lemay, **76**, 129.  
*Photographing the Sun in Hydrogen Alpha*, John Hicks, NN, **76**, 18.  
*The Moon by Eye and Film*, Jillian Buriak & John Hicks, NN, **77**, 44.  
*Astrophotography — A First Attempt*, Mary Anne Harrington, NN, **78**, 87.  
*UBV Photographic Photometry of Ruprecht 36*, B. Cameron Reed, **79**, 1.  
*The Grande Prairie Fireball of 1984 February 22*, Ian Halliday, **79**, 197.  
*Halley's Comet 1985*, **79**, 314.  
*Vénus en Janvier 1985*, Marc A. Gélinas, NN, **79**, 53.  
*Comet Halley Again*, **80**, 153.  
*Photometry of the S Vul Cluster*, David G. Turner, Peter J. T. Leonard & Barry F. Madore, **80**, 166.  
*Comet Halley from Peru — 1986*, Jack Newton, **80**, 295.  
*Detailed Records of Many Unrecovered Meteorites in Western Canada For Which Further Searches are Recommended*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **83**, 49.  
*The Anti-Tail of Periodic Comet Machholz 1986 VIII*, J. B. Tatum, D. D. Balam & T. B. Lowe, **85**, 91.  
*An Encounter With Totality*, Bruce W. Shier, B, **1**, 5, 4.  
*Trip to Totality: One Person's Experience*, Ulrich Haasdyk, B, **1**, 5, 6.  
*Suspected Brightening of the Venus North Polar Cloud*, Richard Baum, B, **2**, 2, 4.  
*Eclipse Chasing Without the Chase .. Sort Of*, Steve Edberg, B, **2**, 3, 4.  
*Observations of Mars in 1992-93*, Richard W. Schmude, Jr. & Danny Bruton, **88**, 69.  
*Solar Eclipse a Ringing Success*, B, **4**, 3, 3.  
*Murphy's Annular Eclipse*, B, **4**, 4, 4.  
*Composite Eclipse Photo*, Ian Grant, B, **4**, 5, 5.  
*P Cygni and Its Cluster*, Walter A. Feibelman, **89**, 3.  
*Photographic Determination of the Eccentricity of the Earth's Orbit*, Richard L. Nugent, **89**, 217.  
*Observations of Jupiter in 1994*, Richard W. Schmude, Jr. & Danny Bruton, **89**, 257.  
*Sunrises and Sunsets*, David G. Turner, **90**, 1.  
*Letter to the Editor: Sunrises and Sunsets*, Ian Halliday, **90**, 161.  
*Letter to the Editor: Sunrises and Sunsets*, Norman Davidson, **90**, 162.  
*Letter to the Editor: Sunrises and Sunsets*, Walter Feibelman, **90**, 163.

*Letter to the Editor: Sunrises and Sunsets*, Roy H. Garstang, **90**, 341.  
*Letter to the Editor: Sunrises and Sunsets*, Norman Davidson, **90**, 343.  
*Comet Hyakutake Views*, **90**, 169.

## Observations: Photometric

*High Altitude Balloon Experiments to Study Oxygen in a Planetary Atmosphere*, W. F. J. Evans, A. Vallance Jones & E. J. Llewellyn, **61**, 82.  
*Spectrographic Orbit and Photometric Observations of HD 217312 in the III Cephei Association*, J. F. Heard & J. D. Fernie, **62**, 99.  
*Light Variations of HD 190467*, John R. Percy, **64**, 218.  
*The Rate of Change of the Period of BW Vulpeculae*, John R. Percy, **65**, 217.  
*A Search for Delta Scuti Stars*, John R. Percy, **67**, 139.  
*UBV Observations of Supernova 1970g in NGC 5457*, John E. Winzer, **68**, 36.  
*A Time of Minimum for HD 217312*, C. D. Scarfe & D. J. Barlow, **68**, 96.  
*A Progress Report on NY Cephei*, C. D. Scarfe, **73**, 258.  
*Photometric Experiment*, Merlyn Mebly, NN, **73**, 39.  
*Analyse D'Une Des Caracteristiques des Etoiles Ap: La Depression a 5200 Å*, Gilles Joncas, **74**, 261.  
*AO Camelopardalis*, E. F. Milone, D. H. Piggott & S. L. Morris, **76**, 90.  
*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.  
*Photometry Among the Climatically Underprivileged*, J. D. Fernie, **76**, 224.  
*A Simple and Accurate On-Line Data Acquisition Program*, M. Pim FitzGerald & Ian Shelton, **76**, 337.  
*The Open Cluster Tombaugh 1 and Its Neighbouring Cepheid XZ Canis Majoris*, David G. Turner, **77**, 31.  
*Study of the Open Cluster IC 1805*, U. C. Joshi & Ram Sagar, **77**, 40.  
*Space Reddenings for Six Cepheid Variables*, David G. Turner, **78**, 229.  
*Five Suspected  $\beta$  Cephei Stars Revisited*, John R. Percy, **78**, 241.  
*UBV Photographic Photometry of Ruprecht 36*, B. Cameron Reed, **79**, 1.  
*A Note on Two RS Canum Venaticorum Stars: LX Persei and SZ Piscium*, John R. Percy, **79**, 113.  
*The Semiregular Variable 57 Pegasi*, J. Tremko & G. A. Bakos, **80**, 230.  
*An Attempt to Use Narrow-Band H $\alpha$  Photometry to Estimate Levels of Stellar Activity*, S. M. Rucinski, **81**, 36.  
*Off the Deep End: Two Amateurs Try the Real Thing*, Mary Lou Whitehorne & Chris Brown, B, **1**, 2, 4.  
*How Astronomer's Captured an Asteroid*, John Howell, B, **1**, 4, 4.  
*A Complete Spectral Analysis of the Flare of the Quasar 3C 273*, Alberto C. Sadun, **86**, 15.  
*Progress in CCD Photometry*, Peter B. Stetson, **86**, 71.  
*Observations of Mars in 1990-91*, Richard W. Schmude, Jr., **86**, 117.  
*Observations of Mars in 1990-91*, Richard W. Schmude, Jr., **87**, 251.



- Wideband Photometry of Mercury, Venus, Jupiter, Callisto and Saturn*, Richard W. Schmude, Jr., **87**, 133.
- Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- The Light Curves of the Asteroids (198) Ampella, (481) Emita and (772) Tanete*, Larry Bogan, Russell Robb & D. D. Balam, **88**, 55.
- Observations of Mars in 1992-93*, Richard W. Schmude, Jr. & Danny Bruton, **88**, 69.
- HR 9053: A Lightly Reddened G Supergiant*, Nancy Remage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.
- CCD Photometry of Nova Cassiopeiae 1993 With a Small Telescope*, Kerry Kijewski, Brian E. Martin, Tyler Foster & Douglas P. Hube, **89**, 43.
- The Light Curve of V1765 Cygni: A Close Binary System with a Supergiant Companion*, John R. Percy & Najam Khaja, **89**, 91.
- Observations of Mars in 1994-95*, Richard W. Schmude, Jr., **90**, 193.
- Further Observations of HR 4483, A Small-Amplitude Red Variable Star*, Raymond R. Thompson, **90**, 206.
- Observations: Radar**
- A Bright Fireball Observed Photographically, By Radar and Visually*, F. R. Park & B. A. McIntosh, **61**, 25.
- The Leonids*, Peter M. Millman, **61**, 89.
- Path of the Fireball of June 14, 1967*, Bruce A. McIntosh, **61**, 191.
- Radar Meteor Observations from Opposite Hemispheres*, Colin S. L. Keay, **61**, 358.
- Observations: Spectroscopic**
- A Study of the Spectroscopic Binary 47 Andromedae*, J. Murray Fletcher, **61**, 56.
- Of Stars and the Galaxy*, Alan H. Batten, **61**, 241.
- Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Remage & Vicki Watt, **61**, 339.
- Spectrographic Orbit and Photometric Observations of HD 217312 in the III Cephei Association*, J. F. Heard & J. D. Fernie, **62**, 99.
- The Spectrum of Nova Vulpeculae (1968)*, John F. Heard, **63**, 45.
- The Spectrographic Orbit of H. D. 161701*, Douglas P. Hube, **63**, 229.
- HD 176318: A Second Epoch Spectrographic Orbit*, Douglas P. Hube, **64**, 98.
- International Solar Flash-Spectrum Experiment*, **64**, 201.
- Image Orthicon Meteor Spectra*, Peter M. Millman, **64**, 371.
- The Spectroscopic Orbits of the Binary Systems HD 91948 and HD 176318*, Walter L. Gorza, **65**, 277.
- Giacobinid Meteor Spectra*, Peter M. Millman, **66**, 201.
- Distribution of O to B9 Stars and Dust in a Region in Puppis ( $\ell = 245^\circ$ ,  $b = -0.2^\circ$ )*, W. J. F. Wilson & M. Pim FitzGerald, **66**, 254.
- The Spectrographic Orbit of HD 193964*, Douglas P. Hube, **67**, 161.
- Spectrographic Observations of the Visual Binary Burnham 1163 During Periastron Passage*, J. Murray Fletcher, **67**, 255.
- The Orbit of the Am Spectroscopic Binary HD 82191*, John F. Heard & Roel Hurkens, **67**, 306.
- Radial Velocities of Stars with Moderately Broad-Lined Spectra*, D. P. Hube, **68**, 143.
- Distribution of Giant M and Carbon Stars in a Region in Puppis ( $\ell = 246^\circ$ ,  $b = -0.6^\circ$ )*, Kenneth A. Kirton & M. Pim FitzGerald, **68**, 154.
- The Orbit and Nature of  $\theta^2$  Orionis A*, G. C. L. Aikman & B. A. Goldberg, **68**, 205.
- The Orbit of the Spectroscopic Binary HD 11291*, John F. Heard & Arno Krautter, **69**, 22.
- The Orbit of the Double-Line Spectroscopic Binary HD 153720*, John F. Heard & Roel J. Hurkens, **69**, 25.
- Studies of 12 (DD) Lacertae*, John F. Heard, Roel J. Hurkens, John R. Percy & Mario Porco, **70**, 213.
- The Visual and Near-Infrared Spectra of Planetary-Nebulae Nuclei*, Lawrence H. Aller, **71**, 67.
- A Search for Polyatomic Molecular Lines in the Photographic Spectral Region of Carbon Stars*, Y. Fujita, **71**, 115.
- New Observations of HD 218154*, Jim Thomson & C. T. Bolton, **71**, 259.
- The Hydrogen-Line Strength Variations in the Ap Star HD 184905*, John B. Rice, **72**, 194.
- The Night-Sky Spectrum of the City of Toronto*, Mary C. Lane & R. F. Garrison, **72**, 198.
- A Study of the Extinction in the Young Open Cluster NGC 6823*, David G. Turner, **73**, 74.
- A Solar Flash Spectrum for 26th February, 1979*, Christopher Corbally, **73**, 263.
- Flash Spectrum Experiment*, Mike Wesolowski, NN, **73**, 40.
- Stellar Spectroscopy — A Personal Approach*, Clive Gibbons, NN, **73**, 74.
- Recent Observations of HD 127617 — Bidelman's High-Latitude Be Star*, David G. Turner & Ronald W. Lyons, **74**, 12.
- Experience D'Astronomie Avancee: Spectroscopie Moleculaire a Moyenne Dispersion de Jupiter et Saturn*, R. Boudreault, S. Fleurant & A. F. J. Moffat, **74**, 93.
- A Redetermination of the Orbit of HD 192276*, Douglas P. Hube & Andrew Lowe, **74**, 342.
- The Spectroscopic Orbit of HD 131511*, Karl W. Kamper & Ronald W. Lyons, **75**, 56.
- The Spectroscopic Orbit of HD 225292*, R. F. Griffin, **75**, 222.
- The Spectrum of the Solar Disk*, R. F. Garrison & Linda Zimmerman, **77**, 78.
- Coudé Radial Velocities of  $\zeta$  Herculis*, C. D. Scarfe, H. Funakawa, P. A. Delaney & David J. Barlow, **77**, 126.
- Revised Orbital Elements for the Spectroscopic Binary HD*

- 92000 (36 Leo Minoris), A. H. Batten, J. M. Fletcher & Robert D. McClure, **77**, 241.
- Spectral Classification of Southern-Hemisphere Mira Variables*, Richard Crowe, **78**, 103.
- The Spectroscopic Orbit of HR 1878*, R. F. Griffin, **78**, 151.
- Confirmation of the Decreased Pulsational Amplitude of Polaris*, Karl W. Kamper, Nancy Remage Evans & Ronald W. Lyons, **78**, 173.
- The Quadruple System HR 3337*, Gustav A. Bakos, **79**, 119.
- Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.
- The Spectroscopic Orbits of HD 44780 and 65 Geminorum*, R. F. Griffin, **80**, 91.
- The Semiregular Variable 57 Pegasi*, J. Tremko & G. A. Bakos, **80**, 230.
- The Orbit of the Visual Binary KPR 114 (HR 8629)*, R. F. Griffin & W. D. Heintz, **81**, 3.
- A First Observation of the Chromospheric Spectrum of the  $\zeta$  Aurigae Binary HR 6902*, R. E. M. Griffin, **82**, 49.
- On the Diatomic and Triatomic Hydrogen Molecules in the Planetary Nebula NGC 7027*, Grant Gussie & Chris Pritchett, **82**, 69.
- The Spectroscopic Orbit of HD 53299A*, C. D. Scarfe, R. Griffin & R. Griffin, **82**, 128.
- A New Look at HD 93075*, Douglas P. Hube, **83**, 26.
- The Extended Spectrum of NGC 5846*, T. J. Davidge, **85**, 131.
- Off the Deep End: Two Amateurs Try the Real Thing*, Mary Lou Whitehorne & Chris Brown, **B**, 1, 2, 4.
- A Complete Spectral Analysis of the Flare of the Quasar 3C 273*, Alberto C. Sadun, **86**, 15.
- A New Spectroscopic Orbit for Delta Capricorni*, A. H. Batten & J. M. Fletcher, **86**, 99, 269.
- Spectroscopic Observations of the Binary Be Star Phi Persei*, M. L. Whitehorne, **86**, 178.
- Spectroscopic Orbit Elements for the A-Type Binary HD 208509*, Douglas P. Hube & Alan H. Batten, **86**, 259.
- Spectroscopic Orbital Elements for HD 51892*, Douglas P. Hube, **86**, 325.
- Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- HR 9053: A Lightly Reddened G Supergiant*, Nancy Remage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.
- The Stickman, the Great Wall, and the HECTOSPEC: Large-Scale Structure in the Universe*, Margaret J. Geller, **88**, 283.
- f-Values*, Jeremy Tatum, **B**, 5, 4, 6.
- Observations: Visual**
- A Bright Fireball Observed Photographically, By Radar and Visually*, F. R. Park & B. A. McIntosh, **61**, 25.
- An Observation of the "Fata Morgana" in the Canadian Winter*, Ian Halliday, **61**, 74.
- The I. G. C. (1966) Visual Meteor Program — Progress Report No. 12*, Peter M. Millman, **61**, 151.
- The Fireball of April 25, 1966. I, Canadian Visual Observations*, B. A. McIntosh & J. A. V. Douglas, **61**, 159.
- Observation à Montréal à L'Occasion de L'Arrivée du Surveyor 5 sur la Lune*, Pierrette Jean, **62**, 43.
- The Optical Projection of Solar and Lunar Objects on a Modified Translucent Viewing Screen*, Donovan H. Fallows, **62**, 259.
- The I. G. C. (1967) Visual Meteor Program — Progress Report No. 13*, Peter M. Millman, **62**, 387.
- Vilna Meteorite — Camera, Visual, Seismic and Analytic Records*, R. E. Folinsbee, L. A. Bayrock, G. L. Cumming & D. G. W. Smith, **63**, 61.
- Telescopic Observation of a Meteor and Its Train*, W. A. Feibelman, **63**, 189.
- Study of the Planet Saturn by the Hamilton Centre*, K. E. Chilton, **64**, 53.
- The Leonids — 1969*, Peter M. Millman, **64**, 55.
- Meteoritic Flux Determined from Visual Observations*, Peter M. Millman, **64**, 187.
- Nova Delphini 1967*, Herbert A. Lange, **64**, 311.
- Mars: The Opposition of 1969*, Kenneth E. Chilton, NN, **64**, 17.
- Photometric Weather at Toronto*, J. D. Fernie, **66**, 249.
- Observing a Synchronous Satellite*, Roy L. Bishop, NN, **69**, 5.
- The 1974 Geminids*, Robert McCallum, NN, **69**, 20.
- Light Pollution in Southern Ontario*, Richard L. Berry, **70**, 97.
- On Variable Stars*, Steve O'Connor, NN, **71**, 4.
- The Kitchener Daylight Fireball of November 4, 1977*, A. A. Griffin & I. Halliday, **72**, 189.
- Mars*, John N. R. Scatliff, NN, **72**, 17.
- Sun Spot*, G. Westcott, NN, **74**, 32.
- Observations of Solar Activity*, Angelika Kahrkling, NN, **74**, 59.
- Observations of a Variable Galaxy*, Dave Holmgren, NN, **74**, 60.
- The Dark Rings of Saturn*, Alan Whitman, NN, **74**, 93.
- A Fire in the Sky*, Stewart Krysko, NN, **75**, 27.
- Getting Started in Variables*, David H. Levy, NN, **75**, 69.
- Lunar Eclipse of July 16-17*, Bruce Barnes, NN, **75**, 71.
- Perseids 1981*, Bruce Waters, NN, **75**, 73.
- Sketching Hevel*, Maritta Ellis, NN, **76**, 31.
- July's Long Total Lunar Eclipse*, Deane D. McIntyre, NN, **76**, 61.
- Bright February Fireball*, Leo Enwright, NN, **77**, 19.
- A Mysterious Object*, Todd Lohvinenko, NN, **77**, 19.
- An Occultation by 690 Wratislavia*, Andrew Lowe, NN, **77**, 39.
- Aurora at Hamilton Centre Observatory Site*, Michael DeVillaer, NN, **77**, 41.
- The Moon by Eye and Film*, Jillian Buriak & John Hicks, NN, **77**, 44.
- A Quadrantid Fireball*, David Rechtshaffen, NN, **77**, 47.
- Vénus en Janvier 1985*, Marc A. Gélinas, NN, **79**, 53.
- Outburst of RS Ophiuchi*, Warren Morrison, NN, **79**, 69.
- The Unusual Auroral Outburst of August 12-13, 1985*, Leo Enwright, NN, **79**, 80.
- Two Alberta Fireballs in 1985*, R. E. Folinsbee, D. G. W.

- Smith, D. P. Hube & K. J. Finstad, **80**, 312.  
*Perseid Shower 1986*, Peter Brown & Mark Zalcik, NN, **80**, 91.  
*Eyewitness Report: Spica Snuffed for 53 Minutes*, Mark Zalcik, NN, **81**, 48.  
*Mars 1986 Opposition*, Richard W. Schmude, Jr., **82**, 19.  
*A View of Uranus and Neptune*, Richard W. Schmude, Jr., NN, **82**, 86.  
*The Daylight Fireball of January 20, 1988*, G. C. L. Aikman, P. F. Younger & D. H. Weichert, **83**, 232.  
*Observations of Mars in 1988*, Richard W. Schmude, Jr., **83**, 405.  
*Supernova 1989B*, Murray Paulsen, NNB, **83**, 44.  
*Distant View of Mars*, Richard W. Schmude, Jr., NNB, **84**, 77.  
*Occultation pas Pallas*, Alain Roussel, B, **1**, 3, 8.  
*How Astronomer's Captured an Asteroid*, John Howell, B, **1**, 4, 4.  
*The Fall of the Abee Meteorite and Its Probable Orbit*, Arthur A. Griffin, Peter M. Millman & Ian Halliday, **86**, 5.  
*Observations of Mars in 1990-91*, Richard W. Schmude, Jr., **86**, 117.  
*Observations of Mars in 1990-91*, Richard W. Schmude, Jr., **87**, 251.  
*The Small Moon Illusion*, Alister Ling, B, **2**, 2, 5.  
*Venus Comes Close — March 1993*, Michael S. F. Watson, B, **3**, 3, 4.  
*Lessons from a Partial Solar Eclipse*, Todd Lohvinenko, B, **3**, 4, 4.  
*The 1993 Perseid "Sprinkle"*, David M. F. Chapman, B, **3**, 5, 4.  
*Observations of Mars in 1992-93*, Richard W. Schmude, Jr. & Danny Bruton, **88**, 69.  
*The Value of Fireball Reports from the General Public: The October 30, 1993 Western Canada Fireball as a Case Study*, Richard Huziak & Gordon Sarty, **88**, 332.  
*Observations of Jupiter in 1994*, Richard W. Schmude, Jr. & Danny Bruton, **89**, 257.  
*Observations of Mars in 1994-95*, Richard W. Schmude, Jr., **90**, 193.  
*Sketching Globular Star Clusters*, Mark Bratton, B, **6**, 3, 5.  
*Observing Spiral Structure in Galaxies*, Mark Bratton, B, **6**, 5/6, 7.
- Observatories** (see also Notes from Observatories, Telescopes)  
*Of Stars and the Galaxy*, Alan H. Batten, **61**, 241.  
*Astronomy at the David Dunlap Observatory 1935-1967*, John F. Heard & Helen Sawyer Hogg, **61**, 257.  
*Facilities for Visitors at KPNO and CTIO*, N. U. Mayall, **62**, 85.  
*A Control Console for the Dunlap 74-Inch Telescope*, John F. Heard & Frank Hawker, **62**, 91.  
*New Measures of Stellar Diameters*, Ian Halliday, **62**, 197.  
*Fifty Years at the Dominion Astrophysical Observatory*, K. O. Wright, **62**, 269.  
*Some Recollections of the Observatory (1924-1935)*, Joseph A. Pearce, **62**, 287.  
*Early Days at the Dominion Astrophysical Observatory*, C. S. Beals, **62**, 298.  
*The Spectrographs of the Dominion Astrophysical Observatory*, E. H. Richardson, **62**, 313.  
*Studies of the Interstellar Medium at the Dominion Astrophysical Observatory*, G. A. H. Walker, **62**, 361.  
*New University of Western Ontario Observatory Opened*, William Wehlau, **63**, 318.  
*New Observatory of the University of Western Ontario*, William Wehlau, **64**, 1.  
*R. M. Petrie and the B-Star Program of the Dominion Astrophysical Observatory*, Jean K. Petrie, **64**, 163.  
*A New Amateur Observatory in Montreal*, M. Lucien E. Coallier, **64**, 194.  
*Observatory to be Named for RASC Member*, **65**, 134.  
*The Early History of Astronomical Activity in the Canadian Public Service*, R. Meldrum Stewart, **65**, 206.  
*North Mountain Observatory Well and Truly Opened*, Tom Tothill, NN, **65**, 25.  
*The University of Calgary Astrophysical Observatory Opened*, F. John Howell, **66**, 161.  
*Termination of the U. S. Naval Observatory Solar Program*, A. E. Covington, **66**, 165.  
*The Newton Observatory*, J. B. Newton, **66**, 224.  
*Observatory for Montreal Centre*, NN, **66**, 10.  
*The Burke-Gaffney Observatory*, NN, **66**, 34.  
*The Canada-France-Hawaii Telescope*, J. L. Locke, **67**, 203.  
*How to Find the Montreal Centre Observatory*, NN, **67**, 7.  
*Progress at Saskatoon Centre*, Ron Waldron, NN, **67**, 12.  
*About the New Telescope*, NN, **67**, 14.  
*News from the Bahamas*, NN, **67**, 24.  
*New Director of Royal Greenwich Observatory*, J. E. Kennedy, **68**, 42.  
*Presentation of Canadian Spectrograph to Polish Observatory*, **68**, 268.  
*Historic 15-Inch Refractor Removed from Dome in Ottawa*, **68**, 272.  
*An Observatory for the Hamilton Centre*, NN, **68**, 6.  
*University of Toronto Staff Build 60 Foot Radio Telescope*, NN, **68**, 15.  
*David Dunlap Observatory Faces Problems of Light Pollution*, NN, **68**, 28.  
*Progress on the CFHT 3.6 m Mirror at the DAO*, K. O. Wright, **69**, 46.  
*The Old Dominion Observatory*, A. E. Covington, **69**, 86.  
*Royal Observatory, Greenwich*, A. Vibert Douglas, **69**, 140.  
*David Dunlap Observatory Forty Years Old*, John F. Heard, **69**, 141.  
*The Dominion Astrophysical Observatory 1918-1975*, K. O. Wright, **69**, 205.  
*Plaque Unveiled at Dominion Observatory for W. F. King*, A. E. Covington, **69**, 286.  
*The Old Dominion Observatory*, A. E. Covington, NN, **69**, 6.  
*Rules, Rules and a Few Regulations*, NN, **69**, 22.  
*Preliminary Report on the University of Alberta's 20-inch Reflector*, Jack Winzer, NN, **69**, 42.  
*L'Astronomie au Quebec*, René Racine, **70**, 138.  
*The University of Alberta Observatories*, D. Hube, NN, **70**, 29.  
*The Birth of Canadian Astrophysics: J. S. Plaskett at the*

- Dominion Observatory*, R. A. Jarrell, **71**, 221.
- An Eighteenth Century Nova Scotia Observatory*, Roy L. Bishop, **71**, 425.
- The Astronomy Display at the Burke-Gaffney Observatory*, David L. DuPuy, **71**, 470.
- The U of A Campus Observatory*, Doug Hube, NN, **71**, 4.
- A New Amateur Observatory*, Jack Newton, NN, **71**, 7.
- L'Observatoire du Collège de Lévis*, Damien Lemay, NN, **71**, 35.
- Winnipeg Centre Observatory*, NN, **71**, 61.
- Castle Frederick, Nova Scotia*, NN, **71**, 64.
- From Telescope to Observatory*, Gregory E. Bailey, NN, **71**, 72.
- The Innisfree Meteorite and the Canadian Camera Network*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **72**, 15.
- Joseph Everett and the King's College Observatory*, Roy L. Bishop, **72**, 138.
- Educational Material in Astronomy Produced and Distributed by Canadian Observatories, Museums, and Planetariums*, John R. Percy, **72**, 168.
- L'Observatoire Astronomique du Mont Mégantic: Un Nouvel Observatoire D'Envergure au Canada*, René Racine, **72**, 324.
- Nouveaux Instruments a L'Observatoire du College de Levis*, NN, **72**, 88.
- M. de Chabert and the 1750 Louisbourg Observatory*, R. C. Brooks, **73**, 333.
- Vancouver to Acquire Observatory for Public Viewing*, NN, **73**, 18.
- A Setback But Not a Disaster*, Del Stevens & Phyllis Belfield, NN, **73**, 46.
- The Rystrom Observatory: Part I*, G. N. Patterson, NN, **73**, 90.
- Astronomy at King's College, Windsor, Nova Scotia*, William J. Calnen, **74**, 57.
- Astronomy and Basic Science*, G. Herzberg, **74**, 70.
- Opening of the Canada-France-Hawaii Telescope*, Don Fernie, **74**, 101.
- The Rystrom Observatory: Part II*, G. N. Patterson, NN, **74**, 5.
- A Telescope Farm*, David H. Levy, NN, **74**, 19.
- Royal Greenwich Observatory Forced to Discontinue Lunar Occultation Work*, NN, **74**, 24.
- Glenlea Observatory Officially Reopens*, NN, **74**, 30.
- Victoria Revisited*, Helen Sawyer Hogg, NN, **74**, 78.
- The Royal Astronomical Society of Canada Victoria Centre Presents Travelling Observatory Project*, Leo Vander Byl, NN, **74**, 90.
- Le Telescope Canada-France-Hawaii: Gestation, Enfance et Avenir*, René Racine, **75**, 305.
- Kitchener-Waterloo Centre Inaugurated*, B. R. Chou, NN, **75**, 3.
- Kew Observatory Closed*, NN, **75**, 13.
- Chaos at DDO*, Donald MacRae, NN, **75**, 56.
- Chaos Epilogue*, Donald MacRae, NN, **75**, 77.
- The 6-Inch Cooke Refractor in Toronto*, Brian Beattie, **76**, 109.
- Early Days of Astronomy at Toronto — Part III The Example of Ormsby MacKnight Mitchel and the Cincinnati Observatory*, Helen Sawyer Hogg, **76**, 149.
- The Woodstock College Observatory*, Philip Mozel, **76**, 168.
- A Recent Valuable Acquisition by the Library of the Dominion Astrophysical Observatory*, Alan H. Batten, **76**, 382.
- My Observatory: All Good Things Take Time*, Roberto Abraham, NN, **76**, 7.
- Astronomy in New Zealand*, Don Hladiuk, NN, **76**, 9.
- A Dream Come True*, Ulrich J. Krull, NN, **76**, 21.
- Sliding to the Stars at Jarnac Observatory*, David H. Levy, NN, **76**, 40.
- Growth of Light Pollution at the David Dunlop Observatory*, NN, **76**, 45.
- A Visit to Kitt Peak's Solar Telescopes*, David H. Levy, NN, **76**, 71.
- A Backyard Observatory*, Michael J. Cook, NN, **77**, 8.
- Another Newton Observatory!*, Jack Newton, NN, **77**, 43.
- My "Roger Bacon Observatory"*, Lucien J. Kemble, NN, **77**, 62.
- Astronomy on the Fenian Plan*, Mike McKay, NN, **78**, 12.
- Dial "M" for MMT*, Doug Welch, NN, **78**, 60.
- The Ill-Fated Sept-Iles Observatory*, Bernard Bois, NN, **78**, 90.
- The Return of "Elms Lea"*, J. D. Fernie, NN, **79**, 8.
- Times Past: A Look at Earlier Days of the Montreal Centre's Observatory*, David H. Levy, NN, **79**, 13.
- Fifty Years of Public Viewing: Notes on a 12-Inch Cassegrain on Mount Wilson*, David H. Levy, NN, **79**, 18.
- The Amateur Astronomy Centre*, B. R. Chou, NN, **79**, 27.
- Nitrate You Say? Pity ...*, J. D. Fernie, NN, **79**, 35.
- Light Pollution and Community Relations*, C. T. Bolton, NN, **79**, 62.
- CASCA Celebrates 50<sup>th</sup> Anniversary of the David Dunlap Observatory*, John R. Percy, NN, **79**, 85.
- Fundraising for a New Canadian Telescope*, NN, **79**, 87.
- The Designation of Radio Sources Observed With the DRAO Synthesis Telescope*, L. A. Higgs, **80**, 51.
- The Kingston Observatory*, V. A. Hughes, **80**, 124.
- Historic Occasion for Astronomy in Kingston*, Leo Enwright, NN, **80**, 3.
- New "Oldest-Operating" Telescope*, NN, **80**, 4.
- Visiting the Wilson Coulee Observatory*, Brian Burke, NN, **80**, 14.
- A Visit to the Ball Observatory*, B. Franklyn Shinn, NN, **80**, 35.
- Observing at the Special Observatory*, W. H. Wehlau, NN, **80**, 40.
- First Radio Quasar Observed by Amateur*, Frank Roy, NN, **80**, 51.
- The Evaluation of Scientific Research: A Brief Study of Citations to Research Papers from the Dominion Astrophysical Observatory*, Charles J. Peterson, **81**, 30.
- Astronomy (and Some Other Things) in China*, Alan H. Batten, **81**, 147.
- Algonquin Radio Observatory to Close*, NN, **81**, 7.
- Brighter Skies for DDO*, NN, **81**, 8.
- Greenwich Observatory on the Move*, NN, **81**, 64.
- James Clerk Maxwell Telescope*, NN, **81**, 87.
- The Wafra Observatory*, Abdul Ilah Marafie, NN, **81**, 92.
- Memories of the Plaskett Era of the Dominion*

- Astrophysical Observatory, 1931-1934*, Helen Sawyer Hogg, **82**, 328.
- World's Largest Telescope*, NN, **82**, 4.
- Observing on the Kuiper Airborne Observatory*, Neil Rowlands, NN, **82**, 34.
- Arabian, not Persian Gulf*, Abdul Ilah Marafie, NN, **82**, 41.
- A European Telescope for 2001*, Peter McSweeney, NN, **82**, 58.
- Observatory Opens at Cobalt-Haileybury High School*, Peter Ryback, NN, **82**, 60.
- Fibre-Linked Spectroscopy at the David Dunlap Observatory*, NN, **82**, 64.
- The DRAO Galactic Plane Survey*, Lloyd A. Higgs, **83**, 105.
- The UTSO CCD*, Marshall L. McCall, Jayanne English & Ian Shelton, **83**, 179.
- Viewing the Planets Through Century-Old Glass*, Terence Dickinson, NNB, **83**, 6.
- "First Light" for NNT*, Ian McGregor, NNB, **83**, 55.
- La Construction du Télescope Canada-France-Hawaii*, R. Cayrel, **84**, 3.
- The University of Toronto Southern Observatory: A Discussion of Productivity, 1979-1986*, R. F. Garrison & Brian Beattie, **84**, 246.
- Dorpat and Pulkova: An Astronomer's Pilgrimage*, Alan H. Batten, **84**, 253.
- A Brief History of the Indian River Observatory Radio Interferometer*, Frank Roy & Ken Tapping, **84**, 260.
- Dedication of the Helen Sawyer Hogg Observatory*, Tom Bolton, NNB, **84**, 3.
- The Madras Observatory, 1792-1931*, C. K. Ananthasubramanian, **85**, 97, 223.
- The Madras Observatory, 1792-1931*, C. K. Ananthasubramanian, **88**, 170.
- Vatican Observatory: 100th Anniversary*, William Lonc, **85**, 378.
- Improvements to the PDS Microdensitometer of the Dominion Astrophysical Observatory*, J. R. Stilburn, P. B. Stetson & W. A. Fischer, **86**, 140.
- Dedication of University of Toronto's 61 cm Telescope in Chile in Honour of Professor Helen Sawyer Hogg*, E. R. Seaquist, **86**, 332.
- A Brief Tour of the Dominion Radio Astrophysical Observatory*, Tim Novak, B, **2**, 5, 4.
- The Canada-France-Hawaii Telescope and George Willis Ritchey's Great Telescopes of the Future*, Donald E. Osterbrock, **87**, 51, 164.
- A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 151, 344.
- The Instrument Was Instrumental: Plaskett's Telescope and Canadian Astronomy Between the Wars*, Richard A. Jarrell, **87**, 218.
- Scientific Highlights from the Dominion Astrophysical Observatory*, Robert D. McClure, **87**, 282.
- From 1.8 to 8 m Telescopes*, David Crampton, **87**, 299.
- The Beijing Ancient Observatory and Intercultural Contacts*, P. A. L. Chapman-Rietschi, **88**, 24.
- Gemini Project News*, John Hutchings, **89**, 266.
- Extracts from the Diaries of the University of Toronto Southern Observatory. I. The Old Days*, William E. Harris, **90**, 7, 167.
- Twelve Years on the Palomar 18-Inch Schmidt*, Carolyn S. Shoemaker, **90**, 18.
- Extracts From the Diaries of the University of Toronto Southern Observatory. II. The Night of the Supernova*, Barry F. Madore, Robert Jedzrejewski & Jaymie M. Matthews, **90**, 69.
- The Canada-France-Hawaii Telescope and Gemini*, John Hutchings, **90**, 97.
- Extracts From the Diaries of the University of Toronto Southern Observatory. III. Our Lady of Tilden and Other Tales*, Jaymie M. Matthews, **90**, 115.
- Extracts From the Diaries of the University of Toronto Southern Observatory. IV. Pot-Pourri*, J. Donald Fernie, Barry F. Madore, Max Faúndez-Abans, Mart de Groot, Richard A. Crowe, Robert F. Garrison & Jaymie M. Matthews, **90**, 270.
- Construction Begins on Halifax Observatory*, B, **6**, 3, 8.

### Observer's Cage

- Observer's Cage*, David H. Levy, NN, **80**, 57, 79, 92.
- Observer's Cage*, David H. Levy, NN, **81**, 8, 30, 43, 55.
- Saying Goodbye*, David H. Levy, NN, **81**, 73.
- Astronomical Nationalism?*, David H. Levy, NN, **81**, 85.
- Our Handbook*, David H. Levy, NN, **82**, 5.
- Observer's Cage*, David H. Levy, NN, **82**, 26.
- That Other Amateur Group*, David H. Levy, NN, **82**, 42.
- Observer's Cage 13*, David H. Levy, NN, **82**, 52.
- Your Sky*, David H. Levy, NN, **82**, 73.
- Observer's Cage 15*, David H. Levy, NN, **82**, 89.
- A Messier Marathon*, David H. Levy, NNB, **83**, 10.
- What Do We Get From the Journal?*, David H. Levy, NNB, **83**, 31.
- The Observer's Cage*, David H. Levy, NNB, **83**, 36, 60.
- Lives*, David H. Levy, NNB, **83**, 80.
- Music of the Spheres*, David H. Levy, NNB, **83**, 89.
- Have You Ever Seen ...*, David H. Levy, NNB, **84**, 8.
- Observer's Cage*, David H. Levy, NNB, **84**, 26, 48, 64.

### Occultations

- A Report of an Unsuccessful Expedition to Observe a Grazing Occultation*, B. Franklin Shinn, **62**, 52.
- Grazing and Total Lunar Occultations for the Amateur Astronomer*, J. Howell, **63**, 140.
- Grazing Occultations*, David W. Dunham, **63**, 143.
- Occultation of Star by Jupiter Predicted*, NN, **64**, 1.
- Lunar Occultations*, Edward Kipp, NN, **64**, 19.
- Lunar Occultations: Recent Developments*, F. John Howell, NN, **64**, 20.
- More on Lunar Occultations*, NN, **64**, 26.
- Double Graze, June 1970*, Dora Russell, NN, **64**, 26.
- Motion Picture Photography Through the Telescope*, Robert J. Wood, **65**, 239.
- Grazing Occultations*, David W. Dunham, NN, **65**, 19.
- Occultation Highlights, October-December 1971*, David W. Dunham, NN, **65**, 21.
- Grazing Occultations Over Canada During 1972*, L. V. Morrison, **66**, 56.
- Observational Procedures for Visual Double-Star Work*,

Otto G. Franz, **67**, 81.  
*Observing Lunar Occultations*, David Brown, NN, **69**, 23.  
*Daytime and Twilight Observation*, Lucien J. Kemble, NN, **70**, 69.  
*Lunar Occultations*, David Brown, NN, **71**, 28.  
*Early Morning Graze of Venus, May 14*, B. Franklyn Shinn, NN, **71**, 37.  
*Photoelectric Observations of Lunar Occultations at the DAO*, C. L. Morbey, J. M. Fletcher & G. Edwards, **72**, 305.  
*Occultation of SAO 85009 by Pallas on May 29, 1978*, John R. Percy, NN, **72**, 10.  
*Occultations and Eclipses of Saturn's Satellites for 1980*, NN, **73**, 88.  
*In Search of Satellites of Minor Planets*, Paul D. Maley, **74**, 327.  
*Royal Greenwich Observatory Forced to Discontinue Lunar Occultation Work*, NN, **74**, 24.  
*How I Saw a Grazing Occultation From My Backyard (Despite Doing Everything Wrong)*, Alan Whitman, NN, **74**, 37.  
*Occultation Observers, Extinct or in the Closet?*, Neil Laffra, NN, **74**, 38.  
*Chasing Asteroids*, Alan Dyer, NN, **75**, 9.  
*Report on Two Graze Expeditions*, Brian Burke, NN, **76**, 70.  
*The Lunar Eclipse — A Different View*, Richard Linkletter, NN, **77**, 24.  
*An Occultation by 690 Wratislavia*, Andrew Lowe, NN, **77**, 39.  
*The Spectroscopic Orbits of HD 44780 and 65 Geminorum*, R. F. Griffin, **80**, 91.  
*Eyewitness Report: Spica Snuffed for 53 Minutes*, Mark Zalcik, NN, **81**, 48.  
*Observations About Graze Observations*, Frank Shinn, NN, **81**, 66.  
*Occultation pas Pallas*, Alain Roussel, B, **1**, 3, 8.  
*How Astronomer's Captured an Asteroid*, John Howell, B, **1**, 4, 4.  
*Simultaneous Lunar Occultations of Two Planets*, Michael S. F. Watson, **88**, 213, 405.  
*A Polar Expedition of a Different Kind*, Russ Sampson, B, **4**, 3, 4.

## Okanogan Centre

*Okanagan Centre Born!*, B, **5**, 5, 2.  
*Centre Finances*, B, **6**, 2, 30.

## Optics

*Making an Eight-Inch Achromatic Doublet*, Roy Quade, **61**, 381.  
*Exploring the Universe*, J. L. Climenhaga, **62**, 29.  
*Carl Zeiss — A Prominent Name in Optics*, Ruth J. Northcott, **62**, 84.  
*Une Camera Schmidt Simplifíee avec Tiges Compensatrices*, Yvon Dufour, **62**, 121.  
*The Purkinje Effect*, J. E. Isles, NN, **65**, 6.  
*Sunglasses to See the Stars*, Tony Puerzer, NN, **66**, 32.  
*The Eye*, Rob Dick, NN, **68**, 11.  
*Computer Ray Tracing for Amateur Telescopes*, Robert Pike, NN, **69**, 59.

*Conic Sections*, W. Weller, NN, **69**, 64.  
*Sol III*, Anthony Whyte, NN, **70**, 11.  
*Cassegrain Telescope Systems*, Jack Winzer, NN, **70**, 24.  
*The Many Merits of Modest Magnification*, Roy L. Bishop, NN, **70**, 36.  
*Oculars (Eyepieces)*, G. N. Patterson, NN, **70**, 52.  
*Catadioptric Telescope Systems*, Jack Winzer, NN, **70**, 67.  
*Catadioptric Telescope Systems — II*, Jack Winzer, NN, **70**, 77.  
*Refractor vs. Reflector*, Roy L. Bishop, NN, **70**, 83.  
*Catadioptric Telescope Systems III*, Jack Winzer, NN, **71**, 29.  
*Eye Injuries and the Solar Eclipse*, B. Ralph Chou, NN, **72**, 66.  
*Fabrication d'un Réticule pour Oculaire Utilisé dans la Photographie Astronomique*, Damien Lemay, NN, **73**, 7.  
*Reflections of Reality*, Roy Bishop, NN, **74**, 2.  
*Machining of Glass*, NN, **74**, 8.  
*On Purchasing a Nebular Filter*, Trish Linke, NN, **74**, 47.  
*Protective Filters for Solar Observation*, B. Ralph Chou, **75**, 36.  
*The Liquid-Mirror Telescope as a Viable Astronomical Tool*, Ermanno F. Borra, **76**, 245.  
*A Letter to the Editor*, Robert Dick, NN, **76**, 44.  
*High Contrast Solar H-Alpha Photography for Amateur Astronomers*, John Hicks, NN, **76**, 67.  
*How Few Photons Per Second Can You See?*, Fred Lossing, NN, **78**, 11.  
*Telescope Eyepiece Field in Arc and Time*, Lucien J. Kemble, NN, **78**, 43.  
*What We Bring We Find*, Roy L. Bishop, **80**, 224.  
*Letter to the Editor*, Peter Ceravolo, NN, **80**, 62.  
*Make Your Own Nagler*, Clive Gibbons, NN, **81**, 11.  
*The Value of a Nagler*, Albert Nagler, NN, **81**, 39.  
*In Defence of Quality Products*, Peter Ceravolo, NN, **81**, 40.  
*Binocular Testing*, Paul Bigelow, NN, **81**, 71.  
*The Schmidt-Cassegrain Unveiled*, Peter Ceravolo, NN, **82**, 6.  
*L'Astronomie En Couleur*, Marc A. Gélinas, NN, **82**, 21.  
*Attention Telescope Makers*, Bill Krosney, NN, **82**, 41.  
*Can the Disk of Jupiter Be Glimpsed With the Naked Eye?*, Roland G. Dechesne, B, **1**, 2, 7.  
*Testing Jupiter's Disk*, Clive Gibbons, B, **1**, 3, 2.  
*The Incredible Blinking Reticle*, Grey Saxon, B, **1**, 3, 3.  
*Planets in the Palm of Your Hand*, Brian McCullough, B, **1**, 3, 4.  
*The Small Moon Illusion*, Alister Ling, B, **2**, 2, 5.  
*The Eyes Have It*, Louie Bernstein, B, **2**, 3, 1.  
*Medium-Format Astrophotography*, Rajiv Gupta, B, **4**, 1, 4.  
*"Parfocalizing" Your Eyepieces*, Robert Roy, B, **4**, 4, 3.  
*Astrophotography — Field Rotation*, Rajiv Gupta, B, **4**, 5, 4.  
*Astrophotography — Field Rotation*, C. Musès, B, **4**, 6, 2.  
*Belittling Keck*, Germain Dionne, B, **5**, 1, 4.  
*Eclipse Damage: A Burning Issue*, Alister Ling, B, **5**, 1, 8.  
*The Magic of f-Ratios*, Gary Seronik, B, **5**, 3, 1.

## Ottawa Centre

*What a Gorgeous Eclipse!*, Tom Tothill, NN, **64**, 11.

- Letter to the Editor*, Ken Hewitt-White, NN, **64**, 14.  
*Meteor Observations Continue in Ottawa*, Ken Hewitt-White, NN, **64**, 22.  
*North Mountain Observatory Well and Truly Opened*, Tom Tothill, NN, **65**, 25.  
*General Assembly at Ottawa, May 25-27, 1973*, Marie Litchinsky, NN, **67**, 17.  
*How Do You Observe ... ?*, B. L. Matthews, NN, **68**, 4.  
*Activities of the Centres: Ottawa*, NN, **68**, 18.  
*News from Eastern Centres*, Barry Matthews, NN, **71**, 77.  
*An Inexpensive Photometer for Amateur Astronomy*, R. Dick, A. Fraser, F. Lossing & D. Welch, **72**, 40.  
*RASC "East"*, Barry Matthews, NN, **72**, 37.  
*The James Hargreaves Gift*, Fred Lossing, NN, **72**, 56.  
*From the Eastern Centres*, Barry Matthews, NN, **73**, 12.  
*Activities in the Centres: A Short History of the Ottawa Centre's 0.4m Telescope*, Fred Lossing, **75**, 325.  
*The Ottawa Centre's Radio Telescope*, Ken Tapping, NN, **73**, 12.  
*Secretary's Report*, J. Tapping, NN, **75**, 58.  
*Centres Arrange Summer Observing Sessions*, Peter Jedicke, NN, **76**, 74.  
*Centre News*, Peter Jedicke, NN, **77**, 10.  
*Winter Activities of RASC Centres*, Peter Jedicke, NN, **77**, 20.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*Across the RASC*, Peter Jedicke, NN, **78**, 42.  
*RASC Centres Observe Astronomy Day*, B. R. Chou, NN, **78**, 53.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59.  
*Across the RASC*, Peter Jedicke, NN, **78**, 73.  
*The Ottawa Centre Library*, Peter K. MacKinnon, NN, **78**, 75.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 89.  
*Across the RASC*, NN, **79**, 11, 30, 43.  
*A Successful Astronomy Day*, NN, **79**, 56.  
*Across the RASC*, NN, **79**, 57, 90.  
*Across the RASC*, NN, **80**, 11, 26, 44.  
*First Radio Quasar Observed by Amateur*, Frank Roy, NN, **80**, 51.  
*Across the RASC*, NN, **80**, 52, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 24, 61, 68, 84.  
*Across the RASC*, NN, **82**, 9, 27, 38, 53, 83.  
*Across the RASC*, NNB, **83**, 15, 25, 37, 90.  
*The 1990 General Assembly*, Rob McCallum, NNB, **83**, 96.  
*Welcoming Remarks to the Public Symposium "You and the Universe" Held at Carleton University, Ottawa, 1990 June 29*, Robin H. Farquhar, **84**, 297.  
*Across the RASC*, NNB, **84**, 4.  
*"You and the Universe": A Public Symposium for Everyone*, NNB, **84**, 13.  
*Across the RASC*, NNB, **84**, 20, 36.  
*Centennial General Assembly*, Mary Anne Harrington, NNB, **84**, 66.  
*Across the RASC*, NNB, **84**, 90.  
*Centre Reports*, Jane Lund, B, **3**, 2, 13.  
*National and Centre Councils for 1993*, B, **3**, 2, 27.  
*Centre Finances*, B, **3**, 2, 30.  
*Centre Reports*, Jane Lund, B, **4**, 2, 14.  
*National and Centre Councils for 1994*, B, **4**, 2, 31.  
*Centre Finances*, B, **4**, 2, 34.  
*Annual Report Update*, B, **4**, 4, 2.  
*Centre Reports*, Jane Lund, B, **5**, 2, 10.  
*National and Centre Councils for 1995*, B, **5**, 2, 23.  
*Centre Finances*, B, **5**, 2, 26.  
*Centre Reports*, Jane Lund, B, **6**, 2, 13.  
*National and Centre Councils for 1996*, B, **6**, 2, 27.  
*Centre Finances*, B, **6**, 2, 30.
- Planetaria** (see also Notes from Planetaria)  
*The Calgary Centennial Planetarium*, W. H. Stilwell & J. F. Wright, **62**, 75.  
*E. R. Gardner Grinding Machine Serves Winnipeg Planetarium*, B. F. Shinn, **63**, 1.  
*The Future of the Planetarium*, Larry Gilchrist, **64**, 64.  
*A Home Built Planetarium*, James B. Gould, **64**, 196.  
*Recent Progress at the Strassenburgh Planetarium*, Terence Dickinson, **66**, 120.  
*New Planetarium Journal*, **66**, 226.  
*Solar Telescope at Winnipeg to Mark Quincentennial of Copernicus' Birth*, B. Franklyn Shinn, **67**, 88.  
*Planetarium Educators to Meet in October*, **68**, 43.  
*Planetarium Programs*, **68**, 274.  
*Sam Litchinsky Honoured*, NN, **69**, 4.  
*On Planetarium Experiences, Old and New*, H. C. King, NN, **69**, 10.  
*The H. R. MacMillan Planetarium*, David A. Rodger, NN, **70**, 19.  
*Public Interest in Astronomy is High, Winnipeg Planetarium Finds*, Frank Shinn, NN, **70**, 34.  
*The Queen Elizabeth Planetarium*, Paul Deans, NN, **70**, 63.  
*The Stars of Mauna Kea: A New Presentation at Vancouver's MacMillan Planetarium*, David A. Rodger, NN, **71**, 5.  
*Educational Material in Astronomy Produced and Distributed by Canadian Observatories, Museums, and Planetariums*, John R. Percy, **72**, 168.  
*Vancouver to Acquire Observatory for Public Viewing*, NN, **73**, 18.  
*Community Astronomy in British Columbia*, NN, **74**, 50.  
*Impressions of a Planetarium Intern*, Ron Waldron, NN, **76**, 10.  
*Planetariums Commemorate Pioneer 10*, Ian McGregor, NN, **77**, 57.  
*Calgary: Reach for the Stars*, NN, **78**, 5.  
*The Halifax Planetarium*, Pat Kelly, NN, **78**, 46.  
*Another Big Dome for Canada!*, Ian McGregor, NN, **78**, 77.  
*Edmonton Space Sciences Centre Opens*, Douglas P. Hube, NN, **78**, 83.  
*Un Planétarium à L'Institut de Marine du CÉGEP de Rimouski*, Damien Lemay, **79**, 102.  
*Planetarium Association Meets*, NN, **79**, 88.  
*Astronomy Education in Saskatoon Schools*, Ronald M. Waldron, **80**, 110.  
*A High School Planetarium*, John Mrmak & Angelo Zeffiro, NN, **80**, 85.  
*McLaughlin Planetarium's New Astrocentre*, Ian G.

McGregor, NN, **81**, 12.  
*Planetarium Community Meets*, Ian G. McGregor, NN, **81**, 59.  
*Planetarium Community Looks Ahead*, Ian G. McGregor, NNB, **83**, 11.  
*Another Step Towards a New Planetarium in Nova Scotia*, Mary Lou Whitehorne, B, **3**, 4, 11.  
*A Stellar Wind Breezes Into Nova Scotia Schools*, Mary Lou Whitehorne, B, **4**, 6, 5.  
*McLaughlin Planetarium Closure*, **89**, 266.  
*Spaced Out in Nova Scotia!*, Mary Lou Whitehorne, B, **5**, 1, 4.  
*Toronto's Planetarium To Close*, Mary Anne Harrington, B, **5**, 4, 3.  
*Some Good News on the Planetarium Front*, **90**, 58.

## Planets and Satellites: General

*On the Angular Momenta of Stars, Planets and Asteroids*, G. G. Fahlman & S. P. S. Anand, **63**, 36.  
*The Planet That Never Was*, Dora Russell, NN, **64**, 18.  
*Planetary Space Missions for the 1970's*, Martin G. Connors, NN, **64**, 30.  
*The Tenth Planet?*, Thomas Clarke, NN, **66**, 17.  
*The Tenth Planet — A Search and a Problem*, Thomas Clarke, NN, **67**, 1.  
*Sketching the Planets*, Toney Puerzer, NN, **67**, 10.  
*Daylight Observing of Planets*, Lew McQueen, NN, **68**, 10.  
*Good Observing Techniques*, Dave Pristupa, NN, **68**, 20.  
*The Star of Bethlehem*, H. C. King, NN, **68**, 25.  
*Calculation of the Twilight Visibility Function of Near-Sun Objects*, Sidney O. Kastner, **70**, 153.  
*Theory of Planetary Photometry*, Timothy P. Lester, Marshall L. McCall & Jeremy B. Tatum, **73**, 233.  
*What About the "Superconjunction of 1982"?*, Leo Enwright, NN, **74**, 8.  
*"Nine Planet Club"*, Leo Enwright, NN, **74**, 57.  
*The Calculation of Some Planetary Phenomena*, Jean Meeus, **75**, 94.  
*Solar-System Astronomy in Volumes 1-25 of the Journal of the RASC (1907-1931)*, Ian Halliday, **75**, 299.  
*Modifying for the Planets*, Bill Laurence, NN, **78**, 88.  
*Planets in the Daytime*, Carl Savage, NN, **79**, 54.  
*The Rotation of Planets With Satellites*, Jacques Bouet, **80**, 161.  
*Telescopes and Observing*, Peter Ceravolo, NN, **80**, 6.  
*Telescopes and Observing: A Reply*, Terence Dickinson, NN, **80**, 7.  
*The Rotation of Planets with Satellites — Revised Numerical Data*, J. Bouet, **81**, 62.  
*Pluto-Charon: Implications of Bouet's Empirical Relation*, S. Alan Stern, **81**, 157.  
*The Rotations of Planets With Satellites*, Colin Scarfe, **82**, 80.  
*L'Astronomie En Couleur*, Marc A. Gélinas, NN, **82**, 21.  
*Projectiles, Parabolas, and Velocity Expansions of the Laws of Planetary Motion*, J. N. Harris, **83**, 207.  
*Planets in the Palm of Your Hand*, Brian McCullough, B, **1**, 3, 4.  
*A Planetary Periodic Table*, C. Musès, B, **5**, 1, 6.  
*Conjunctions of a Totally Eclipsed Moon With Bright Stars and Planets*, Joe Rao, **90**, 216.

## Planets and Satellites: Individual

### Ariel

*In Search of Sprites: The Discovery of Ariel and Umbriel*, Philip Mozel, **80**, 344.

### Callisto

*Planetary Research*, NN, **64**, 5.  
*Wideband Photometry of Mercury, Venus, Jupiter, Callisto and Saturn*, Richard W. Schmude, Jr., **87**, 133.

### Charon

*Pluto-Charon: Implications of Bouet's Empirical Relation*, S. Alan Stern, **81**, 157.

### Deimos

*Phobos and Deimos to be Explored*, NN, **80**, 25.

### Iapetus

*An Eclipse of Iapetus by Saturn Predicted for October 19, 1977*, C. E. Spratt, NN, **71**, 39.  
*Revised Predictions for Eclipses of Saturn VIII (Iapetus)*, NN, **71**, 56.

### Io

*Io-Related Jovian Decametric Bursts and Io Sodium*, Nathan L. Cohen, **69**, 89.

### Jupiter

*Stationary Conjunction and Near-Conjunctions of Jupiter and Saturn*, Charles H. Smiley, **62**, 181.  
*Occultation of Star by Jupiter Predicted*, NN, **64**, 1.  
*Planetary Research*, NN, **64**, 5.  
*Planetary Space Missions for the 1970's*, Martin G. Connors, NN, **64**, 30.  
*Historical Significance of Five Conjunctions 1226-27*, A. Vibert Douglas, **65**, 129.  
*Phenomena of Jupiter's Brightest Satellites — 1971*, NN, **65**, 1.  
*Satellites of the Outer Planets*, Ian Halliday, **66**, 314.  
*Io-Related Jovian Decametric Bursts and Io Sodium*, Nathan L. Cohen, **69**, 89.  
*Daytime and Twilight Observation*, Lucien J. Kemble, NN, **70**, 69.  
*Les Asteroids*, Damien Lemay, NN, **71**, 31.  
*Amateur Radio Astronomy Part IV*, Ken Tapping, NN, **72**, 60.  
*Like Watching Jupiter?*, NN, **73**, 22.  
*Experience D'Astronomie Avancee: Spectroscopie Moleculaire a Moyenne Dispersion de Jupiter et Saturn*, R. Boudreault, S. Fleurant & A. F. J. Moffat, **74**, 93.  
*Voyages to Giant Worlds*, NN, **75**, 48.  
*Bright Outer Planets*, Philip Mozel, NN, **80**, 56.  
*The Trojan Minor Planets*, Christopher E. Spratt, **82**, 204.  
*Can the Disk of Jupiter Be Glimpsed With the Naked Eye?*, Roland G. Dechesne, B, **1**, 2, 7.  
*Testing Jupiter's Disk*, Clive Gibbons, B, **1**, 3, 2.  
*Wideband Photometry of Mercury, Venus, Jupiter, Callisto and Saturn*, Richard W. Schmude, Jr., **87**, 133.  
*Moonshadow*, Moonshadow, Patrick Kelly, B, **3**, 1, 4.  
*Simultaneous Lunar Occultations of Two Planets*, Michael S. F. Watson, **88**, 213, 405.  
*Observations of 1.4 GHz Continuum Emission from Jupiter During Its Collision With Comet Shoemaker-Levy 9*, John Galt & Susan Watkins, **89**, 135.



*Observations of Jupiter in 1994*, Richard W. Schmude, Jr. & Danny Bruton, **89**, 257.  
*Comet Shoemaker-Levy 9 and Jupiter: The Collision of the Century*, David H. Levy, **90**, 42.  
*Letter to the Editor: Observations of 1.4 GHz Continuum Emission from Jupiter During Its Collision With Comet Shoemaker-Levy 9*, Roland G. Duchesne, **90**, 159.

#### Mars

*Mariners Report on Mars*, Ian Halliday, **64**, 191.  
*Mars: The Opposition of 1969*, Kenneth E. Chilton, NN, **64**, 17.  
*Planetary Space Missions for the 1970's*, Martin G. Connors, NN, **64**, 30.  
*Historical Significance of Five Conjunctions 1226-27*, A. Vibert Douglas, **65**, 129.  
*Observing Mars in 1971*, K. E. Chilton, NN, **65**, 7.  
*Great Moments in Astronomy*, Dora Russell, NN, **65**, 10.  
*Mars in Focus*, Terence Dickinson, **66**, 168.  
*The Traditional Features of Mars Compared with the Geologic Map of the Planet*, Peter M. Millman, **67**, 115.  
*The Nonuniform Recession of the South Polar Cap of Mars*, J. Veverka & J. Goguen, **67**, 273.  
*Daytime and Twilight Observation*, Lucien J. Kemble, NN, **70**, 69.  
*Les Asteroids*, Damien Lemay, NN, **71**, 31.  
*Mars*, John N. R. Scatliff, NN, **72**, 17.  
*Mars Photographed at 1971 Opposition*, Roy Belfield, NN, **72**, 28.  
*Mars Information Packet Available*, NN, **75**, 11.  
*Swift and the Satellites of Mars*, H. L. Armstrong, **77**, 54.  
*Vue de Saturne au Mont Mégantic*, Marc Gélinas, NN, **77**, 63.  
*The 1984 Opposition of Mars*, NN, **78**, 8.  
*Phobos and Deimos to be Explored*, NN, **80**, 25.  
*Bright Outer Planets*, Philip Mozel, NN, **80**, 56.  
*Mars 1986 Opposition*, Richard W. Schmude, Jr., **82**, 19.  
*L'Astronomie En Couleur*, Marc A. Gélinas, NN, **82**, 21.  
*Observations of Mars in 1988*, Richard W. Schmude, Jr., **83**, 405.  
*The Hungaria Group of Minor Planets*, Christopher E. Spratt, **84**, 123.  
*Distant View of Mars*, Richard W. Schmude, Jr., NN, **84**, 77.  
*The Prediction and Discovery of a Martian Trojan Asteroid*, Kimmo A. Innanen, **85**, 151.  
*Observations of Mars in 1990-91*, Richard W. Schmude, Jr., **86**, 117.  
*Observations of Mars in 1990-91*, Richard W. Schmude, Jr., **87**, 251.  
*Observations of Mars in 1992-93*, Richard W. Schmude, Jr. & Danny Bruton, **88**, 69.  
*Observations of Mars in 1994-95*, Richard W. Schmude, Jr., **90**, 193.

#### Mercury

*The Transit of Mercury, May 9, 1970*, NN, **64**, 17.  
*Historical Significance of Five Conjunctions 1226-27*, A. Vibert Douglas, **65**, 129.  
*The November 10 Transit of Mercury*, Jack Newton, NN, **67**, 29.  
*Wideband Photometry of Mercury, Venus, Jupiter,*

*Callisto and Saturn*, Richard W. Schmude, Jr., **87**, 133.

#### Neptune

*Satellites of the Outer Planets*, Ian Halliday, **66**, 314.  
*The Adams-Leverrier Affair*, J. D. Fernie, NN, **70**, 2.  
*The Adams-Leverrier Affair II*, J. D. Fernie, NN, **70**, 20.  
*A View of Uranus and Neptune*, Richard W. Schmude, Jr., NN, **82**, 86.  
*Exploring Our Solar System: The Voyager Adventure*, Joseph Veverka, **84**, 334.

#### Phobos

*Phobos and Deimos to be Explored*, NN, **80**, 25.

#### Pluto

*From Recent Journals — The Mass of Pluto*, NN, **65**, 16.  
*Pluto-Charon: Implications of Bouet's Empirical Relation*, S. Alan Stern, **81**, 157.

#### Saturn

*Stationary Conjunction and Near-Conjunctions of Jupiter and Saturn*, Charles H. Smiley, **62**, 181.  
*Grazing Occultations*, David W. Dunham, **63**, 143.  
*Study of the Planet Saturn by the Hamilton Centre*, K. E. Chilton, **64**, 53.  
*The Moon that Never Was (Maybe?)*, K. E. Chilton, NN, **64**, 27.  
*Historical Significance of Five Conjunctions 1226-27*, A. Vibert Douglas, **65**, 129.  
*Satellites of the Outer Planets*, Ian Halliday, **66**, 314.  
*An Eclipse of Iapetus by Saturn Predicted for October 19, 1977*, C. E. Spratt, NN, **71**, 39.  
*Revised Predictions for Eclipses of Saturn VIII (Iapetus)*, NN, **71**, 56.  
*Occultations and Eclipses of Saturn's Satellites for 1980*, NN, **73**, 88.  
*Experience D'Astronomie Avancee: Spectroscopie Moleculaire a Moyenne Dispersion de Jupiter et Saturn*, R. Boudreault, S. Fleurant & A. F. J. Moffat, **74**, 93.  
*British Astronomical Association Asks for Observations of Saturn During 1964-1970*, NN, **74**, 58.  
*The Dark Rings of Saturn*, Alan Whitman, NN, **74**, 93.  
*Voyages to Giant Worlds*, NN, **75**, 48.  
*The Rotation of Planets With Satellites*, Jacques Bouet, **80**, 161.  
*Bright Outer Planets*, Philip Mozel, NN, **80**, 56.  
*Names for New Satellites*, NN, **82**, 60.  
*L'Astronomie sur Une Étoffe*, Marc A. Gélinas, B, **2**, 1, 4.  
*Wideband Photometry of Mercury, Venus, Jupiter, Callisto and Saturn*, Richard W. Schmude, Jr., **87**, 133.

#### Umbriel

*In Search of Sprites: The Discovery of Ariel and Umbriel*, Philip Mozel, **80**, 344.

#### Uranus

*The Adams-Leverrier Affair*, J. D. Fernie, NN, **70**, 2.  
*The Adams-Leverrier Affair II*, J. D. Fernie, NN, **70**, 20.  
*In Search of Sprites: The Discovery of Ariel and Umbriel*, Philip Mozel, **80**, 344.  
*The Rotation of Planets with Satellites — Revised Numerical Data*, J. Bouet, **81**, 62.  
*Names for New Satellites*, NN, **82**, 60.  
*A View of Uranus and Neptune*, Richard W. Schmude, Jr., NN, **82**, 86.

#### Venus

*Planetary Space Missions for the 1970's*, Martin G. Connors, NN, **64**, 30.  
*Historical Significance of Five Conjunctions 1226-27*, A. Vibert Douglas, **65**, 129.  
*Daytime and Twilight Observation*, Lucien J. Kemble, NN, **70**, 69.  
*Early Morning Graze of Venus, May 14*, B. Franklyn Shinn, NN, **71**, 37.  
*Two Centenaries: The Royal Society of Canada and the Last Transit of Venus, 1882*, Helen Sawyer Hogg, **76**, 362.  
*La Mi-Venus*, Marc A. Gélinas, NN, **77**, 28.  
*Venus? Hmm ...*, *Fifty-Fifty*, Marc A. Gélinas, NN, **77**, 28.  
*Projet d'Observation de la Dichotomie de Venus*, Marc Gélinas, NN, **78**, 38.  
*Vénus en Janvier 1985*, Marc A. Gélinas, NN, **79**, 53.  
*Recurrent Phenomena of Venus and the Earth/Venus Orbital Resonance*, David M. F. Chapman, **80**, 336.  
*The Venus Table of the Dresden Codex and the Movements of the Planet Venus*, Bryan Wells, **85**, 291.  
*La Dichotomie de Vénus en 1989-1990*, Marc A. Gélinas, B, **1**, 2, 6.  
*La Dichotomie de Vénus en 1989-1990*, Marc A. Gélinas, B, **1**, 3, 8.  
*Suspected Brightening of the Venus North Polar Cloud*, Richard Baum, B, **2**, 2, 4.  
*Wideband Photometry of Mercury, Venus, Jupiter, Callisto and Saturn*, Richard W. Schumde, Jr., **87**, 133.  
*Venus Comes Close — March 1993*, Michael S. F. Watson, B, **3**, 3, 4.  
*The Earth-Moon System as Seen From Venus*, B, **3**, 6, 1.  
*Simultaneous Lunar Occultations of Two Planets*, Michael S. F. Watson, **88**, 213, 405.  
*Too Close for Comfort*, John Percy, B, **4**, 1, 2.  
*Land of the Midnight Venus*, John Connelly, B, **6**, 5/6, 4.

## Plasmas

*Plasma Frequency Radiation in Astronomy: What We Learn from Solar Radio Observations*, Henry M. Bradford, **69**, 162.

## Polarization

*Polarization of the Solar Corona*, W. A. Feibelman, **66**, 109.  
*Optical Polarization Properties of Compact Radio Sources*, Raymond Rusk, **84**, 199.

## Q & A

*Are Globular Clusters Gravitational Mirages?*, Richard S. Hill, **90**, 233.

## Québec Centre

*Centre de Québec*, Denis Allaire, NN, **68**, 11.  
*Rapport du Président*, Jean Pierre Bernier, NN, **69**, 55.  
*Centre de Québec*, NN, **72**, 8.  
*Nouvelles des Centres Québécois*, Damien Lemay, NN, **74**, 25, 49.  
*Activities in the Centres: Centre de Québec*, Gilles Caisse, **75**, 326.  
*Nouvelles des Centres Québécois*, Damien Lemay, NN, **75**,

4.  
*Nouvelles des Centres Français*, Damien Lemay, NN, **75**, 20, 44, 75.  
*Nouvelles des Centres Français*, Damien Lemay, NN, **76**, 56.  
*L'Assemblée Générale 1983 à Québec*, Damien Lemay, NN, **77**, 67.  
*The 1983 General Assembly*, Rolf Meier, NN, **78**, 10.  
*Nouvelles du Centre de Québec*, Damien Lemay, NN, **80**, 45.  
*Across the RASC*, NN, **81**, 5, 68.  
*Across the RASC*, NN, **82**, 83.  
*Nouvelles du Québec*, Marc A. Gélinas, NNB, **83**, 85.  
*Nouvelles du Québec*, Marc A. Gélinas, NNB, **84**, 26.  
*L'Astronomie au Canada Français*, Marc A. Gélinas, NNB, **84**, 78.  
*Centre Reports*, Louis Carrier, B, **3**, 2, 14.  
*National and Centre Councils for 1993*, B, **3**, 2, 27.  
*Centre Finances*, B, **3**, 2, 31.  
*National and Centre Councils for 1994*, B, **4**, 2, 31.  
*Centre Finances*, B, **4**, 2, 35.  
*Centre Reports*, Clément Drolet, B, **5**, 2, 11.  
*National and Centre Councils for 1995*, B, **5**, 2, 23.  
*Centre Finances*, B, **5**, 2, 27.  
*National and Centre Councils for 1996*, B, **6**, 2, 27.  
*Centre Finances*, B, **6**, 2, 31.

## Radiation Mechanisms: Bremsstrahlung

*Cosmic Rays and Cosmic X-Rays*, James E. Felton, **64**, 73.

## Radiation Mechanisms: Gravitational

*A Look Inside Black Holes*, Eric Poisson, **84**, 191.  
*Gravitational Wave Astronomy*, Eric Poisson, **87**, 234.

## Radio Astronomy: General

*Canadian Radio Astronomers Record Success*, Ian Halliday, **61**, 196.  
*Recent Developments in Radio Astronomy in Canada*, J. L. Locke, **61**, 324.  
*A Spectroscopic Supersynthesis Radio Telescope*, J. D. Lacey, **62**, 378.  
*New Radio Telescopes in Europe*, Philipp P. Kronberg, **64**, 105.  
*Site-Testing for a Proposed 12 MHz Radio Telescope in Alberta*, F. S. Chute, C. G. Englefield, P. J. R. Harding, C. R. James & D. Routledge, **65**, 49.  
*The 4.57 m Millimetre Wave Telescope at the University of British Columbia*, W. L. H. Shuter & W. H. McCutcheon, **68**, 301.  
*University of Toronto Staff Build 60 Foot Radio Telescope*, NN, **68**, 15.  
*Profiles of Radio Recombination Lines*, L. A. Higgs, **69**, 289.  
*An Interference-Excising Correlator for Radio Astronomy*, B. L. Kasper, F. S. Chute, D. Routledge & J. F. Vaneldik, **72**, 310.  
*Amateur Radio Astronomy Part I*, K. F. Tapping, NN, **72**, 5.  
*Amateur Radio Astronomy Part II*, K. F. Tapping, NN, **72**, 22.  
*Amateur Radio Astronomy Part IV*, Ken Tapping, NN, **72**, 60.

*The Ottawa Centre's Radio Telescope*, Ken Tapping, NN, **73**, 12.  
*Windows in Space*, NN, **73**, 65.  
*Bibliography for Amateur Radio Astronomy*, W. Lonc, NN, **73**, 89.  
*Sundial Made From a Microwave Antenna Honours Canada's Pioneer Radio Astronomer*, V. Gaizauskas, S. Gerylo & J. D. Moore, **74**, 174.  
*Canadian Radio Astronomy — Past, Present, Future?*, J. A. Galt, **75**, 297.  
*Cinquante Annees de Radioastronomie: Progres, Decouvertes et Avenir*, J. P. Vallée, **76**, 1.  
*Algonquin Radio Observatory to Close*, NN, **81**, 7.  
*James Clerk Maxwell Telescope*, NN, **81**, 87.  
*A Play Entitled The Beginning of Radio Astronomy*, Grote Reber, **82**, 93.  
*Origins of Canadian Radio Astronomy*, Arthur E. Covington, **82**, 165.  
*The Twentieth Anniversary of Long-Baseline Interferometry*, J. L. Locke, **82**, 219.  
*Beginnings of VLBI in Canada*, H. P. Gush, **82**, 221.  
*Early Days of Canadian Long-Baseline Interferometry: Reflections and Reminiscences*, N. W. Broten, **82**, 233.  
*Beginnings of Long-Baseline Interferometry in Canada: A Perspective from Penticton*, John Galt, **82**, 242.  
*The Origin and Evolution of the NRAO-Cornell VLBI System*, K. I. Kellerman & M. H. Cohen, **82**, 248.  
*The Future of VLBI*, P. P. Kronberg, **82**, 266.  
*Undergraduate Experiments in Radio Astronomy*, William P. Lonc, **83**, 45.  
*Investigation of Array Configurations for An Aperture-Synthesis Radio Telescope*, Norman C. Treloar, **83**, 92, 429.  
*A Brief History of the Indian River Observatory Radio Interferometer*, Frank Roy & Ken Tapping, **84**, 260.  
*RadioAstron: The World's Largest Radio Telescope*, NNB, **84**, 31.  
*From WYSIWYG to Haloes and Fountains: The Discovery of Galactic Structure*, Judith A. Irwin, **87**, 368.  
*A 3.8-4.2 GHz Solar Radio Telescope Using Satellite TV Components*, James A. Roberts, J. Hajsaleh & R. Benge, **88**, 233.  
*Hectometer Radio Astronomy*, Grote Reber, **88**, 297.  
*A Radio Telescope for the Discovery Park*, William Lonc & Robert Shultz, **89**, 106.

### **Radio Astronomy: Sources: Galaxies**

*Selected H I Observations of Double Galaxies*, Steven D. Peterson & Yervant Terzian, **73**, 215.  
*Revue des Galaxies Exhibant une Trainee Luminuese*, Jacques P. Vallée, **71**, 443.  
*Sol III*, NN, **73**, 65.  
*A Review of Extragalactic Non-Thermal Sources*, D. E. Harris, **74**, 109.  
*A Model for Collimation of Supersonic Beams in Extragalactic Radio Sources*, A. H. Bridle, K. L. Chan & R. N. Henriksen, **75**, 69.  
*Radio Observations of a Neglected 3C Source: 3C 428*, L. A. Higgs & J. P. Vallée, **80**, 180.  
*First Radio Quasar Observed by Amateur*, Frank Roy, NN,

**80**, 51.

*Radio Astronomy Rediscovered*, Sherri Aker & William P. Lonc, **81**, 65.  
*Optical Polarization Properties of Compact Radio Sources*, Raymond Rusk, **84**, 199.  
*A Complete Spectral Analysis of the Flare of the Quasar 3C 273*, Alberto C. Sadun, **86**, 15.  
*Detecting the Galactic Centre at 70 cm*, William Lonc & Jennifer Hatt, **90**, 61.

### **Radio Astronomy: Sources: General**

*Astrometry of Extragalactic Objects from the Palomar Sky Atlas Prints*, A. H. Bridle & R. E. Goodson, **71**, 240.  
*Amateur Radio Astronomy Part III*, Ken Tapping, NN, **72**, 38.  
*Index of Extragalactic Radio-Source Catalogues*, M. J. L. Kestevan & A. H. Bridle, **79**, 21.  
*The Designation of Radio Sources Observed With the DRAO Synthesis Telescope*, L. A. Higgs, **80**, 51.  
*The DRAO Galactic Plane Survey*, Lloyd A. Higgs, **83**, 105.  
*My Radio Telescope*, Bob Drury, **89**, 72.

### **Radio Astronomy: Sources: Interstellar Medium**

*Radio Emission from Gaseous Nebulae*, L. A. Higgs & K. V. V. Ramana, **62**, 5.  
*Anomalous Emission from Interstellar Hydroxyl and Water*, B. E. Turner, **64**, 221, 283.  
*Radio Confusion in the Galactic Plane*, L. A. Higgs, **65**, 263.  
*Automatic Reduction of Radio Astronomical Maps: A Map of the W43 Region at 4.3 cm*, L. A. Higgs, **67**, 123.  
*Note on the Widths of Radio Spectral Lines from Planetary Nebulae*, L. A. Higgs, **68**, 295.  
*Observations of 85 $\alpha$  Recombination Lines from W48*, J. M. McLeod, L. H. Doherty & L. A. Higgs, **71**, 377.  
*The Detection of Radio Emission from the New Optical Emission Variable HM Sagittae*, P. A. Feldman, **71**, 386.  
*Les Voies Magnetiques dans Notre Galaxie (Revue du Champ Magnetique Interstellaire)*, J. P. Vallée, **77**, 177.  
*Discovery of a Remarkable Cometary-Shaped Radio Source*, Lloyd A. Higgs & Jacques P. Vallée, **78**, 155.  
*Les Gaz Ionises dans Notre Galaxie (Revue des Regions H II, He II, C II, S II Interstellaires)*, J. P. Vallée, **80**, 16.  
*A 408-MHz Radio Survey of the Region Surrounding Simeis 57*, L. A. Higgs, T. L. Landecker, F. P. Israel & J. Bally, **85**, 24.  
*From WYSIWYG to Haloes and Fountains: The Discovery of Galactic Structure*, Judith A. Irwin, **87**, 368.  
*The Distance to the Supernova Remnant Cassiopeia A*, **90**, 236.

### **Radio Astronomy: Sources: Solar System**

*Io-Related Jovian Decametric Bursts and Io Sodium*, Nathan L. Cohen, **69**, 89.  
*The 1979 February 26 Solar Eclipse on Short Wave*, Ken Tapping & Chip Wiest, NN, **74**, 40.

*Observations of 1.4 GHz Continuum Emission from Jupiter During Its Collision With Comet Shoemaker-Levy 9*, John Galt & Susan Watkins, **89**, 135.  
*Letter to the Editor: Observations of 1.4 GHz Continuum Emission from Jupiter During Its Collision With Comet Shoemaker-Levy 9*, Roland G. Duchesne, **90**, 159.

## **Radio Astronomy: Sources: Stars**

*The Development of Solar Microwave Radio Astronomy in Canada*, A. E. Covington, **61**, 314.  
*Solar Radio Emission at 10.7 cm, 1947-1968*, Arthur E. Covington, **63**, 125.  
*Relative Positions of Radio Sources on the Solar Disk at 2800 MHz and 408 MHz*, D. Basu, **64**, 90.  
*A Radio Photograph of the Cygnus-X Region*, J. E. Winzer & J. A. Roberts, **65**, 100.  
*Spectra of Different Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 152.  
*A Comparative Study of the Different Aspects of Impulsive and Gradual Rise and Fall Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 284.  
*Variations in the Profiles of the Gradual Rise and Fall Bursts for June 11-15 and a High Resolution Study for the Major Event of June 15, 1972*, A. E. Covington, **68**, 225.  
*Comments on the Radio Burst for the White Light Flare of July 4, 1974*, A. E. Covington, **68**, 332.  
*Plasma Frequency Radiation in Astronomy: What We Learn from Solar Radio Observations*, Henry M. Bradford, **69**, 162.  
*The Solar Microwave "Negative Burst" Associated with the Dark Fan of 21 May 1967*, C. Sawyer, **70**, 127.  
*Some Studies on the Spectra of the Different Components of the Absolute Solar Microwave Flux*, M. K. Das Gupta, T. Chattopadhyay & S. K. Sarkar, **70**, 185.  
*Solar Activity Associated with an Unusual Series of Microwave Flux Decreases*, C. Sawyer, **70**, 228.  
*Amateur Radio Astronomy Part III*, Ken Tapping, NN, **72**, 38.  
*The 2800-MHz Solar Radio Minimum of February 1976*, Arthur E. Covington, **73**, 1.  
*Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.  
*Comments on the Duration-Peak-Flux-Density Diagram for 2800 MHz Solar Bursts*, Edward W. Cliver, **75**, 15.  
*Projects for Amateur Radio Astronomers*, Grote Reber, NNB, **84**, 10.  
*A 3.8-4.2 GHz Solar Radio Telescope Using Satellite TV Components*, James A. Roberts, J. Hajsaleh & R. Benge, **88**, 233.  
*The Sun's Temperature at  $\lambda = 5$  Centimetres*, William Lonc & Na Han Chan, **89**, 118.

## **RASC Papers**

*UT, UT<sub>C</sub>, ET and AT*, R. W. Tanner, **61**, 41.  
*High Altitude Balloon Experiments to Study Oxygen in a Planetary Atmosphere*, W. F. J. Evans, A. Vallance Jones & E. J. Llewellyn, **61**, 82.  
*Making an Eight-Inch Achromatic Doublet*, Roy Quade, **61**, 381.  
*The Calgary Centennial Planetarium*, W. H. Stilwell & J.

F. Wright, **62**, 75.  
*Une Camera Schmidt Simplifiee avec Tiges Compensatrices*, Yvon Dufour, **62**, 121.  
*On the History of the Copernican Manuscript De Revolutionibus Orbium Coelestium*, Karel Hujer, **62**, 123.  
*Classification of Solar Prominences for Sun-Spot Cycle No. 19 (1955-1964)*, Donald H. Menzel & F. Shirley Jones, **62**, 124.  
*Leonids — Then and Now*, Peter Millman, **62**, 124.  
*Some Old Astronomical Instruments of Historical Value*, John R. Scatliff, **62**, 125.  
*The Optical Projection of Solar and Lunar Objects on a Modified Translucent Viewing Screen*, Donovan H. Fallows, **62**, 259.  
*A Spectroscopic Supersynthesis Radio Telescope*, J. D. Lacey, **62**, 378.  
*The Spectrum of Nova Vulpeculae (1968)*, John F. Heard, **63**, 45.  
*Grazing and Total Lunar Occultations for the Amateur Astronomer*, J. Howell, **63**, 140.  
*Grazing Occultations*, David W. Dunham, **63**, 143.  
*Study of the Planet Saturn by the Hamilton Centre*, K. E. Chilton, **64**, 53.  
*The Planetary Nebula in M15*, W. A. Feibelman, **64**, 193.  
*A New Amateur Observatory in Montreal*, M. Lucien E. Coallier, **64**, 194.  
*A Home Built Planetarium*, James B. Gould, **64**, 196.  
*The Construction of an H $\alpha$  Solar Prominence Spectroscope*, Jack B. Newton, **64**, 197.  
*The Use of Closed-Circuit TV in Conjunction with Amateur Astronomical Telescopes*, Donovan H. Fallows, **65**, 78.  
*The Newton Observatory*, J. B. Newton, **66**, 224.  
*Time and Its Measurement in Fredericton*, J. E. Kennedy, **66**, 311.  
*Al-Biruni, Persian Scholar, 973-1048*, A. Vibert Douglas, **67**, 209.

## **Reflections**

*Reflections*, David Dodge, NN, **73**, 9, 28.  
*Ah, The Amateur Enjoys*, Alister Ling, B, **1**, 1, 1.  
*NASA, Poor NASA*, Doug Pitcairn, B, **1**, 2, 1.  
*Seeing the Light*, Clive Gibbons, B, **1**, 3, 1.  
*What is Heaven? A Personal Perspective*, Louie Bernstein, B, **1**, 4, 1.  
*Astronomy and the Four R's*, Scott Young, B, **2**, 1, 1.  
*Charting a Course for the Society's Future - I*, Derek Baker, B, **2**, 6, 1.  
*Is the Universe Conscious?*, Louie Bernstein, B, **3**, 1, 1.  
*Where Are the Women?*, Mary Lou Whitehorne, B, **3**, 3, 1.  
*Why I Like to Gaze*, Glenn Skene, B, **4**, 1, 1.  
*Can We Afford Space?*, Chris Brown, B, **4**, 3, 1.  
*Learning By Sketching*, Randy Pakan, B, **4**, 4, 1.  
*Little More Than Orange Juice*, Stephen Biggs, B, **4**, 4, 2.  
*The Digital Darkroom*, Rajiv Gupta, B, **4**, 6, 1.  
*The Other Side of the Night*, Randy Pakan, B, **5**, 1, 1.  
*The Magic of f-Ratios*, Gary Seronik, B, **5**, 3, 1.  
*Little More Than Orange Juice?*, Blair MacDonald, B, **5**, 3, 2.  
*The Telescope Visibility Factor*, Gary Seronik, B, **5**, 4, 1.  
*Society Objectives*, Raymond Auclair, B, **5**, 5, 1.

*Names and Lists*, Alister Ling, B, **6**, 1, 1.  
*Has Astronomy Lost Its Innocence?*, Charles Shahar, B, **6**, 3, 1.  
*Rovers and Alarm Bells*, Andrew I. Oakes, B, **6**, 4, 1.  
*The Caldwell Catalogue: Why All the Hype?*, Leo Enwright, B, **6**, 5/6, 1.

## Regina Centre

*Across the RASC*, NNB, **84**, 4, 20, 60.  
*National and Centre Councils for 1993*, B, **3**, 2, 28.  
*Centre Finances*, B, **3**, 2, 31.  
*Across the RASC*, B, **3**, 5, 3.  
*Centre Reports*, B, **4**, 2, 15.  
*National and Centre Councils for 1994*, B, **4**, 2, 31.  
*Centre Finances*, B, **4**, 2, 35.  
*National and Centre Councils for 1995*, B, **5**, 2, 23.  
*Centre Finances*, B, **5**, 2, 27.  
*National Astronomy Day 1995*, Sandy Ferguson, B, **5**, 3, 7.  
*National and Centre Councils for 1996*, B, **6**, 2, 28.  
*Centre Finances*, B, **6**, 2, 31.

## Relativity

*The Relativistic Doppler Effect*, D. Sher, **62**, 105.  
*Goondiwindi Recalls 1922*, J. F. Heard, NN, **66**, 30.  
*Gravity and its Astronomical Implications: An Elementary Guide*, Ray Skinner, **68**, 173, 237, 307.  
*Einstein: The Revolution in Space-Time*, D. W. Sida, **73**, 133.  
*Einstein and Cosmology*, R. C. Roeder, **73**, 349.  
*The Reception of Einstein's Theory of Relativity in Canada*, Richard A. Jarrell, **73**, 358.  
*The Oblique Doppler Effect*, Jeremy B. Tatum, **79**, 302.  
*Inside Black Holes*, G. H. George, **84**, 28, 283.  
*A Look Inside Black Holes*, Eric Poisson, **84**, 191.  
*A Factor of Two*, Jan (John) Bron, B, **6**, 3, 3.

## Review of Publications/Critiques d'Ouvrages

Application de la Photométrie Bidimensionnelle à L'Astronomie, *Jean-René Roy*, **77**, 156.  
Astronomy and Astrophysics Monthly Index, *David Turner*, **75**, 338.  
Black Holes 1970-74, INSPEC Bibliography Series Number One, *C. T. Bolton*, **69**, 198.  
Cosmology +1, *S. Jeffers*, **72**, 234.  
Haute Résolution Spectrale en Astrophysique - Applications au Télescope Spatial, *Jean-René Roy*, **77**, 156.  
Hyper-Quest, *Astronomica* — The Quest for the Edge of the Universe, *Franklin C. Loehde*, **89**, 238.  
Hyper-Quest, *Astronomica* — The Quest for the Edge of the Universe, *Suzanne E. Moreau*, **89**, 265.  
L'Observatoire de Paris — son Histoire: 1667-1963, *A. H. Batten*, **79**, 322.  
Our Universe: A Set of 18 Colour Slides, *John R. Percy*, **74**, 181.  
Planetary Astronomy From the Renaissance to the Rise of Astrophysics Part B: The Eighteenth and Nineteenth Centuries, *Martin Connors*, **90**, 365.  
Pulsating Stars, a Nature reprint, *J. L. Locke*, **63**, 170.  
Roemer et la Vitesse de la Lumière, *René Racine*, **74**, 48.

The Solar System: A Scientific American Book, *Peter M. Millman*, **71**, 278.  
Abell, George O., *Drama of the Universe*, *G. A. Welch*, **73**, 159.  
Acker, A., *Introduction à L'Astronomie*, *Gilles Fontaine*, **73**, 316.  
Acker, Agnès, *Initiation à L'Astronomie*, *Raymond Auclair*, **77**, 279.  
Acker, Agnes and Carlos Jaschek, *Astronomie, Méthodes et Calculs*, *J. P. Vallée*, **76**, 147.  
Adams, D. J., *Cosmic X-Ray Astronomy*, *David Crampton*, **75**, 337.  
Adler, Berni, Sidney Fernbach and Manuel Rotenberg, *Methods in Computational Physics, Volume 7: Astrophysics*, edited by, *John R. Percy*, **61**, 387.  
Aiton, E. J., *The Vortex Theory of Planetary Motions*, *Richard A. Jarrell*, **67**, 154.  
Alfvén, Hannes, Zdenek Kopal and Harold C. Urey, *The Moon*, edited by, *Donald A. MacRae*, **64**, 261.  
Alksne, Z. K. and Ya. Ya. Ikaunieks, *Carbon Stars*, *William P. Bidelman*, **76**, 270.  
Aller, Lawrence H., *Atoms, Stars, and Nebulae*, *David F. Gray*, **86**, 271.  
Anderson, R. G. W., J. A. Bennett and W. F. Ryan, *Making Instruments Count. Essays on Historical Instruments Presented to Gerard L'Estrange Turner*, edited by, *Randall C. Brooks*, **89**, 127.  
Arp, Halton, *Quasars, Redshifts and Controversies*, *A. H. Batten*, **82**, 42.  
Ashbrook, Joseph, *The Astronomical Scrapbook: Skywatchers, Pioneers and Seekers in Astronomy*, *Thomas Clarke*, **80**, 218.  
Ashworth, Jr. and William B., *The Face of the Moon, Galileo to Apollo*, *Philip Stoke*, **84**, 365.  
Audouze, Jean, *Aujourd'hui L'Univers*, *Damien Lemay*, **76**, 335.  
Audouze, Jean and Guy Israel, *The Cambridge Atlas of Astronomy*, edited by, *Terence Dickinson*, **83**, 441.  
Audouze, Jean and Guy Israel, *The Cambridge Atlas of Astronomy*, 3<sup>rd</sup> Edition, edited by, *John Grayson, Jr.*, **89**, 124.  
Audouze, Jean and Guy Israel, *The Cambridge Atlas of Astronomy*, 3<sup>rd</sup> Edition, edited by, *Lambert C. Huneault*, **89**, 225.  
Aveni, A. F., *Archeoastronomy in the New World (Primitive American Astronomy)*, edited by, *Elizabeth Graham*, **77**, 338.  
Avrett, Eugene H., *Frontiers of Astrophysics*, edited by, *L. A. Higgs*, **71**, 472.  
Böhme, S., W. Fricke, U. Güntzel-Lingner, F. Henn, D. Krahn and G. Zech, *Astronomy and Astrophysics Abstracts, Volume 2, Literature 1969, Part 2*, edited by, *Helen Sawyer Hogg*, **65**, 92.  
Böhme, S., W. Fricke, U. Güntzel-Lingner, F. Henn, D. Krahn, U. Sheffer and G. Zeck, *Astronomy and Astrophysics Abstracts, Volume 9, Literature 1973, Part I*, edited by, *John R. Percy*, **68**, 279.  
Böhme, S., U. Esser, W. Fricke, U. Güntzel-Lingner, I. Heinrich, F. Henn, D. Krahn, L. Schmadel, H. Scholl and G. Zech, *Astronomy and Astrophysics Abstracts, Volume 14, Literature 1975, Part 2*, edited by, *Helen*

- Sawyer Hogg*, **71**, 336.
- Böhme, S., U. Esser, W. Fricke, U. Güntzel-Lingner, I. Heinrich, F. Henn, D. Krahn, L. Schmadel, H. Scholl and G. Zech, *Astronomy and Astrophysics Abstracts*, Volume 15/16, Author and Subject Indexes to Volumes 1-10, Literature 1969-1973, edited by, *Helen Sawyer Hogg*, **71**, 336.
- Böhme, S., U. Esser, W. Fricke, U. Güntzel-Lingner, I. Heinrich, D. Krahn, L. D. Schnadel and G. Zech, *Astronomy and Astrophysics Abstracts* (Volume 19, Literature 1977, Part 1), edited by, *Amelia Wehlau*, **72**, 237.
- Baity, W. A. and L. E. Peterson, *X-Ray Astronomy*, edited by, *K. A. Papp*, **74**, 249.
- Ball, Nadine Butcher, Harold P. Coyle and Irwin I. Shapiro, *Project SPICA: A Teacher Resource to Enhance Astronomy Education*, edited by, *John R. Percy*, **89**, 131.
- Barlow, B. V., *The Astronomical Telescope*, *H. C. King*, **69**, 258.
- Batten, Alan H., *Binary and Multiple Systems of Stars*, *J. F. Heard*, **68**, 219.
- Beer, Arthur, *Vistas in Astronomy*, Volume 11, edited by, *T. A. Bednarek*, **64**, 377.
- Beer, Arthur and K. Aa. Strand, *Copernicus Yesterday and Today* (*Vistas in Astronomy*, Volume 17), edited by, *Helen Sawyer Hogg*, **70**, 44.
- Beer, K. and K. Aa. Strand, *Vistas in Astronomy*, Volume 8, *Aspects of Stellar Evolution*, edited by, *W. Wehlau*, **61**, 44.
- Beer, A., *Vistas in Astronomy*, Volume 15, edited by, *K. A. Innanen*, **69**, 98.
- Beer, Arthur, *Vistas in Astronomy*, Volume 16, edited by, *K. O. Wright*, **69**, 99.
- Beer, Arthur and Peter Beer, *Kepler — Four Hundred Years* (*Vistas in Astronomy*, Volume 18), edited by, *Helen Sawyer Hogg*, **70**, 44.
- Bennett, J. A., *The Divided Circle: A History of Instruments for Astron., Navigation, and Surveying*, *R. C. Brooks*, **82**, 160.
- Berendzen, R., R. Hart and D. Seeley, *Man Discovers the Galaxies*, *David L. DuPuy*, **71**, 337.
- Berendzen, Richard, *Life Beyond Earth and the Mind of Man*, edited by, *Ian Halliday*, **68**, 161.
- Berendzen, Richard, *Education In and History of Modern Astronomy*, edited by, *J. L. Climenhaga*, **68**, 44.
- Berman, Louis and J. C. Evans, *Exploring the Cosmos* (Second Edition), *C. D. Scarfe*, **74**, 40.
- Bertola, F., J. W. Sulentic and B. F. Madore, *New Ideas in Astronomy*, edited by, *Alan H. Batten*, **83**, 337.
- Birney, D. Scott, *Observational Astronomy*, *David G. Turner*, **86**, 160.
- Blanco, V. and M. Phillips, *Progress and Opportunities in Southern Hemisphere Optical Astronomy*, edited by, *R. F. Garrison*, **84**, 287.
- Blunck, Jürgen, *Mars and Its Satellites: A Detailed Commentary on the Nomenclature*, *Peter M. Millman*, **72**, 58.
- Bode, M. F. and A. Evans, *Classical Novae*, edited by, *M. Shara*, **84**, 236.
- Bok, Bart J. and Priscilla F. Bok, *The Milky Way*, *J. D. Fernie*, **69**, 148.
- Bok, Bart J., *The Milky Way* (5th Edition), *Barry F. Madore*, **76**, 408.
- Bone, Neil, *Meteors*, *Robert L. Hawkes*, **88**, 189.
- Bonnet, R. M. and A. K. Dupree, *Solar Phenomena in Stars and Stellar Systems*, edited by, *V. Gaizauskas*, **77**, 100.
- Brück, M. T., *Exercises in Practical Astronomy Using Photographs*, *Jay M. Pasachoff*, **86**, 162.
- Brandt, J. C. and S. P. Maran, *New Horizons in Astronomy* (Second Edition), *John B. Rice*, **74**, 43.
- Brandt, John C. and Robert D. Chapman, *Introduction to Comets*, *George F. Mitchell*, **76**, 402.
- Brandt, J. C. and S. P. Maran, *The New Astronomy and Space Science Reader*, edited by, *Anthony F. J. Moffat*, **72**, 170.
- Branley, F. M. and M. R. Chartrand III, H. K. Wimmer, *Astronomy*, *David L. DuPuy*, **69**, 317.
- Bray, R. J. and R. E. Loughhead, *Sunspots*, *V. Gaizauskas*, **74**, 247.
- Brecher, Kenneth and Michael Feirtag, *Astronomy of the Ancients*, edited by, *R. P. Broughton*, **75**, 66.
- Breuer, Reinhard, *Contact With the Stars — The Search for Extraterrestrial Life*, *John J. Green*, **77**, 273.
- Briggs, Geoffrey A. and Frederick W. Taylor, *The Cambridge Photographic Atlas of the Planets*, *William T. Peters*, **79**, 41.
- Brown, R. Hanbury, *The Intensity Interferometer*, *A. E. Covington*, **70**, 42.
- Brown, R. Hanbury, *Photons, Galaxies and Stars*, *A. H. Batten*, **80**, 158.
- Brush, Stephen G., C. W. F. Everitt and Elizabeth Garber, *Maxwell on Saturn's Rings*, edited by, *Scott Tremaine*, **79**, 35.
- Burbidge, Geoffrey and Margaret Burbidge, *Quasi-Stellar Objects*, *Robert C. Roeder*, **62**, 79.
- Burgess, Eric, *To the Red Planet*, *Terence Dickinson*, **73**, 161.
- Burgess, Eric, *By Jupiter: Odysseys to a Giant*, *Peter Sigurdson*, **79**, 39.
- Burton, W. B. and F. P. Israel, *Surveys of the Southern Galaxy*, edited by, *Andrew R. Taylor*, **79**, 37.
- Byrne, P. B. and M. Rodonò, *Activity in Red-Dwarf Stars*, edited by, *Sallie L. Baliunas*, **79**, 327.
- Cameron, Robert C., *The Magnetic and Related Stars; (Proceedings of the AAS-NASA 1965 Symposium)*, edited by, *J. D. Fernie*, **62**, 78.
- Canuto, V., *Role of Magnetic Fields in Physics and Astrophysics* (*Annals of the New York New York Academy of Sciences*, Volume 257), edited by, *R. N. Henriksen*, **70**, 47.
- Capaccioli, M., *Astronomy with Schmidt-Type Telescopes*, edited by, *Christopher J. Corbally*, **79**, 271.
- Carling, Ellen B. and Zdeněk Kopal, *Photometric and Spectroscopic Binary Systems*, edited by, *Stefan W. Mochnecki*, **76**, 407.
- Cattermole, Peter, *Venus, The Geological Story*, *Alexander Cruden*, **89**, 233.
- Chaisson, Eric J., *The Hubble Wars*, *Dan Collier*, **5**, 4, 5.
- Chapman, Robert D., *Discovering Astronomy*, *Thomas R. Clarke*, **73**, 48.
- Christianson, Gale E., *Edwin Hubble: Mariner of the*

- Nebulae, *Sidney van den Bergh*, **89**, 272.
- Clark, Roger N., Visual Astronomy of the Deep Sky, *Lucian Kemble*, **84**, 66.
- Cohen, I. Bernard, Isaac Newton's Theory of the Moon's Motion (1702), *J. D. Fernie*, **70**, 148.
- Cohen, Martin, In Quest of Telescope, *Clifford Cunningham*, **75**, 275.
- Collins, Mike, Astronomical Catalogues 1951-1975, *C. D. Scarfe*, **72**, 236.
- Consolmagno, Guy and Dan M. Davis, Turn Left at Orion, *Russ Sampson*, **85**, 149.
- Cook, A. H., Celestial Masers, *W. L. H. Shuter*, **72**, 235.
- Corliss, William R., The Moon and Planets: A Catalog of Astronomical Anomalies, *James A. Cobban*, **81**, 24.
- Cornell, James and Alan P. Lightman, Revealing the Universe: Prediction and Proof in Astronomy, edited by, *Per H. Anderson*, **78**, 170.
- Couteau, Paul, Observing Visual Double Stars, *Karl Kamper*, **76**, 267.
- Covington, Michael, Astrophotography for Amateurs, *Jack B. Newton*, **81**, 178.
- Covington, Michael, Astrophotography for the Amateur, *Clive Gibbons*, **86**, 272.
- Coyle, Harold P., Bruce Gregory, William M. Luzader, Philip M. Sadler and Irwin I. Shapiro, Project STAR: The Universe in Your Hands, *John R. Percy*, **87**, 257.
- Cunningham, Clifford J., Introduction to Asteroids, *David D. Balam*, **83**, 347.
- Danziger, John and Paul Gorenstein, Supernova Remnants and Their X-Ray Emission, edited by, *Sidney van den Bergh*, **78**, 226.
- Darling, David J., The Stars: From Birth to Black Holes, *Gretchen L. H. Harris*, **80**, 220.
- Darling, David J., Other Worlds: Is There Life Out There?, *Gretchen L. H. Harris*, **80**, 220.
- Darling, David J., The Universe: Past, Present and Future, *Gretchen L. H. Harris*, **80**, 220.
- Darling, David J., The New Astronomy: An Ever Changing Universe, *Gretchen L. H. Harris*, **80**, 220.
- Darling, David J., The Galaxies: Cities of Stars, *Gretchen L. H. Harris*, **80**, 220.
- Davidson, Norman, Sky Phenomena: A Guide to Naked-Eye Observation of the Stars, *Patrick Kelly*, **89**, 83.
- Davies, P. C. W., The Search for Gravity Waves, *Ray Skinner*, **76**, 142.
- Davies, P. C. W., The Accidental Universe, *John J. Green*, **77**, 345.
- Davoust, Emmanuel, Silence au Point D'Eau, *J. P. Vallée*, **83**, 260.
- de Callatay, Vincent and Audouin Dollfus, Atlas of the Planets, *Thomas Clarke*, **70**, 147.
- de Jager, C., Highlights of Astronomy, Volume 2, edited by, *Ian Halliday*, **66**, 281.
- de Jager and C., A. Jappel, Proceedings of the Fourteenth General Assembly, Brighton 1970, Transactions of the IAU, Volume IXV B, edited by, *J. E. Kennedy*, **67**, 42.
- de Loore., C. W. H. and A. J. Willis., Wolf-Rayet Stars: Observations, Physics, Evolution, edited by, *Nolan R. Walborn*, **78**, 53.
- de Sabbata., V., The Origin and Evolution of Galaxies, edited by, *Barry F. Madore*, **78**, 51.
- de St. Remy, Barbara, A Catalogue of the Riche-Covington Collection, *A. H. Batten*, **79**, 150.
- Delobbeau, Francis, The Environment of the Earth, *T. R. Hartz*, **67**, 323.
- Delsemme., A. H., Comets, Asteroids, Meteorites — Interrelations, Evolution and Origins, edited by, *Ian Halliday*, **73**, 353.
- DeWitt, C. and B. S. DeWitt, Black Holes, edited by, *R. C. Roeder*, **68**, 46.
- Dick, Steven J., Plurality of Worlds: The Extraterrestrial Life Debate from Democritus to Kant, *W. Paul Fayer*, **77**, 161.
- Dick, S. J. and LeRoy E. Doggert, Sky With Ocean Joined, Proceedings of the Sesquicentennial Symposia;USNavalObs, edited by, *A. H. Batten*, **81**, 71.
- Dickinson, Terence and Sam Brown, The Edmund Sky Guide, *B. L. Matthews*, **71**, 473.
- Dickinson, Terence, Nightwatch: An Equinox Guide to Viewing the Universe, *Leo Enwright*, **78**, 142.
- Dickinson, Terence, Victor Costanzo and Glenn F. Chaple, The Edmund Mag 6 Star Atlas, *Randy Attwood*, **78**, 224.
- Dickinson, Terence, Nightwatch, An Equinox Guide to Viewing the Universe (Revised Edition), *Doug Cunningham*, **85**, 55.
- Dickinson, Terence and Alan Dyer, The Backyard Astronomer's Guide, *Roy Bishop*, **87**, 69.
- Dickinson, Terence, The Universe ... and Beyond, *Franklin C. Loehde*, **87**, 348.
- Dickinson, Terence, From the Big Bang to Planet X, *Douglas P. Hube*, **88**, 281.
- Dickinson, Terence and Adolf Schaller, Extraterrestrials: A Field Guide for Earthlings, *John R. Percy*, **89**, 194.
- Dickinson, Terence, Other Worlds; A Beginner's Guide to Planets and Moons, *Elizabeth E. Roettger*, **90**, 173.
- Ditfurth, Haimar von, Children of the Universe. The Tale of Our Existence, *Karel Hujer*, **69**, 50.
- Dixon, R. S., G. Sonneborn, A Master List of Nonstellar Optical Astronomical Objects, *Sidney van den Bergh*, **75**, 67.
- Dixon, Robert T., Dynamic Astronomy (2nd Edition), *Douglas P. Hube*, **69**, 259.
- Dollfus, A., Surface and Interiors of Planets and Satellites, edited by, *Ian Halliday*, **65**, 139.
- Drake, Stillman, Galileo: Pioneer Scientist, *Colin Ronan*, **85**, 60.
- Duffett-Smith, Peter, Practical Astronomy with Your Calculator, *Joan O. Hube & Douglas P. Hube*, **74**, 373.
- Dumoulin, Christian and Jean-Paul Parisot, Astronomie Pratique et Informatique, *Raymond Auclair*, **82**, 365.
- Dunlop, Storm, Amateur Astronomy: A Comprehensive and Practical Survey, *Darnley C. Wright*, **78**, 268.
- Duquenois, Antione and Michel Mayor, Binaries as Tracers of Stellar Formation, edited by, *Douglas R. Gies*, **88**, 190.
- Dyer, Alan and Terence Dickinson, The Backyard Astronomer's Guide, *Doug Pitcairn*, **2**, 1, 5.
- Edberg, Stephen J., International Halley Watch Amateur Observer's Manual forScientific Comet Studies, *David H. Levy*, **79**, 33.

- Edberg, Stephen J. and David H. Levy, Observing Comets, Asteroids, Meteors and Zodiacal Light, *Martin Beech*, **89**, 125.
- Edge, David O. and Michael J. Mulkay, Astronomy Transformed: the Emergence of Radio Astronomy in Britain, *Philipp P. Kronberg*, **72**, 349.
- Eelsalu, Heino and Dieter B. Herrmann, Johann Heinrich Mädler (1794-1874), *A. H. Batten*, **82**, 89.
- Eggleton, P. P. and J. E. Pringle, Interacting Binaries, edited by, *E. F. Milone*, **82**, 36.
- Eggleton, Peter, Simon Mitton and John Whelan, Structure and Evolution of Close Binary Systems, edited by, *J. B. Hutchings*, **73**, 386.
- Eicher, David, Deep-Sky Observing with Small Telescopes, *Dave Clyburn*, **84**, 370.
- Eicher, David J., The Universe From Your Backyard, *L. Enwright*, **83**, 340.
- Eicher, David J., Beyond the Solar System, *Joe Kamichitis*, **87**, 349.
- Eicher, David J., Stars and Galaxies, edited by, *Chris Brown*, **87**, 260.
- Elliot, James and Richard Kerr, *Rings: Discoveries from Galileo to Voyager*, *Jack L. Lissauer*, **79**, 320.
- Ellyard, David and Wil Tirion, The Southern Sky Guide, *Susan Ring*, **88**, 197.
- Elsässen, H. and H. Fechtig, Interplanetary Dust and Zodiacal Light (Lecture Notes in Physics, Volume 48), edited by, *Peter M. Millman*, **71**, 279.
- Fall, S. M. and D. Lynden-Bell, The Structure and Evolution of Normal Galaxies, edited by, *C. J. Pritchett*, **76**, 274.
- Fernie, Donald, The Whisper and the Vision: the Voyages of the Astronomers, *Ian Halliday*, **71**, 275.
- Ferrara, S., J. Ellis and P. van Nieuwenhuizen, Unification of the Fundamental Particle Interactions, edited by, *Patrick J. O'Donnell*, **76**, 66.
- Ferraz-Mello, S., Dynamics of the Galilean Satellites. An Introductory Treatise, *J. S. Griffith*, **78**, 227.
- Ferris, Timothy, The Red Limit: The Search for the Edge of the Universe, *David Crampton*, **72**, 118.
- Field, George B., Halton Arp and John N. Bahcall, The Redshift Controversy, *John MacLeod*, **68**, 277.
- Fiorini, Ettore, Neutrino Physics and Astrophysics, edited by, *S. S. M. Wong*, **76**, 400.
- Firsoff, V. A., The Solar Planets, *Ian Halliday*, **72**, 299.
- Firsoff, V. A., The New Face of Mars, *Peter M. Millman*, **76**, 398.
- Fitch, W. S., Multiple Periodic Variable Stars: Contributed Papers, edited by, *Nancy R. Evans*, **74**, 46.
- Fitzpatrick, Philip M., Principles of Celestial Mechanics, *J. S. Griffiths*, **64**, 379.
- Freedman, Lenore, A Starhopper's Guide to Messier Objects, *Leo Enwright*, **78**, 167.
- French, Bevan M., The Moon Book, *Jacques P. Vallée*, **73**, 45.
- Fricke, W., U. Güntzel-Lingner, F. Henn, D. Krahn and G. Zech, Astronomy and Astrophysics Abstracts, Volume 1, Literature 1969, Part I, edited by, *Helen Sawyer Hogg*, **64**, 112.
- Friedjung, M. and R. Viotti, The Nature of Symbiotic Stars, edited by, *Sun Kwok*, **77**, 226.
- Frihagen, J., Electron Density Profiles in Ionosphere and Exosphere, edited by, *R. E. Barrington*, **61**, 97.
- Fujita, Yoshio, Interpretation of Spectra and Atmospheric Structure in Cool Stars, *J. L. Climenhaga*, **65**, 140.
- Garfinkle, Robert A., Star Hopping, Your Visa to Viewing the Universe, *Philip Mozel*, **89**, 87.
- Garmany, C. D., Properties of Hot Luminous Stars, edited by, *Mart de Groot*, **85**, 288.
- Garrison, Robert F., The MK Process and Stellar Classification, edited by, *A. H. Batten*, **79**, 266.
- Gatland, Kenneth, The Illustrated Encyclopedia of Space Technology, *Robert M. Powers*, **76**, 271.
- Gehrels, T., Jupiter, Studies of the Interior, Atmosphere, Magnetosphere and Satellites, edited by, *J. Veverka*, **71**, 419.
- Genet, Russel M. and R. C. Wolpert, Advances in Photoelectric Photometry, *Richard C. Henry*, **78**, 168.
- Genet, Russell, Real-Time Control With the TRS-80, *Douglas L. Welch*, **78**, 140.
- Ghedini, S., Software for Photometric Astronomy, *Douglas L. Welch & Clifford Cunningham*, **78**, 141.
- Giacconi, Riccardo, X-Ray Astronomy with the Einstein Satellite, edited by, *Richard C. Henry*, **76**, 329.
- Gingerich, Owen and Barbara L. Welther, Planetary, Lunar, and Solar Positions/New and Full Moons, A. D. 1650-1805, *Peter Broughton*, **78**, 138.
- Glasby, John S., Boundaries of the Universe, *Richard A. Jarrell*, **67**, 212.
- Glasby, John S., The Nebular Variables, *John R. Percy*, **69**, 197.
- Glass, I. I., Shock Waves and Man, *Douglas O. ReVelle*, **68**, 335.
- Goddard, D. E. and D. K. Milne, Parkes — Thirty Years of Radio Astronomy, *E. R. Seaquist*, **89**, 129.
- Goldsmith, Donald, Scientists Confront Velikovsky, edited by, *J. M. Marlborough*, **72**, 230.
- Golino, Carlo L., Galileo Reappraised, edited by, *James MacLachlan*, **66**, 173.
- Gosset, Eric and Jean-Marie Vreux, Étude de la Variabilité des Étoiles de Type Wolf-Rayet, *A. F. J. Moffat*, **89**, 192.
- Goudis, C., The Orion Complex: A Case Study of Interstellar Matter, *David G. Turner*, **77**, 158.
- Gough, D. O., Seismology of the Sun and the Distant Stars, edited by, *David Guenther*, **82**, 35.
- Gray, David F., The Observation and Analysis of Stellar Photospheres, *C. T. Bolton*, **70**, 207.
- Gray, D. F. and J. L. Linsky, Stellar Turbulence, edited by, *G. J. Michaud*, **74**, 375.
- Grayson, H. W., The Theory of Relativity Revisited, *Kayall Lake*, **73**, 353.
- Grayson, John E. A., Light Years, *Robert W. Straker*, **82**, 45.
- Grayson, Jr., John, Extraterrestrial Life, *John R. Percy*, **88**, 200.
- Grayson, Jr., John, Extraterrestrial Life, *John R. Percy*, **88**, 355.
- Green, Robin M., Spherical Astronomy, *K. W. Kamper*, **82**, 39.
- Greenler, Robert, Rainbows, Halos and Glories, *Alan H. Batten*, **76**, 67.



- Hadingham, Evan, Circles and Standing Stones, *Jean-René Roy*, **70**, 91.
- Hall, D. S. and R. M. Genet, Photoelectric Photometry of Variable Stars, *David L. DuPuy*, **77**, 271.
- Hall, Douglas S. and Russell M. Genet, Photoelectric Photometry of Variable Stars: A Practical Guide for the Smaller Observatory, *Douglas L. Welch*, **84**, 289.
- Haramundanis, Katherine, Cecilia-Payne Gaposchkin (An Autobiography and Other Reflections), edited by, *F. Shirley Jones*, **79**, 29.
- Harris, Joel and Richard Talcott, Chasing the Shadow, *Jay Anderson*, **89**, 40.
- Harrison, Edward R., Cosmology, *Robert C. Roeder*, **76**, 334.
- Hartmann, William K., Ron Miller and Pamela Lee, Out of the Cradle, *Muriel J. Enock*, **80**, 217.
- Harvey, O. L., Calendar Conversions by Way of the Julian Day Number, *Jim Cobban*, **78**, 257.
- Harwit, Martin, Cosmic Discovery: The Search, Scope and Heritage of Astronomy, *Judith L. Pipher*, **79**, 31.
- Hayli, A., Histoire de L'Univers, edited by, *Jacques P. Vallée*, **76**, 330.
- Haysham, H. H., Basic Astronomy, with Projects for Amateurs and Students, *John R. Percy*, **66**, 174.
- Hazelett, Richard and Dean Turner, The Einstein Myth and Ives Papers, edited by, *Werner Israel*, **74**, 248.
- Hearnshaw, J. B., The Analysis of Starlight, *A. H. Batten*, **82**, 40.
- Heggie, D. C., Archeoastronomy in the Old World, edited by, *Anthony A. Barrett*, **78**, 90.
- Heidmann, Jean, Introduction à la Cosmologie, *Serge Pineault*, **68**, 111.
- Heidmann, Jean, Relativistic Cosmology, *Kayll Lake*, **76**, 273.
- Heidmann, Jean, Extragalactic Adventure (Our Strange Universe), *Terence Dickinson*, **77**, 225.
- Heidmann, Jean, La Vie dans L'Univers, *J. P. Vallée*, **85**, 58.
- Heidmann, Jean, Extraterrestrial Intelligence, *Allen Tough*, **90**, 104.
- Heiserman, Dave, Radio Astronomy for the Amateur, *Jacques P. Vallée*, **70**, 204.
- Held, A., General Relativity and Gravitation, edited by, *Charles C. Dyer*, **76**, 331.
- Herrman, Dieter B., The History of Astronomy from Herschel to Hertzprung, *Peter Broughton*, **79**, 267.
- Hess, W. N., D. H. Menzel and J. A. O'Keefe, The Nature of the Lunar Surface, edited by, *P. B. Robertson*, **61**, 205.
- Hey, J. S., The Evolution of Radio Astronomy, *L. A. Higgs*, **69**, 49.
- Hidayat, B., Z. Kopal and J. Rahe, Double Stars, Physical Properties and Generic Relations (Proceedings of IAU Colloquium No. 80 Held at Lembang, Java, 3-7 June, 1983), edited by, *S. M. Rucinski*, **79**, 190.
- Hill, Henry A. and Wojciech A. Dziembowski, Nonradial and Nonlinear Stellar Pulsation, edited by, *John R. Percy*, **75**, 337.
- Hirschfeld, Alan, Roger W. Sinnott and Fran[c]oise Ochsenbein, Sky Catalogue 2000.0, Volume 1, Stars to Mag. 8.0, 2nd Edition, *Damien LeMay*, **86**, 221.
- Hirsh, R. F., Glimpsing an Invisible Universe: The Emergence of X-Ray Astronomy, *Richard C. Henry*, **78**, 264.
- Hjellming, R. M. and D. M. Gibson, The Radio Stars, edited by, *S. M. Rucinski*, **81**, 22.
- Hodge, Paul W. and Francis W. Wright, The Large Magellanic Cloud, *Sidney van den Bergh*, **61**, 347.
- Hodge, Paul W. and Francis W. Wright, The Small Magellanic Cloud, *James E. Hesser*, **72**, 358.
- Hodge, Paul W., Galaxies and Clusters of Galaxies in the Direction of the SMC, *James E. Hesser*, **72**, 358.
- Hodge, Paul W., Atlas of the Andromeda Galaxy, *Roberta M. Humphreys*, **76**, 406.
- Hodgson, J. H., The Heavens Above and the Earth Beneath: A History of the Dominion Observatories. Part I to 1946, *Richard Jarrell*, **84**, 290.
- Hodgson, John H., The Heavens Above and the Earth Beneath: A History of the Dominion Observatories. Part 2, 1946-1970, *Richard A. Jarrell*, **89**, 273.
- Hogg, Helen Sawyer, The Stars Belong to Everyone, *Peter M. Millman*, **70**, 146.
- Hopkins, Jeanne, Glossary of Astronomy and Astrophysics, *J. D. Fernie*, **70**, 206.
- Hopkins, Jeanne, Glossary of Astronomy and Astrophysics, Second Edition, *S. M. Rucinski*, **79**, 273.
- Hoskin, M. A., Journal for the History of Astronomy, Volumn I, Part I, *A. Vibert Douglas*, **64**, 380.
- Howard, Neale E., The Telescope Handbook and Star Atlas, *Norman Green*, **61**, 347.
- Howard, Robert, Solar Magnetic Fields, IAU Symposium No. 43, edited by, *V. Gaizauskas*, **67**, 263.
- Hoyle, F. and J. V. Narliker, Action at a Distance in Physics and Cosmology, *Robert C. Roeder*, **70**, 274.
- Hoyle, Fred, Highlights in Astronomy, *Thomas R. Clarke*, **70**, 150.
- Hoyle, Fred, On Stonehenge, *R. P. Broughton*, **72**, 59.
- Hoyle, Fred, Ten Faces of the Universe, *Gretchen L. H. Harris*, **72**, 173.
- Hoyle, Fred, Facts and Dogmas in Cosmology and Elsewhere, *John J. Green*, **78**, 89.
- Hoyle, Fred, Home is Where the Wind Blows, *Alan H. Batten*, **89**, 84.
- Hoyt, William Graves, Lowell and Mars, *Terence Dickinson*, **71**, 208.
- Hoyt, William Graves, Planets X and Pluto, *Katherine Riordon*, **74**, 313.
- Hubble, Edwin, The Realm of the Nebulae, *John J. Green*, **77**, 343.
- Hunt, Garry E. and Patrick Moore, Atlas of Neptune, *Pascal Lee*, **89**, 236.
- Hunt, Garry E., Recent Advances in Planetary Meteorology, edited by, *J. R. Drummond*, **81**, 177.
- Hynek, J. Allen, The Hynek UFO Report, *Jacques P. Vallée*, **72**, 171.
- Iben, Jr., I. and A. Renzini, Physical Processes in Red Giants, edited by, *I.-Juliana Sackmann*, **76**, 409.
- Ilyas, Mohammad, Islamic Calendar, Times & Quibla, *F. Jamil Ragep*, **80**, 298.
- Ilyas, Mohammad, Islamic Calendar, Times & Quibla, *A. H. Batten*, **80**, 301.
- Infeld, Leopold, Quest — An Autobiography, *R. C. Roeder*,

- 75, 268.
- Ingle, Annie, *Glow-In-The-Dark Planetarium Book*, *Mary Lou Whitehorne*, **88**, 187.
- Inglis, Stuart J., *Planets, Stars and Galaxies* (second edition), *Ruth J. Northcott*, **63**, 172.
- Inglis, Stuart J., *Planets, Stars, and Galaxies*, *David L. DuPuy*, **70**, 273.
- Islam, J. N., *The Ultimate Fate of the Universe*, *Raymond Lew*, **78**, 267.
- Isles, John E. and Kenneth Glyn Jones, *Webb Society Deep-Sky Observer's Handbook, Volume 8. Variable Stars*, edited by, *Gerald P. Dyck*, **85**, 229.
- Jaki, Stanley L., *The Milky Way: An Elusive Road for Science*, *J. D. Fernie*, **68**, 45.
- Jaki, Stanley L., J. H. Lambert: *Cosmological Letters on the Arrangement of the World-Edifice*, *J. D. Fernie*, **71**, 277.
- Jamar, C., D. Macau-Hercot, A. Monfils, G. I. Thompson, L. Houziaux and R. Wilson, *Ultraviolet Bright-Star Spectrophotometric Catalogue*, *John B. Lester*, **71**, 417.
- Jardine, N., *The Birth of History and Philosophy of Science. Kepler's "A Defense of Tycho Against Ursus" with Essays on Its Provenance and Significance*, *Kim H. Veltman*, **80**, 118.
- Jarrell, Richard A., *The Cold Light of Dawn: A History of Canadian Astronomy*, *David H. DeVorkin*, **84**, 359.
- Jaschek, Carlos, *Data in Astronomy*, *Andrew Woodsworth*, **84**, 369.
- Jaschek, Carlos and Mercedes Jaschek, *The Classification of Stars*, *Richard O. Gray*, **85**, 113.
- Jaschek, C. and W. Heintz, *Automated Data Retrieval in Astronomy*, edited by, *Lynda Colbeck*, **77**, 269.
- Jaschek, C. and C. Sterken, *Coordination of Observational Projects in Astronomy*, edited by, *John R. Percy*, **83**, 335.
- Jaschek, Mercedes and Hans G. Groth, *IAU Symposium No. 98, Be Stars*, edited by, *R. H. Poekert*, **77**, 58.
- Jaschek, Mercedes and Philip C. Keenen, *Cool Stars With Excesses of Heavy Elements*, edited by, *R. Earle Luck*, **81**, 70.
- Jastrow, R. and God and the Astronomers, *Jacques P. Vallée*, **73**, 317.
- Johnson, Hollis R. and Ben Zuckerman, *Evolution of Peculiar Red Giant Stars*, edited by, *John R. Percy*, **85**, 57.
- Jones, Aubrey, *Mathematical Astronomy with a Pocket Calculator*, *Martine Simard-Normandine*, **74**, 45.
- Jones, Bessie Zaban and Lyle Gifford Boyd, *The Harvard College Observatory (The First Four Directorships, 1839-1919)*, *Helen Sawyer Hogg*, **66**, 177.
- Jones, K. G., *The Search for the Nebulae*, *J. D. Fernie*, **70**, 271.
- Jones, B. J. T. and J. E. Jones, *The Origin and Evolution of Galaxies*, edited by, *Barry F. Madore*, **78**, 51.
- Jones, K. Glyn, *Webb Society Deep-Sky Observer's Handbook, Vol. 4, Galaxies*, edited by, *Douglas L. Welch*, **76**, 404.
- Jones, Kenneth, *Webb Society's Deep Sky Observer's Handbook: Volume 1, Double Stars*, (2<sup>nd</sup>) Edition, edited by, *Wayne Hayes*, **82**, 46.
- Jones, Kenneth Glyn, *Webb Society Deep-Sky Observer's Handbook (Volume II, Planetary and Gaseous Nebulae)*, edited by, *J. B. Rice*, **73**, 388.
- Jones, Kenneth Glyn, *Webb Society Deep Sky Observer's Handbook, Volume 3, Open and Globular Clusters*, edited by, *Kai Millyard*, **75**, 64.
- Jones, Kenneth Glyn, *Webb Society Deep-Sky Observer's Handbook: Volume 5, Clusters of Galaxies*, edited by, *Jack Newton*, **77**, 165.
- Kahn, F. D., *Investigating the Universe*, edited by, *E. F. Milone*, **77**, 101.
- Kaler, James B., *Stars and Their Spectra*, *Christopher J. Corbally*, **84**, 358.
- Kaler, James B., *Stars*, *Jaymie Matthews*, **87**, 128.
- Kalkofen, W., *Methods in Radiative Transfer*, edited by, *S. M. Rucinski*, **79**, 325.
- Kapahi, V. K., *Extragalactic Energetic Sources*, edited by, *J. B. Hutchings*, **80**, 156.
- Kaufmann III, William J., *Stars and Nebulas*, *John M. MacLeod*, **73**, 166.
- Kaufmann III, William J., *The Cosmic Frontiers of General Relativity*, *D. W. Sida*, **74**, 42.
- Kaufmann III, William J., *Planets and Moons*, *Donald A. MacRae*, **74**, 106.
- Kaufmann III, William J., *Galaxies and Quasars*, *Barry F. Madore*, **74**, 310.
- Keenan, Philip C. and Raymond C. McNeil, *An Atlas of the Cooler Stars: Types G, K, M, S, and C*, *R. F. Garrison*, **71**, 416.
- Kelley, Kevin W., *The Home Planet*, edited by, *Barbara Murck*, **85**, 285.
- Kilmister, C. W., *Men of Physics — Sir Arthur Eddington*, *A. Vibert Douglas*, **61**, 200.
- King, Henry C. and John R. Millburn, *Geared to the Stars*, *David A. Rodger*, **73**, 167.
- King, Ivan R., *The Universe Unfolding*, *David L. DuPuy*, **71**, 214.
- Kippenhahn, R., J. Rahe and W. Strohmeier, *The Interaction of Variable Stars with Their Environment*, edited by, *J. B. Hutchings*, **73**, 153.
- Kirby-Smith, H. T., *U. S. Observatories: A Directory and Travel Guide*, *Jacques P. Vallée*, **71**, 421.
- Kitchin, C. R., *Early Emission Line Stars*, *Anne B. Underhill*, **77**, 340.
- Kitchin, C. R., *Astronomical Techniques*, *S. M. Rucinski*, **79**, 147.
- Kitt, Michael T., *The Moon: An Observing Guide for Backyard Telescopes*, *Leo Enwright*, **87**, 168.
- Kloppel, James E., *Realm of the Long Eyes: A Brief History of Kitt Peak National Observatory*, *David H. Levy*, **79**, 34.
- Kopal, Zdeněk, *Man and His Universe*, *J. D. Fernie*, **69**, 98.
- Kopal, Z., *Advances in Astronomy and Physics, Volume 4*, edited by, *A. H. Batten*, **61**, 154.
- Koyrè, Alexandre, *The Astronomical Revolution*, *J. F. Heard*, **70**, 45.
- Kraus, John D., *Big Ear*, *Jacques P. Vallée*, **71**, 338.
- Krinou, E. L., *Giant Meteorites*, *Ian Halliday*, **61**, 95.
- Kron, Richard G., *Evolution of the Universe of Galaxies*, *Raymond G. Carlberg*, **85**, 143.
- Kronk, Gary W., *Comets: A Descriptive Catalog*, *Jeremy B. Tatum*, **79**, 272.

- Kronk, Gary W., Meteor Showers: A Descriptive Catalog, *Robert L. Hawkes*, **83**, 264.
- Krupp, E. C., In Search of Ancient Astronomies, edited by, *J. D. Fernie*, **73**, 46.
- Kukarkin, B. V., Pulsating Stars, edited by, *John R. Percy*, **70**, 149.
- Kursunoglu, Behram, Arnold Perlmutter and Linda F. Scott, On the Path of Albet Einstein, edited by, *Kayll Lake*, **74**, 372.
- Lévy, M. and S. Deser, Recent Developments in Gravitation: Cargèse 1978, edited by, *Charles C. Dyer*, **76**, 331.
- Lambeck, Kurt, The Earth's Variable Rotation: Geophysical Causes and Consequences, *W. R. Peltier*, **75**, 271.
- Lang, Kenneth R., Astrophysical Formulae, A Compendium for the Physicist and Astrophysicist, *R. Mitalas*, **70**, 321.
- Lang, Kenneth R., Astrophysical Formulae, *R. N. Henriksen*, **74**, 183.
- Larson, Dewey B., The Universe of Motion, *Robert E. McElwaine*, **B, 2, 2, 8**.
- LeGendre, Ginger, Exposure Guides for the Sun, Moon, and Planets, *Jack Newton*, **86**, 220.
- Leibovitz, N., W. H. Reid and P. O. Vandervoort, Theoretical Principles in Astrophysics and Relativity, edited by, *R. N. Henriksen*, **72**, 239.
- Lequeux, James, La Nouvelle Révolution Astronomique, *J. P. Vallée*, **77**, 270.
- Levy, David H., Observing Variable Stars: A Guide for the Beginner, *Glenn F. Chaple*, **84**, 361.
- Levy, David H., The Quest for Comets: An Explosive Trail of Beauty and Danger, *David Chapman*, **89**, 36.
- Li, Y. T. and P. Sandorf, Project Icarus, edited by, *C. D. Scarfe*, **74**, 250.
- Lichtman, Jeff and Robert M. Sickels, Amateur Radio Astronomer's Notebook, *N. L. Cohen*, **70**, 271.
- Liller, Bill and Ben Mayer, The Cambridge Astronomy Guide: A Practical Introduction to Astronomy, *Roy Bishop*, **85**, 141.
- Liller, W. and B. Mayer, The Cambridge Astronomy Guide, *Mary Lou Whitehorne*, **82**, 44.
- Lindstrom, Elizabeth E., Odyssey, edited by, *Kirsten Vanstone*, **90**, 109.
- Livio, Mario and Giora Shaviv, Cataclysmic Variables and Related Objects, edited by, *Michael Shara*, **78**, 166.
- Lohmann, W., F. Henn and U. Güntzel-Lingner, Astronomer Jahresbericht, edited by, *Ruth J. Northcott*, **62**, 131.
- Lohmann, W., F. Henn and U. Güntzel-Lingner, Astronomischer Jahresbericht, edited by, *Ruth J. Northcott*, **63**, 100.
- Lohmann, W., F. Henn and U. Güntzel-Lingner, Astronomischer Jahresbericht volume 67, edited by, *Helen Sawyer Hogg*, **64**, 112.
- Lohmann, W., F. Henn and U. Güntzel-Lingner, Astronomischer Jahresbericht, Volume 68, edited by, *Helen Sawyer Hogg*, **64**, 262.
- Longair, Malcolm S., Theoretical Concepts in Physics, *S. M. Rucinski*, **80**, 159.
- Longair, Malcolm S., The Origins of Our Universe: The Royal Institution Christmas Lectures, *Simon J. Lilly*, **86**, 164.
- Longair, Malcolm S., High Energy Astrophysics, *S. A. Eales*, **87**, 131.
- Longair, M. S. and J. Einasto., The Large Scale Structure of the Universe, edited by, *Jacques P. Vallée*, **73**, 170.
- Lovell, Sir, Barnard, Astronomy, *Helen Sawyer Hogg*, **66**, 174.
- Luginbuhl, C. B. and B. A. Skiff, Observing Handbook and Catalogue of Deep-Sky Objects, *Alister Ling*, **85**, 61.
- Luyten, W. J., White Dwarfs, edited by, *S. P. S. Anand*, **65**, 305.
- Lynds, Beverly T., Dark Nebulae, Globules, and Protostars, edited by, *Sidney van den Bergh*, **65**, 306.
- Mackenzie, Robert A., The Astronomer's Software Handbook, *Douglas L. Welch*, **82**, 216.
- Mackin, Jr., R. J. and M. Neugebauer, The Solar Wind, *T. R. Hartz*, **61**, 203.
- Macris, C. J., Physics of the Solar Corona, edited by, *A. E. Covington*, **67**, 264.
- MacRobert, Alan M., Star-Hopping for Backyard Astronomers, *Terence Dickinson*, **89**, 86.
- Maeder, Andre and Alvio Renzini, Observational Tests of the Stellar Evolution Theory (IAU Symposium No. 105), edited by, *Christopher Stagg*, **79**, 328.
- Maffei, Paola, Beyond the Moon, *Serge Demers*, **73**, 350.
- Maffei, Paolo, Monsters in the Sky, *Peter Jedicke*, **75**, 160.
- Makower, Joel, The Air and Space Catalog, edited by, *R. C. Tennyson*, **85**, 115.
- Malacara, Daniel, Optical Shop Testing, edited by, *R. Dancey*, **73**, 158.
- Malin, David and Paul Murdin, Colours of the Stars, *Leo Enwright*, **80**, 59.
- Malin, David, A View of the Universe, *Jack B. Newton*, **88**, 421.
- Mallas, John H. and Evered Krelmer, The Messier Album, *Jack B. Newton*, **74**, 41.
- Manchester, Richard N. and Joseph H. Taylor, Pulsars, *J. A. Galt*, **72**, 233.
- Manly, Peter L., Unusual Telescopes, *Michael Mattei*, **87**, 130.
- Mansinha, L., D. E. Smylie and A. E. Beck, Earthquake Displacement Fields and the Rotation of the Earth, edited by, *R. W. Tanner*, **65**, 304.
- Maran, Stephen, Astronomy and Astrophysics Encyclopedia, edited by, *John R. Percy*, **86**, 219.
- Mardirossian, P., G. Guiricin and M. Mezetti, Clusters and Groups of Galaxies, edited by, *Barry F. Madore*, **80**, 155.
- Mariopoulos, E. G., P. S. Theocaris and L. N. Mavridis, Compendium in Astronomy, edited by, *Steven N. Shore*, **77**, 275.
- Marschall, Laurence A., The Supernova Story, *Ian K. Shelton*, **84**, 284.
- Marsden, Brian G., Catalog of Cometary Orbits, *Jeremy B. Tatum*, **78**, 92.
- Martinez, Patrick, The Observer's Guide to Astronomy, Volume 2, edited by, *Mary Lou Whitehorne*, **88**, 419.
- Marx, S. and W. Pfau, Astrophotography With the Schmidt Telescope, *Damien Lemay*, **87**, 262.
- Marx, George, Bioastronomy — The Next Steps, edited by,

- John R. Percy*, **84**, 286.
- Mason, Brian, Handbook of Elemental Abundances in Meteorites, edited by, *Ian Halliday*, **66**, 284.
- Mavridès, Stamatia, L'Univers Relativiste, *Serge Pinneault*, **69**, 318.
- McCall, G. J. H., Meteorite Craters, edited by, *Ian Halliday*, **72**, 229.
- McDonnell, J. A. M., Cosmic Dust, edited by, *David G. Turner*, **73**, 351.
- McNally, D., Positional Astronomy, *K. W. Kamper*, **69**, 199.
- Meadows, A. J., Early Solar Physics, *Arthur E. Covington*, **64**, 326.
- Meeus, Jean, Carl C. Grosjean and Willy Vanderleen, Canon of Solar Eclipses, *V. Gaizauskas*, **61**, 204.
- Meeus, Jean, Astronomical Formulae for Calculators (2nd Edition Revised), *Douglas L. Welch*, **78**, 139.
- Meinel, Aden and Marjorie Meinel, Sunsets, Twilights and Evening Skies, *Paul Ford*, **78**, 259.
- Mennessier, M. O. and A. Omont, From Miras to Planetary Nebulae: Which Path for Stellar Evolution?, edited by, *Dimitar Sasselov*, **85**, 231.
- Menzel, Donald H. and Jay M. Pasachoff, A Field Guide to the Stars and Planets, Second Edition, *Leo Enwright*, **79**, 268.
- Michel, Paul-Henri, The Cosmology of Giordano Bruno, *Owen Gingerich*, **70**, 92.
- Mihalas, D. M. and J. Binney, Galactic Astronomy, *Wendy Freedman*, **76**, 266.
- Mihalas, Dmitri, Galactic Astronomy, *M. J. Clement*, **63**, 49.
- Millburn, John R. and Henry C. King, Wheelwright to the Heavens. The Life and Work of James Ferguson, FRS, *Randall C. Brooks*, **84**, 53.
- Mills, John FitzMaurice, Encyclopedia of Antique Scientific Instruments, *R. C. Brooks*, **79**, 191.
- Mirabito, Michael M., The Exploration of Outer Space with Cameras, *Paul Sigurdson*, **78**, 260.
- Misner, C. W., K. S. Thorne and J. A. Wheeler, Gravitation, *R. C. Roeder*, **68**, 164.
- Mitton, Simon, Exploring the Galaxies, *S. van den Bergh*, **71**, 276.
- Mitton, S., The Cambridge Encyclopaedia of Astronomy, edited by, *Anthony F. J. Moffat*, **73**, 356.
- Moché, Dinah L., Astronomy, A Self-Teaching Guide. Third Edition, *Leo Enwright*, **82**, 91.
- Montmerle, T. and C. Bertout, Protostars and Molecular Clouds/Proto-Etoiles et Nuages Moleculaires, edited by, *J. P. Vallée*, **82**, 159.
- Moore, Patrick, Yearbook of Astronomy: 1967, *Ian Halliday*, **61**, 96.
- Moore, Patrick, The Amateur Astronomer's Glossary, *Norman Green*, **62**, 44.
- Moore, Patrick, Peter Cattermole, The Craters of the Moon, *Ian Halliday*, **62**, 129.
- Moore, Patrick, The Atlas of the Universe, *John F. Heard*, **65**, 90.
- Moore, Patrick, Guide to the Planets, *R. R. Thompson*, **66**, 176.
- Moore, Patrick, The Astronomy of Birr Castle, *K. E. Chilton*, **66**, 281.
- Moore, Patrick and David A. Hardy, Challenge of the Stars, *Thomas Clarke*, **67**, 43.
- Moore, Patrick, A Pocket Guide to Astronomy, *Alan Dyer*, **75**, 156.
- Moore, Patrick, The Development of Astronomical Thought, *R. Peter Broughton*, **76**, 274.
- Moore, Patrick, The Unfolding Universe, *John J. Green*, **78**, 55.
- Moore, Patrick, Exploring the Night Sky With Binoculars, *Leo Enwright*, **81**, 228.
- Moore, Patrick, Fireside Astronomy, *Ivan Semeniuk*, **87**, 166.
- Morris, M. and B. Zuckerman, Mass Loss From Red Giants, edited by, *Lee Anne Willson*, **80**, 353.
- Morrison, David and Jane Samz, Voyage to Jupiter, *C. T. Bolton*, **76**, 64.
- Morrison, David, Voyages to Saturn, *William T. Peters*, **78**, 93.
- Mulfinger, Jr., George, Design and Origins in Astronomy, edited by, *H. L. Armstrong*, **79**, 44.
- Mumford, G. S., The Cloudy Night Book, *Gretchen L. H. Harris*, **74**, 374.
- Murray, Bruce, Michael C. Malin and Ronald Greely, Earthlike Planets: Surfaces on Mercury, Venus, Earth, Moon, Mars, *G. T. Jarvis*, **76**, 145.
- Nadeau, A., Découvrir l'Astronomie, *Serge Demers*, **74**, 180.
- Narliker, Jayant V., Introduction to Cosmology, *Charles Dyer*, **88**, 413.
- Newton, Jack and Philip Teece, The Cambridge Deep-Sky Album, *Terence Dickinson*, **79**, 149.
- Newton, Jack and Philip Teece, The Guide to Amateur Astronomy, *Doug George*, **89**, 271.
- Nicolson, Iain, The Road to the Stars, *Paul A. Delaney*, **73**, 157.
- Nininger, Harvey H., Find a Falling Star, *Peter M. Millman*, **67**, 95.
- O'Connell, D. J. K., Nuclei of Galaxies, edited by, *Sidney van den Bergh*, **66**, 177.
- O'Donnell, Susan, William Rowan Hamilton. Portrait of a Prodigy, *Anthony A. Barrett*, **67**, 30.
- Osterbrock, Donald E., Astrophysics of Gaseous Nebulae, *L. A. Higgs*, **69**, 196.
- Osterbrock, Donald E., John R. Gustafson and W. J. Shiloh Unruh, Eye on the Sky: Lick Observatory's First Century, *Amelia Wehlau*, **83**, 263.
- Osterbrock, Donald E., Astrophysics of Gaseous Nebulae and Active Galactic Nuclei, *C. Rogers*, **83**, 345.
- Osterbrock, Donald E. and Peter H. Raven, Origins and Extinctions, edited by, *Sidney van den Bergh*, **84**, 54.
- Pacholczyk, A. G., Radio Astrophysics (Nonthermal Processes in Galactic and Extragalactic Sources), *J. M. MacLeod*, **65**, 91.
- Pacholczyk, A. G., A Handbook of Radio Sources (Part One), *Jacques P. Vallée*, **72**, 231.
- Pacholczyk, A. G., The Catastrophic Universe: An Essay in the Philosophy of Cosmology, *M. Clutton-Brock*, **79**, 323.
- Pap, J. M., C. Fröhlich, H. S. Hudson and S. K. Solanki, The Sun As a Variable Star, Solar and Stellar Irradiance Variations, edited by, *David F. Gray*, **89**,

- 239.
- Parker, Edward, The Universe, *Gretchen L. H. Harris*, **79**, 43.
- Pasachoff, J. M. and M. L. Kutner, University Astronomy, *W. E. Harris*, **73**, 163.
- Pasachoff, J. M., Astronomy Now, *W. E. Harris*, **73**, 163.
- Pasachoff, Jay M., Contemporary Astronomy, *Christine Clement*, **72**, 119.
- Pasachoff, Jay M., Marc L. Kutner and Naomi Pasachoff, Student Guide to Contemporary Astronomy, *Christine Clement*, **72**, 119.
- Pasachoff, Jay M. and Michael A. Covington, The Cambridge Eclipse Photography Guide: How and Where to Observe and Photograph Solar and Lunar Eclipses, *B. Ralph Chou*, **88**, 416.
- Pasachoff, Jay M., Hyron Spinrad, Patrick S. Osmer and Edward Cheng, The Farthest Things in the Universe, *Peter Jedicke*, **89**, 269.
- Pasachoff, Jay M. and John R. Percy, The Teaching of Astronomy, edited by, *Douglas P. Hube*, **85**, 118.
- Payne-Gaposchkin, C., Stars and Clusters, *Robert D. McClure*, **74**, 51.
- Pederson, Olaf, Early Physics and Astronomy: A Historical Introduction, *David Chapman*, **88**, 415.
- Peltier, Leslie C., Starlight Nights: The Adventures of a Star-Gazer, *David Levy*, **75**, 158.
- Percival, Ian and Derek Richards, Introduction to Dynamics, *Ray Carlberg*, **78**, 263.
- Percy, John R., The Study of Variable Stars, edited by, *Christopher E. Spratt*, **81**, 179.
- Petersen, Carolyn Collins and John C. Brandt, Hubble Vision: Astronomy with the Hubble Space Telescope, *Douglas P. Hube*, **90**, 362.
- Philip, A. G. David and D. S. Hayes, The HR Diagram, edited by, *Austin F. Gulliver*, **73**, 394.
- Phillips, Kenneth J. H., Guide to the Sun, *Peter O. Taylor*, **87**, 259.
- Piddington, J. H., Cosmic Electrodynamics, *John Galt*, **64**, 378.
- Pollard, Harry, Mathematical Introduction to Celestial Mechanics, *E. Leimanis*, **61**, 45.
- Ponnampuruma, C., Comets and the Origin of Life, edited by, *Peter M. Millman*, **76**, 399.
- Pottasch, Stuart R., Planetary Nebulae: A Study of Late Stages of Stellar Evolution (Astrophysics and Space Science Library Volume 107, *C. R. Purton*, **79**, 107.
- Powers, Robert M., Planetary Encounters, *Peter Jedicke*, **73**, 392.
- Powers, Robert M., Shuttle: The World's First Spaceship, *Thomas R. Clarke*, **74**, 105.
- Powers, Robert M., The Coattails of God, *Randy Attwood*, **78**, 225.
- Prantzos, N., E. Vangioni-Flam and M. Cassé, Origin and Evolution of the Elements, edited by, *Jim King*, **88**, 356.
- Price, Fred W., The Planet Observer's Handbook, *Larry Bogan*, **89**, 234.
- Putnam, William Lowell, The Explorers of Mars Hill, *Don Fernie*, **89**, 38.
- Raine, D. J., The Isotropic Universe, *Charles C. Dyer*, **76**, 331.
- Ray, A. E., Orbital Motion, *Karl W. Kamper*, **73**, 108.
- Rees, Martin, Perspectives in Astrophysical Cosmology, *Chris Pritchett*, **90**, 108.
- Reeves, Hubert, Atoms of Silence: An Exploration of Cosmic Evolution, *Martin Beech*, **81**, 21.
- Reeves, Hubert, L'Heure de S'Énivrer, L'Univers a-t-il un Sens?, *J. P. Vallée*, **81**, 68.
- Reid, M. J. and J. M. Moran, The Impact of VLBI on Astrophysics and Geophysics, edited by, *Raymond Rusk*, **83**, 442.
- Ridpath, Ian, Canadian Nature Guides: Astronomy, *Leo Enwright*, **85**, 146.
- Ridpath, Ian and Wil Tirion, The Monthly Sky Guide, *Patrick Kelly*, **89**, 81.
- Rigutti, Mario, A Hundred Billion Stars, *Darnley C. Wright*, **79**, 189.
- Roger, R. S. and P. E. Dewdney, Regions of Recent Star Formation, edited by, *Wendy Freedman*, **77**, 277.
- Rogers, John H., The Giant Planet Jupiter, *Richard W. Schmude, Jr.*, **90**, 363.
- Rohlf, K., Lectures on Density Wave Theory, *Maurice Clement*, **73**, 154.
- Rohr, René R. J., Les Cadran Solaires Anciens D'Alsace (Old Sundials of Alsace), *Frederick A. Stebbins*, **66**, 129.
- Rohr, René R. J., Die Sonnenuhr, *Michael Bietenholz*, **77**, 268.
- Rosenberg, G. D. and S. K. Runcorn, Growth Rhythms and the History of the Earth's Rotation, edited by, *Peter M. Millman*, **72**, 58.
- Roth, G. D., Astronomy: A Handbook, edited by, *John R. Percy*, **70**, 151.
- Roy, A. E. and D. C. Clarke, Astronomy: Structure of the Universe (Volume 2), *Douglas P. Hube*, **72**, 117.
- Roy, A. E. and D. C. Clarke, Astronomy: Principles and Practice (Volume 1), *Douglas P. Hube*, **72**, 117.
- Roy, A. E. and D. Clarke, Astronomy: Principles and Practice, *Amelia Wehlau*, **77**, 342.
- Roy, A. E., Orbital Motion, *A. H. Batten*, **77**, 347.
- Roy, Jean-René, L'Astronomie et Son Histoire, *Louis Noreau*, **79**, 148.
- Royal Society of London, Planetary Exploration, *J. Veverka*, **76**, 405.
- Rybicki, George B. and Alan P. Lightman, Radiative Processes in Astrophysics, *E. R. Seaquist*, **75**, 161.
- Ryder, Graham, Proceedings of the Eighteenth Lunar and Planetary Science Conference, *P. J. Stooke*, **83**, 338.
- Sérsic, J. L., Extragalactic Astronomy, *Sidney van den Bergh*, **77**, 228.
- Sagan, Carl, Contact, *Peter Jedicke*, **3**, 4, 8.
- Sagan, Carl and Jonathan Norton Leonard, Planets, *Ruth J. Northcott*, **61**, 45.
- Sagan, Carl and Thornton Page, UFO's, A Scientific Debate, edited by, *A. Vibert Douglas*, **67**, 153.
- Sandage, A. and G. A. Tammann, A Revised Shapley-Ames Catalog of Bright Galaxies, *Sidney van den Bergh*, **75**, 267.
- Sandage, Alan, Mary Sandage and Jerome Kristian, Galaxies and the Universe (Stars and Stellar Systems, Volume IX), edited by, *René Racine*, **71**, 216.
- Sanford, P. W., P. Laskarides and J. Salton, Galactic X-Ray

- Sources, edited by, *David Crampton*, **77**, 166.
- Satterthwaite, Gilbert E., *Encyclopedia of Astronomy*, *K. E. Chilton*, **64**, 381.
- Schatz, Dennis, *Astronomy Activity Book*, *John R. Percy*, **86**, 65.
- Schröder, W., *Entwicklungsphasen der Erforschung der Leuchtenden Nachwolken*, *Peter M. Millman*, **71**, 279.
- Seargent, David A., *Comets: Vagabonds of Space*, *Jeremy B. Tatum*, **78**, 52.
- Seitter, Waltraut Carola, *Atlas for Objective Prism Spectra. Bonner Spektral Atlas I.*, *R. F. Garrison*, **66**, 282.
- Sharov, Alexander S. and Igor D. Novikov, *Edwin Hubble: The Discoverer of the Big Bang Universe*, *Sidney van den Bergh*, **88**, 280.
- Sharp, Allen, *Night of the Comet*, *Gretchen L. H. Harris*, **79**, 43.
- Sheehan, William, *The Immortal Fire Within*, *Roy Bishop*, **90**, 105.
- Shipman, Harry L., *Black Holes, Quasars and the Universe*, *K. E. Chilton*, **71**, 63.
- Shklovskii, I. S. and Carl Sagan, *Intelligent Life in the Universe*, *E. G. Woolsey*, **61**, 99.
- Shklovskii, Iosif S., *Stars: Their Birth, Life, and Death*, *R. Mitalas*, **73**, 390.
- Shuter, W. L. H., *Kinematics, Dynamics, and Structure of the Milky Way*, edited by, *Wendy Freedman*, **78**, 95.
- Sickels, R. M., *Amateur Radio Astronomer's Notebook (Volume II)*, *K. F. Tapping*, **72**, 175.
- Sidgwick, J. B. and J. Muirden, *Observational Astronomy for Amateurs*, *Ulrich J. Krull*, **77**, 163.
- Sidgwick, J. B. and J. Muirden, *Amateur Astronomer's Handbook*, *Ulrich J. Krull*, **77**, 163.
- Siegel, C. L., *Lectures on Celestial Mechanics, Grund. Vol. 187*, *J. S. Griffith*, **66**, 175.
- Silk, Joseph, *The Big Bang: The Creation and Evolution of the Universe*, *Charles C. Dyer*, **74**, 315.
- Sinnott, Roger W., *NGC 2000.0*, edited by, *Alan Dyer*, **83**, 343.
- Skobel'tsyn, D. V., *Radio Telescopes*, edited by, *L. A. Higgs*, **62**, 77.
- Slettebak, Arne and Theodore P. Snow, *Physics of Be Stars*, *Mary Lou Whitehorne*, **83**, 261.
- Smith, Elske v. P. and Kenneth Jacobs, *Introductory Astronomy and Astrophysics*, *Douglas P. Hube*, **68**, 278.
- Smith, Horace A., *RR Lyrae Stars*, *Christine Clement*, **90**, 174.
- Smith, Robert C., *Observational Astrophysics*, *Andrew Layden*, **90**, 107.
- Spite, F., S. Kirshner, R. Lahmek and F. Ochsenein, *The Bibliographic Star Index (1976)*, *C. T. Bolton*, **73**, 231.
- Spite, F., S. Kirshner, R. Lahmek and F. Ochsenein, *The Bibliographic Star Index (1975)*, *C. T. Bolton*, **73**, 231.
- Spitzer Jr., Lyman, *Searching Between the Stars*, *J. Norman Scrimger*, **77**, 267.
- Spitzer, Jr., Lyman, *Physical Processes in the Interstellar Medium*, *J. D. Landstreet*, **73**, 354.
- Srinivasan, G. and V. Radhakrishnan, *Supernovae, Their Progenitors and Remnants*, *Sidney van den Bergh*, **80**, 157.
- Steel, Duncan, *Rogue Asteroids and Doomsday Comets*, *Bob Hawkes*, **90**, 240.
- Steel, W. H., *Interferometry (2nd Edition)*, *Dale A. Frail*, **79**, 274.
- Steifel, E. L. and G. Scheifele, *Linear and Regular Celestial Mechanics*, *J. S. Griffith*, **65**, 304.
- Stephens, Sally, *Women in Astronomy: A Slide and Information Set*, *Nancy Remage Evans*, **87**, 165.
- Sturrock, Peter A., *Plasma Physics*, *Nebojsa Duric*, **89**, 195.
- Sugimoto, D., D. Q. Lamb and D. N. Schramm, *Fundamental Problems in the Theory of Stellar Evolution*, edited by, *Pierre Demarque*, **76**, 333.
- Sulentic, Jack W. and William C. Tifft, *The Revised New General Catalogue of Nonstellar Astronomical Objects*, *Helen Sawyer Hogg*, **68**, 167.
- Sullivan III, W. T., *Classics in Radio Astronomy*, *Lloyd A. Higgs*, **77**, 227.
- Sullivan, III, W. T., *The Early Years of Radio Astronomy: Reflections Fifty Years After Jansky's Disc*, edited by, *Donald A. MacRae*, **80**, 116.
- Sutton, Christine, *Spaceship Neutrino*, *Samuel S. M. Wong*, **88**, 152.
- Swihart, T. L., *Astrophysics and Stellar Astronomy*, *E. R. Seaquist*, **63**, 320.
- Swihart, T. L., *Radiation Transfer and Stellar Atmospheres*, *David F. Gray*, **76**, 63.
- Tardy, *Bibliographie Générale de la Mesure du Temps*, *R. W. Tanner*, **76**, 62.
- Taylor, Edwin F. and John A. Wheeler, *Spacetime Physics*, *A. Kavadas*, **61**, 98.
- Taylor, Peter O., *Observing the Sun*, *Steve Dodson*, **86**, 336.
- Taylor, R. J., *Galaxies: Structure and Evolution*, *Sidney van den Bergh*, **73**, 165.
- Terrell, Dirk, J. D. Mukherjee and R. E. Wilson, *Binary Stars: A Pictorial Atlas*, *E. F. Milone*, **88**, 411.
- Terrien, J., *La Galaxie, L'Univers Extragalactique, Tome No. 3 de L'Encyclopédie Scientifique de L'Univers*, edited by, *Jacques P. Vallée*, **75**, 270.
- Thompson, Gregg D. and James T. Bryan, Jr., *The Supernova Search Charts*, *Virginia Trimble*, **85**, 116.
- Thomson, Malcolm M., *The Beginning of the Long Dash: A History of Timekeeping in Canada*, *Helen Sawyer Hogg*, **73**, 169.
- Tirion, W., B. Rappaport and G. Loui, *Uranometria 2000.0 Volume I. The Northern Hemisphere to -6°*, *Gary A. Welch*, **82**, 366.
- Tirion, W., B. Rappaport and G. Loui, *Uranometria 2000.0 Volume I. The Northern Hemisphere to -6°*, *Paul Comision*, **82**, 16.
- Tirion, W., B. Rappaport and G. Loui, *Uranometria 2000.0 Volume I. The Northern Hemisphere to -6°*, *Gordon Friedrich*, **82**, 41.
- Tirion, W., B. Rappaport and G. Loui, *Uranometria 2000.0 Volume I. The Northern Hemisphere to -6°*, *Jim Lucyk*, **82**, 55.
- Tirion, W., B. Rappaport and G. Loui, *Uranometria 2000.0 Volume I. The Northern Hemisphere to -6°*, **82**, 85.
- Tirion, Wil, B. A. A. *Star Charts*, *Leo Enwright*, **78**, 258.
- Tirion, Wil, Barry Rappaport and George Lovi, *Uranometria 2000.0, Volume I, The Northern Hemisphere to -6°*, *Leo Enwright*, **82**, 162.

- Tirion, Wil, Cambridge Star Atlas 2000.0, *Leo Enwright*, **86**, 166.
- Treder, H. J., H. H. von Borzeszkowski, A. van der Merwe and W. Yourgrau, Fundamental Principles of General Relativity Theories, *W. Israel*, **76**, 65.
- Tully, R. B. and J. R. Fisher, Nearby Galaxies Atlas, *Barry F. Madore*, **82**, 305.
- Underhill, Anne and Vera Donzan, B Stars With and Without Emission Lines, edited by, *John R. Percy*, **77**, 348.
- Unno, Wasaburo, Yoji Osaki, Hiroyasu Ando and Hiromoto Shibahashi, Nonradial Oscillations of Stars, *E. F. Milone*, **75**, 274.
- Vallièrès, Jean, Devenez Astronome Amateur, *Reymond Auclair*, **75**, 218.
- Van Allen, James A., 924 Elementary Problems and Answers in Solar System Astronomy, *Barbara Murck*, **88**, 193.
- van de Kamp, Peter, Stellar Paths, *A. H. Batten*, **77**, 59.
- van den Bergh, Sidney and Christopher J. Pritchet, The Extragalactic Distance Scale, edited by, *Mario Mateo*, **84**, 363.
- van der Waerden, Bartel L., Science Awakening II — Birth of Astronomy, *Charles H. Smiley*, **68**, 276.
- van Helden, Albert, The Invention of the Telescope, *Randall C. Brooks*, **74**, 371.
- Van Woerden, H., W. N. Brouw and H. C. van de Hulst, Oort and the Universe: A Sketch of Oort's Research and Person, *C. R. Purton*, **76**, 268.
- Vangioni-Flam, E., M. Cassé, J. Audouze and J. T. T. Van, Astrophysical Ages and Dating Methods, edited by, *Sidney van den Bergh*, **85**, 145.
- Vautier, G. and Kenneth McLeish, The Shining Stars, *Gretchen L. H. Harris*, **79**, 43.
- Vautier, Ghislaine, The Way of the Stars, *Gretchen L. H. Harris*, **79**, 43.
- Véron, Phillippe and Jean-Claude Ribes, Les Comètes de L'Antiquité à L'Ère Spatiale, *Serge Demers*, **73**, 318.
- Verschuur, Gerrit L., Starscapes: Topics in Astronomy, *C. R. Purton*, **74**, 107.
- Vershurr, Gerrit L. and Kenneth I. Kellerman, Galactic and Extra-Galactic Radio Astronomy, edited by, *Philipp Kronberg*, **69**, 51.
- Wagoner, Robert V. and Donald W. Goldsmith, Cosmic Horizons, Understanding the Universe, *John J. Green*, **78**, 136.
- Wald, Robert M., Space, Time, and Gravity, *Charles C. Dyer*, **72**, 238.
- Wald, Robert M., Space, Time and Gravity: The Theory of the Big Bang and Black Holes, *Werner Israel*, **88**, 195.
- Wali, Kameshwar C., CHANDRA: A Biography of S. Chandrasekhar, *Maurice J. Clement*, **85**, 227.
- Walker, P. M. B., Cambridge Air and Space Dictionary, *R. C. Tennyson*, **85**, 115.
- Wall, J. V., Optics in Astronomy, edited by, *Karl Kamper*, **88**, 196.
- Warner, Brian, High Speed Astronomical Photometry, *Jaymie Matthews*, **83**, 334.
- Washburn, Mark, Mars, At Last!, *Terence Dickinson*, **73**, 161.
- Wayman, Patrick A., Reports on Astronomy-Transactions of the International Astronomical Union Vol 18A, *J. B. Rice*, **77**, 229.
- Webb, Michael, Helen Sawyer Hogg: A Lifetime of Stargazing, *Martha L. Hazen & Julia Forman*, **85**, 286.
- Weigert, A. and H. Zimmerman, Concise Encyclopedia of Astronomy, *Jeremy B. Tatum*, **72**, 56.
- Wentzel, Donat G., The Restless Sun, *Victor Gaizauskas*, **84**, 367.
- Wesson, P. S., Cosmology and Geophysics, *Charles C. Dyer*, **73**, 387.
- Wesson, Paul S., Gravity, Particles and Astrophysics, *M. Clutton-Brock*, **76**, 144.
- West, Richard M., Understanding the Universe, The Impact of Space Astronomy, edited by, *Betty Robinson*, **78**, 262.
- Westerlund, B. E., Star and Star Systems, edited by, *Jacques P. Vallée*, **74**, 181.
- Whipple, Fred L., Earth, Moon and Planets (third edition), *Norman Green*, **63**, 171.
- Whyte, A. J., The Planet Pluto, *David Morrison*, **75**, 65.
- Willard, Berton C., Russel W. Porter, Arctic Explorer, Artist, Telescope Maker, *B. Franklyn Shinn*, **71**, 209.
- Williams, I. P., The Origin of the Planets, *J. Veverka*, **71**, 211.
- Wilson, J. G., Cosmic Rays, *C. J. Bland*, **71**, 279.
- Wilson, Peter R., Solar and Stellar Activity Cycles, *Slavek M. Rucinski*, **89**, 197.
- Wilson, T. L. and D. Downes, HII Regions and Related Topics (Lecture Notes in Physics, Volume 42), edited by, *Jacques P. Vallée*, **71**, 62.
- Wirz, H. J., Progress in Numerical Fluid Dynamics, edited by, *Robert G. Deupree*, **70**, 275.
- Wood, John A., The Solar System, *C. T. Bolton*, **74**, 49.
- Wright, Helen, Explorer of the Universe, *A. E. Covington*, **61**, 202.
- Wright, Helen, James Lick's Monument: The Saga of Captain Richard Floyd and the Building of the Lick Observatory, *Amelia Wehlau*, **83**, 263.
- Wright, Thomas, An Original Theory or New Hypothesis of the Universe, *John F. Heard*, **66**, 280.
- Wright, Helen, Joan N. Warnow and Charles Weiner, The Legacy of George Ellery Hale (Evolution of Astronomy and Scientific Institutions in Pictures and Documents), edited by, *R. P. Broughton*, **66**, 322.
- Xanthakis, J., Solar Physics, Proceedings of a NATO Study Institute Conference, Athens September 1965, *A. E. Covington*, **63**, 48.
- Zeldovich, Ya B., I. D. Novikov, Kip S. Thorne and W. David Arnett, Relativistic Astrophysics, Volume 1, edited by, *S. P. S. Anand*, **66**, 129.
- Zheleznyakov, V. V., Radio Emission of the Sun and Planets, edited by, *L. R. McNarry*, **64**, 262.

**Royal Astronomical Society of Canada** (see also Individual Centres, Across the RASC, ...)

- Gold Medal of the R. A. S. C.*, Ruth J. Northcott, **61**, 100.
- General Assembly at Montreal, May 19-21, 1967*, **61**, 147.
- Minutes of Annual Meeting, March 17, 1967*, Norman Green, **61**, 147.

- Chant Medal Award*, **61**, 149.  
*National Officers and Council for 1967*, **61**, 149.  
*New Service Awards*, **61**, 150.  
*The Growth of the RASC and Its Guiding Mentor C. A. Chant*, Ruth J. Northcott, **61**, 218.  
*Gold Medal of the RASC*, Ruth J. Northcott, **61**, 388.  
*RASC Award to Exhibitor at Canada-Wide Science Fair*, **61**, 389.  
*RASC Observational Activities*, **61**, 390.  
*Minutes of the Annual Meeting, March 15, 1968*, Norman Green, **62**, 114.  
*General Assembly at Calgary, May 17-20, 1968*, Marie Fidler, **62**, 115.  
*New Honorary Members*, **62**, 116.  
*New Service Members*, **62**, 117.  
*National Officers and Council for 1968*, **62**, 118.  
*Society Loses Three Honorary Members*, Ruth J. Northcott, **62**, 135.  
*Service Awards Recipients*, Ruth J. Northcott, **62**, 258.  
*Fifty Times Around the Sun*, Donald Davis, **63**, 42.  
*RASC Gold Medal Presented to Peter Martin*, Ruth J. Northcott, **63**, 46.  
*Minutes of the Annual Meeting, May 17, 1969*, Norman Green, **63**, 151.  
*General Assembly at Toronto, May 16-19, 1969*, John R. Percy, **63**, 152.  
*The Incorporation of the Royal Astronomical Society of Canada 1968 (The Society's New Constitution and By-Laws)*, John F. Heard, **63**, 154.  
*Letters Patent Incorporating the Royal Astronomical Society of Canada 1968*, **63**, 155.  
*By-Laws of the Society Enacted on 1 February 1969 and Amended 17 May 1969*, **63**, 158.  
*National Officers and Council for 1969*, **63**, 169.  
*The Royal Astronomical Society of Canada 1968*, Malcolm M. Thomson, **63**, 177.  
*Notes*, John R. Percy, **63**, 219.  
*Minutes of the Annual Meeting, May 16, 1970*, Marie Fidler, **64**, 203.  
*New Service Awards*, **64**, 259.  
*National Officers and Council for 1970*, **64**, 260.  
*RASC Award to Exhibitor at Canada-Wide Science Fair*, **64**, 324.  
*Editorial*, NN, **64**, 1, 5.  
*From the Library*, R. Peter Broughton, NN, **64**, 7.  
*New Centre of the Society*, NN, **64**, 7.  
*General Assembly at Edmonton May 15-18, 1970*, Marie Fidler, NN, **64**, 9.  
*From the Library*, R. Peter Broughton, NN, **64**, 12.  
*Letter to the Editor*, Ken Hewitt-White, NN, **64**, 14.  
*Service Award Presented to Norman Green*, Kenneth E. Chilton, NN, **64**, 17.  
*Total Solar Eclipse: July 10, 1972*, Si Brown, NN, **64**, 22.  
*From the Library*, R. Peter Broughton, NN, **64**, 23.  
*Proposal for Joint Newsletter*, NN, **64**, 23.  
*From the Library*, R. Peter Broughton, NN, **64**, 28.  
*July 1972 Total Solar Eclipse*, Si Brown, NN, **64**, 29.  
*Observatory to be Named for RASC Member*, **65**, 134.  
*Minutes of the Annual Meeting, May 22, 1971*, Marie Fidler, **65**, 137.  
*New Service Awards*, **65**, 167.  
*National Officers and Council for 1971*, **65**, 168.  
*RASC Award to Exhibitor at Canada-Wide Science Fair*, **65**, 188.  
*The 1972 Total Solar Eclipse*, NN, **65**, 4.  
*RASC Variable Star Observing Program*, Rick Lavery, NN, **65**, 4.  
*General Assembly at Hamilton, May 21-24, 1971*, Marie Fidler, NN, **65**, 9.  
*From the Library*, R. Peter Broughton, NN, **65**, 15.  
*From Recent Newsletters — Variable Stars*, NN, **65**, 15.  
*From the Library*, R. Peter Broughton, NN, **65**, 26.  
*Minutes of the Annual Meeting, May 20, 1972*, Marie Fidler, **66**, 171.  
*New Service Awards*, **66**, 227.  
*National Officers and Council for 1972*, **66**, 228.  
*1971 Gold Medal Winner Honoured By Toronto Centre*, **66**, 316.  
*Toronto's Loss, Calgary's Gain!*, NN, **66**, 9.  
*A Change of Management*, NN, **66**, 9.  
*Quo Dvcit Marie*, NN, **66**, 10.  
*News and Views*, NN, **66**, 12.  
*General Assembly at Vancouver, May 19-22, 1972*, Marie Litchinsky, NN, **66**, 13.  
*Welcome, Rosemary!*, NN, **66**, 15.  
*A Change of Emphasis*, NN, **66**, 16.  
*Observer's Handbook 1973*, NN, **66**, 35.  
*RASC Library*, NN, **66**, 36.  
*Award of the 1972 Gold Medal*, **67**, 100.  
*National Officers and Council for 1973*, **67**, 204.  
*Minutes of the Annual Meeting May 26, 1973*, Marie Fidler, **67**, 205.  
*New Service Award*, **67**, 208.  
*New Honorary Members of the Society*, **67**, 320.  
*Journal Now Available on Microfilm*, **67**, 322.  
*Announcement of Symposium*, J. D. Fernie, NN, **67**, 5.  
*Nicolaus Copernicus 500th Anniversary*, NN, **67**, 17.  
*General Assembly at Ottawa, May 25-27, 1973*, Marie Litchinsky, NN, **67**, 17.  
*Memberships 1974*, Cecil E. Hodgson, NN, **67**, 25.  
*12th Canada-Wide Science Fair*, J. S. Griffith, NN, **67**, 28.  
*Joint Meeting: Royal Astronomical Society of Canada and American Association of Variable Star Observers*, Richard Bochonko, NN, **67**, 29.  
*National Officers and Council for 1974*, **68**, 214.  
*Minutes of the Annual Meeting June 29, 1974*, Marie Fidler, **68**, 215.  
*New Service Awards*, **68**, 218.  
*News from the National Library*, NN, **68**, 8.  
*General Assembly at Winnipeg, June 28-July 1, 1974: RASC-AAVSO Joint Meeting*, Marie Fidler, NN, **68**, 21.  
*Editorial*, NN, **68**, 21.  
*Leo Goldberg New Honorary Member of the Society*, **69**, 96.  
*National Officers and Council for 1975*, **69**, 190.  
*Minutes of the Annual Meeting June 28, 1975*, Rosemary Freeman, **69**, 191.  
*New Honorary Members*, **69**, 193.  
*New Service Award*, **69**, 195.  
*Editorial*, Ian Halliday, **69**, 323.  
*Participation of RASC Members in Heritage Canada — Our National Trust*, A. E. Covington, NN, **69**, 15.



*Halifax Hosts Exciting General Assembly*, NN, **69**, 49.  
*New RASC Insignia Crests Available*, NN, **69**, 55.  
*Editorial*, NN, **69**, 58.  
*National Officers and Council for 1976*, **70**, 195.  
*Minutes of the Annual Meeting, May 22, 1976*, Jim Cobban, **70**, 196.  
*New Service Awards*, **70**, 198.  
*The Yellow Pages*, NN, **70**, 18.  
*Welcome!*, NN, **70**, 18.  
*RASC Elections, 1976*, NN, **70**, 18.  
*National Library Closes Temporarily*, NN, **70**, 18.  
*1976 General Assembly*, Ulrich Haasdyk, NN, **70**, 31.  
*Editorial*, NN, **70**, 46.  
*Calgary General Assembly Successful*, Robert Pike, NN, **70**, 47.  
*Our New National Home*, NN, **70**, 57.  
*Where to Go and How to Get There ...*, John R. Percy, NN, **70**, 58.  
*Good Luck, Bill*, NN, **70**, 59.  
*Quebec and Saskatoon Take Top Honours at Calgary*, Ulrich Haasdyk & Dunstan Pasterfield, NN, **70**, 65.  
*Where to Go and How to Get There ...*, John R. Percy, NN, **70**, 75.  
*National Officers and Council for 1977*, **71**, 328.  
*Minutes of the Annual Meeting, 2 July, 1977*, Harlan Creighton, **71**, 329.  
*New Service Awards*, **71**, 333.  
*1976 Centre Reports Due*, NN, **71**, 2.  
*Delays in Publications*, NN, **71**, 3.  
*Editorial*, B. Ralph Chou, NN, **71**, 14.  
*From the National President*, A. H. Batten, NN, **71**, 15.  
*General Assembly Papers*, John R. Percy, NN, **71**, 15.  
*General Assembly Travel Grants*, D. J. Fitzgerald, NN, **71**, 16.  
*Headlines and Deadlines*, NN, **71**, 26.  
*Newsletters from the Various RASC Centres*, June LoGuirato & Peter H. Ashenurst, NN, **71**, 40.  
*Thanks, Norman*, NN, **71**, 46.  
*Welcome!*, NN, **71**, 46.  
*National President's Report*, A. H. Batten, NN, **71**, 48.  
*Toronto Hosts 1977 General Assembly*, Ian McGregor, NN, **71**, 50.  
*Toronto Display Competition*, Ian McGregor, NN, **71**, 51.  
*J. F. Heard Fund*, A. H. Batten, NN, **71**, 59.  
*Ladies and Gentlemen, Meet Franklyn Shinn*, NN, **71**, 62.  
*Post Office Delays October Publications*, NN, **71**, 64.  
*RASC Membership Fees Not Tax Deductible*, NN, **71**, 64.  
*Abolish Duty on Telescopes, Please!*, NN, **71**, 64.  
*L'Envoi*, NN, **71**, 80.  
*National Officers and Council for 1978*, **72**, 223.  
*Minutes of the Annual Meeting, May 21, 1978*, Harlan Creighton, **72**, 224.  
*New Service Award*, **72**, 227.  
*Whither Leads Urania?*, Alan H. Batten, **72**, 241.  
*Editorial*, L. A. Higgs, **72**, 1.  
*Editorial*, B. Franklyn Shinn, NN, **72**, 2.  
*J. F. Heard Fund*, NN, **72**, 3.  
*Science Fair*, A. H. Batten, NN, **72**, 8.  
*J. F. Heard Fund*, NN, **72**, 15.  
*The National Secretary*, A. H. Batten, NN, **72**, 15.  
*Notice Regarding Overdue Books and Slides*, Frederick L. Troyer, NN, **72**, 15.  
*The National Library of the Society*, Frederick L. Troyer, NN, **72**, 16.  
*Gold Medal Recipient for 1977*, NN, **72**, 31.  
*Abolish Duty on Telescopes, Please!*, NN, **72**, 41.  
*The 1978 General Assembly in Review*, Alan Dyer, NN, **72**, 46.  
*A Successful Observing Competition*, Alan Dyer, NN, **72**, 48.  
*Simon Newcomb Award*, NN, **72**, 53.  
*The Society's Library*, Frederic W. Troyer, NN, **72**, 77.  
*Call for Papers — 1979 General Assembly, London*, Robert W. Cornforth, NN, **72**, 79.  
*Canada-Wide Science Fair*, D. G. Turner, NN, **72**, 79.  
*Presidential Postscript*, John R. Percy, NN, **72**, 80.  
*The Simon Newcomb Award*, NN, **72**, 81.  
*National Officers and Council for 1979*, **73**, 224.  
*Centre Secretaries*, **73**, 224.  
*Minutes of the Annual Meeting, May 20, 1979*, Harlan Creighton, **73**, 225.  
*Chant Medal Award*, **73**, 228.  
*New Service Awards*, **73**, 228.  
*Ken Chilton Prize*, **73**, 230.  
*Must Archives Be Musty?*, Peter Broughton, NN, **73**, 21.  
*Centre Exchanges*, NN, **73**, 27.  
*To Straighten the Record*, NN, **73**, 47, 79.  
*The 1979 RASC General Assembly*, Peter Jedicke, NN, **73**, 54.  
*1979 Competition Roundup*, Walter K. Campney, NN, **73**, 57.  
*National Council Approves Grants for Exchange of Speakers Between Centres*, NN, **73**, 59.  
*National Council News*, NN, **73**, 64.  
*A Question of Balance*, Alan Dyer, NN, **73**, 70.  
*Wanted: Good Astronomical Slides*, John R. Percy, NN, **73**, 72.  
*The Simon Newcomb Award*, Diane Brooks, NN, **73**, 77.  
*That Other Part of the Newsletter*, NN, **73**, 78.  
*Slide Catalogue*, NN, **73**, 88.  
*First Space Shuttle Launch Visit*, Peter Jedicke, NN, **73**, 96.  
*The Simon Newcomb Award*, L. A. Higgs, **74**, 31.  
*Centre Secretaries*, **74**, 304.  
*National Officers and Council for 1980*, **74**, 304.  
*Minutes of the Annual Meeting, June 29, 1980*, Harlan Creighton, **74**, 305.  
*Chant Medal Award*, **74**, 308.  
*New Service Award*, **74**, 309.  
*Editorial*, L. A. Higgs, **74**, 369.  
*Some Eastern Newsletters*, NN, **74**, 14.  
*Content of the Newsletter*, NN, **74**, 18.  
*Edmonton Centre Presents Awards in the Name of the RASC*, NN, **74**, 46.  
*Community Astronomy in British Columbia*, NN, **74**, 50.  
*Just in Case You Missed It*, NN, **74**, 53.  
*Report of the 1980 "Bluenose" General Assembly*, Randall C. Brooks, NN, **74**, 62.  
*A New Award for Messier Observers!*, Ian McGregor, NN, **74**, 67.  
*Here's News a Hundred Years Old*, Peter Broughton, NN, **74**, 68.  
*Journal Scoops the NNL Again*, NN, **74**, 76.

- Summary of Minutes of the National Council, June 27-28, 1980*, NN, **74**, 76.
- Resultats du Sondage des Membres Independents de la SRAC/ Results of a Canadian Survey of Unattached Members of the RASC*, NN, **74**, 87.
- Simon Newcomb Award*, NN, **74**, 92.
- Editorial*, Alan H. Batten, **75**, 1.
- New Honorary Member of the RASC*, Ian Halliday, **75**, 152.
- National Officers and Council for 1981*, **75**, 260.
- Centre Secretaries*, **75**, 260.
- Minutes of the Annual Meeting, 28 June, 1981*, Harlan Creighton, **75**, 261.
- New Service Awards*, **75**, 264.
- Ken Chilton Prize*, **75**, 266.
- From the National President*, Ian Halliday, **75**, 280.
- Solar-System Astronomy in Volumes 1-25 of the Journal of the RASC (1907-1931)*, Ian Halliday, **75**, 299.
- The Joys of a Journal Editor*, L. A. Higgs, **75**, 316.
- From Our Former Presidents*, **75**, 319.
- Welcome to the New Editors!*, Ian McGregor, NN, **75**, 2.
- Kitchener-Waterloo Centre Inaugurated*, B. R. Chou, NN, **75**, 3.
- Space Shuttle Launch Visit*, Peter Jedicke, NN, **75**, 7.
- Une Opinion Personelle Suite au Sondage des Membres (Canadiens) Independants*, Raymond Auclair, NN, **75**, 8.
- Clearing the Housekeeping*, NN, **75**, 18.
- To All Members of the RASC*, Bernard Hobdell, NN, **75**, 28.
- Personal Opinions on the Survey of (Canadian) Unattached Members*, Raymond Auclair, NN, **75**, 35.
- Victoria Was the One in June of '81*, Muriel Enock, NN, **75**, 50.
- Report of the National Council Meeting 26 June 1981*, Harlan Creighton, NN, **75**, 55.
- Secretary's Report*, J. Tapping, NN, **75**, 58.
- Report of the Nominating Committee*, John R. Percy, NN, **75**, 75.
- National Council Report*, Harlan Creighton, NN, **75**, 76.
- Early Days of Astronomy at Toronto — Part II The Canadian Journal and the Activities of the Toronto Astronomical Club and Society 1868-1869*, Helen Sawyer Hogg, **76**, 26.
- Centre Secretaries*, **76**, 261.
- National Officers and Council for 1982*, **76**, 261.
- Minutes of the Annual Meeting, 23 May, 1982*, Harlan Creighton, **76**, 262.
- New Service Awards*, **76**, 264.
- Two Centenaries: The Royal Society of Canada and the Last Transit of Venus, 1882*, Helen Sawyer Hogg, **76**, 362.
- Seventy-Five Editions of the Observer's Handbook*, John R. Percy, **76**, 392.
- Editorial*, NN, **76**, 2.
- RASC News*, NN, **76**, 19.
- General Assembly Travel Grants*, R. Peter Broughton, NN, **76**, 20.
- Welcome Sarnia Centre!*, Ian G. McGregor, NN, **76**, 23.
- National Council Report*, Harlan Creighton, NN, **76**, 33.
- Un Rappel*, Damien Lemay, NN, **76**, 40.
- The Saskatoon General Assembly*, G. N. Patterson, NN, **76**, 50.
- Prizes Awarded for Entries in the Exhibit Contest*, NN, **76**, 52.
- National Council Report*, Harlan Creighton, NN, **76**, 62.
- National Officers and Council for 1983*, **77**, 247.
- Centre Secretaries*, **77**, 247.
- Minutes of the Annual Meeting, 22 May, 1983*, Leo Enwright, **77**, 248.
- New Service Awards*, **77**, 251.
- Ken Chilton Prize*, **77**, 252.
- A Report of the January National Council Meeting*, Leo Enwright, NN, **77**, 21.
- Brief History of the Library of the Royal Astronomical Society of Canada*, Helen Sawyer Hogg, NN, **77**, 22.
- The RASC Library Today*, Philip Mozel, NN, **77**, 23.
- Calgary Centre Celebrates Its 25<sup>th</sup> Anniversary*, NN, **77**, 36.
- Calgary Centre: The Next 25 Years*, Don Hladiuk, NN, **77**, 36.
- The Joy of Gazing Now Available*, J. W. S. Marshall, NN, **77**, 48.
- Report of the May 1983 National Council Meeting*, Leo Enwright, NN, **77**, 52.
- Results of the Display Competition at the 1983 General Assembly in Quebec City*, NN, **77**, 53.
- Résultat du Concours de Travaux Astronomiques Lors de L'Assemblée Générale 1983 à Québec*, NN, **77**, 55.
- Science Fair Winners*, NN, **77**, 57.
- The Society's New Home*, Ian G. McGregor, NN, **77**, 66.
- L'Assemblée Générale 1983 à Québec*, Damien Lemay, NN, **77**, 67.
- Nominations for Honorary Membership*, NN, **77**, 84.
- Report of the September National Council Meeting*, Leo Enwright, NN, **77**, 86.
- Our New Look*, A. H. Batten, **78**, 1.
- Halley's Comet*, **78**, 87.
- National Officers and Council for 1984*, **78**, 215.
- Centre Secretaries*, **78**, 215.
- Minutes of the Annual Meeting of June 30, 1984*, Leo Enwright, **78**, 216.
- New Honorary Member*, **78**, 220.
- New Service Awards*, **78**, 221.
- Concerns About Costs*, Leo Enwright, NN, **78**, 2.
- International Astronomy Day — May 5, 1984*, Leo Enwright, NN, **78**, 4.
- The 1983 General Assembly*, Rolf Meier, NN, **78**, 10.
- Report of the January National Council Meeting*, Leo Enwright, NN, **78**, 29.
- Ex Libris*, Philip Mozel, NN, **78**, 30.
- Star-Struck Students Win RASC Awards*, Susan V. Bosak, NN, **78**, 58.
- National Library Open*, NN, **78**, 64.
- Members Gather for an Enjoyable Assembly*, Betty Robinson, NN, **78**, 66.
- New Hours for the National Library*, NN, **78**, 68.
- Report of the June 1984 National Council Meetings*, Leo Enwright, NN, **78**, 71.
- National Library Open Saturdays*, NN, **78**, 87.
- Call for Slides*, Philip Mozel, NN, **78**, 87.
- L'Envoi: Thirty Days Hath ... ?!*, Harlan Creighton, NN, **78**, 93.
- Centre Secretaries*, **79**, 248.

- National Officers and Council for 1985*, **79**, 248.  
*Minutes of the Annual Meeting of June 30, 1985*, Leo Enwright, **79**, 249.  
*New Honourary Member*, **79**, 253.  
*New Service Awards*, **79**, 254.  
*International Astronomy Day April 27, 1985*, Leo Enwright, NN, **79**, 20.  
*RASC Computer Network*, NN, **79**, 24.  
*RASC National Archives*, NN, **79**, 24.  
*Editorial*, B. Ralph Chou, NN, **79**, 34.  
*Report of the January 1985 National Council Meeting*, Leo Enwright, NN, **79**, 36.  
*Keeping the RASC on Time*, Harlan Creighton, NN, **79**, 44.  
*National Library Open*, NN, **79**, 55.  
*1985 General Assembly Hosted by the Edmonton Centre*, Mary Anne Harrington, NN, **79**, 64.  
*Editorial*, Ian G. McGregor, NN, **79**, 66.  
*Report of the June 1985 National Council Meetings*, Leo Enwright, NN, **79**, 76.  
*Report of September 1985 National Council Meeting*, Leo Enwright, NN, **79**, 90.  
*National Library*, NN, **79**, 93.  
*Journal No. 600*, **80**, 154.  
*Centre Secretaries*, **80**, 287.  
*National Officers and Council for 1986*, **80**, 287.  
*Minutes of the Annual Meeting of June 29, 1986*, Leo Enwright, **80**, 288.  
*Chant Medal Award*, **80**, 293.  
*New Service Awards*, **80**, 294.  
*Editorial*, Ian G. McGregor, NN, **80**, 2.  
*International Astronomy Day April 19, 1986*, Leo Enwright, NN, **80**, 5.  
*National Library*, NN, **80**, 8.  
*The William Herschel Society and the RASC*, Roy L. Bishop, NN, **80**, 19.  
*Report of January 1986 National Council Meeting*, Leo Enwright, NN, **80**, 22.  
*Budget 1986*, NN, **80**, 23.  
*Missing February Publications?*, NN, **80**, 38.  
*Editorial*, Ian G. McGregor, NN, **80**, 50.  
*New National Officers*, NN, **80**, 53.  
*Young Scientists Win Awards*, Melina Young, NN, **80**, 62.  
*Concerning Publications for Members of Centres*, NN, **80**, 64.  
*Editorial*, Ian G. McGregor, NN, **80**, 66.  
*The 1986 General Assembly*, Mary Anne Harrington, NN, **80**, 69.  
*Report of the June 1986 National Council Meetings*, Leo Enwright, NN, **80**, 72.  
*Request for Back Issues*, **81**, 143.  
*National Officers and Council for 1987*, **81**, 164.  
*Centre Secretaries*, **81**, 164.  
*Minutes of the Annual Meeting of May 17, 1987*, Leo Enwright, **81**, 165.  
*New Honourary Member*, **81**, 171.  
*Chant Medal Award*, **81**, 172.  
*New Service Awards*, **81**, 173.  
*Former Honourary Members*, **81**, 175.  
*International Astronomy Day May 9, 1987*, Leo Enwright, NN, **81**, 14.  
*Editorial*, A. H. Batten, **81**, 25.  
*Long Range Goals for the RASC*, Lloyd Higgs, NN, **81**, 27.  
*Comet Halley Time Capsule*, Michael Watson, NN, **81**, 27.  
*The 1987 General Assembly in Toronto*, Dennis Ryan, NN, **81**, 50.  
*Report of the May 1987 National Council Meetings*, Leo Enwright, NN, **81**, 54.  
*Astronomy in the House*, Dave Nickerson, NN, **81**, 63.  
*Editorial*, Ian G. McGregor, NN, **81**, 82.  
*Report of the September 1987 National Council Meeting*, Leo Enwright, NN, **81**, 87.  
*New Honourary Member*, **82**, 32.  
*Journal for December 1987*, **82**, 83.  
*New Editor for the Journal*, **82**, 152.  
*Preparation of Manuscripts for the Journal*, **82**, 213.  
*Centre Secretaries*, **82**, 289.  
*National Officers and Council for 1988*, **82**, 289.  
*The Minutes of the Annual Meeting of July 2, 1988*, Leo Enwright, **82**, 290.  
*New Honourary Member*, Arthur E. Covington, **82**, 297.  
*Chant Medal Award*, **82**, 298.  
*Ken Chilton Prize*, **82**, 298.  
*New Service Awards*, **82**, 299.  
*New Editor*, **82**, 304.  
*Editorial*, A. H. Batten, **82**, 307.  
*The Plaskett Medal, Our Society's Newest Award*, Lloyd A. Higgs, **82**, 312.  
*Editorial*, Ian G. McGregor, NN, **82**, 2.  
*Electronic Mail Anyone?*, NN, **82**, 13.  
*Editorial*, Damien Lemay, NN, **82**, 18.  
*Report of the January 1988 National Council Meeting*, Leo Enwright, NN, **82**, 42.  
*Victoria Retrospective*, Alice Newton, NN, **82**, 66.  
*Astronomical Conference — Victoria 1988*, Mary Anne Harrington, NN, **82**, 68.  
*Report of the June 1988 National Council Meeting*, Leo Enwright, NN, **82**, 69.  
*Awards Presented at Victoria Conference*, NN, **82**, 72.  
*Chairmen of RASC National Committees*, NN, **82**, 79.  
*Centre Secretaries*, **83**, 430.  
*National Officers and Council for 1989*, **83**, 430.  
*The Minutes of the Annual Meeting of July 2, 1989*, Henry Lee, **83**, 431.  
*Chant Medal Award*, **83**, 439.  
*Ken Chilton Prize*, **83**, 439.  
*New Service Award*, **83**, 440.  
*Editorial*, Ian G. McGregor, NNB, **83**, 2.  
*Quo Ducit Urania*, Glen Hawley, NNB, **83**, 9.  
*The 1991 RASC Solar Eclipse Expedition*, Michael Watson, NNB, **83**, 22.  
*What Do We Get From the Journal?*, David H. Levy, NNB, **83**, 31.  
*Who's Leading What or Whom Where?*, Frank Shinn, NNB, **83**, 39.  
*Astronomy Day Expands in Centennial Year*, Steve Dodson, NNB, **83**, 42.  
*Writing for Your Newsletter*, Alister Ling, NNB, **83**, 63.  
*Cape Breton General Assembly*, Mary Anne Harrington, NNB, **83**, 67.  
*Du Nouveau à la Rédaction du Bulletin*, Marc A. Gélinas, NNB, **83**, 72.  
*Astronomy Day 1989: A Cross Country Roundup*, Steve

- Dodson, NNB, **83**, 76.  
*Following the Stars — For a Hundred Years*, Steve Dodson, NNB, **83**, 79.  
*Life Membership Certificate Available*, NNB, **83**, 92.  
*The 1990 General Assembly*, Rob McCallum, NNB, **83**, 96.  
*Message du Président/Message from the President*, Damien LeMay, **84**, 294.  
*Welcoming Remarks to the Public Symposium “You and the Universe” Held at Carleton University, Ottawa, 1990 June 29*, Robin H. Farquhar, **84**, 297.  
*Centre Secretaries*, **84**, 398.  
*National Officers and Council for 1990*, **84**, 398.  
*The Minutes of the Annual Meeting of July 2, 1990*, Henry Lee, **84**, 399.  
*Service Award*, **84**, 408.  
*Ken Chilton Prize*, **84**, 409.  
*The Society’s Centenary*, Peter Broughton, NNB, **84**, 2.  
*“You and the Universe”: A Public Symposium for Everyone*, NNB, **84**, 13.  
*Preparing for the Future*, Lloyd A. Higgs, NNB, **84**, 30.  
*Spreading the Word*, Doug Pitcairn, NNB, **84**, 46.  
*Welcome Patrick*, Ian G. McGregor, NNB, **84**, 50.  
*Centennial Astronomy Week — A National Wrap-Up*, Steve Dodson, NNB, **84**, 51.  
*Chasing the 1991 Solar Eclipse*, Ian G. McGregor, NNB, **84**, 58.  
*Centennial General Assembly*, Mary Anne Harrington, NNB, **84**, 66.  
*The 25 Year Club*, NNB, **84**, 74.  
*The 25 Year Club*, D. J. Fitzgerald, B, **1**, 1, 2.  
*Recruiting Disabled People Into Astronomy*, Denise Sabatini, NNB, **84**, 79.  
*Seven Months and Counting: The RASC 1991 Solar Eclipse Expedition*, Michael S. F. Watson, NNB, **84**, 82.  
*“You and the Universe” Videotapes Now Available*, NNB, **84**, 87.  
*Damien Lemay, President of the Royal Astronomical Society of Canada*, **85**, 1.  
*Service Award*, **85**, 108.  
*My First Editorial*, Patrick Kelly, B, **1**, 1, 1.  
*My Second Editorial*, Patrick Kelly, B, **1**, 2, 1.  
*Officers Appointed*, B, **1**, 2, 3.  
*The “Old” Name’s History*, Jim Low, B, **1**, 4, 2.  
*New Format Liked*, Alan Dyer, B, **1**, 4, 2.  
*Halley’s Comet Time Capsule Sealed*, Patrick Kelly, B, **1**, 4, 6.  
*The 1991 General Assembly*, Steven Spinney, B, **1**, 5, 3.  
*The RASC Eclipse Expedition*, Dan Falk, B, **1**, 5, 4.  
*Editorial*, Jeremy B. Tatum, **86**, 69.  
*Service Award*, **86**, 111, 154.  
*Honorary Membership for Dr. Owen Gingerich*, **86**, 211.  
*President of the Royal Astronomical Society of Canada*, **86**, 223.  
*New Society Publication Launched*, Leo Enwright, B, **2**, 1, 1.  
*Many Thanks and Please Write!*, Henry Lee, B, **2**, 1, 2.  
*The September 28<sup>th</sup> Council Meeting*, Mary Anne Harrington, B, **2**, 1, 3.  
*Nominations for 1992 RASC Officers*, B, **2**, 1, 3.  
*Preamble to the Membership Survey*, Glenn Hawley, B, **2**, 1.  
*The Journal — Who Needs It?*, David Chapman, B, **2**, 2, 6.  
*The Journal Controversy*, Doug George, B, **2**, 2, 6.  
*On the Money*, Richard Small, B, **2**, 2, 8.  
*E-mail Communication Within the RASC*, Michael Daly, B, **2**, 3, 3.  
*The Journal of the RASC: A Different Perspective*, Alister Ling, B, **2**, 3, 6.  
*Thoughts on the Journal of the RASC*, Philip Mozel, B, **2**, 3, 7.  
*Thoughts on “Thoughts on the JRASC”*, John R. Percy, B, **2**, 4, 4.  
*More Thoughts on “Thoughts on the JRASC”*, Michael Daly, B, **2**, 4, 4.  
*Council Highlights*, B, **2**, 4, 5.  
*Friends of the Society*, Peter Broughton, B, **2**, 4, 5.  
*Thanks from Calgary*, Mel Head, B, **2**, 4, 5.  
*The 1992 GA*, Grant Dixon, B, **2**, 5, 1.  
*RASC Chairpersons — 1992-93*, B, **2**, 5, 5.  
*The Journal and the Financial State of the Society*, Doug Hube, B, **2**, 1, 6.  
*Charting a Course for the Society’s Future — I*, Derek Baker, B, **2**, 6, 1.  
*1993 National Calendar*, B, **2**, 6, 2.  
*Donations Linkage Upsetting*, Suzanne Moreau, B, **2**, 6, 2.  
*Nova Scotia: There’s So Much to Seal!*, Mary Lou Whitehorne, B, **2**, 6, 3.  
*Outreach Programs for Centres*, Bill Broderick, B, **2**, 6, 4.  
*The Noblest Cause*, Doug Pitcairn, B, **2**, 6, 5.  
*What the Blinkity-Blink is Going On Here?*, Jeremy B. Tatum, B, **2**, 6, 5.  
*Service Award*, **87**, 65.  
*Simon Newcomb Award*, **87**, 66.  
*Chant Medal*, **87**, 120.  
*Service Award*, **87**, 120.  
*A Revised Canadian Fireball Reporting System*, Robert Hawkes & Damien Lemay, **87**, 140.  
*Editorial*, Jeremy B. Tatum, **87**, 171.  
*RASC Observer’s Calendar*, **87**, 251.  
*Notes*, Jeremy B. Tatum, **87**, 394.  
*Charting a Course for the Society’s Future — II: Defining the Amateur’s Needs*, Derek Baker, B, **3**, 1, 1.  
*Big Bang for Little Bucks*, Peter Broughton, B, **3**, 1, 2.  
*Last But Not Least*, Philip Mozel, B, **3**, 1, 2.  
*Book Reviewers Wanted*, B, **3**, 1, 3.  
*A Biased View of Membership Fees*, Roy Bishop, B, **3**, 1, 3.  
*National Council Highlights*, B, **3**, 1, 5.  
*Tales From Beyond the Event Horizon*, Mark Kaye, B, **3**, 1, 8.  
*President’s Report*, Peter Broughton, B, **3**, 2, 2.  
*Secretary’s Report*, David A. Tindall, B, **3**, 2, 3.  
*Centre Reports*, B, **3**, 2, 4.  
*Minutes of the 1992 Annual Meeting*, Mary Anne Harrington, B, **3**, 2, 20.  
*National and Centre Councils for 1993*, B, **3**, 2, 25.  
*Centre Finances*, B, **3**, 2, 30.  
*Activities*, B, **3**, 2, 32.  
*National Finances*, B, **3**, 2, 33.  
*Awards*, B, **3**, 2, 36.  
*Charting a Course for the Society’s Future — III: The Society Today*, Derek Baker, B, **3**, 3, 1.

- In the Best Possible Way*, Alan H. Batten, B, **3**, 3, 2.
- Is the New RASC Member a Client?*, Alister Ling, B, **3**, 3, 3.
- RASC Lighting Certificate*, Ruth Lewis, B, **3**, 3, 5.
- Charting a Course for the Society's Future — IV: The Society of the Future?*, Derek Baker, B, **3**, 4, 1.
- No Sexism in Vancouver*, Diane Chaytor, B, **3**, 4, 2.
- Elitist Men's Club?*, Clive Gibbons, B, **3**, 4, 2.
- Sexism in the RASC?*, Michael S. F. Watson, B, **3**, 4, 3.
- Gracias, Merci, Danke, Schon, and Thanks!*, Mary Lou Whitehorne, B, **3**, 4, 4.
- Meeting Highlights*, Jeo Yurchesyn, B, **3**, 4, 6.
- Meeting Highlights*, Joe Yurchesyn, B, **3**, 6, 3.
- Put Nothing In; Expect Nothing Out*, Dennis Ryan, B, **3**, 4, 7.
- Not Just Another Pretty Calendar*, Rajiv Gupta, B, **3**, 4, 9.
- Membership Survey Results I — The Journal*, Michael S. F. Watson, B, **3**, 5, 1.
- Decision Time for the RASC*, Darryl Dewolfe, B, **3**, 5, 2.
- Astronomical Versus Society*, B. Franklyn Shinn, B, **3**, 5, 2.
- Common Problems, Common Solutions*, Carl T. Milazzo, B, **3**, 5, 7.
- The Speech That Never Was*, Mary Lou Whitehorne, B, **3**, 5, 8.
- Survey Results*, B, **3**, 6, 1.
- People Sharing the Wonder*, Jim Low, B, **3**, 6, 2.
- A Constructive Approach to Sexism*, Chris Baldock, B, **3**, 6, 3.
- RASC 2000*, Doug George, B, **3**, 6, 3.
- The October 1993 Council Meeting*, Walter MacDonald & Doug Hube, B, **3**, 6, 6.
- The Woman Responds*, Mary Lou Whitehorne, B, **3**, 6, 10.
- Charitable Donations and the RASC*, Doug Hube, B, **3**, 6, 11.
- Editorial*, David G. Turner, **88**, 91.
- Service Awards*, **88**, 172.
- Closed Captions?*, Heinz Berrys, B, **4**, 1, 2.
- Survey Comments*, Doug Hube, B, **4**, 1, 2.
- Nebula Will Not Be Mugged*, Steve Whitehouse, B, **4**, 1, 2.
- Astronomy Week 1994*, Sandy Ferguson, B, **4**, 1, 3.
- Council Highlights*, Walter MacDonald, B, **4**, 2, 2.
- President's Report*, Peter Broughton, B, **4**, 2, 6.
- Secretary's Report*, Randall Brooks, B, **4**, 2, 7.
- Centre Reports*, B, **4**, 2, 8.
- The '93 GA*, B, **4**, 2, 22.
- Minutes of the 1993 Annual Meeting*, Mary Anne Harrington, B, **4**, 2, 24.
- National and Centre Councils for 1994*, B, **4**, 2, 29.
- Centre Finances*, B, **4**, 2, 34.
- Activities*, B, **4**, 2, 36.
- National Finances*, B, **4**, 2, 37.
- Awards*, B, **4**, 2, 40.
- Journal Comments Appreciated*, Andrew I. Oakes, B, **4**, 3, 2.
- Solar Eclipse a Ringing Success*, B, **4**, 3, 3.
- Light Pollution Update*, Ruth Lewis, B, **4**, 3, 5.
- Look Out for Looking Up*, B, **4**, 3, 7.
- Armchair Astronomer's Heaven*, Jim Low, B, **4**, 4, 1.
- Annual Report Update*, B, **4**, 4, 2.
- National Council Update*, Walter MacDonald, B, **4**, 4, 3.
- A New Publication for the RASC*, David J. Lane, B, **4**, 4, 6.
- A New Society Logo*, Patrick Kelly, B, **4**, 4, 8.
- 1995 RASC Observer's Calendar*, Rajiv Gupta, B, **4**, 5, 2.
- Special Conference Travel Grant*, B, **4**, 5, 8.
- The Wright Stuff*, Mary de Torcat, B, **4**, 6, 2.
- Simon Newcomb Award*, B, **4**, 6, 3.
- The New, Improved Simon Newcomb Award*, David M. F. Chapman, B, **4**, 6, 3.
- National Council Update*, Cathy Hall, B, **4**, 6, 4.
- Editorial*, David G. Turner, **89**, 1.
- Honorary RASC Member Patrick Moore*, **89**, 28.
- Service Award to Pat Kelly*, **89**, 29.
- Honorary RASC Member Robert Evans*, **89**, 64.
- Award Presentations for the 1995 General Assembly*, **89**, 113.
- A Telescope for Viet Nam*, Alan H. Batten, **89**, 122.
- Award Winners Honoured at General Assembly in Windsor*, **89**, 226.
- Nominations for Treasurer*, Peter Broughton, B, **5**, 1, 2.
- Let's Keep Urania*, Camilla Robinson, B, **5**, 1, 2.
- Astronomy Week 1995*, Sandra Ferguson, B, **5**, 1, 3.
- National Council Update*, Cathy Hall, B, **5**, 1, 5.
- President's Report*, Douglas P. Hube, B, **5**, 2, 3.
- Secretary's Report*, Randall Brooks, B, **5**, 2, 4.
- Centre Reports*, B, **5**, 2, 5.
- Minutes of the 1994 Annual Meeting*, Peter Jedicke, B, **5**, 2, 18.
- National and Centre Councils for 1995*, B, **5**, 2, 21.
- Centre Finances*, B, **5**, 2, 26.
- Activities*, B, **5**, 2, 28.
- National Finances*, B, **5**, 2, 29.
- Awards*, B, **5**, 2, 32.
- National Astronomy Day 1995*, Sandy Ferguson, B, **5**, 3, 7.
- The Saskatoon Centre's Temporary Membership Program*, Richard Huziak, B, **5**, 4, 2.
- The RASC Meets the Internet*, David J. Lane, B, **5**, 4, 5.
- Canadian Astronomical History: 1991-1994*, Ed Kennedy, B, **5**, 4, 12.
- Society Objectives*, Raymond Auclair, B, **5**, 5, 1.
- Okanagan Centre Born!*, B, **5**, 5, 2.
- Questionnaire Results*, David Lane, B, **5**, 5, 2.
- Letter From the National President*, Doug Hube, B, **5**, 5, 3.
- National Council Report*, Rick Wagner, B, **5**, 5, 3.
- Should CAT Owners Receive Certificates?*, Doug Hube, B, **5**, 5, 4.
- News About Our Honorary Members*, **90**, 59.
- Simon Newcomb Award Presented at November Council Meeting*, **90**, 100.
- News About Our Honorary Members*, **90**, 101.
- Congratulations To ...*, **90**, 171.
- For the Information of Our Readers and Subscribers*, David G. Turner, **90**, 243.
- Awards Presentations at the 1996 General Assembly*, **90**, 347.
- President's Report*, Doug Hube, B, **6**, 2, 3.
- Secretary's Report*, Randall Brooks, B, **6**, 2, 4.
- Centre Reports*, B, **6**, 2, 5.
- Minutes of the 1995 Annual Meeting*, Peter Jedicke, B, **6**, 2, 22.
- Minutes of the 1995 Annual Meeting*, Peter Jedicke, B, **6**, 3, 2.
- National and Centre Councils for 1996*, B, **6**, 2, 25.

*Windsor Council for 1995*, B, **6**, 3, 2.  
*Centre Finances*, B, **6**, 2, 30.  
*Centre Finances*, B, **6**, 3, 2.  
*Activities*, B, **6**, 2, 32.  
*National Finances*, B, **6**, 2, 33.  
*Awards*, B, **6**, 2, 36.  
*Awards*, B, **6**, 3, 2.  
*National Council Report*, Patrick Kelly, B, **6**, 4, 3.  
*New Membership Management Proposal*, B, **6**, 4, 5.  
*The 1996 Edmonton General Assembly*, Ken Noesgaard, B, **6**, 4, 6.  
*New Executive Secretary*, Bonnie Bird, B, **6**, 5/6, 3.

## **Sarnia Centre**

*Welcome Sarnia Centre!*, Ian G. McGregor, NN, **76**, 23.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 89.  
*Across the RASC*, NN, **82**, 38.  
*Across the RASC*, NNB, **83**, 37.  
*Across the RASC*, NNB, **84**, 60.  
*Across the RASC*, B, **2**, 1, 7.  
*Across the RASC*, B, **2**, 2, 2.  
*National and Centre Councils for 1993*, B, **3**, 2, 28.  
*Centre Finances*, B, **3**, 2, 31.  
*Centre Reports*, James Selinger, B, **4**, 2, 16.  
*National and Centre Councils for 1994*, B, **4**, 2, 32.  
*Center Finances*, B, **4**, 2, 35.  
*Solar Eclipse a Ringing Success*, B, **4**, 3, 3.  
*Centre Reports*, James Selinger, B, **5**, 2, 12.  
*National and Centre Councils for 1995*, B, **5**, 2, 24.  
*Centre Finances*, B, **5**, 2, 27.  
*National and Centre Councils for 1996*, B, **6**, 2, 28.  
*Centre Finances*, B, **6**, 2, 31.

## **Saskatoon Centre**

*New Centre of the Society*, NN, **64**, 7.  
*Summer Lecture Series in Saskatoon*, Linton Smith, NN, **65**, 18.  
*From Saskatoon Centre*, NN, **66**, 35.  
*Progress at Saskatoon Centre*, Ron Waldron, NN, **67**, 12.  
*A Very Active Programme at Saskatoon*, Murray Stran Kay, NN, **67**, 13.  
*Activities at the Centre: Saskatoon*, F. A. Holden, NN, **67**, 23.  
*Activities of the Centres: Saskatoon*, F. A. Holden, NN, **68**, 17.  
*Totality 1979 — Looking Back*, NN, **73**, 37.  
*The Rystrom Observatory: Part I*, G. N. Patterson, NN, **73**, 90.  
*The Rystrom Observatory: Part II*, G. N. Patterson, NN, **74**, 5.  
*Saskatoon Centre Active*, Kevin Atchison, NN, **74**, 24.  
*Astronomy Day 1981*, NN, **75**, 52.  
*RASC Centres Mark Astronomy Day*, NN, **76**, 39.  
*The Saskatoon General Assembly*, G. N. Patterson, NN, **76**, 50.  
*Reflections on Coring a 16-Inch Mirror*, Mike Wesolowski, NN, **77**, 45.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*Across the RASC*, Peter Jedicke, NN, **78**, 42.

*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 89.  
*Across the RASC*, NN, **79**, 30.  
*A Successful Astronomy Day*, NN, **79**, 56.  
*Across the RASC*, NN, **79**, 90.  
*Across the RASC*, NN, **80**, 11, 26, 52.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 24, 42, 61, 68, 84.  
*Across the RASC*, NN, **82**, 9, 27, 38, 53, 83.  
*Across the RASC*, NNB, **83**, 15, 25.  
*Across the RASC*, NNB, **84**, 4, 20, 60, 76.  
*Astronomy Day Reports*, B, **2**, 4, 3.  
*Centre Reports*, B, **3**, 2, 15.  
*National and Centre Councils for 1993*, B, **3**, 2, 28.  
*Centre Finances*, B, **3**, 2, 31.  
*Centre Reports*, Bill Hydromako & Richard Huziak, B, **4**, 2, 16.  
*National and Centre Councils for 1994*, B, **4**, 2, 32.  
*Center Finances*, B, **4**, 2, 35.  
*Annual Report Update*, B, **4**, 4, 2.  
*Centre Reports*, Richard Huziak, B, **5**, 2, 13.  
*National and Centre Councils for 1995*, B, **5**, 2, 24.  
*Centre Finances*, B, **5**, 2, 27.  
*National Astronomy Day 1995*, Sandy Ferguson, B, **5**, 3, 7.  
*The Saskatoon Centre's Temporary Membership Program*, Richard Huziak, B, **5**, 4, 2.  
*Centre Reports*, Rick Huziak, B, **6**, 2, 14.  
*National and Centre Councils for 1996*, B, **6**, 2, 28.  
*Centre Finances*, B, **6**, 2, 31.

## **Shock Waves**

*Star Formation from Shock Waves*, Ian Halliday, **64**, 51.  
*Are Long-Period Variables Really Pulsating?*, George Wallerstein, **71**, 298.  
*On the Diatomic and Triatomic Hydrogen Molecules in the Planetary Nebula NGC 7027*, Grant Gussie & Chris Pritchett, **82**, 69.

## **Site Testing**

*Site-Testing for a Proposed 12 MHz Radio Telescope in Alberta*, F. S. Chute, C. G. Englefield, P. J. R. Harding, C. R. James & D. Routledge, **65**, 49.  
*Observing Conditions on Mount Kobau*, E. Brosterhus, E. Pfannenschmidt & F. Younger, **66**, 1.  
*Atmospheric Water Vapour at Mt. Kobau and Calgary and Its Relevance to Infrared Astronomical Measurements*, T. A. Clarke & G. Irwin, **67**, 142.  
*Site Survey for a Solar Observatory in Canada*, V. Gaizauskas & A. Kryworuchko, **67**, 217.  
*A Survey of Possible Observatory Sites in Southwestern British Columbia*, Paul Hickson & Philip D. Bennett, **83**, 122.  
*Hectometer Radio Astronomy*, Grote Reber, **88**, 297.

## **Solar System: Formation**

*Origin of the Solar System*, Ian Halliday, **63**, 137.  
*Satellites of the Outer Planets*, Ian Halliday, **66**, 314.  
*Projectiles, Parabolas, and Velocity Expansions of the Laws of Planetary Motion*, J. N. Harris, **83**, 207.

## **Solar System: General**

*Meteorite Orbits*, Peter M. Millman, **64**, 114.  
*Interplanetary Material*, Peter M. Millman, **68**, 13.  
*Aristarchos of Samos*, Alan H. Batten, **75**, 29.  
*Solar-System Astronomy in Volumes 1-25 of the Journal of the RASC (1907-1931)*, Ian Halliday, **75**, 299.  
*Giant Molecular Clouds and the Solar System Comets*, Sidney van den Bergh, **76**, 303.  
*Recurrent Phenomena of Venus and the Earth/Venus Orbital Resonance*, David M. F. Chapman, **80**, 336.  
*Exploring Our Solar System: The Voyager Adventure*, Joseph Veverka, **84**, 334.  
*Some Observations of the Zodiacal Light*, Alister Ling, **B**, **1**, 4, 8.  
*The "Growing" Kuiper Belt*, **90**, 346.  
*Interstellar Forecast: Increasing Cloudiness*, **B**, **6**, 3, 3.

### Space Vehicles (see also Artificial Satellites, Space Probes)

*The Last Men on the Moon*, Terence Dickinson, **NN**, **65**, 17.  
*Werhner von Braun Lectures in Toronto*, Denis J. Halley, **NN**, **66**, 19.  
*Apollo 17: The Beginning, We Hope*, Ken Hewitt-White, **NN**, **67**, 7.  
*First Space Shuttle Launch Visit*, Peter Jedicke, **NN**, **73**, 96.  
*Space Shuttle Launch Visit*, Peter Jedicke, **NN**, **75**, 7.  
*Moving Into Space?*, John Greer, **NN**, **75**, 36.  
*First Launch of the Space Shuttle*, Jaymie Matthews, **NN**, **75**, 42.  
*Apollo 17 — A Personal Reflection*, Roy L. Bishop, **NN**, **76**, 60.  
*Bends-O-Mania*, Rob L. Allen, **NN**, **77**, 30.  
*Shuttles and Seagulls*, David H. Levy, **NN**, **78**, 82.  
*Canada's Astronaut Debuts*, Muriel Enock, **NN**, **79**, 21.  
*To Build a Space Station*, **NN**, **80**, 10.  
*First Soviet Spacecraft Models*, **NN**, **82**, 47.  
*Can We Afford Space?*, Chris Brown, **B**, **4**, 3, 1.  
*Little More Than Orange Juice*, Stephen Biggs, **B**, **4**, 4, 2.  
*Little More Than Orange Juice?*, Blair MacDonald, **B**, **5**, 3, 2.

### St. John's Centre (see also Notes from Newfoundland)

*Double Graze, June 1970*, Dora Russell, **NN**, **64**, 26.  
*Activities at the Centre: St. John's*, D. Russell, **NN**, **67**, 22.  
*RASC Service Award Winner Given Civic Reception in St. John's*, **NN**, **71**, 49.  
*RASC Service Award Winner Given Civic Reception in St. John's*, **NN**, **72**, 10.  
*Astronomy Day 1981*, **NN**, **75**, 52.  
*Centre News*, Ralph Chou & Peter Jedicke, **NN**, **76**, 57.  
*Centres Arrange Summer Observing Sessions*, Peter Jedicke, **NN**, **76**, 74.  
*Across the RASC*, Peter Jedicke, **NN**, **78**, 42.  
*Across the RASC*, **NN**, **81**, 5, 61.  
*Astronomy in the Blood*, Dennis Ryan, **NNB**, **83**, 37.  
*Across the RASC*, **NNB**, **84**, 36.  
*Discovery of an Observing Site*, Dennis Ryan, **B**, **1**, 3, 6.  
*Centre Reports*, Charles Henderson, **B**, **3**, 2, 14.  
*National and Centre Councils for 1993*, **B**, **3**, 2, 28.  
*Centre Finances*, **B**, **3**, 2, 31.

*Centre Reports*, Dennis Ryan, **B**, **4**, 2, 15.  
*National and Centre Councils for 1994*, **B**, **4**, 2, 32.  
*Centre Finances*, **B**, **4**, 2, 35.  
*Centre Reports*, Dennis Ryan, **B**, **5**, 2, 12.  
*National and Centre Councils for 1995*, **B**, **5**, 2, 24.  
*Centre Finances*, **B**, **5**, 2, 27.  
*Centre Reports*, Phil McCausland, **B**, **6**, 2, 13.  
*National and Centre Councils for 1996*, **B**, **6**, 2, 28.  
*Centre Finances*, **B**, **6**, 2, 31.

### Stars: Abundances

*The Interpretation of Stellar Spectra*, Anne B. Underhill, **62**, 331.  
*Subdwarfs*, Per H. Anderson, **65**, 119.  
*Abundances of Heavy Elements in Late-Type Stars*, Gustav A. Bakos, **65**, 222, 303.  
*Actinide Astronomy*, Charles R. Cowley, **71**, 108.  
*Below the Tip: New Controversies in Globular Cluster Research*, James E. Hesser, **76**, 69.  
*On the Formation and Age of the Galaxy*, Allan Sandage, **84**, 70.  
*The Globular Clusters of the Disk and Halo*, Robert Zinn, **84**, 89.  
*How Metal-Weak Can a Disk Star Be?*, Heather L. Morrison, **84**, 107.  
*CO and CN Absorption in the Near-Infrared Spectra of Luminous M31 Globular Clusters*, T. J. Davidge, **84**, 166.  
*The Local Space Density of Thick Disk Stars*, P. C. Dawson, **84**, 175.  
*On the Evolving Role of Computational Astrophysics*, Paul Charbonneau, **86**, 31.  
*Évolution de L'Abondance Chimique de Surface des Étoiles Naines Blanches Froides de Type DA*, P. Bergeron, **86**, 309.  
*What is Normal Among the A-Type Stars?*, Grant M. Hill, **88**, 359.  
*f-Values*, Jeremy Tatum, **B**, **5**, 4, 6.

### Stars: Activity

*An Attempt to Use Narrow-Band H $\alpha$  Photometry to Estimate Levels of Stellar Activity*, S. M. Rucinski, **81**, 36.

### Stars: AGB, Post-AGB

*Distribution of Giant M and Carbon Stars in a Region in Puppis ( $\ell = 246^\circ$ ,  $b = -0.6^\circ$ )*, Kenneth A. Kirton & M. Pim FitzGerald, **68**, 154.  
*A Search for Polyatomic Molecular Lines in the Photographic Spectral Region of Carbon Stars*, Y. Fujita, **71**, 115.  
*The Visual and Near-Infrared Spectra of Planetary-Nebulae Nuclei*, Lawrence H. Aller, **71**, 67.  
*The Carbon and Related Stars*, Robert D. McClure, **79**, 277.  
*Red Stars*, Mel Rankin, **NN**, **82**, 32.

### Stars: Atmospheres

*The Near Ultraviolet Spectrum from a B Star*, Anne B. Underhill, **61**, 9.

*The Interpretation of Stellar Spectra*, Anne B. Underhill, **62**, 331.

*The Search for Stellar Microturbulence*, David F. Gray & John C. Evans, **67**, 241.

*A Search for Polyatomic Molecular Lines in the Photographic Spectral Region of Carbon Stars*, Y. Fujita, **71**, 115.

**Stars: Binaries (including multiple): Close Multiple Systems**, W. D. Heintz, **67**, 65.

*Introductory Remarks on Spectroscopic Parameters*, Helmut A. Abt, **67**, 73.

*A Bright Quadruple Star*, Leo Enwright, NN, **77**, 47.

*The Orbit of the Visual Binary KPR 114 (HR 8629)*, R. F. Griffin & W. D. Heintz, **81**, 3.

*Supernovae and Their Remnants*, Sidney van den Bergh, **82**, 179.

*The Frequency of Multiple Stellar Systems*, A. H. Batten & J. M. Fletcher, **83**, 289.

*The Light Curve of V1765 Cygni: A Close Binary System with a Supergiant Companion*, John R. Percy & Najam Khaja, **89**, 91.

*Polaris Today*, Karl W. Kamper, **90**, 141.

### **Stars: Binaries: Eclipsing**

*Light Variations of HD 190467*, John R. Percy, **64**, 218.

*The Coordinated Program for Observing the Zeta Aurigae Stars, 1971-72*, K. O. Wright, **66**, 289.

*XZ Andromedae — A Short Period Variable*, Marvin E. Baldwin, **67**, 325.

*A Time of Minimum for HD 217312*, C. D. Scarfe & D. J. Barlow, **68**, 96.

*The Eclipsing Binary EM Cephei*, Gustav A. Bakos & Jozef Tremko, **69**, 307.

*Spectral Lines in the Ultraviolet*, Anne B. Underhill, **71**, 123.

*U Cephei and Its Outbursts in 1969 and 1974*, Gustav A. Bakos & Jozef Tremko, **71**, 234.

*Visual Observations of  $\theta$ 1 Orionis A*, Marvin E. Baldwin & Janet A. Mattei, **71**, 475.

*A Progress Report on NY Cephei*, C. D. Scarfe, **73**, 258.

*Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.

*The Eclipsing Binary Star — V342 Aquilae*, Marvin E. Baldwin, **73**, 320.

*Variations of the Light Curve of the Eclipsing Binary EM Cephei*, Jozef Tremko & Gustav A. Bakos, **74**, 321.

*History of U Coronae Borealis — A Sequel*, Gustav A. Bakos & Jozef Tremko, **75**, 124.

*AO Camelopardalis*, E. F. Milone, D. H. Piggott & S. L. Morris, **76**, 90.

*Two Interesting Variable Stars*, Zdenko Saroch, NN, **76**, 23.

*The Quadruple System HR 3337*, Gustav A. Bakos, **79**, 119.

*Simulating an Eclipsing Binary Light Curve*, David L. DuPuy & Robert D. Ellis, **79**, 183.

*A First Observation of the Chromospheric Spectrum of the  $\zeta$  Aurigae Binary HR 6902*, R. E. M. Griffin, **82**, 49.

*The Light Curve of V1765 Cygni: A Close Binary System with a Supergiant Companion*, John R. Percy & Najam Khaja, **89**, 91.

*HD 23642 Found to be an Eclipsing Binary*, **90**, 58.

### **Stars: Binaries: General**

*On the Angular Momenta of Stars, Planets and Asteroids*, G. G. Fahlman & S. P. S. Anand, **63**, 36, 150.

*A Statistical Study of Binary Stars*, Wulff D. Heintz, **63**, 275.

*Orbital and Physical Parameters of Double Stars: Proceedings of Colloquium No. 18 of the International Astronomical Union Held at Swarthmore College, Pennsylvania, USA, April 12-15, 1972*, W. D. Heintz, **67**, 49.

*The Tools to Determine Orbital Parameters*, W. D. Heintz, **67**, 52.

*Remarks on Orbits and Dynamical Parallaxes*, J. Dommange, **67**, 56.

*Hertzsprung's Luminosity-Colour Relation for Visual Binaries*, W. S. Finsen & P. N. J. Wisse, **67**, 58.

*Les Etoiles Doubles Faibles*, P. Couteau, **67**, 77.

*Les Etoiles Doubles Binaires*, Damien Lemay, NN, **72**, 51.

*Double Stars*, Herb McGrath, NN, **73**, 25.

*On the Computation of Dynamical Parallaxes*, B. Cameron Reed, **78**, 83.

*A Note on Two RS Canum Venaticorum Stars: LX Persei and SZ Piscium*, John R. Percy, **79**, 113.

*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.

*A Re-Examination of Mass-Luminosity Relations from Binary-Star Data*, S. C. Griffiths, R. B. Hicks & E. F. Milone, **82**, 1.

*On the Origin of the OB Runaway Stars*, Peter J. T. Leonard, **84**, 216.

*Binary Star Observer's Group Formed*, Ronald C. Tanquay, B, **1**, 1, 8.

*Look THAT Up in Your Observer's Handbook*, Alister Ling, B, **3**, 3, 5.

*Binaries and Clusters Collide in Calgary*, Gene Milone & David Turner, **89**, 227.

### **Stars: Binaries: Spectroscopic**

*A Study of the Spectroscopic Binary 47 Andromedae*, J. Murray Fletcher, **61**, 56.

*Spectrographic Orbit and Photometric Observations of HD 217312 in the III Cephei Association*, J. F. Heard & J. D. Fernie, **62**, 99.

*Understanding Spectroscopic Binaries*, Alan H. Batten, **62**, 344.

*The Spectrographic Orbit of H. D. 161701*, Douglas P. Hube, **63**, 229.

*Light Variations in  $\psi$  Orionis*, John R. Percy, **63**, 233.

*HD 176318: A Second Epoch Spectrographic Orbit*, Douglas P. Hube, **64**, 98.

*Stellar Radial Velocities and Spectroscopic Binaries*, John F. Heard, **64**, 209.

*The Spectroscopic Orbits of the Binary Systems HD 91948 and HD 176318*, Walter L. Gorza, **65**, 277.

*The Spectrographic Orbit of HD 193964*, Douglas P. Hube, **67**, 161.

*Spectrographic Observations of the Visual Binary Burnham 1163 During Periastron Passage*, J. Murray Fletcher,



- 67, 255.  
*The Orbit of the Am Spectroscopic Binary HD 82191*, John F. Heard & Roel Hurkens, **67**, 306.  
*BD +47 781, A Spectroscopic Binary with H and K Emission*, M. Pim FitzGerald, **68**, 23.  
*A Time of Minimum for HD 217312*, C. D. Scarfe & D. J. Barlow, **68**, 96.  
*The Orbit and Nature of  $\theta^2$  Orionis A*, G. C. L. Aikman & B. A. Goldberg, **68**, 205.  
*The Orbit of the Spectroscopic Binary HD 11291*, John F. Heard & Arno Krautter, **69**, 22.  
*The Orbit of the Double-Line Spectroscopic Binary HD 153720*, John F. Heard & Roel J. Hurkens, **69**, 25.  
*New Observations of HD 218154*, Jim Thomson & C. T. Bolton, **71**, 259.  
*A Photometric Study of the Am Binary System AN Andromedae*, Jozef Tremko & Gustav A. Bakos, **72**, 263.  
*HD 193857: A Metallic-Line Binary*, Douglas P. Hube, **72**, 319.  
*R Aquarii — A Unique Long-Period Variable*, Janet Akyüz Mattei, **73**, 173.  
*The Spectroscopic Orbit of BD +29 3805*, R. F. Griffin, **73**, 266.  
*The Double Star Sirius*, George R. Ball, NN, **73**, 53.  
*A Redetermination of the Orbit of HD 192276*, Douglas P. Hube & Andrew Lowe, **74**, 342.  
*The Spectroscopic Orbit of HD 7308*, R. F. Griffin, **74**, 348.  
*The Spectroscopic Orbit of HD 131511*, Karl W. Kamper & Ronald W. Lyons, **75**, 56.  
*The Spectroscopic Orbit of HD 225292*, R. F. Griffin, **75**, 222.  
*Orbital Elements for the Double-Line Spectroscopic Binaries HD 104451 and HD 141458*, C. T. Bolton, Matthew Bates & Roel Hurkens, **77**, 18.  
*A Spectroscopic Orbit For  $\nu$  Draconis*, R. F. Griffin, Hugh C. Harris & Robert D. McClure, **77**, 73.  
*The Barr Effect*, A. H. Batten, **77**, 95.  
*The Double-Lined Spectroscopic Binary HD 28475*, Douglas P. Hube, **77**, 142.  
*Revised Orbital Elements for the Spectroscopic Binary HD 92000 (36 Leo Minoris)*, A. H. Batten, J. M. Fletcher & Robert D. McClure, **77**, 241.  
*The Spectroscopic Orbit of HR 1878*, R. F. Griffin, **78**, 151.  
*Preliminary Orbital Elements for the Am Binary HD 434*, Douglas P. Hube & Austin F. Gulliver, **79**, 49.  
*The Quadruple System HR 3337*, Gustav A. Bakos, **79**, 119.  
*The Carbon and Related Stars*, Robert D. McClure, **79**, 277.  
*The Spectroscopic Orbits of HD 44780 and 65 Geminorum*, R. F. Griffin, **80**, 91.  
*The Semiregular Variable 57 Pegasi*, J. Tremko & G. A. Bakos, **80**, 230.  
*Is the Distribution of Binary Mass Ratios Really Bimodal?*, C. D. Scarfe, **80**, 257.  
*A First Observation of the Chromospheric Spectrum of the  $\zeta$  Aurigae Binary HR 6902*, R. E. M. Griffin, **82**, 49.  
*The Spectroscopic Orbit of HD 53299A*, C. D. Scarfe, R. Griffin & R. Griffin, **82**, 128.  
*A New Look at HD 93075*, Douglas P. Hube, **83**, 26.  
*Some Properties of the Population of Known Spectroscopic Binary Stars*, J. M. Fletcher & A. H. Batten, **84**, 44.  
*A New Spectroscopic Orbit for Delta Capricorni*, A. H. Batten & J. M. Fletcher, **86**, 99, 269.  
*Spectroscopic Observations of the Binary Be Star Phi Persei*, M. L. Whitehorne, **86**, 178.  
*Spectroscopic Orbit Elements for the A-Type Binary HD 208509*, Douglas P. Hube & Alan H. Batten, **86**, 259.  
*Spectroscopic Orbital Elements for HD 51892*, Douglas P. Hube, **86**, 325.  
*An Improved Orbit for the Double-Lined Pleiades Binary HD 23642*, R. F. Griffin, **89**, 53.  
*HD 23642 Found to be an Eclipsing Binary*, **90**, 58.  
*Polaris Today*, Karl W. Kamper, **90**, 141.
- Stars: Binaries: Symbiotic**  
*Variable Star Notes*, Margaret W. Mayall, **63**, 321.  
*From Recent Newsletters — Variable Stars*, NN, **65**, 15.  
*The R Coronae Borealis Stars*, Martin G. Connors, NN, **65**, 27.  
*RY Sagittarii*, Margaret W. Mayall, **66**, 233.  
*Variable Star Notes*, Margaret W. Mayall, **66**, 325.  
*Variable Star Notes*, Janet Akyüz Mattei, **68**, 221.  
*Variable Star Notes*, Janet Akyüz Mattei, **69**, 261.  
*The Symbiotic Star — CI Cygni*, Janet Akyüz Mattei, **70**, 325.  
*The Recent Activities of R Corona Borealis and SU Tauri*, Janet Akyüz Mattei, **70**, 327.  
*The System of VV Cephei Derived from an Analysis of the H $\alpha$  Line*, K. O. Wright, **71**, 152.  
*Are Long-Period Variables Really Pulsating?*, George Wallerstein, **71**, 298.  
*The Symbiotic Star — Z Andromedae*, Janet Akyüz Mattei, **72**, 61.  
*Nova Serpentis 1978 and the Minimum of R Corona Borealis During 1978*, Janet Akyüz Mattei, **73**, 50.  
*R Aquarii — A Unique Long-Period Variable*, Janet Akyüz Mattei, **73**, 173.  
*Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.  
*The 1978 Outburst of the Cataclysmic Variable WZ Sagittae*, Janet Akyüz Mattei, **74**, 53.  
*Symbiotic Stars*, Sun Kwok, **76**, 59.  
*AO Camelopardalis*, E. F. Milone, D. H. Piggott & S. L. Morris, **76**, 90.  
*Interacting Binary Stars: Freaks or Rosetta Stone*, Mirek J. Plavec, **77**, 283.
- Stars: Binaries: Visual**  
*Hertzsprung's Luminosity-Colour Relation for Visual Binaries*, W. S. Finsen & P. N. J. Wisse, **67**, 58.  
*The Photometry of Visual Binaries*, R. H. Hardie, **67**, 68.  
*Introductory Remarks on Spectroscopic Parameters*, Helmut A. Abt, **67**, 73.  
*Observational Procedures for Visual Double-Star Work*, Otto G. Franz, **67**, 81.  
*Spectrographic Observations of the Visual Binary Burnham 1163 During Periastron Passage*, J. Murray Fletcher, **67**, 255.  
*Mizar and Alcor A Two Ring Circus*, R. L. Linkletter, NN,

73, 51.

- Coude Radial Velocities of  $\zeta$  Herculis*, C. D. Scarfe, H. Funakawa, P. A. Delaney & David J. Barlow, **77**, 126.  
*The Quadruple System HR 3337*, Gustav A. Bakos, **79**, 119.  
*Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.  
*The Orbit of the Visual Binary KPR 114 (HR 8629)*, R. F. Griffin & W. D. Heintz, **81**, 3.  
*The Spectroscopic Orbit of HD 53299A*, C. D. Scarfe, R. Griffin & R. Griffin, **82**, 128.  
*The Binary Star 70 Ophiuchi Revisited*, W. D. Heintz, **82**, 140.  
*Binary Star Observer's Group Formed*, Ronald C. Tanquay, B, **1**, 1, 8.

### Stars: Carbon

- Distribution of Giant M and Carbon Stars in a Region in Puppis ( $\ell = 246^\circ$ ,  $b = -0.6^\circ$ )*, Kenneth A. Kirton & M. Pim FitzGerald, **68**, 154.  
*A Search for Polyatomic Molecular Lines in the Photographic Spectral Region of Carbon Stars*, Y. Fujita, **71**, 115.  
*The Carbon and Related Stars*, Robert D. McClure, **79**, 277.  
*Red Stars*, Mel Rankin, NN, **82**, 32.

### Stars: Chemically Peculiar

- Actinide Astronomy*, Charles R. Cowley, **71**, 108.  
*The Hydrogen-Line Strength Variations in the Ap Star HD 184905*, John B. Rice, **72**, 194.  
*Analyse D'Une Des Caracteristiques des Etoiles Ap: La Depression a 5200 Å*, Gilles Joncas, **74**, 261.

### Stars: Chromospheres

- The Semiregular Variable 57 Pegasi*, J. Tremko & G. A. Bakos, **80**, 230.  
*A First Observation of the Chromospheric Spectrum of the  $\zeta$  Aurigae Binary HR 6902*, R. E. M. Griffin, **82**, 49.

### Stars: Circumstellar Matter

- A Study of the Velocity Pattern of Maser Emission from Infrared Stars*, Sun Kwok, **70**, 49.  
*Star Dust, Mass Loss and the Late Stages of Stellar Evolution*, Sun Kwok, **74**, 216.  
*Interacting Binary Stars: Freaks or Rosetta Stone*, Mirek J. Plavec, **77**, 283.  
*The Semiregular Variable 57 Pegasi*, J. Tremko & G. A. Bakos, **80**, 230.

### Stars: Distances

- Cosmological Problems I. The Time Scale*, R. C. Roeder, **61**, 369.  
*CV Monocerotis — The Forgotten Cluster Cepheid*, David G. Turner, **72**, 248.  
*Recent Observations of HD 127617 — Bidelman's High-Latitude Be Star*, David G. Turner & Ronald W. Lyons, **74**, 12.  
*The Reddening of Beta Doradus*, David G. Turner, **74**, 64.  
*How Far Away Are the Hyades?*, Alan H. Batten, **75**, 152.  
*MK Spectral Classification in the Praesepe Lower Main*

- Sequence*, C. J. Corbally & R. F. Garrison, **77**, 28.  
*The Open Cluster Tombaugh 1 and Its Neighbouring Cepheid XZ Canis Majoris*, David G. Turner, **77**, 31.  
*On the Computation of Dynamical Parallaxes*, B. Cameron Reed, **78**, 83.  
*The Oblique Doppler Effect*, Jeremy B. Tatum, **79**, 302.  
*CASCA '92 Hyades Cluster Workshop*, David G. Turner, Robert F. Garrison & Stephen C. Morris, **88**, 303.

### Stars: Dwarfs

- An Iterative Solution for Stellar Space Densities*, B. Cameron Reed, **79**, 294.

### Stars: Early-Type

- The Near Ultraviolet Spectrum from a B Star*, Anne B. Underhill, **61**, 9.  
*The Interpretation of Stellar Spectra*, Anne B. Underhill, **62**, 331.  
*R. M. Petrie and the B-Star Program of the Dominion Astrophysical Observatory*, Jean K. Petrie, **64**, 163.  
*Distribution of O to B9 Stars and Dust in a Region in Puppis ( $\ell = 245^\circ$ ,  $b = -0.2^\circ$ )*, W. J. F. Wilson & M. Pim FitzGerald, **66**, 254.  
*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 268^\circ$ ,  $b = -0.3^\circ$ )*, John E. Stegman & M. Pim FitzGerald, **66**, 303.  
*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 277^\circ$ ,  $b = 0^\circ$ )*, John H. Moore & M. Pim FitzGerald, **67**, 291.  
*Spectral Lines in the Ultraviolet*, Anne B. Underhill, **71**, 123.  
*On the Origin of the OB Runaway Stars*, Peter J. T. Leonard, **84**, 216.  
*Distribution of B8-A0 Stars and Interstellar Reddening Towards NGC 5927*, B. Cameron Reed & Christopher J. Thomas, **86**, 248.  
*What is Normal Among the A-Type Stars?*, Grant M. Hill, **88**, 359.  
*The Progenitors of Classical Cepheid Variables*, David G. Turner, **90**, 82.

### Stars: Emission-Line, Be

- Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.  
*Recent Observations of HD 127617 — Bidelman's High-Latitude Be Star*, David G. Turner & Ronald W. Lyons, **74**, 12.  
*Five Suspected  $\beta$  Cephei Stars Revisited*, John R. Percy, **78**, 241.  
*Gamma Cassiopeiae and Be Stars*, M. L. Whitehorne, **83**, 277.  
*Off the Deep End: Two Amateurs Try the Real Thing*, Mary Lou Whitehorne & Chris Brown, B, **1**, 2, 4.  
*Spectroscopic Observations of the Binary Be Star Phi Persei*, M. L. Whitehorne, **86**, 178.

### Stars: Evolution

- The Chemical Evolution of the Galaxy*, A. G. W. Cameron & J. W. Truran, **65**, 1.  
*Origin of the Chemical Elements and Stellar Evolution*, R. L. Sears, **68**, 1.

*Star Dust, Mass Loss and the Late Stages of Stellar Evolution*, Sun Kwok, **74**, 216.

*Molecular Clouds and Star-Forming Regions*, W. H. McCutcheon, **86**, 195.

*Évolution de L'Abondance Chimique de Surface des Étoiles Naines Blanches Froides de Type DA*, P. Bergeron, **86**, 309.

### Stars: Flare

*On the Velocity Variability of 5 Serpentis and o Aquilae*, C. D. Scarfe, **79**, 180.

### Stars: Formation

*Star Formation from Shock Waves*, Ian Halliday, **64**, 51.

*Molecular Clouds and Star-Forming Regions*, W. H. McCutcheon, **86**, 195.

### Stars: Fundamental Parameters

*Some Contributions of R. M. Petrie to the Study of Groups of Stars*, Helen Sawyer Hogg, **61**, 105.

*The Beta Cephei Stars*, John R. Percy, **61**, 117.

*New Measures of Stellar Diameters*, Ian Halliday, **62**, 197.

*UVB Observations of Miscellaneous Stars*, J. D. Fernie, **63**, 133.

*Comparison Between Spectral-Luminosity Classes on the Mount Wilson and Morgan-Keenan Systems of Classification*, M. Pim FitzGerald, **63**, 251.

*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 268^\circ$ ;  $b = -0.3^\circ$ )*, John E. Stegman & M. Pim FitzGerald, **66**, 303.

*Orbital and Physical Parameters of Double Stars: Proceedings of Colloquium No. 18 of the International Astronomical Union Held at Swarthmore College, Pennsylvania, USA, April 12-15, 1972*, W. D. Heintz, **67**, 49.

*Hertzsprung's Luminosity-Colour Relation for Visual Binaries*, W. S. Finsen & P. N. J. Wisse, **67**, 58.

*The Spectrographic Orbit of HD 193964*, Douglas P. Hube, **67**, 161.

*Spectrographic Observations of the Visual Binary Burnham 1163 During Periastron Passage*, J. Murray Fletcher, **67**, 255.

*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 277^\circ$ ;  $b = 0^\circ$ )*, John H. Moore & M. Pim FitzGerald, **67**, 291.

*The Orbit of the Am Spectroscopic Binary HD 82191*, John F. Heard & Roel Hurkens, **67**, 306.

*BD +47 781, A Spectroscopic Binary with H and K Emission*, M. Pim FitzGerald, **68**, 23.

*A Time of Minimum for HD 217312*, C. D. Scarfe & D. J. Barlow, **68**, 96.

*Radial Velocities of Stars with Moderately Broad-Lined Spectra*, D. P. Hube, **68**, 143.

*The Orbit and Nature of  $\theta^2$  Orionis A*, G. C. L. Aikman & B. A. Goldberg, **68**, 205.

*The Orbit of the Spectroscopic Binary HD 11291*, John F. Heard & Arno Krautter, **69**, 22.

*The Orbit of the Double-Line Spectroscopic Binary HD 153720*, John F. Heard & Roel J. Hurkens, **69**, 25.

*The Visual and Near-Infrared Spectra of Planetary-Nebulae Nuclei*, Lawrence H. Aller, **71**, 67.

*The System of VV Cephei Derived from an Analysis of the H $\alpha$  Line*, K. O. Wright, **71**, 152.

*New Observations of HD 218154*, Jim Thomson & C. T. Bolton, **71**, 259.

*La Magnitude d'un Groupe D'Étoiles*, Ronald Ouellette, NN, **72**, 18.

*The Spectroscopic Orbit of BD +29 3805*, R. F. Griffin, **73**, 266.

*A Redetermination of the Orbit of HD 192276*, Douglas P. Hube & Andrew Lowe, **74**, 342.

*The Spectroscopic Orbit of HD 7308*, R. F. Griffin, **74**, 348.

*The Spectroscopic Orbit of HD 131511*, Karl W. Kamper & Ronald W. Lyons, **75**, 56.

*History of U Coronae Borealis — A Sequel*, Gustav A. Bakos & Jozef Tremko, **75**, 124.

*The Masses of the Stars*, Alan H. Batten, **75**, 215.

*The Spectroscopic Orbit of HD 225292*, R. F. Griffin, **75**, 222.

*AO Camelopardalis*, E. F. Milone, D. H. Piggott & S. L. Morris, **76**, 90.

*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.

*Orbital Elements for the Double-Line Spectroscopic Binaries HD 104451 and HD 141458*, C. T. Bolton, Matthew Bates & Roel Hurkens, **77**, 18.

*MK Spectral Classification in the Praesepe Lower Main Sequence*, C. J. Corbally & R. F. Garrison, **77**, 28.

*A Spectroscopic Orbit For  $\nu$  Draconis*, R. F. Griffin, Hugh C. Harris & Robert D. McClure, **77**, 73.

*On the Need for a New Spectroscopic Standard for MK Spectral Type B0III*, David G. Turner & Ronald W. Lyons, **77**, 87.

*The Double-Lined Spectroscopic Binary HD 28475*, Douglas P. Hube, **77**, 142.

*Revised Orbital Elements for the Spectroscopic Binary HD 92000 (36 Leo Minoris)*, A. H. Batten, J. M. Fletcher & Robert D. McClure, **77**, 241.

*Spectral Classification of Southern-Hemisphere Mira Variables*, Richard Crowe, **78**, 103.

*The Spectroscopic Orbit of HR 1878*, R. F. Griffin, **78**, 151.

*Confirmation of the Decreased Pulsational Amplitude of Polaris*, Karl W. Kamper, Nancy Remage Evans & Ronald W. Lyons, **78**, 173.

*Preliminary Orbital Elements for the Am Binary HD 434*, Douglas P. Hube & Austin F. Gulliver, **79**, 49.

*The Spectroscopic Orbits of HD 44780 and 65 Geminorum*, R. F. Griffin, **80**, 91.

*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.

*Is the Distribution of Binary Mass Ratios Really Bimodal?*, C. D. Scarfe, **80**, 257.

*The Orbit of the Visual Binary KPR 114 (HR 8629)*, R. F. Griffin & W. D. Heintz, **81**, 3.

*Miscellaneous Photoelectric UBV Observations*, Sidney van den Bergh, **82**, 13.

*A First Observation of the Chromospheric Spectrum of the  $\zeta$  Aurigae Binary HR 6902*, R. E. M. Griffin, **82**, 49.

*The Spectroscopic Orbit of HD 53299A*, C. D. Scarfe, R. Griffin & R. Griffin, **82**, 128.

*The Binary Star 70 Ophiuchi Revisited*, W. D. Heintz, **82**, 140.  
*The Spectroscopic and Photometric Effects of Rotation in the A-Type Stars*, Richard O. Gray, **82**, 336.  
*A New Look at HD 93075*, Douglas P. Hube, **83**, 26.  
*Age Differences Between Globular Clusters*, Michael Bolte, **84**, 137.  
*A New Spectroscopic Orbit for Delta Capricorni*, A. H. Batten & J. M. Fletcher, **86**, 99, 269.  
*Distribution of B8-A0 Stars and Interstellar Reddening Towards NGC 5927*, B. Cameron Reed & Christopher J. Thomas, **86**, 248.  
*Spectroscopic Orbit Elements for the A-Type Binary HD 208509*, Douglas P. Hube & Alan H. Batten, **86**, 259.  
*Spectroscopic Orbital Elements for HD 51892*, Douglas P. Hube, **86**, 325.  
*Stellar Magnitudes and Photon Fluxes*, B. Cameron Reed, **87**, 123.  
*HR 9053: A Lightly Reddened G Supergiant*, Nancy Remage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.  
*CASCA '92 Hyades Cluster Workshop*, David G. Turner, Robert F. Garrison & Stephen C. Morris, **88**, 303.  
*An Improved Orbit for the Double-Lined Pleides Binary HD 23642*, R. F. Griffin, **89**, 53.  
*The Light Curve of V1765 Cygni: A Close Binary System with a Supergiant Companion*, John R. Percy & Najam Khaja, **89**, 91.  
*The Progenitors of Classical Cepheid Variables*, David G. Turner, **90**, 82.  
*Polaris Today*, Karl W. Kamper, **90**, 140.

## Stars: General

*Of Stars and the Galaxy*, Alan H. Batten, **61**, 241.  
*Exploring the Universe*, J. L. Climenhaga, **62**, 29.  
*On the Angular Momenta of Stars, Planets and Asteroids*, G. G. Fahlman & S. P. S. Anand, **63**, 36, 150.  
*UVB Observations of Miscellaneous Stars*, J. D. Fernie, **63**, 133.  
*Constellation Corner*, Dora Russell, NN, **64**, 7.  
*Kings and Stars*, Dora Russell, NN, **64**, 13.  
*Manger in the Sky*, Dora Russell, NN, **64**, 31.  
*I Never Count Sheep*, Dora Russell, NN, **65**, 3.  
*An Evaluation of Cameras for Photographing Stars*, Richard Berry, NN, **66**, 5.  
*The Star of Bethlehem*, H. C. King, NN, **68**, 25.  
*UBVRI Observations of Miscellaneous Stars*, J. D. Fernie, **70**, 77.  
*The Christmas Sky*, Dora Russell, NN, **71**, 74.  
*The Four Brightest Stars*, Peter Broughton, NN, **73**, 22.  
*Scorpius or Scorpio?*, Anthony A. Barrett, NN, **73**, 44.  
*Whence Energy?*, Roy L. Bishop, **74**, 163.  
*The Face of the Sky: Perseus*, Dora Russell, NN, **77**, 80.  
*The Star of Bethlehem: A Postscript*, Anthony A. Barrett, NN, **78**, 23.  
*Astrophotography — A First Attempt*, Mary Anne Harrington, NN, **78**, 87.  
*The First Celestial Navigators*, Ron Walsh, NN, **79**, 47.  
*Miscellaneous Photoelectric UBV Observations*, Sidney van den Bergh, **82**, 13.  
*A Saskatchewan Name in the Skies*, Richard D. Vanderberg,

**B**, **1**, **4**, **8**.

*Progress in CCD Photometry*, Peter B. Stetson, **86**, 71.  
*Escher's Stars*, Martin Beech, **86**, 169.  
*Properties of the Brightest Stars*, **88**, 172.  
*Letter to the Editor*, Richard S. Hill, **89**, 264.  
*Conjunctions of a Totally Eclipsed Moon With Bright Stars and Planets*, Joe Rao, **90**, 216.

## Stars: Hertzsprung-Russell (HR) Diagram

*Hertzsprung's Luminosity-Colour Relation for Visual Binaries*, W. S. Finsen & P. N. J. Wisse, **67**, 58.  
*Rotating Variable Stars*, John R. Percy, **72**, 162.  
*Below the Tip: New Controversies in Globular Cluster Research*, James E. Hesser, **76**, 69.  
*The Spectroscopic and Photometric Effects of Rotation in the A-Type Stars*, Richard O. Gray, **82**, 336.  
*Demonstrating Cluster Main-Sequence Fitting to Best Advantage*, David G. Turner, **88**, 176.

## Stars: Horizontal Branch

*Below the Tip: New Controversies in Globular Cluster Research*, James E. Hesser, **76**, 69.

## Stars: Individual

### BY CONSTELLATION NAME:

#### Z Andromedae

*Variable Star Notes*, Margaret W. Mayall, **63**, 321.  
*The Symbiotic Star — Z Andromedae*, Janet Akyüz Mattei, **72**, 61.

#### R Andromedae

*Notes on the Behaviour of SS Cygni and U Geminorum During 1977, and Some Light Curves from AAVSO Report 38/39*, Janet Akyüz Mattei, **72**, 301.

#### AN Andromedae

*A Photometric Study of the Am Binary System AN Andromedae*, Jozef Tremko & Gustav A. Bakos, **72**, 263.

#### XZ Andromedae

*XZ Andromedae — A Short Period Variable*, Marvin E. Baldwin, **67**, 325.

#### 47 Andromedae

*A Study of the Spectroscopic Binary 47 Andromedae*, J. Murray Fletcher, **61**, 56.

#### R Aquarii

*R Aquarii — A Unique Long-Period Variable*, Janet Akyüz Mattei, **73**, 173.

#### n Aquilae

*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.

#### o Aquilae

*On the Velocity Variability of 5 Serpentis and o Aquilae*, C. D. Scarfe, **79**, 180.

#### R Aquilae

*Are Long-Period Variables Really Pulsating?*, George Wallerstein, **71**, 298.

#### U Aquilae

*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**,

- 240.
- V101 Aquilae  
*Nova Aquilae (V101 Aql); Nova Scuti (V373 Sct); Nova Cygni (V1500 Cyg)*, Janet Akyüz Mattei, **69**, 319.
- V342 Aquilae  
*The Eclipsing Binary Star — V342 Aquilae*, Marvin E. Baldwin, **73**, 320.
- ε Aurigae  
*Two Interesting Variable Stars*, Zdenko Saroch, NN, **76**, 23.
- ζ Aurigae  
*The Zeta Aurigae Stars*, K. O. Wright, **62**, 67.  
*Two Interesting Variable Stars*, Zdenko Saroch, NN, **76**, 23.
- ε Boötis  
*Esoteric Fact Number X Plus?*, NN, **74**, 94.
- AO Camelopardalis  
*AO Camelopardalis*, E. F. Milone, D. H. Piggott & S. L. Morris, **76**, 90.
- RU Camelopardalis  
*Observations of RU Camelopardalis*, J. D. Fernie, **62**, 214.
- Z Camelopardalis  
*Variable Star Notes*, Margaret W. Mayall, **65**, 191.
- v Cancri  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- 15 Cancri  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- U Canis Majoris  
*U Canis Majoris*, Margaret W. Mayall, **64**, 383.
- δ Capricorni  
*A New Spectroscopic Orbit for Delta Capricorni*, A. H. Batten & J. M. Fletcher, **86**, 99, 269.
- AG Carinae  
*Variable Star Notes*, Margaret W. Mayall, **63**, 221.
- γ Cassiopeiae  
*Gamma Cassiopeiae and Be Stars*, M. L. Whitehorne, **83**, 277.
- AR Cassiopeiae  
*Flamsteed's 3 Cas = AR Cas + SAO 35386*, R. P. Broughton, **73**, 381.
- SS Cassiopeiae  
*Notes on the Behaviour of SS Cygni and U Geminorum During 1977, and Some Light Curves from AAVSO Report 38/39*, Janet Akyüz Mattei, **72**, 301.
- ST Cassiopeiae  
*A Search for Polyatomic Molecular Lines in the Photographic Spectral Region of Carbon Stars*, Y. Fujita, **71**, 115.
- SU Cassiopeiae  
*Space Reddenings for Six Cepheid Variables*, David G. Turner, **78**, 229.  
*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.
- 3 Cassiopeiae  
*Flamsteed's 3 Cas = AR Cas + SAO 35386*, R. P. Broughton, **73**, 381.
- δ Cephei  
*Getting Started in Variables*, David H. Levy, NN, **75**, 69.  
*Finding Cepheid Maxima by Means of a Least-Squares Cubic*, J. Michael Roney & Robert G. McCallum, **77**, 231.
- NY Cephei  
*A Progress Report on NY Cephei*, C. D. Scarfe, **73**, 258.
- U Cephei  
*U Cephei and Its Outbursts in 1969 and 1974*, Gustav A. Bakos & Jozef Tremko, **71**, 234.
- EM Cephei  
*The Eclipsing Binary EM Cephei*, Gustav A. Bakos & Jozef Tremko, **69**, 307.  
*Variations of the Light Curve of the Eclipsing Binary EM Cephei*, Jozef Tremko & Gustav A. Bakos, **74**, 321.
- VV Cephei  
*The System of VV Cephei Derived from an Analysis of the H $\alpha$  Line*, K. O. Wright, **71**, 152.
- ZZ Ceti  
*Les Variables de Type ZZ Ceti*, P. Lacombe & G. Fontaine, **74**, 147.
- 39 Ceti  
*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.
- β Corona Borealis  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- R Corona Borealis  
*From Recent Newsletters — Variable Stars*, NN, **65**, 15.  
*Variable Star Notes*, Janet Akyüz Mattei, **69**, 261.  
*The Recent Activities of R Corona Borealis and SU Tauri*, Janet Akyüz Mattei, **70**, 327.  
*Nova Serpentis 1978 and the Minimum of R Corona Borealis During 1978*, Janet Akyüz Mattei, **73**, 50.
- S Corona Borealis  
*Are Long-Period Variables Really Pulsating?*, George Wallerstein, **71**, 298.
- U Coronae Borealis  
*History of U Coronae Borealis — A Sequel*, Gustav A. Bakos & Jozef Tremko, **75**, 124.
- FM Comae  
*Another Look at the Delta Scuti Star FM Comae*, Jeff Bax, William H. Wehlau & Steve Sharpe, **89**, 245.
- X Cygni  
*The Cepheid Variable X Cygni*, Mike Wesolowski, NN, **74**, 72.
- P Cygni  
*P Cygni and Its Cluster*, Walter A. Feibelman, **89**, 3.  
*Update on P Cygni and Its Cluster*, **90**, 58.
- CI Cygni  
*The Symbiotic Star — CI Cygni*, Janet Akyüz Mattei, **70**, 325.
- SS Cygni  
*Notes on U Geminorum-Type Variables During 1966*, Margaret W. Mayall, **61**, 155.  
*Notes on U Geminorum-Type Variables During 1967*, Margaret W. Mayall, **62**, 141.

- Notes on U Geminorum-Type Variables During 1968*, Margaret W. Mayall, **63**, 173.
- Notes on U Geminorum and Z Camelopardalis Type Variables During 1969*, Margaret W. Mayall, **64**, 205.
- Notes on U Geminorum and Z Camelopardalis Variables During 1970*, Margaret W. Mayall, **65**, 141.
- Notes on U Geminorum and Z Camelopardalis Type Variables During 1971*, Margaret W. Mayall, **66**, 179.
- Notes on U Geminorum and Z Camelopardalis Type Variables During 1972*, Margaret W. Mayall, **67**, 157.
- Notes on U Geminorum and Z Camelopardalis Type Variables During 1973*, Janet Akyüz Mattei, **68**, 169.
- Notes on U Geminorum and Z Camelopardalis Variables During 1974*, Janet Akyüz Mattei, **69**, 149.
- Notes on U Geminorum and Z Camelopardalis Type Variables During 1975*, Janet Akyüz Mattei, **70**, 209.
- Notes on U Geminorum and Z Camelopardalis Type Variables During 1976*, Janet Akyüz Mattei, **71**, 343.
- Notes on the Behaviour of SS Cygni and U Geminorum During 1977, and Some Light Curves from AAVSO Report 38/39*, Janet Akyüz Mattei, **72**, 301.
- Optical Behaviour of SS Cygni in 1978 and 1979*, Janet Akyüz Mattei, **74**, 317.
- SU Cygni  
*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.
- A Newly Discovered Planetary Nebula Near SU Cyg*, **88**, 171.
- More About SU Cygni*, **88**, 275.
- XZ Cygni  
*A Short Period Variable with Changing Period*, Margaret W. Mayall, **65**, 307.
- V492 Cygni  
*The Galactic Cluster Byurakan 2*, David L. DuPuy & Walter Zukauskas, **70**, 169.
- V1500 Cygni  
*Nova Aquilae (V101 Aql); Nova Scuti (V373 Sct); Nova Cygni (V1500 Cyg)*, Janet Akyüz Mattei, **69**, 319.
- V1765 Cygni  
*The Light Curve of V1765 Cygni: A Close Binary System with a Supergiant Companion*, John R. Percy & Najam Khaja, **89**, 91.
- V1668 Cygni  
*V1668 Cygni (Nova Cygni 1978)*, Janet Akyüz Mattei, **74**, 185.
- $\beta$  Doradus  
*The Reddening of Beta Doradus*, David G. Turner, **74**, 64.
- S Doradus  
*The Brightest Star that Shines*, Peter Jedicke, **74**, 88.
- v Draconis  
*A Spectroscopic Orbit For v Draconis*, R. F. Griffin, Hugh C. Harris & Robert D. McClure, **77**, 73.
- 71 Draconis  
*The Spectrographic Orbit of HD 193964*, Douglas P. Hube, **67**, 161.
- $\epsilon$  Geminorum  
*Daytime and Twilight Observation*, Lucien J. Kemble, NN, **70**, 69.
- $\zeta$  Geminorum  
*Space Reddenings for Six Cepheid Variables*, David G. Turner, **78**, 229.
- U Geminorum  
*U Geminorum*, Margaret W. Mayall, **65**, 247.
- Notes on the Behaviour of SS Cygni and U Geminorum During 1977, and Some Light Curves from AAVSO Report 38/39*, Janet Akyüz Mattei, **72**, 301.
- 65 Geminorum  
*The Spectroscopic Orbits of HD 44780 and 65 Geminorum*, R. F. Griffin, **80**, 91.
- $\zeta$  Herculis  
*Coudé Radial Velocities of  $\zeta$  Herculis*, C. D. Scarfe, H. Funakawa, P. A. Delaney & David J. Barlow, **77**, 126.
- AK Lacertae  
*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.
- DD Lacertae  
*Studies of 12 (DD) Lacertae*, John F. Heard, Roel J. Hurkens, John R. Percy & Mario Porco, **70**, 213.
- HK Lacertae  
*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.
- 12 Lacertae  
*Studies of 12 (DD) Lacertae*, John F. Heard, Roel J. Hurkens, John R. Percy & Mario Porco, **70**, 213.
- 36 Leo Minoris  
*Revised Orbital Elements for the Spectroscopic Binary HD 92000 (36 Leo Minoris)*, A. H. Batten, J. M. Fletcher & Robert D. McClure, **77**, 241.
- 44 Leonis  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- 45 Leonis  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- $\beta$  Lyrae  
*Interacting Binary Stars: Freaks or Rosetta Stone*, Mirek J. Plavec, **77**, 283.
- S Lyrae  
*Variable Star Notes*, Margaret W. Mayall, **64**, 327.
- CV Monocerotis  
*CV Monocerotis — The Forgotten Cluster Cepheid*, David G. Turner, **72**, 248.
- $\theta$ 1 Orionis A  
*Visual Observations of  $\theta$ 1 Orionis A*, Marvin E. Baldwin & Janet A. Mattei, **71**, 475.
- $\theta$ <sup>2</sup> Orionis A  
*The Orbit and Nature of  $\theta$ <sup>2</sup> Orionis A*, G. C. L. Aikman & B. A. Goldberg, **68**, 205.
- $\psi$  Orionis  
*Light Variations in  $\psi$  Orionis*, John R. Percy, **63**, 233.
- U Orionis  
*Are Long-Period Variables Really Pulsating?*, George Wallerstein, **71**, 298.
- 70 Ophiuchi  
*The Binary Star 70 Ophiuchi Revisited*, W. D. Heintz, **82**, 140.
- RV Pegasi  
*RV Pegasi*, Janet Akyüz Mattei, **67**, 269.

- 57 Pegasi  
*The Semiregular Variable 57 Pegasi*, J. Tremko & G. A. Bakos, **80**, 230.
- $\phi$  Persei  
*Spectroscopic Observations of the Binary Be Star Phi Persei*, M. L. Whitehorne, **86**, 178.
- AW Persei  
*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.
- LX Persei  
*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.  
*A Note on Two RS Canum Venaticorum Stars: LX Persei and SZ Piscium*, John R. Percy, **79**, 113.
- SZ Piscium  
*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.  
*A Note on Two RS Canum Venaticorum Stars: LX Persei and SZ Piscium*, John R. Percy, **79**, 113.
- 33 Piscium  
*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.
- BB Sagittarii  
*Space Reddenings for Six Cepheid Variables*, David G. Turner, **78**, 229.
- RY Sagittarii  
*The R Coronae Borealis Stars*, Martin G. Connors, NN, **65**, 27.  
*RY Sagittarii*, Margaret W. Mayall, **66**, 233.
- VX Sagittarii  
*Variable Star Notes*, Margaret W. Mayall, **64**, 263.
- V725 Sagittarii  
*The Unique Variable V725 Sagittarii*, Serge Demers, **67**, 19.
- V1017 Sagittarii  
*Variable Star Notes*, Janet Akyüz Mattei, **68**, 221.
- WZ Sagittae  
*The 1978 Outburst of the Cataclysmic Variable WZ Sagittae*, Janet Akyüz Mattei, **74**, 53.
- v Scorpil  
*A Bright Quadruple Star*, Leo Enwright, NN, **77**, 47.
- R Scuti  
*From Recent Newsletters — Variable Stars*, NN, **65**, 15.
- V373 Scuti  
*Nova Aquilae (V101 Aql); Nova Scuti (V373 Sct); Nova Cygni (V1500 Cyg)*, Janet Akyüz Mattei, **69**, 319.
- W Serpentis  
*Interacting Binary Stars: Freaks or Rosetta Stone*, Mirek J. Plavec, **77**, 283.
- 5 Serpentis  
*On the Velocity Variability of 5 Serpentis and o Aquilae*, C. D. Scarfe, **79**, 180.
- SU Tauri  
*The R Coronae Borealis Stars*, Martin G. Connors, NN, **65**, 27.  
*Variable Star Notes*, Margaret W. Mayall, **66**, 325.  
*Variable Star Notes*, Janet Akyüz Mattei, **68**, 221.  
*The Recent Activities of R Corona Borealis and SU Tauri*, Janet Akyüz Mattei, **70**, 327.
- SZ Tauri  
*Space Reddenings for Six Cepheid Variables*, David G. Turner, **78**, 229.
- 125 Tauri  
*Grazing Occultations*, David W. Dunham, **63**, 143.
- R Ursae Majoris  
*R Ursae Majoris*, Rick Huziak & Mike Wesolowski, NN, **74**, 43.
- 53 Ursae Majoris  
*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.
- $\alpha$  Ursae Minoris  
*Space Reddenings for Six Cepheid Variables*, David G. Turner, **78**, 229.
- S Vulpeculae  
*A Newly-Discovered Open Cluster Surrounding the 681/2-Day Cepheid S Vulpeculae*, David G. Turner, **79**, 175.  
*Photometry of the S Vul Cluster*, David G. Turner, Peter J. T. Leonard & Barry F. Madore, **80**, 166.
- BW Vulpeculae  
*The Rate of Change of the Period of BW Vulpeculae*, John R. Percy, **65**, 217.
- NQ Vulpeculae  
*NQ Vulpeculae (Nova Vulpeculae 1976)*, Janet Akyüz Mattei, **72**, 178.
- SV Vulpeculae  
*Space Reddenings for Six Cepheid Variables*, David G. Turner, **78**, 229.
- BY HENRY DRAPER NUMBER:
- HD 434  
*Preliminary Orbital Elements for the Am Binary HD 434*, Douglas P. Hube & Austin F. Gulliver, **79**, 49.
- HD 7308  
*The Spectroscopic Orbit of HD 7308*, R. F. Griffin, **74**, 348.
- HD 8374  
*A Study of the Spectroscopic Binary 47 Andromedae*, J. Murray Fletcher, **61**, 56.
- HD 8556  
*Spectrographic Observations of the Visual Binary Burnham 1163 During Periastron Passage*, J. Murray Fletcher, **67**, 255.
- HD 11291  
*The Orbit of the Spectroscopic Binary HD 11291*, John F. Heard & Arno Krautter, **69**, 22.
- HD 23642  
*An Improved Orbit for the Double-Lined Pleides Binary HD 23642*, R. F. Griffin, **89**, 53.  
*HD 23642 Found To Be an Eclipsing Binary*, **90**, 58.
- HD 25354  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- HD 28475  
*The Double-Lined Spectroscopic Binary HD 28475*, Douglas P. Hube, **77**, 142.
- HD 30466  
*A Photoelectric Study of Magnetic Variable Stars*,

- Edward W. Burke, Jr., William W. Rolland & William R. Boy **64**, 353.  
HD 33162  
*An Appeal for Observational Assistance*, K. E. Chilton, NN, **69**, 16.
- HD 34626  
*Five Suspected  $\beta$  Cephei Stars Revisited*, John R. Percy, **78**, 241.
- HD 35715  
*Light Variations in  $\psi$  Orionis*, John R. Percy, **63**, 233.
- HD 43818  
*Five Suspected  $\beta$  Cephei Stars Revisited*, John R. Percy, **78**, 241.
- HD 43837  
*Five Suspected  $\beta$  Cephei Stars Revisited*, John R. Percy, **78**, 241.
- HD 44780  
*The Spectroscopic Orbits of HD 44780 and 65 Geminorum*, R. F. Griffin, **80**, 91.
- HD 48434  
*On the Need for a New Spectroscopic Standard for MK Spectral Type B0III*, David G. Turner & Ronald W. Lyons, **77**, 87.
- HD 51892  
*Spectroscopic Orbital Elements for HD 51892*, Douglas P. Hube, **86**, 325.
- HD 53299A  
*The Spectroscopic Orbit of HD 53299A*, C. D. Scarfe, R. Griffin & R. Griffin, **82**, 128.
- HD 68351  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- HD 71150-1  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy **64**, 353.
- HD 77350  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- HD 77694  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy **64**, 353.
- HD 82191  
*The Orbit of the Am Spectroscopic Binary HD 82191*, John F. Heard & Roel Hurkens, **67**, 306.
- HD 90254  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- HD 90569  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- HD 91948  
*The Spectroscopic Orbits of the Binary Systems HD 91948 and HD 176318*, Walter L. Gorza, **65**, 277.
- HD 92000  
*Revised Orbital Elements for the Spectroscopic Binary HD 92000 (36 Leo Minoris)*, A. H. Batten, J. M. Fletcher & Robert D. McClure, **77**, 241.
- HD 93075  
*A New Look at HD 93075*, Douglas P. Hube, **83**, 26.
- HD 104451  
*Orbital Elements for the Double-Line Spectroscopic Binaries HD 104451 and HD 141458*, C. T. Bolton, Matthew Bates & Roel Hurkins, **77**, 18.
- HD 127617  
*Recent Observations of HD 127617 — Bidelman's High-Latitude Be Star*, David G. Turner & Ronald W. Lyons, **74**, 12.
- HD 131511  
*The Spectroscopic Orbit of HD 131511*, Karl W. Kamper & Ronald W. Lyons, **75**, 56.
- HD 134793  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- HD 135576  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- HD 135596  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy **64**, 353.
- HD 137613  
*A Search for Polyatomic Molecular Lines in the Photographic Spectral Region of Carbon Stars*, Y. Fujita, **71**, 115.
- HD 137909  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- HD 141458  
*Orbital Elements for the Double-Line Spectroscopic Binaries HD 104451 and HD 141458*, C. T. Bolton, Matthew Bates & Roel Hurkins, **77**, 18.
- HD 153720  
*The Orbit of the Double-Line Spectroscopic Binary HD 153720*, John F. Heard & Roel J. Hurkens, **69**, 25.
- HD 161701  
*The Spectrographic Orbit of H. D. 161701*, Douglas P. Hube, **63**, 229.
- HD 165341  
*The Binary Star 70 Ophiuchi Revisited*, W. D. Heintz, **82**, 140.
- HD 176318  
*HD 176318: A Second Epoch Spectrographic Orbit*, Douglas P. Hube, **64**, 98.  
*The Spectroscopic Orbits of the Binary Systems HD 91948 and HD 176318*, Walter L. Gorza, **65**, 277.
- HD 182040  
*A Search for Polyatomic Molecular Lines in the Photographic Spectral Region of Carbon Stars*, Y. Fujita, **71**, 115.
- HD 184905  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.



R. Boy **64**, 353.  
*The Hydrogen-Line Strength Variations in the Ap Star HD 184905*, John B. Rice, **72**, 194.  
HD 190467  
*Light Variations of HD 190467*, John R. Percy, **64**, 218.  
*Five Suspected  $\beta$  Cephei Stars Revisited*, John R. Percy, **78**, 241.  
HD 192276  
*A Redetermination of the Orbit of HD 192276*, Douglas P. Hube & Andrew Lowe, **74**, 342.  
HD 193857  
*HD 193857: A Metallic-Line Binary*, Douglas P. Hube, **72**, 319.  
HD 193964  
*The Spectrographic Orbit of HD 193964*, Douglas P. Hube, **67**, 161.  
HD 208392  
*The Eclipsing Binary EM Cephei*, Gustav A. Bakos & Jozef Tremko, **69**, 307.  
*Variations of the Light Curve of the Eclipsing Binary EM Cephei*, Jozef Tremko & Gustav A. Bakos, **74**, 321.  
HD 208509  
*Spectroscopic Orbit Elements for the A-Type Binary HD 208509*, Douglas P. Hube & Alan H. Batten, **86**, 259.  
HD 214810  
*Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.  
HD 214850  
*Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.  
HD 217312  
*Spectrographic Orbit and Photometric Observations of HD 217312 in the III Cephei Association*, J. F. Heard & J. D. Fernie, **62**, 99.  
*A Time of Minimum for HD 217312*, C. D. Scarfe & D. J. Barlow, **68**, 96.  
HD 218154  
*New Observations of HD 218154*, Jim Thomson & C. T. Bolton, **71**, 259.  
HD 225292  
*The Spectroscopic Orbit of HD 225292*, R. F. Griffin, **75**, 222.

BY NAME:

Alcor

*Mizar and Alcor A Two Ring Circus*, R. L. Linkletter, NN, **73**, 51.

Alcyone

*Double Graze, June 1970*, Dora Russell, NN, **64**, 26.

Babcock 14

*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy **64**, 353.

Babcock 17

*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy **64**, 353.

Babcock 70

*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William

R. Boy **64**, 353.

Burnham 1163

*Spectrographic Observations of the Visual Binary Burnham 1163 During Periastron Passage*, J. Murray Fletcher, **67**, 255.

Cygnus X

*A Radio Photograph of the Cygnus-X Region*, J. E. Winzer & J. A. Roberts, **65**, 100.

LMC X-3

*Searching for Black Holes*, David Crampton, J. B. Hutchings & A. P. Cowley, **77**, 103.

Mizar

*Mizar and Alcor A Two Ring Circus*, R. L. Linkletter, NN, **73**, 51.

Nova Aquilae 1970

*Novae*, NN, **64**, 11.

Nova Aquilae 1975

*Nova Aquilae (V101 Aql); Nova Scuti (V373 Sct); Nova Cygni (V1500 Cyg)*, Janet Akyüz Mattei, **69**, 319.

Nova Cassiopeiae 1993

*CCD Photometry of Nova Cassiopeiae 1993 With a Small Telescope*, Kerry Kijewski, Brian E. Martin, Tyler Foster & Douglas P. Hube, **89**, 43.

Nova Cygni 1975

*The Pre-Discovery Observation of Nova Cygni 1975*, A. T. Blackwell, P. A. Feldman, A. A. Griffin & I. Halliday, **69**, 241.

*Nova Aquilae (V101 Aql); Nova Scuti (V373 Sct); Nova Cygni (V1500 Cyg)*, Janet Akyüz Mattei, **69**, 319.

Nova Cygni 1978 (V1668)

*V1668 Cygni (Nova Cygni 1978)*, Janet Akyüz Mattei, **74**, 185.

Nova Delphini 1967

*Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Ramage & Vicki Watt, **61**, 339.

*Nova Delphini 1967*, Margaret W. Mayall, **61**, 392.

*The Novae of 1967-1968*, Margaret W. Mayall, **62**, 201.

*Novae*, NN, **64**, 11.

*Nova Delphini 1967*, Herbert A. Lange, **64**, 311.

Nova Ophiuchi 1985

*Outburst of RS Ophiuchi*, Warren Morrison, NN, **79**, 69.

Nova Persei 1974

*Variable Star Notes*, Janet Akyüz Mattei, **69**, 261.

Nova Scuti 1975

*Nova Aquilae (V101 Aql); Nova Scuti (V373 Sct); Nova Cygni (V1500 Cyg)*, Janet Akyüz Mattei, **69**, 319.

Nova Serpentis 1970

*Nova Serpentis*, NN, **64**, 6.

*Novae*, NN, **64**, 11.

Nova Serpentis 1978

*Nova Serpentis 1978 and the Minimum of R Corona Borealis During 1978*, Janet Akyüz Mattei, **73**, 50.

Nova Tauri 1974

*Variable Star Notes*, Janet Akyüz Mattei, **68**, 221.

Nova Vulpeculae 1968

*The Novae of 1967-1968*, Margaret W. Mayall, **62**, 201.

*The Spectrum of Nova Vulpeculae (1968)*, John F. Heard, **63**, 45.

*Novae*, NN, **64**, 11.

Nova Vulpeculae 1976

*NQ Vulpeculae (Nova Vulpeculae 1976)*, Janet Akyüz Mattei, **72**, 178.

Polaris

*A New Use for Polaris*, NN, **66**, 21.

*Confirmation of the Decreased Pulsational Amplitude of Polaris*, Karl W. Kamper, Nancy Remage Evans & Ronald W. Lyons, **78**, 173.

*The Puzzling and Perplexing Problem of the Pulsation of Polaris*, Jaymie M. Matthews, **88**, 273.

*Polaris Today*, Karl W. Kamper, **90**, 140.

Procyon

*A Mystery of Procyon*, Bassel A. Reyahi, B, **1**, 4, 2.

Sanduleak -69° 202

*Sanduleak -69° 202, Supernova 1987A and the Beginning of Neutrino Astronomy*, H. R. A. Jones, **85**, 235.

Sirius

*The Double Star Sirius*, George R. Ball, NN, **73**, 53.

*Sirius B: Une Naine Blanche Encore Meconnue*, F. Wesemael & G. Fontaine, **76**, 35.

Spica

*Eyewitness Report: Spica Snuffed for 53 Minutes*, Mark Zalcik, NN, **81**, 48.

Taygete

*Double Graze, June 1970*, Dora Russell, NN, **64**, 26.

BY OTHER DESIGNATION:

090031 T Pyxidis

*T Pyxidis*, Margaret W. Mayall, **61**, 349.

ADS 16173

*Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.

C 3747

*The Lunar Eclipse — A Different View*, Richard Linkletter, NN, **77**, 24.

BD +29° 3805

*The Spectroscopic Orbit of BD +29 3805*, R. F. Griffin, **73**, 266.

BD +47° 781

*BD +47 781, A Spectroscopic Binary with H and K Emission*, M. Pim FitzGerald, **68**, 23.

HDE 232999

*Five Suspected  $\beta$  Cephei Stars Revisited*, John R. Percy, **78**, 241.

HR 3

*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.

HR 373

*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.

HR 1878

*The Spectroscopic Orbit of HR 1878*, R. F. Griffin, **78**, 151.

HR 3337

*The Quadruple System HR 3337*, Gustav A. Bakos, **79**, 119.

HR 4374

*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.

HR 4483

*Further Observations of HR 4483, A Small-Amplitude*

*Red Variable Star*, Raymond R. Thompson, **90**, 206.  
HR 4665

*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.

HR 6902

*A First Observation of the Chromospheric Spectrum of the  $\zeta$  Aurigae Binary HR 6902*, R. E. M. Griffin, **82**, 49.

HR 7275

*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.

HR 8629

*Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.  
*The Orbit of the Visual Binary KPR 114 (HR 8629)*, R. F. Griffin & W. D. Heintz, **81**, 3.

HR 8703

*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.

HR 8448

*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.

HR 8575

*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.

HR 9053

*HR 9053: A Lightly Reddened G Supergiant*, Nancy Remage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.

KPR 114

*Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.  
*The Orbit of the Visual Binary KPR 114 (HR 8629)*, R. F. Griffin & W. D. Heintz, **81**, 3.

SAO 85009

*Occultation of SAO 85009 by Pallas on May 29, 1978*, John R. Percy, NN, **72**, 10.

SAO 35386

*Flamsteed's 3 Cas = AR Cas + SAO 35386*, R. P. Broughton, **73**, 381.

ZC 1436

*Grazing Occultations*, David W. Dunham, **63**, 143.

**Stars: Interiors**

*Origin of the Chemical Elements and Stellar Evolution*, R. L. Sears, **68**, 1.

*The Solar-Neutrino Puzzle*, D. Y. Kim & S. I. H. Naqvi, **73**, 203.

**Stars: Kinematics**

*Subdwarfs*, Per H. Anderson, **65**, 119.

*Some Properties of the Population of Known Spectroscopic Binary Stars*, J. M. Fletcher & A. H. Batten, **84**, 44.

*The Globular Clusters of the Disk and Halo*, Robert Zinn, **84**, 89.

*How Metal-Weak Can a Disk Star Be?*, Heather L. Morrison, **84**, 107.

*The Local Space Density of Thick Disk Stars*, P. C. Dawson, **84**, 175.

*Kinematic Bias in Proper Motion Surveys*, P. C. Dawson, R. G. Johnson & A. J. Rorabeck, **89**, 201.

## Stars: Late-Type

- Variable Star Notes*, Margaret W. Mayall, **64**, 263, 327.  
*U Canis Majoris*, Margaret W. Mayall, **64**, 383.  
*Abundances of Heavy Elements in Late-Type Stars*, Gustav A. Bakos, **65**, 222, 303.  
*RV Pegasi*, Janet Akyüz Mattei, **67**, 269.  
*Distribution of Giant M and Carbon Stars in a Region in Puppis ( $\ell = 246^\circ$ ,  $b = -0.6^\circ$ )*, Kenneth A. Kirton & M. Pim FitzGerald, **68**, 154.  
*Are Long-Period Variables Really Pulsating?*, George Wallerstein, **71**, 298.  
*R Ursae Majoris*, Rick Huziak & Mike Wesolowski, NN, **74**, 43.  
*A Spectroscopic Orbit For  $\nu$  Draconis*, R. F. Griffin, Hugh C. Harris & Robert D. McClure, **77**, 73.  
*Spectral Classification of Southern-Hemisphere Mira Variables*, Richard Crowe, **78**, 103.

## Stars: Luminosity Function, Mass Function

- A Re-Examination of Mass-Luminosity Relations from Binary-Star Data*, S. C. Griffiths, R. B. Hicks & E. F. Milone, **82**, 1.  
*White Dwarf Stars and the Age of the Galactic Disk*, M. A. Wood, **84**, 150.

## Stars: Magnetic Fields

- A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.  
*Naked-Eye Variable Stars*, John R. Percy, **64**, 373.

## Stars: Mass-Loss

- The Chemical Evolution of the Galaxy*, A. G. W. Cameron & J. W. Truran, **65**, 1.  
*Star Dust, Mass Loss and the Late Stages of Stellar Evolution*, Sun Kwok, **74**, 216.  
*Interacting Binary Stars: Freaks or Rosetta Stone*, Mirek J. Plavec, **77**, 283.  
*Astrophysical and Biological Constraints on Radiopanspermia*, Jeff Secker, Paul S. Wesson & James R. Lepock, **90**, 184.

## Stars: Neutron

- Gravity and its Astronomical Implications: An Elementary Guide*, Ray Skinner, **68**, 173, 237, 307.

## Stars: Novae, Cataclysmic Variables

- AAVSO Nova Search Report*, George Diedrich, **61**, 104.  
*Notes on U Geminorum-Type Variables During 1966*, Margaret W. Mayall, **61**, 155.  
*AAVSO Nova Search Report*, George Diedrich, **61**, 210.  
*Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Remage & Vicki Watt, **61**, 339.  
*T Pyxidis*, Margaret W. Mayall, **61**, 349.  
*AAVSO Nova Search Report*, George Diedrich, **61**, 352.  
*Nova Delphini 1967*, Margaret W. Mayall, **61**, 392.  
*AAVSO Nova Search Report*, George Diedrich, **62**, 48, 96.

- Notes on U Geminorum-Type Variables During 1967*, Margaret W. Mayall, **62**, 141.  
*AAVSO Nova Search Report*, George Diedrich, **62**, 143.  
*The Novae of 1967-1968*, Margaret W. Mayall, **62**, 201.  
*AAVSO Nova Search Report*, George Diedrich, **62**, 204, 267, 396.  
*The Spectrum of Nova Vulpeculae (1968)*, John F. Heard, **63**, 45.  
*AAVSO Nova Search Report*, George Diedrich, **63**, 56, 104.  
*Notes on U Geminorum-Type Variables During 1968*, Margaret W. Mayall, **63**, 173.  
*AAVSO Nova Search Report*, George Diedrich, **63**, 174, 223, 273, 324.  
*AAVSO Nova Search Report*, George Diedrich, **64**, 120.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1969*, Margaret W. Mayall, **64**, 205.  
*Nova Delphini 1967*, Herbert A. Lange, **64**, 311.  
*Nova Serpentis*, NN, **64**, 6.  
*Novae*, NN, **64**, 11.  
*Notes on U Geminorum and Z Camelopardalis Variables During 1970*, Margaret W. Mayall, **65**, 141.  
*Variable Star Notes*, Margaret W. Mayall, **65**, 191.  
*U Geminorum*, Margaret W. Mayall, **65**, 247.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1971*, Margaret W. Mayall, **66**, 179.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1972*, Margaret W. Mayall, **67**, 157.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1973*, Janet Akyüz Mattei, **68**, 169.  
*Variable Star Notes*, Janet Akyüz Mattei, **68**, 221.  
*AAVSO Nova Search Committee*, Carmine V. Borzelli, Jr., **68**, 337.  
*Notes on U Geminorum and Z Camelopardalis Variables During 1974*, Janet Akyüz Mattei, **69**, 149.  
*The Pre-Discovery Observation of Nova Cygni 1975*, A. T. Blackwell, P. A. Feldman, A. A. Griffin & I. Halliday, **69**, 241.  
*Variable Star Notes*, Janet Akyüz Mattei, **69**, 261.  
*Nova Aquilae (V101 Aql); Nova Scuti (V373 Sct); Nova Cygni (V1500 Cyg)*, Janet Akyüz Mattei, **69**, 319.  
*Comet and Nova Search*, NN, **69**, 47.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1975*, Janet Akyüz Mattei, **70**, 209.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1976*, Janet Akyüz Mattei, **71**, 343.  
*NQ Vulpeculae (Nova Vulpeculae 1976)*, Janet Akyüz Mattei, **72**, 178.  
*Notes on the Behaviour of SS Cygni and U Geminorum During 1977, and Some Light Curves from AAVSO Report 38/39*, Janet Akyüz Mattei, **72**, 301.  
*Nova Serpentis 1978 and the Minimum of R Corona Borealis During 1978*, Janet Akyüz Mattei, **73**, 50.  
*Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.  
*“Problicom” — Threshold to Discovery*, Barry Matthews, NN, **73**, 10.  
*The 1978 Outburst of the Cataclysmic Variable WZ Sagittae*, Janet Akyüz Mattei, **74**, 53.  
*V1668 Cygni (Nova Cygni 1978)*, Janet Akyüz Mattei, **74**, 185.  
*Optical Behaviour of SS Cygni in 1978 and 1979*, Janet

Akyüz Mattei, **74**, 317.

*Novae and the Extragalactic Distance Scale*, Sidney van den Bergh, **75**, 169.

*The Star of Bethlehem: Some Historical Considerations*, Anthony A. Barrett, NN, **77**, 82.

*Outburst of RS Ophiuchi*, Warren Morrison, NN, **79**, 69.

*CCD Photometry of Nova Cassiopeiae 1993 With a Small Telescope*, Kerry Kijewski, Brian E. Martin, Tyler Foster & Douglas P. Hube, **89**, 43.

## Stars: Oscillations (including pulsations)

*The Beta Cephei Stars*, John R. Percy, **61**, 117.

*Lectures on Variable Stars*, R. F. Christy, **63**, 299.

*Lectures on Variable Stars*, R. F. Christy, **64**, 8.

*Studies of 12 (DD) Lacertae*, John F. Heard, Roel J. Hurkens, John R. Percy & Mario Porco, **70**, 213.

*Are Long-Period Variables Really Pulsating?*, George Wallerstein, **71**, 298.

*Les Variables de Type ZZ Ceti*, P. Lacombe & G. Fontaine, **74**, 147.

*Confirmation of the Decreased Pulsational Amplitude of Polaris*, Karl W. Kamper, Nancy Ramage Evans & Ronald W. Lyons, **78**, 173.

*The Puzzling and Perplexing Problem of the Pulsation of Polaris*, Jaymie M. Matthews, **88**, 273.

*Another Look at the Delta Scuti Star FM Comae*, Jeff Bax, William H. Wehlau & Steve Sharpe, **89**, 245.

*Polaris Today*, Karl W. Kamper, **90**, 140.

## Stars: Planetary Systems

*More Planets Found!*, **B**, 6, 3, 2.

## Stars: Pulsars: General

*Projects for Amateur Radio Astronomers*, Grote Reber, NNB, **84**, 10.

*Gravitational Wave Astronomy*, Eric Poisson, **87**, 234.

*1993 Nobel Prize in Physics Award to Hulse and Taylor*, F. I. Cooperstock, **88**, 85.

## Stars: Pulsars: Individual

### P1829-10

*A Pulsar's Perplexing Periodic Pulses*, Zdenko A. Saroch, **B**, 2, 2, 7.

### PSR 1913 + 166

*The Christmas Star as a Supernova in Aquila*, A. J. Morehouse, **72**, 65.

## Stars: Rotation

*Introductory Remarks on Spectroscopic Parameters*, Helmut A. Abt, **67**, 73.

*Rotating Variable Stars*, John R. Percy, **72**, 162.

*The Spectroscopic and Photometric Effects of Rotation in the A-Type Stars*, Richard O. Gray, **82**, 336.

*On the Evolving Role of Computational Astrophysics*, Paul Charbonneau, **86**, 31.

## Stars: Statistics

*Understanding Spectroscopic Binaries*, Alan H. Batten, **62**, 344.

*A Statistical Study of Binary Stars*, Wulff D. Heintz, **63**,

275.

*R. M. Petrie and the B-Star Program of the Dominion Astrophysical Observatory*, Jean K. Petrie, **64**, 163.

*Distribution of O to B9 Stars and Dust in a Region in Puppis ( $\ell = 245^\circ$ ;  $b = -0.2^\circ$ )*, W. J. F. Wilson & M. Pim FitzGerald, **66**, 254.

*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 268^\circ$ ;  $b = -0.3^\circ$ )*, John E. Stegman & M. Pim FitzGerald, **66**, 303.

*Introductory Remarks on Spectroscopic Parameters*, Helmut A. Abt, **67**, 73.

*Les Etoiles Doubles Faibles*, P. Couteau, **67**, 77.

*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 277^\circ$ ;  $b = 0^\circ$ )*, John H. Moore & M. Pim FitzGerald, **67**, 291.

*Distribution of Giant M and Carbon Stars in a Region in Puppis ( $\ell = 246^\circ$ ;  $b = -0.6^\circ$ )*, Kenneth A. Kirton & M. Pim FitzGerald, **68**, 154.

*The Carbon and Related Stars*, Robert D. McClure, **79**, 277.

*An Iterative Solution for Stellar Space Densities*, B. Cameron Reed, **79**, 294.

*Is the Distribution of Binary Mass Ratios Really Bimodal?*, C. D. Scarfe, **80**, 257.

*The Frequency of Multiple Stellar Systems*, A. H. Batten & J. M. Fletcher, **83**, 289.

*Some Properties of the Population of Known Spectroscopic Binary Stars*, J. M. Fletcher & A. H. Batten, **84**, 44.

*Distribution of B8-A0 Stars and Interstellar Reddening Towards NGC 5927*, B. Cameron Reed & Christopher J. Thomas, **86**, 248.

*The Visibility of Galactic Supernovae*, P. C. Dawson & R. G. Johnson, **88**, 369.

## Stars: Subdwarfs

*Subdwarfs*, Per H. Anderson, **65**, 119.

## Stars: Supergiants

*Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.

*HR 9053: A Lightly Reddened G Supergiant*, Nancy Ramage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.

## Stars: Supernovae: General

*Supernovae*, Ian Halliday, **62**, 119.

*The Chemical Evolution of the Galaxy*, A. G. W. Cameron & J. W. Truran, **65**, 1.

*Gravity and its Astronomical Implications: An Elementary Guide*, Ray Skinner, **68**, 173, 237, 307.

*The Christmas Star as a Supernova in Aquila*, A. J. Morehouse, **72**, 65.

*Two Photos and Comparison Chart of Supernova in M100*, NN, **73**, 49, 80.

*Supernova in M100 (NGC 4321) in Coma Visually Discovered by Gus Johnson, Maryland*, NN, **73**, 50.

*That's Wild!*, Jack Newton, NN, **76**, 38.

*Supernovae and Their Remnants*, Sidney van den Bergh, **82**, 179.

*Neutrino Detectors as Early Warning Devices for Supernovae*, Robert Jedicke, **83**, 116.

*Inside Black Holes*, G. H. George, **84**, 28, 283.  
*On the Origin of the OB Runaway Stars*, Peter J. T. Leonard, **84**, 216.  
*Sanduleak -69° 202, Supernova 1987A and the Beginning of Neutrino Astronomy*, H. R. A. Jones, **85**, 235.  
*The Visibility of Galactic Supernovae*, P. C. Dawson & R. G. Johnson, **88**, 369.

## Stars: Supernovae: Individual

### BY IAU DESIGNATION:

#### SN1970g

*UBV Observations of Supernova 1970g in NGC 5457*, John E. Winzer, **68**, 36.

#### SN1987a

*Supernova 1987A*, **81**, 143.  
*Supernova 1987A*, **82**, 33.  
*Editorial*, Ian G. McGregor, NN, **81**, 34.  
*Supernova Celebration!*, Ian G. McGregor, NN, **81**, 34.  
*Sanduleak -69° 202, Supernova 1987A and the Beginning of Neutrino Astronomy*, H. R. A. Jones, **85**, 235.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. II. The Night of the Supernova*, Barry F. Madore, Robert Jedzrejewski & Jaymie M. Matthews, **90**, 69.

#### SN1989b

*Supernova 1989B*, Murray Paulsen, NNB, **83**, 44.

#### SN1993i

*The Visual Discovery of Supernova 1993I*, Robert Evans, B, **3**, 4, 3.

#### SN1995f

*SN1995F — An All-Canadian Supernova*, **89**, 66.

#### SN1996d

*Supernova in NGC 1614*, **90**, 167.

## Stars: Variables: Cepheids

*Observations of RU Camelopardalis*, J. D. Fernie, **62**, 214.  
*Lectures on Variable Stars*, R. F. Christy, **64**, 8.  
*Naked-Eye Variable Stars*, John R. Percy, **64**, 373.  
*Variable Stars in Globular Clusters*, Helen Sawyer Hogg, **67**, 8.  
*The Galactic Cluster Byurakan 2*, David L. DuPuy & Walter Zukauskas, **70**, 169.  
*The Bright Variable Stars in Messier 5*, Christine M. Coultts Clement & Helen Sawyer Hogg, **71**, 281.  
*CV Monocerotis — The Forgotten Cluster Cepheid*, David G. Turner, **72**, 248.  
*The Reddening of Beta Doradus*, David G. Turner, **74**, 64.  
*The Cepheid Variable X Cygni*, Mike Wesolowski, NN, **74**, 72.  
*Getting Started in Variables*, David H. Levy, NN, **75**, 69.  
*The Open Cluster Tombaugh 1 and Its Neighbouring Cepheid XZ Canis Majoris*, David G. Turner, **77**, 31.  
*Finding Cepheid Maxima by Means of a Least-Squares Cubic*, J. Michael Roney & Robert G. McCallum, **77**, 231.  
*Confirmation of the Decreased Pulsational Amplitude of Polaris*, Karl W. Kamper, Nancy Remage Evans & Ronald W. Lyons, **78**, 173.

*Space Reddenings for Six Cepheid Variables*, David G. Turner, **78**, 229.  
*Astronomers Celebrate Cepheid Bicentenary*, John R. Percy, NN, **78**, 76.  
*A Newly-Discovered Open Cluster Surrounding the 68½-Day Cepheid S Vulpeculae*, David G. Turner, **79**, 175.  
*Photometry of the S Vul Cluster*, David G. Turner, Peter J. T. Leonard & Barry F. Madore, **80**, 166.  
*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.  
*Properties of the Brightest Stars*, **88**, 172.  
*The Puzzling and Perplexing Problem of the Pulsation of Polaris*, Jaymie M. Matthews, **88**, 273.  
*More About SU Cygni*, **88**, 275.  
*The Progenitors of Classical Cepheid Variables*, David G. Turner, **90**, 82.  
*Polaris Today*, Karl W. Kamper, **90**, 141.

## Stars: Variables: Delta Scuti

*Naked-Eye Variable Stars*, John R. Percy, **64**, 373.  
*A Search for Delta Scuti Stars*, John R. Percy, **67**, 139.  
*Another Look at the Delta Scuti Star FM Comae*, Jeff Bax, William H. Wehlau & Steve Sharpe, **89**, 245.

## Stars: Variables: General (see also Variable Star Notes)

*Lectures on Variable Stars*, R. F. Christy, **63**, 299.  
*Notes on Peculiarities in AAVSO Light Curves During 1970*, Margaret W. Mayall, **65**, 93.  
*RASC Variable Star Observing Program*, Rick Lavery, NN, **65**, 4.  
*Stellar Photoelectric Photometry for Amateurs*, E. P. Majden, NN, **66**, 1.  
*General Assembly at Winnipeg, June 28-July 1, 1974: RASC-AAVSO Joint Meeting*, Marie Fidler, NN, **68**, 21.  
*The AAVSO and Margaret Mayall*, Helen Sawyer Hogg, NN, **69**, 1.  
*On Variable Stars*, Steve O'Connor, NN, **71**, 4.  
*Variable Star Observing Part I*, C. E. Spratt, NN, **72**, 72.  
*Variable Star Observing Part II*, C. E. Spratt, NN, **72**, 85.  
*News from a New Member in Japan*, Lloyd Higgs, NN, **73**, 28.  
*AAVSO Receives Assistance Grants*, NN, **74**, 23.  
*AAVSO Meeting*, Clifford Cunningham, NN, **75**, 45.  
*Japanese Variable Star Observations in 1982*, Osao Shigehisa, NN, **77**, 85.  
*The Study of Variable Stars Using Small Telescopes*, John R. Percy, NN, **79**, 4.  
*Miscellaneous Photoelectric UBV Observations*, Sidney van den Bergh, **82**, 13.  
*Recent Publications from the AAVSO*, NN, **82**, 37.

## Stars: Variables: Other (see also Variable Star Notes)

*The Beta Cephei Stars*, John R. Percy, **61**, 117.  
*Variable Star Notes*, Margaret W. Mayall, **63**, 221.  
*Variable Star Notes*, Margaret W. Mayall, **64**, 263, 327.  
*A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy,

64, 353.

- Naked-Eye Variable Stars*, John R. Percy, **64**, 373.  
*U Canis Majoris*, Margaret W. Mayall, **64**, 383.  
*The Rate of Change of the Period of BW Vulpeculae*, John R. Percy, **65**, 217.  
*A Short Period Variable with Changing Period*, Margaret W. Mayall, **65**, 307.  
*From Recent Newsletters — Variable Stars*, NN, **65**, 15.  
*Variable Stars in Globular Clusters*, Helen Sawyer Hogg, **67**, 8.  
*The Unique Variable V725 Sagittarii*, Serge Demers, **67**, 19.  
*RV Pegasi*, Janet Akyüz Mattei, **67**, 269.  
*An Appeal for Observational Assistance*, K. E. Chilton, NN, **69**, 16.  
*Studies of 12 (DD) Lacertae*, John F. Heard, Roel J. Hurkens, John R. Percy & Mario Porco, **70**, 213.  
*The Ellipticities of the RR Lyrae Star Systems in Globular Clusters*, K. A. Innanen & Geraldine O'Brien, **71**, 47.  
*Are Long-Period Variables Really Pulsating?*, George Wallerstein, **71**, 298.  
*Rotating Variable Stars*, John R. Percy, **72**, 162.  
*Notes on the Behaviour of SS Cygni and U Geminorum During 1977, and Some Light Curves from AAVSO Report 38/39*, Janet Akyüz Mattei, **72**, 301.  
*Les Variables de Type ZZ Ceti*, P. Lacombe & G. Fontaine, **74**, 147.  
*R Ursae Majoris*, Rick Huziak & Mike Wesolowski, NN, **74**, 43.  
*Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.  
*Spectral Classification of Southern-Hemisphere Mira Variables*, Richard Crowe, **78**, 103.  
*Five Suspected  $\beta$  Cephei Stars Revisited*, John R. Percy, **78**, 241.  
*A Note on Two RS Canum Venaticorum Stars: LX Persei and SZ Piscium*, John R. Percy, **79**, 113.  
*On the Velocity Variability of 5 Serpentis and  $\alpha$  Aquilae*, C. D. Scarfe, **79**, 180.  
*Further Observations of HR 4483, A Small-Amplitude Red Variable Star*, Raymond R. Thompson, **90**, 206.

### Stars: White Dwarfs

- Les Variables de Type ZZ Ceti*, P. Lacombe & G. Fontaine, **74**, 147.  
*Sirius B: Une Naine Blanche Encore Meconnue*, F. Wesemael & G. Fontaine, **76**, 35.  
*Supernovae and Their Remnants*, Sidney van den Bergh, **82**, 179.  
*White Dwarf Stars and the Age of the Galactic Disk*, M. A. Wood, **84**, 150.  
*Évolution de L'Abondance Chimique de Surface des Étoiles Naines Blanches Froides de Type DA*, P. Bergeron, **86**, 309.

### Stars: Wolf-Rayet

- Supernovae and Their Remnants*, Sidney van den Bergh, **82**, 179.  
*Interpretation of Wolf-Rayet Stars: C. S. Beals' Contribution*, Randall C. Brooks & Mary Lou Whitehorne, **86**, 228.

### Sun: Activity

- Spectra of Different Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 152.  
*A Comparative Study of the Different Aspects of Impulsive and Gradual Rise and Fall Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 284.  
*Variations in the Profiles of the Gradual Rise and Fall Bursts for June 11-15 and a High Resolution Study for the Major Event of June 15, 1972*, A. E. Covington, **68**, 225.  
*Solar Activity Associated with an Unusual Series of Microwave Flux Decreases*, C. Sawyer, **70**, 228.  
*Étude Des Champs Magnétiques "Sans Courant" Dans la Couronne Solaire Active*, Jean-Réne Roy, **70**, 292.  
*The 2800-MHz Solar Radio Minimum of February 1976*, Arthur E. Covington, **73**, 1.  
*A Nearby Star*, K. Tapping, **88**, 1, 170.

### Sun: Chromosphere

- A Suggested Eclipse Experiment*, Brian K. Dennison & Gary L. Seago, NN, **66**, 4.  
*Structures Chromospheriques Fines dans la Couronne Solaire*, J.-René Roy, **71**, 373.  
*A Nearby Star*, K. Tapping, **88**, 1, 170.

### Sun: Corona

- What a Gorgeous Eclipse!*, Tom Tothill, NN, **64**, 11.  
*Polarization of the Solar Corona*, W. A. Feibelman, **66**, 109.  
*Étude Des Champs Magnétiques "Sans Courant" Dans la Couronne Solaire Active*, Jean-Réne Roy, **70**, 292.  
*Structures Chromospheriques Fines dans la Couronne Solaire*, J.-René Roy, **71**, 373.  
*Astrophotographie: Réseau d'Équidensités Photographiques*, Andre Paul, NN, **74**, 82.  
*Astrophotography: Photographic Generation of Equidensity Contours*, Andre Paul, NN, **74**, 85.  
*A Nearby Star*, K. Tapping, **88**, 1, 170.

### Sun: Eclipses

- International Solar Flash-Spectrum Experiment*, **64**, 201.  
*An Observation of the Total Solar Eclipse of March 7, 1970*, T. Cairns, P. Moffat, J. Newton, J. Scatcliff & J. Steffensen, **64**, 242.  
*What a Gorgeous Eclipse!*, Tom Tothill, NN, **64**, 11.  
*A Different Story*, Cyril G. Clark, NN, **64**, 12.  
*Letter to the Editor*, Gordon K. Falconer, NN, **64**, 15.  
*Total Solar Eclipse: July 10, 1972*, Si Brown, NN, **64**, 22.  
*July 1972 Total Solar Eclipse*, Si Brown, NN, **64**, 29.  
*Predictions of Local Circumstances Across Canada of the Total Solar Eclipse of July 10, 1972*, V. Gaizauskas, L. W. Avery & F. D. Manning, **65**, 107.  
*Recording the Eclipse Shadow Bands on Magnetic Tape*, Frank M. Susel, **65**, 273.  
*The 1972 Total Solar Eclipse*, NN, **65**, 4.  
*Total Solar Eclipse, July 1972*, NN, **65**, 5.  
*The 1972 Solar Eclipse*, J. Findlay, NN, **65**, 13.  
*Polarization of the Solar Corona*, W. A. Feibelman, **66**, 109.  
*Some Contributions of Canadian Astronomers to Solar Eclipse Expeditions*, J. E. Kennedy, **66**, 261.

- Cress Solar Eclipse Expedition*, R. W. Nicholls, **66**, 278.  
*Total Solar Eclipses of Great Duration*, Edward S. Light, **66**, 295.  
*A Suggested Eclipse Experiment*, Brian K. Dennison & Gary L. Segó, NN, **66**, 4.  
*More Eclipse News*, NN, **66**, 11.  
*Observations Planned Near the Edges of the Path of the July 10, 1972 Total Solar Eclipse in Canada*, David W. Dunham, NN, **66**, 16.  
*The Eclipse of July 10th*, NN, **66**, 21.  
*Murphy Strikes Again*, K. Chilton, NN, **66**, 23.  
*A Fantastic Total Eclipse*, Marie Litchinsky, NN, **66**, 25.  
*The Toronto Centre Eclipse Expedition 8 to 11 July, 1972*, B. R. Chou, NN, **66**, 26.  
*Eclipse-72 Over the Northwest Territories*, John Scatliff, NN, **66**, 28.  
*Solar Eclipse July 10 from Prince Edward Island*, B. F. Shinn, NN, **66**, 29.  
*Goondiwindi Recalls 1922*, J. F. Heard, NN, **66**, 30.  
*"A Glimpse Down the Road to Heaven"*, Mary C. Wynes, NN, **66**, 30.  
*The Thix and the Fox, Mayan Solar Eclipse Intervals*, Charles H. Smiley, **67**, 175.  
*Calgary Centre Eclipse Expedition*, NN, **67**, 25.  
*Eclipse Book*, NN, **68**, 32.  
*A Note on the Periodicity of Eclipses*, Charles H. Smiley, **69**, 133.  
*The Partial Solar Eclipse of Dec. 13, 1974*, John Findlay, NN, **69**, 18.  
*Solar Eclipse — S. E. Australia — 23 October 1976: October Average Weather Summary Along the Eclipse Path*, D. J. Linforth, NN, **69**, 43.  
*Total Solar Eclipses in Canada: 1963-2024 AD*, V. Gaizauskas & L. W. Avery, **70**, 135.  
*Predictions for the 1979 Solar Eclipse*, Fred Espenak, **72**, 149.  
*The Total Solar Eclipse of 1979, February 26*, William T. Peters, NN, **72**, 25.  
*Eye Injuries and the Solar Eclipse*, B. Ralph Chou, NN, **72**, 66.  
*A Solar Flash Spectrum for 26th February, 1979*, Christopher Corbally, **73**, 263.  
*Earned Acknowledgment*, NN, **73**, 30.  
*Eclipse From Above*, Roy L. Bishop, NN, **73**, 31.  
*The February 26, 1979 Eclipse*, David H. Levy, NN, **73**, 33.  
*Eclipse de Soleil du 26 Fevrier 1979*, Damien Lemay, NN, **73**, 34.  
*The Total Solar Eclipse*, David A. Roger, NN, **73**, 36.  
*Totality 1979 — Looking Back*, NN, **73**, 37.  
*Photometric Experiment*, Merlyn Mebly, NN, **73**, 39.  
*Flash Spectrum Experiment*, Mike Wesolowski, NN, **73**, 40.  
*Manitoba College Leads Eclipse Expedition*, Harlan Creighton, NN, **73**, 58.  
*Transair Passengers See Eclipse*, NN, **73**, 59.  
*The Total Solar Eclipse of February 16, 1980*, Sidney van den Bergh, **74**, 238.  
*Calgary Centre Members Experience Successful Eclipse Expedition*, Don W. Hladiuk, NN, **74**, 31.  
*The 1979 February 26 Solar Eclipse on Short Wave*, Ken Tapping & Chip Wiest, NN, **74**, 40.  
*Totality at Voi*, Randy Attwood, NN, **74**, 69.  
*Astrophotographie: Réseau d'Équidensités Photographiques*, Andre Paul, NN, **74**, 82.  
*Astrophotography: Photographic Generation of Equidensity Contours*, Andre Paul, NN, **74**, 85.  
*Chasing the Monsoon Eclipse*, Jay Anderson, NN, **75**, 30.  
*Eclipse Fever Strikes Again*, NN, **75**, 48.  
*Early Days of Astronomy at Toronto — Part IV The Total Solar Eclipse of August 7, 1869*, Helen Sawyer Hogg, **76**, 235.  
*Past and Future Total Solar Eclipses Over Some Canadian Cities*, Andrew Lowe, **76**, 309.  
*Local Circumstances in Java During the Total Solar Eclipse of 1983*, Fred Espenak, **77**, 5.  
*Gerhana Matahari 1983*, Michael Watson, NN, **77**, 77.  
*Predictions for the Annular Solar Eclipse of 1984*, Fred Espenak, **78**, 10.  
*The 1984 Toronto Centre Solar Eclipse Expedition*, Michael Watson, NN, **78**, 7.  
*Circumstances of the Solar Eclipse of May 30*, Gunther Moller, NN, **78**, 25.  
*A Dazzling Diamond Necklace*, Michael Watson, NN, **78**, 50.  
*The May Eclipse — A Toronto Perspective*, Ian McGregor, NN, **78**, 52.  
*Astronomical Observations in the Anglo-Saxon Chronicle*, Owen Brazell, NN, **78**, 56.  
*Some Observations on Observing Eclipses*, Mike Wesolowski, NN, **78**, 68.  
*Totality in Hula*, Randy Attwood, NN, **79**, 26.  
*November's Marine Eclipse*, Andrew Lowe, NN, **79**, 60.  
*North America's Partial Solar Eclipse October 3, 1986*, NN, **80**, 24.  
*Predicting October's Eclipse*, Gunther Moller, NN, **80**, 24.  
*Predictions for the Total Solar Eclipse of 1988*, Fred Espenak, **81**, 44.  
*Predictions for the Total Solar Eclipse of 1988*, Fred Espenak, **81**, 227.  
*Two Eclipses Visible from a Geostationary Weather Satellite*, Jay Anderson, **81**, 83.  
*Eclipse Weather: The March 1988 Total Solar Eclipse*, Jay Anderson, NN, **81**, 18.  
*1988 Solar Eclipse Expedition*, Randy Attwood, NN, **81**, 60.  
*Solar Eclipse '88*, David Hurd, NN, **81**, 72.  
*Finland Prepares for Solar Eclipse 1990*, NN, **82**, 10.  
*The "Eclipse Comets"*, Christopher E. Spratt, NN, **82**, 19.  
*Totality in the Philippines*, Randy Attwood, NN, **82**, 77.  
*Predictions for the Total Solar Eclipse of 1991*, Fred Espenak, **83**, 157.  
*The 1991 RASC Solar Eclipse Expedition*, Michael Watson, NNB, **83**, 22.  
*Observing the March Solar Eclipse*, Daryl Rybotycki, NNB, **83**, 45.  
*Toronto Centre Eclipse Expeditions*, Ralph Chou & Jennifer Owen, NNB, **83**, 93.  
*Chasing the 1991 Solar Eclipse*, Ian G. McGregor, NNB, **84**, 58.  
*Seven Months and Counting: The RASC 1991 Solar Eclipse Expedition*, Michael S. F. Watson, NNB, **84**,

82.

- The Mazatlan Zenith Curse?*, Alister Ling, B, **1**, 1, 2.  
*The RASC Eclipse Expedition*, Dan Falk, B, **1**, 5, 4.  
*An Encounter With Totality*, Bruce W. Shier, B, **1**, 5, 4.  
*Trip to Totality: One Person's Experience*, Ulrich Haasdyk, B, **1**, 5, 6.  
*Historical and Modern Total Solar Eclipses*, J. E. Kennedy, B, **2**, 2, 4.  
*Eclipse Chasing Without the Chase .. Sort Of*, Steve Edberg, B, **2**, 3, 4.  
*The Great Eclipse: A Video Documentary*, Suzanne Moreau, B, **2**, 5, 6.  
*Lessons from a Partial Solar Eclipse*, Todd Lohvinenko, B, **3**, 4, 4.  
*May 10, 1994 Annular Solar Eclipse*, **88**, 146.  
*Eclipse Hysteria*, **88**, 275.  
*Calgary Eclipse Trip*, Don Hladiuk, B, **4**, 1, 3.  
*Photographing the May 10<sup>th</sup> Solar Eclipse*, Michael S. F. Watson, B, **4**, 2, 3.  
*Solar Eclipse a Ringing Success*, B, **4**, 3, 3.  
*Murphy's Annular Eclipse*, B, **4**, 4, 4.  
*Le Mauvais Oeil de L'Eclipse du 10 Mai*, Marc A. Gélinas, B, **4**, 4, 4.  
*The Ten Most Common Annular Eclipse Misconceptions*, B, **4**, 4, 7.  
*Composite Eclipse Photo*, Ian Grant, B, **4**, 5, 5.  
*Eclipse Damage: A Burning Issue*, Alister Ling, B, **5**, 1, 8.  
*Dolores Claiborne's Eclipse*, David M. F. Chapman, **90**, 235.  
*Excerpts From Simon Newcomb's Diary of 1860*, J. E. Kennedy & S. D. Hanson, **90**, 292.

## Sun: Flares

- Some Studies on Geomagnetic Crochet-Associated Solar Optical Flares and Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 66.  
*Spectra of Different Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 152.  
*A Comparative Study of the Different Aspects of Impulsive and Gradual Rise and Fall Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 284.  
*White Light Observations of a Solar Flare, July 4, 1974*, Robert Pike, **68**, 330.  
*Comments on the Radio Burst for the White Light Flare of July 4, 1974*, A. E. Covington, **68**, 332.  
*The Solar Microwave "Negative Burst" Associated with the Dark Fan of 21 May 1967*, C. Sawyer, **70**, 127.  
*Solar Activity Associated with an Unusual Series of Microwave Flux Decreases*, C. Sawyer, **70**, 228.  
*Comments on the Duration-Peak-Flux-Density Diagram for 2800 MHz Solar Bursts*, Edward W. Cliver, **75**, 15.  
*Photographing the Sun in Hydrogen Alpha*, John Hicks, NN, **76**, 18.  
*Solar Flare Prognostication by the Empirical-Statistical Approach*, Philip A. Stahl, **77**, 203.  
*Wolf — A Computer Expert System for Sunspot Classification and Solar-Flare Prediction*, Richard W. Miller, **82**, 191.

## Sun: General

- The Optical Projection of Solar and Lunar Objects on a*

- Modified Translucent Viewing Screen*, Donovan H. Fallows, **62**, 259.  
*The Uneasy Equilibrium of Our Physical Universe*, C. S. Beals, **64**, 339.  
*Solar Telescope at Winnipeg to Mark Quincentennial of Copernicus' Birth*, B. Franklyn Shinn, **67**, 88.  
*Site Survey for a Solar Observatory in Canada*, V. Gaizauskas & A. Kryworuchko, **67**, 217.  
*Graphical Method of Finding the Azimuth of Sunrise and Sunset*, LeRoy A. Woodward, NN, **70**, 7.  
*Whence Energy?*, Roy L. Bishop, **74**, 163.  
*A Solar Calendar*, Gilles Ménard, **74**, 242, 370.  
*International Solar Polar Mission (ISPM)*, NN, **74**, 100.  
*Volcanic Ash Gets in Your Eyes*, Chris Rutkowski, NN, **74**, 52.  
*Protective Filters for Solar Observation*, B. Ralph Chou, **75**, 36.  
*The Habitable Sun: One of William Herschel's Stranger Ideas*, Steven Kawaler & J. Veverka, **75**, 46.  
*A Visit to Kitt Peak's Solar Telescopes*, David H. Levy, NN, **76**, 71.  
*High Contrast Solar H-Alpha Photography for Amateur Astronomers*, John Hicks, NN, **76**, 67.  
*A Visit to Kitt Peak's Solar Telescopes*, David H. Levy, NN, **76**, 71.  
*The Spectrum of the Solar Disk*, R. F. Garrison & Linda Zimmerman, **77**, 78.  
*Sol-Lunar Forces and Tides*, B. Franklyn Shinn, NN, **77**, 11.  
*A Mysterious Object*, Todd Lohvinenko, NN, **77**, 19.  
*A Shifting Date Line: An Interesting Feature of the Solar Calendar*, Mohammad Ilyas, **80**, 134.  
*The Tropical Year and Solar Calendar*, Kazimierz M. Borkowski, **85**, 121.  
*Palms Up!*, Todd Lohvinenko, B, **1**, 5, 2.  
*Du RLR à la MSF: 75 Ans D'Horizons Mouvants*, René Racine, **87**, 357.  
*Rising and Setting Phenomena*, Terence Hicks, **88**, 86.  
*Photographic Determination of the Eccentricity of the Earth's Orbit*, Richard L. Nugent, **89**, 217.  
*Sunrises and Sunsets*, David G. Turner, **90**, 1.  
*Letter to the Editor: Sunrises and Sunsets*, Ian Halliday, **90**, 161.  
*Letter to the Editor: Sunrises and Sunsets*, Norman Davidson, **90**, 162.  
*Letter to the Editor: Sunrises and Sunsets*, Walter Feibelman, **90**, 163.  
*Letter to the Editor: Sunrises and Sunsets*, Roy H. Garstang, **90**, 341.  
*Letter to the Editor: Sunrises and Sunsets*, Norman Davidson, **90**, 343.

## Sun: Interior

- The Solar-Neutrino Puzzle*, D. Y. Kim & S. I. H. Naqvi, **73**, 203.  
*Neutrons, the Sun and Canada*, Peter Jedicke, **81**, 221.  
*Towards a Solution to the Solar Neutrino Problem*, **89**, 31.

## Sun: Magnetic Fields

- Étude Des Champs Magnétiques "Sans Courant" Dans la Couronne Solaire Active*, Jean-Réne Roy, **70**, 292.



*A Nearby Star*, K. Tapping, **88**, 1, 170.

### **Sun: Oscillations**

*Science on Ice: Astronomy at the South Pole*, Steven Morris, NN, **79**, 25.

### **Sun: Particle Emission**

*The Solar-Neutrino Puzzle*, D. Y. Kim & S. I. H. Naqvi, **73**, 203.

*Neutrons, the Sun and Canada*, Peter Jedicke, **81**, 221.

*Towards a Solution to the Solar Neutrino Problem*, **89**, 31.

### **Sun: Photosphere**

*A Nearby Star*, K. Tapping, **88**, 1, 170.

### **Sun: Prominences**

*Classification of Solar Prominences for Sun-Spot Cycle No. 19 (1955-1964)*, Donald H. Menzel & F. Shirley Jones, **62**, 124.

*The Construction of an H $\alpha$  Solar Prominence Spectroscope*, Jack B. Newton, **64**, 197.

*Structures Chromospheriques Fines dans la Couronne Solaire*, J.-René Roy, **71**, 373.

*A Solar Flash Spectrum for 26th February, 1979*, Christopher Corbally, **73**, 263.

### **Sun: Radio Radiation**

*The Development of Solar Microwave Radio Astronomy in Canada*, A. E. Covington, **61**, 314.

*Solar Radio Emission at 10.7 cm, 1947-1968*, Arthur E. Covington, **63**, 125.

*Relative Positions of Radio Sources on the Solar Disk at 2800 MHz and 408 MHz*, D. Basu, **64**, 90.

*Spectra of Different Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 152.

*A Comparative Study of the Different Aspects of Impulsive and Gradual Rise and Fall Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 284.

*A 10.5 Year Period for the Slowly Varying Component of the Solar Radio Flux*, A. E. Covington, **68**, 31.

*Variations in the Profiles of the Gradual Rise and Fall Bursts for June 11-15 and a High Resolution Study for the Major Event of June 15, 1972*, A. E. Covington, **68**, 225.

*Comments on the Radio Burst for the White Light Flare of July 4, 1974*, A. E. Covington, **68**, 332.

*Plasma Frequency Radiation in Astronomy: What We Learn from Solar Radio Observations*, Henry M. Bradford, **69**, 162.

*The Solar Microwave "Negative Burst" Associated with the Dark Fan of 21 May 1967*, C. Sawyer, **70**, 127.

*Some Studies on the Spectra of the Different Components of the Absolute Solar Microwave Flux*, M. K. Das Gupta, T. Chattopadhyay & S. K. Sarkar, **70**, 185.

*Solar Activity Associated with an Unusual Series of Microwave Flux Decreases*, C. Sawyer, **70**, 228.

*Amateur Radio Astronomy Part III*, Ken Tapping, NN, **72**, 38.

*Amateur Radio Astronomy Part IV*, Ken Tapping, NN, **72**, 60.

*The 2800-MHz Solar Radio Minimum of February 1976*, Arthur E. Covington, **73**, 1.

*Comments on the Duration-Peak-Flux-Density Diagram for 2800 MHz Solar Bursts*, Edward W. Cliver, **75**, 15.

*Shedding Light on WWV Solar Reports*, Bert Huneault, B, **3**, 5, 5.

*A 3.8-4.2 GHz Solar Radio Telescope Using Satellite TV Components*, James A. Roberts, J. Hajsaleh & R. Bengé, **88**, 233.

*The Sun's Temperature at  $\lambda = 5$  Centimetres*, William Lonc & Na Han Chan, **89**, 118.

*Cycle 22 Continues*, **89**, 190.

### **Sun: Solar-Terrestrial Relations**

*The Edmonton Survey of the Aurora Borealis*, Earl R. Milton, **63**, 238.

*Some Studies on Geomagnetic Crochet-Associated Solar Optical Flares and Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 66.

*Recent Aurora Activity*, Rolf Meier, NN, **68**, 14.

*Sunspots and Agriculture*, D. P. Hube, NN, **69**, 16.

*Audible Sounds Excited by Aurorae and Meteor Fireballs*, Colin S. L. Keay, **74**, 253.

*The 1979 February 26 Solar Eclipse on Short Wave*, Ken Tapping & Chip Wiest, NN, **74**, 40.

*Observations of a Yukoner*, Ron Richards, NN, **74**, 57.

*An Incredible Auroral Double-Feature*, Leo Enwright, NN, **75**, 45.

*News Briefs*, NN, **76**, 4.

*BAA Aurora Section Wants Canadian Observers*, S. R. Dunlop, NN, **77**, 5.

*Aurora at Hamilton Centre Observatory Site*, Michael DeVillaer, NN, **77**, 41.

*The BAA Encourages Canadian Aurora Observers*, R. J. Livesey, NN, **77**, 51.

*A Note on Anomalous Sounds from Meteor Fireballs and Aurorae*, D. Y. Wang, T. F. Tuan & S. M. Silverman, **78**, 145.

*Astronomical Observations in the Anglo-Saxon Chronicle*, Owen Brazell, NN, **78**, 56.

*Sounding Rocket Research in Canada*, Kenneth Pilon, NN, **79**, 6.

*Science on Ice: Astronomy at the South Pole*, Steven Morris, NN, **79**, 25.

*The Unusual Auroral Outburst of August 12-13, 1985*, Leo Enwright, NN, **79**, 80.

*Auroral Secrets Revealed*, NN, **81**, 12.

*The Observer's Cage*, David H. Levy, NNB, **83**, 36.

*Natural Light Pollution: The March Aurora Display*, Steven Spinney, NNB, **83**, 55.

*C. A. Chant and the Mystery of Auroral Sounds*, Colin S. L. Keay, **84**, 373.

*La Nuit du Grand OVNI de Montréal*, Marc A. Gélinas, B, **1**, 1, 4.

*Aurorae and the Power System*, Joe Yurchesyn, B, **1**, 6, 1.

*Aurorae and the Power System*, Roger G. Napier, B, **2**, 2, 2.

*Aurorae and the Power System*, Joe Yurchesyn, B, **2**, 3, 2.

*Terrestrial and Celestial Fireworks*, John Iverson, B, **2**, 1, 8.

*Shedding Light on WWV Solar Reports*, Bert Huneault, B,

**Sun: Sunspots**

- Relative Positions of Radio Sources on the Solar Disk at 2800 MHz and 408 MHz*, D. Basu, **64**, 90.
- Termination of the U. S. Naval Observatory Solar Program*, A. E. Covington, **66**, 165.
- Attention Solar Observers!*, Robert Pike, NN, **66**, 23.
- Were There Any Other Observers?*, Ted Bronson, NN, **67**, 2.
- Where Have the Solar Observers Gone?*, Paul Mortfield, NN, **67**, 9.
- A 10.5 Year Period for the Slowly Varying Component of the Solar Radio Flux*, A. E. Covington, **68**, 31.
- Sunspots and Agriculture*, D. P. Hube, NN, **69**, 16.
- Structures Chromosphériques Fines dans la Couronne Solaire*, J.-René Roy, **71**, 373.
- European Solar Observers*, NN, **71**, 24.
- Sun Spot*, G. Westcott, NN, **74**, 32.
- Observations of Solar Activity*, Angelika Kahrkling, NN, **74**, 59.
- Polish Solar Observers*, NN, **75**, 44.
- Attention Solar Observers*, NN, **75**, 71.
- Photographing the Sun in Hydrogen Alpha*, John Hicks, NN, **76**, 18.
- Relative Sunspot Number*, Carl Savage, NN, **78**, 40.
- Wolf — A Computer Expert System for Sunspot Classification and Solar-Flare Prediction*, Richard W. Miller, **82**, 191.
- North-South Asymmetry of Sunspot Distribution*, Wang Yi, **86**, 89.

**Surveys**

- "Problicom" — Threshold to Discovery*, Barry Matthews, NN, **73**, 10.
- Stellar Spectroscopy — A Personal Approach*, Clive Gibbons, NN, **73**, 74.
- The DRAO Galactic Plane Survey*, Lloyd A. Higgs, **83**, 105.
- Kinematic Bias in Proper Motion Surveys*, P. C. Dawson, R. G. Johnson & A. J. Rorabeck, **89**, 201.

**Techniques: Image Processing**

- Monochromatic Photographs and Isophotic Contours of Planetary Nebulae. I: NGC 3242*, W. A. Feibelman, **64**, 305.

**Techniques: Interferometric**

- Canadian Radio Astronomers Record Success*, Ian Halliday, **61**, 196.
- Observational Procedures for Visual Double-Star Work*, Otto G. Franz, **67**, 81.
- Une Systeme Modulaire D'Interferometrie de Fabry-Perot Pour L'Imagerie et la Spectrometrie*, J.-R. Roy, R. Arsenault, R. Bisson & G. Joncas, **76**, 277.
- Beginnings of VLBI in Canada*, H. P. Gush, **82**, 221.
- The Future of VLBI*, P. P. Kronberg, **82**, 266.
- Investigation of Array Configurations for An Aperture-Synthesis Radio Telescope*, Norman C. Treloar, **83**, 92, 429.
- My Radio Telescope*, Bob Drury, **87**, 72.

**Techniques: Miscellaneous**

- Making an Eight-Inch Achromatic Doublet*, Roy Quade, **61**, 381.
- The Construction of an H $\alpha$  Solar Prominence Spectroscope*, Jack B. Newton, **64**, 197.
- A Radio Photograph of the Cygnus-X Region*, J. E. Winzer & J. A. Roberts, **65**, 100.
- A Simple Procedure for Anodizing*, John A. Findlay, NN, **69**, 12.
- Aristotle and Averted Vision*, A. A. Barrett, **71**, 327.
- Cleaning Aluminized Telescope Mirrors*, Fred Lossing, NN, **73**, 66.
- Mirror Coating*, Grant W. Dixon, NN, **74**, 36.
- Telescope Care*, Ray Khan, NN, **82**, 63.
- Archeo ATM*, Howard Spragins, NNB, **83**, 60.
- Kinematic Bias in Proper Motion Surveys*, P. C. Dawson, R. G. Johnson & A. J. Rorabeck, **89**, 201.

**Techniques: Observing**

- An Instrument to Aid Visual Meteor Observation*, M. J. Neale, **61**, 353.
- The Optical Projection of Solar and Lunar Objects on a Modified Translucent Viewing Screen*, Donovan H. Fallows, **62**, 259.
- The Construction of an H $\alpha$  Solar Prominence Spectroscope*, Jack B. Newton, **64**, 197.
- Lunar Occultations*, Edward Kipp, NN, **64**, 19.
- Meteor Observations Continue in Ottawa*, Ken Hewitt-White, NN, **64**, 22.
- The Use of Closed-Circuit TV in Conjunction with Amateur Astronomical Telescopes*, Donovan H. Fallows, **65**, 78.
- The Purkinje Effect*, J. E. Isles, NN, **65**, 6.
- The Art of Comet Hunting*, David H. Levy, NN, **65**, 7.
- Observation of Asteroids*, K. E. Chilton, NN, **65**, 12.
- Grazing Occultations*, David W. Dunham, NN, **65**, 19.
- Observational Procedures for Visual Double-Star Work*, Otto G. Franz, **67**, 81.
- Hints for Happy Observing*, Tony Puerzer, NN, **67**, 8.
- Sketching the Planets*, Toney Puerzer, NN, **67**, 10.
- How Do You Observe ... ?*, B. L. Matthews, NN, **68**, 4.
- How to Store Large Maps and Charts*, NN, **68**, 5.
- Daylight Observing of Planets*, Lew McQueen, NN, **68**, 10.
- Protection for Maps and Charts*, NN, **68**, 12.
- Good Observing Techniques*, Dave Pristupa, NN, **68**, 20.
- Keeping the Records — Straight*, B. F. Shinn, NN, **69**, 17.
- Observing Lunar Occultations*, David Brown, NN, **69**, 23.
- Comet and Nova Search*, NN, **69**, 47.
- Cold Weather Astrophotography*, G. N. Patterson, NN, **69**, 70.
- Minor Planet Observing*, Doug Welsh, NN, **70**, 12.
- New Observing Aid*, David L. DuPuy, NN, **70**, 28.
- The Many Merits of Modest Magnification*, Roy L. Bishop, NN, **70**, 36.
- Daytime and Twilight Observation*, Lucien J. Kemble, NN, **70**, 69.
- Aristotle and Averted Vision*, A. A. Barrett, **71**, 327.
- Lunar Occultations*, David Brown, NN, **71**, 28.
- Les Etoiles Doubles Binaires*, Damien Lemay, NN, **72**, 51.
- Variable Star Observing Part I*, C. E. Spratt, NN, **72**, 72.

- Variable Star Observing Part II*, C. E. Spratt, NN, **72**, 85.  
*In Search of Satellites of Minor Planets*, Paul D. Maley, **74**, 327.  
*Quebec Supplier can Render Special Services to Astrophotographers*, Damien Lemay, NN, **74**, 10.  
*Sun Spot*, G. Westcott, NN, **74**, 32.  
*On Purchasing a Nebular Filter*, Trish Linke, NN, **74**, 47.  
*Protective Filters for Solar Observation*, B. Ralph Chou, **75**, 36.  
*Getting Started in Variables*, David H. Levy, NN, **75**, 69.  
*Perseids 1981*, Bruce Waters, NN, **75**, 73.  
*La Mi-Venus*, Marc A. Gélinas, NN, **77**, 28.  
*Venus? Hmm ..., Fifty-Fifty*, Marc A. Gélinas, NN, **77**, 28.  
*Useful Data for Polar Alignment*, Lucian Kemble, NN, **77**, 58.  
*Cold Weather Observing*, Scott Chandwater, NN, **78**, 5.  
*The 1984 Opposition of Mars*, NN, **78**, 8.  
*Relative Sunspot Number*, Carl Savage, NN, **78**, 40.  
*Some Observations on Observing Eclipses*, Mike Wesolowski, NN, **78**, 68.  
*Observing Tips for Comet Halley*, Dave Chapman, NN, **79**, 51.  
*Planets in the Daytime*, Carl Savage, NN, **79**, 54.  
*Dew: What to do About It*, Alister Ling, NN, **80**, 9.  
*How to Choose the Best Sky*, Alan Rahill, NN, **80**, 37.  
*Bright Outer Planets*, Philip Mozel, NN, **80**, 56.  
*Beginner's Guide to Astrophotography Part 3*, Bryce Heartwell, NN, **81**, 57.  
*Beginner's Guide to Astrophotography Part 4*, Bryce Heartwell, NN, **81**, 74.  
*Dressing for Winter Observing*, Frank Dempsey, NN, **82**, 12.  
*A Cheap Red Night Light for Astronomy*, Richard Huziak, NNB, **83**, 46.  
*Observing Earth Satellites*, Ted Molczan, NNB, **83**, 58.  
*A Cure for Some Headlights*, Alister Ling, B, **1**, 3, 2.  
*Palms Up!*, Todd Lohvinenko, B, **1**, 5, 2.  
*What the Blinkity-Blink is Going On Here?*, Jeremy B. Tatum, B, **2**, 6, 5.  
*Observing Faint Bright Nebulae*, Randy Pakan, B, **4**, 3, 7.  
*"Parfocalizing" Your Eyepieces*, Robert Roy, B, **4**, 4, 3.  
*Observing the Palomar Clusters*, Randy Pakan, B, **4**, 5, 3.  
*Observing in Twilight*, Alister Ling, B, **4**, 5, 6.  
*Astro-Tip: Turn Your Telrad Into a Finder*, Bill Broderick, B, **4**, 6, 5.  
*Star Charts Suitable for CCD Cameras*, Chris Brown, B, **5**, 3, 4.
- Techniques: Photographic**  
*Motion Picture Photography Through the Telescope*, Robert J. Wood, **65**, 239.  
*Polaroid Film in Undergraduate Astronomical Photography*, K. A. Innanen, C. R. Purton, R. Berry & W. G. Weller, **66**, 157.  
*An Evaluation of Cameras for Photographing Stars*, Richard Berry, NN, **66**, 5.  
*Observational Procedures for Visual Double-Star Work*, Otto G. Franz, **67**, 81.  
*An Experiment with a Naturally-Cooled Emulsion*, J. B. Newton, **67**, 148.
- Getting More Out of Your Astrophotos*, Richard Berry, NN, **67**, 31.  
*Kodak Publications*, Cathy Hall, NN, **69**, 7.  
*Films for Astrophotography*, Tony Puerzer, NN, **69**, 13.  
*A Test of Three Films*, Doug Beaton, NN, **69**, 14.  
*Nitrogen Soaking*, Jack Newton, NN, **69**, 25.  
*Cold Weather Astrophotography*, G. N. Patterson, NN, **69**, 70.  
*Hydrogen Hypersensitization for Films*, Rick Salmon, NN, **70**, 42.  
*Astrophotography: A Personal Approach Part I*, Alan Dyer, NN, **72**, 32.  
*Astrophotography: A Personal Approach Part II*, Alan Dyer, NN, **72**, 54.  
*Fabrication d'un Réticule pour Oculaire Utilisé dans la Photographie Astronomique*, Damien Lemay, NN, **73**, 7.  
*"Problicom" — Threshold to Discovery*, Barry Matthews, NN, **73**, 10.  
*The Double Star Sirius*, George R. Ball, NN, **73**, 53.  
*Astrophotographie: Réseau d'Équidensités Photographiques*, Andre Paul, NN, **74**, 82.  
*Astrophotography: Photographic Generation of Equidensity Contours*, Andre Paul, NN, **74**, 85.  
*The Measurement of Comet Position*, Jeremy B. Tatum, **76**, 97.  
*Photographing the Sun in Hydrogen Alpha*, John Hicks, NN, **76**, 18.  
*High Contrast Solar H-Alpha Photography for Amateur Astronomers*, John Hicks, NN, **76**, 67.  
*Cameras! Cameras! Cameras!*, Mario Caluori, NN, **77**, 8.  
*Finding Comet Halley by Projection Blinking*, Ben Mayer, NN, **79**, 38.  
*Trying Astrophotography*, Bill Braithwaite, NN, **80**, 36.  
*Beginner's Guide to Astrophotography Part 1: Methods*, Bryce Heartwell, NN, **81**, 25.  
*Beginner's Guide to Astrophotography Part 2*, Bryce Heartwell, NN, **81**, 44.  
*Beginners's Guide to Astrophotography Part 3*, Bryce Heartwell, NN, **81**, 57.  
*Beginner's Guide to Astrophotography Part 4*, Bryce Heartwell, NN, **81**, 74.  
*Hypered Film for Astrophotography*, Rajiv Gupta, B, **3**, 5, 3.  
*Medium-Format Astrophotography*, Rajiv Gupta, B, **4**, 1, 4.  
*Photographing the May 10<sup>th</sup> Solar Eclipse*, Michael S. F. Watson, B, **4**, 2, 3.  
*Astrophotography — Field Rotation*, Rajiv Gupta, B, **4**, 5, 4.  
*Astrophotography — Field Rotation*, C. Musès, B, **4**, 6, 2.  
*Composite Eclipse Photo*, Ian Grant, B, **4**, 5, 5.  
*P Cygni and Its Cluster*, Walter A. Feibelman, **89**, 3.  
*Photographic Determination of the Eccentricity of the Earth's Orbit*, Richard L. Nugent, **89**, 217.
- Techniques: Photometric**  
*Photometric Weather at Toronto*, J. D. Fernie, **66**, 249.  
*Stellar Photoelectric Photometry for Amateurs*, E. P. Majden, NN, **66**, 1.  
*The Photometry of Visual Binaries*, R. H. Hardie, **67**, 68.

*Observational Procedures for Visual Double-Star Work*, Otto G. Franz, **67**, 81.  
*Spectrophotometry with Television-Type Detectors*, Gordon A. H. Walker, **71**, 139.  
*Theory of Planetary Photometry*, Timothy P. Lester, Marshall L. McCall & Jeremy B. Tatum, **73**, 233.  
*Photoelectric Reduction for the Amateur Astronomer*, D. Welch, **73**, 370.  
*Analyse D'Une Des Caracteristiques des Etoiles Ap: La Depression a 5200 Å*, Gilles Joncas, **74**, 261.  
*IAPPP Symposium*, Clifford Cunningham, NN, **75**, 53.  
*Direct Imaging and Photometry with an Intensified Silicon Vidicon Detector*, S. Jeffers, **76**, 19.  
*Photometry Among the Climatically Underprivileged*, J. D. Fernie, **76**, 224.  
*A Simple and Accurate On-Line Data Acquisition Program*, M. Pim FitzGerald & Ian Shelton, **76**, 337.  
*Partial Automation of a Cuffey Iris Astrophotometer*, B. Cameron Reed, David G. Turner & J. Norman Scrimger, **80**, 203.  
*An Attempt to Use Narrow-Band H $\alpha$  Photometry to Estimate Levels of Stellar Activity*, S. M. Rucinski, **81**, 36.  
*Progress in CCD Photometry*, Peter B. Stetson, **86**, 71.  
*Further Observations of HR 4483, A Small-Amplitude Red Variable Star*, Raymond R. Thompson, **90**, 206.

### **Techniques: Radial Velocity**

*HD 176318: A Second Epoch Spectrographic Orbit*, Douglas P. Hube, **64**, 98.  
*A Rapid Scanning Radial Velocity Spectrometer*, J. R. Stilborn, J. M. Fletcher & F. D. A. Hartwick, **66**, 49.  
*Coude Radial Velocities of  $\zeta$  Herculis*, C. D. Scarfe, H. Funakawa, P. A. Delaney & David J. Barlow, **77**, 126.

### **Techniques: Spectroscopic**

*A Suggested Eclipse Experiment*, Brian K. Dennison & Gary L. Sege, NN, **66**, 4.  
*Current Trends in Astronomical Spectroscopy*, K. O. Wright, **69**, 265.  
*Spectrophotometry with Television-Type Detectors*, Gordon A. H. Walker, **71**, 139.

### **Telescopes (see also Observatories, Notes from Observatories)**

*Making an Eight-Inch Achromatic Doublet*, Roy Quade, **61**, 381.  
*Facilities for Visitors at KPNO and CTIO*, N. U. Mayall, **62**, 85.  
*A Control Console for the Dunlap 74-Inch Telescope*, John F. Heard & Frank Hawker, **62**, 91.  
*A Spectroscopic Supersynthesis Radio Telescope*, J. D. Lacey, **62**, 378.  
*The Queen Elizabeth II Telescope*, G. J. Odgers & K. O. Wright, **62**, 392.  
*Sites for Optical Telescopes*, N. U. Mayall, **63**, 46.  
*New Observatory of the University of Western Ontario*, William Wehlau, **64**, 1.  
*New Radio Telescopes in Europe*, Philipp P. Kronberg, **64**, 105.  
*The Use of Closed-Circuit TV in Conjunction with Amateur*

*Astronomical Telescopes*, Donovan H. Fallows, **65**, 78.  
*A 7.6-Meter (300-Inch) Equivalent Optical Telescope Array*, E. H. Richardson & G. J. Odgers, **66**, 99.  
*The Newton Observatory*, J. B. Newton, **66**, 224.  
*A Major Optical Telescope for Canada*, K. O. Wright, **66**, 317.  
*Stellar Photoelectric Photometry for Amateurs*, E. P. Majden, NN, **66**, 1.  
*Observatory for Montreal Centre*, NN, **66**, 10.  
*Victoria Centre Telescope Making*, E. E. Bridgen, NN, **66**, 31.  
*Solar Telescope at Winnipeg to Mark Quincentennial of Copernicus' Birth*, B. Franklyn Shinn, **67**, 88.  
*The Canada-France-Hawaii Telescope*, J. L. Locke, **67**, 203.  
*Site Survey for a Solar Observatory in Canada*, V. Gaizauskas & A. Kryworuchko, **67**, 217.  
*About the New Telescope*, NN, **67**, 14.  
*Have Telescope Will Travel*, Bill Smythe, Eric Clinton & G. Chris Essex, NN, **67**, 27.  
*Historic 15-Inch Refractor Removed from Dome in Ottawa*, **68**, 272.  
*The 4.57 m Millimetre Wave Telescope at the University of British Columbia*, W. L. H. Shuter & W. H. McCutcheon, **68**, 301.  
*University of Toronto Staff Build 60 Foot Radio Telescope*, NN, **68**, 15.  
*Progress on the CFHT 3.6 m Mirror at the DAO*, K. O. Wright, **69**, 46.  
*The Old Dominion Observatory*, A. E. Covington, **69**, 86.  
*The Old Dominion Observatory*, A. E. Covington, NN, **69**, 6.  
*A Simple Procedure for Anodizing*, John A. Findlay, NN, **69**, 12.  
*A Large Mirror for Vancouver*, NN, **69**, 15.  
*Mounting Design for Amateur Telescopes*, Richard Berry, NN, **69**, 35.  
*Notes From Australia*, E. R. Seaquist, NN, **69**, 38.  
*Preliminary Report on the University of Alberta's 20-inch Reflector*, Jack Winzer, NN, **69**, 42.  
*Conic Sections*, W. Weller, NN, **69**, 64.  
*Cassegrain Telescope Systems*, Jack Winzer, NN, **70**, 24.  
*The University of Alberta Observatories*, D. Hube, NN, **70**, 29.  
*Binoculars for Celestial Viewing*, Larry Coldwell, NN, **70**, 43.  
*Catadioptric Telescope Systems*, Jack Winzer, NN, **70**, 67.  
*Catadioptric Telescope Systems — II*, Jack Winzer, NN, **70**, 77.  
*Report on Construction of the Canada-France-Hawaii Telescope*, J. L. Locke, **71**, 9.  
*What Price Infinity?*, Roy L. Bishop, NN, **71**, 27.  
*Catadioptric Telescope Systems III*, Jack Winzer, NN, **71**, 29.  
*L'Observatoire du Collège de Lévis*, Damien Lemay, NN, **71**, 35.  
*Abolish Duty on Telescopes, Please!*, NN, **71**, 64.  
*Bloc de Guidage à Logique COS/MOS*, Alphonse Tardif, NN, **71**, 69.  
*Bloc de Guidage à Logique COS/MOS*, Alphonse Tardif, NN, **72**, 10.

- A Possible Historical Association Between a Dolland Telescope and Early Scientific Surveys in Canada*, Arthur E. Covington, **72**, 111.
- Amateur Radio Astronomy Part I*, K. F. Tapping, NN, **72**, 5.
- Amateur Radio Astronomy Part II*, K. F. Tapping, NN, **72**, 22.
- Are There Only Three of These in Canada?*, J. E. Kennedy, NN, **72**, 31.
- Astrophotography: A Personal Approach Part II*, Alan Dyer, NN, **72**, 54.
- Amateur Radio Astronomy Part IV*, Ken Tapping, NN, **72**, 60.
- Nouveaux Instruments a L'Observatoire du College de Levis*, NN, **72**, 88.
- More on Gregorian Telescopes*, J. E. Kennedy, NN, **73**, 4.
- Fabrication d'un Réticule pour Oculaire Utilisé dans la Photographie Astronomique*, Damien Lemay, NN, **73**, 7.
- The Ottawa Centre's Radio Telescope*, Ken Tapping, NN, **73**, 12.
- Still More on Gregorian Telescopes*, J. E. Kennedy, NN, **73**, 41.
- The Time Machine*, Roy L. Bishop, NN, **73**, 52.
- Cleaning Aluminized Telescope Mirrors*, Fred Lossing, NN, **73**, 66.
- A Talking Telescope*, Leo Enwright, NN, **73**, 83.
- In Praise of Smaller Telescopes*, John R. Percy, **74**, 334.
- A Telescope Farm*, David H. Levy, NN, **74**, 19.
- Mirror Coating*, Grant W. Dixon, NN, **74**, 36.
- Buying Your First Telescope*, Dave Belcher, NN, **74**, 53.
- Gregorians Are Still Turning Up*, Ed Kennedy, NN, **74**, 68.
- A Revolution in Amateur Astronomy*, Leo Enwright, NN, **74**, 80.
- Remote Focusing for Telescope*, B. Franklyn Shinn, NN, **74**, 90.
- Le Telescope Canada-France-Hawaii; Gestation, Enfance et Avenir*, René Racine, **75**, 305.
- In Praise of the Hooker*, Roy L. Bishop, NN, **75**, 40.
- Searching for Historical Telescopes*, NN, **75**, 44.
- "Skyball?????????", M. J. W. Smith, NN, **75**, 47.
- The Challenge of Deep Sky Photography*, Jack Newton, **76**, 50.
- The 6-Inch Cooke Refractor in Toronto*, Brian Beattie, **76**, 109.
- The Second STARLAB Joint Science Working Group Meeting*, Christopher Aikman, David Crampton & James E. Hesser, **76**, 209.
- The Liquid-Mirror Telescope as a Viable Astronomical Tool*, Ermanno F. Borra, **76**, 245.
- Phoenix II in Lions Head*, Clifford Cunningham & Douglas Cunningham, NN, **76**, 11.
- A Letter to the Editor*, Robert Dick, NN, **76**, 44.
- Canada Customs Tariff Changes*, Peter Steffin, NN, **76**, 46.
- High Contrast Solar H-Alpha Photography for Amateur Astronomers*, John Hicks, NN, **76**, 67.
- A Visit to Kitt Peak's Solar Telescopes*, David H. Levy, NN, **76**, 71.
- A 1908 Brass Refractor*, Brian Carr, NN, **77**, 7.
- Mobile in British Columbia*, Muriel Enock, NN, **77**, 29.
- Reflections on Coring a 16-Inch Mirror*, Mike Wesolowski, NN, **77**, 45.
- Useful Data for Polar Alignment*, Lucian Kemble, NN, **77**, 58.
- Space Telescope*, Muriel Enock, NN, **77**, 90.
- Cold Weather Observing*, Scott Chandwater, NN, **78**, 5.
- A Telescope's First Century*, Philip Mozel, **78**, 75.
- Telescope Eyepiece Field in Arc and Time*, Lucien J. Kemble, NN, **78**, 43.
- Telescopes and Canada Customs*, NN, **78**, 48.
- Dial "M" for MMT*, Doug Welch, NN, **78**, 60.
- On the Go Again ...*, J. D. Fernie, NN, **78**, 80.
- Modifying for the Planets*, Bill Laurence, NN, **78**, 88.
- Astronomy with the Hubble Space Telescope*, Sidney van den Bergh, **79**, 134.
- Fifty Years of Public Viewing: Notes on a 12-Inch Cassegrain on Mount Wilson*, David H. Levy, NN, **79**, 18.
- The Moose Factory Telescope*, Philip Mozel & Debbie Mozel, NN, **79**, 58.
- Quasars and Galaxies Observable With the Space Telescope*, Charles J. Krieger, **80**, 56.
- A Note on the History of the Liquid-Mirror Telescope*, Duncan Olsson-Steel, **80**, 128.
- Telescopes for Students*, Roy L. Bishop, **80**, 211.
- Telescopes and Observing*, Peter Ceravolo, NN, **80**, 6.
- Telescopes and Observing: A Reply*, Terence Dickinson, NN, **80**, 7.
- Dew: What to do About It*, Alister Ling, NN, **80**, 9.
- The Questar 12 Experience*, Walter MacDonald, NN, **80**, 15.
- Binocular Buying Tips*, Peter Ceravolo, NN, **80**, 27.
- A Visit to the Ball Observatory*, B. Franklyn Shinn, NN, **80**, 35.
- Letter to the Editor*, Peter Ceravolo, NN, **80**, 62.
- Telescopes North*, Steve Dodson, NN, **80**, 67.
- The Fort Malden Telescope*, Philip Mozel, NN, **80**, 75.
- Radio Astronomy Rediscovered*, Sherri Aker & William P. Lonc, **81**, 65.
- The Fort Malden Telescope: The Story Continues*, Hein van Asperen, NN, **81**, 56.
- Binocular Testing*, Paul Bigelow, NN, **81**, 71.
- I Remember the Good Old Days*, Clive Gibbons, NN, **81**, 93.
- World's Largest Telescope*, NN, **82**, 4.
- The Travelling Telescope*, John R. Percy, NN, **82**, 30.
- Attention Telescope Makers*, Bill Krosney, NN, **82**, 41.
- A European Telescope for 2001*, Peter McSweeney, NN, **82**, 58.
- Testing the "CAT"*, Jack Newton, NN, **82**, 62.
- Telescope Care*, Ray Khan, NN, **82**, 63.
- Tariffs on Telescopes, Parts and Accessories*, NN, **82**, 74.
- La Lunette Apochromatique*, Marc A. Gélinas, NN, **82**, 75.
- A Computer-Driven Astronomical Telescope Guidance and Control System With Superimposed Star Field and Celestial Coordinate Graphics Display*, Douglas P. George & L. Robert Morris, **83**, 32.
- Undergraduate Experiments in Radio Astronomy*, William P. Lonc, **83**, 45.
- Investigation of Array Configurations for An Aperture-Synthesis Radio Telescope*, Norman C. Treloar, **83**, 92, 429.
- New Eyes for Astronomy*, Barry F. Madore, **83**, 269.

*A Twisted Tale About Sky Optical*, Steve Hicks, NNB, **83**, 5.  
*First Light on the 25-Inch*, Jack Newton, NNB, **83**, 46.  
 "First Light" for NNT, Ian McGregor, NNB, **83**, 55.  
*Archeo ATM*, Howard Spragins, NNB, **83**, 60.  
*The Edmonton Centre's New Telescope*, Bob Drew, NNB, **83**, 82.  
*La Construction du Télescope Canada-France-Hawaii*, R. Cayrel, **84**, 3.  
*A Brief History of the Indian River Observatory Radio Interferometer*, Frank Roy & Ken Tapping, **84**, 260.  
*RadioAstron: The World's Largest Radio Telescope*, NNB, **84**, 31.  
*NRC to Link With Hubble Space Telescope*, NNB, **84**, 44.  
*Overrated Telescopes*, Peter Ceravolo, NNB, **84**, 55.  
*Liquid Mirror Telescopes: History*, Brad K. Gibson, **85**, 158.  
*The Incredible Blinking Reticle*, Grey Saxon, B, **1**, 3, 3.  
*MICRO-GUIDER: A Computerized Setting Circle/Database Device*, David J. Lane, B, **1**, 6, 4.  
*The Canada-France-Hawaii Telescope and George Willis Ritchey's Great Telescopes of the Future*, Donald E. Osterbrock, **87**, 51, 164.  
*From 1.8 to 8 m Telescopes*, David Crampton, **87**, 299.  
*Bicycles, Bubble Gum and Astronomy*, Alister Ling, B, **3**, 3, 5.  
*A 3.8-4.2 GHz Solar Radio Telescope Using Satellite TV Components*, James A. Roberts, J. Hajsaleh & R. Benge, **88**, 233.  
*Hectometer Radio Astronomy*, Grote Reber, **88**, 297.  
*RASCals*, B, **4**, 4, 4.  
*Astro-Tip: Turn Your Telrad Into a Finder*, Bill Broderick, B, **4**, 6, 5.  
*My Radio Telescope*, Bob Drury, **89**, 72.  
*Geopotential Surface Corrections to Large Aperture Liquid Mirror Telescopes*, Wayne H. Cannon & Slavek M. Rucinski, **89**, 99.  
*A Radio Telescope for the Discovery Park*, William Lonc & Robert Shultz, **89**, 106.  
*The Sun's Temperature at  $\lambda = 5$  Centimetres*, William Lonc & Na Han Chan, **89**, 118.  
*A Telescope for Viet Nam*, Alan H. Batten, **89**, 122.  
*Belittling Keck*, Germain Dionne, B, **5**, 1, 4.  
*The Magic of  $f$ -Ratios*, Gary Seronik, B, **5**, 3, 1.  
*The Telescope Visibility Factor*, Gary Seronik, B, **5**, 4, 1.  
*Detecting the Galactic Centre at 70 cm*, William Lonc & Jennifer Hatt, **90**, 61.  
*The Canada-France-Hawaii Telescope and Gemini*, John Hutchings, **90**, 97.  
*GNAT: A Global Network of Small Telescopes as a Resource for Astronomical Research and Education*, David L. Crawford & Eric Craine, **90**, 224.  
*Telescope Making on the Internet*, Gary Seronik, B, **6**, 5/6, 6.

## Thunder Bay Centre

*Centre Reports*, B, **3**, 2, 15.  
*National and Centre Councils for 1993*, B, **3**, 2, 28.  
*Centre Finances*, B, **3**, 2, 31.  
*Centre Reports*, Bob Bishop, B, **4**, 2, 17.  
*National and Centre Councils for 1994*, B, **4**, 2, 32.

*Centre Finances*, B, **4**, 2, 35.  
*RASCals*, B, **4**, 4, 4.  
*Centre Reports*, R. C. Bishop, B, **5**, 2, 14.  
*National and Centre Councils for 1995*, B, **5**, 2, 24.  
*Centre Finances*, B, **5**, 2, 27.  
*Centre Reports*, Dave Galley, B, **6**, 2, 15.  
*National and Centre Councils for 1996*, B, **6**, 2, 28.  
*Centre Finances*, B, **6**, 2, 31.

## Time

*UT, UT<sub>C</sub>, ET and AT*, R. W. Tanner, **61**, 41.  
*Astronomy of Time and Position*, Malcolm M. Thomson, **61**, 226.  
*Standard Time and Time Zones in Canada*, Malcolm M. Thomson, **64**, 129.  
*Canada Adopts Atomic Time*, Malcolm M. Thomson, **65**, 302.  
*The Measurement of Time*, John H. Reid, **66**, 135.  
*Time and Its Measurement in Fredericton*, J. E. Kennedy, **66**, 311.  
*The Carpenter's Chronometers I*, J. D. Fernie, NN, **68**, 26.  
*The Carpenter's Chronometers. II*, J. D. Fernie, NN, **69**, 2.  
*Accurate Time*, John Howell, NN, **70**, 44.  
*The Time Inventors*, J. D. Fernie, NN, **70**, 59.  
*On the Management of Daylight Saving Time in Southern Ontario*, K. A. Innanen & S. E. H. Innanen, **72**, 206.  
*Variable Star Observing Part II*, C. E. Spratt, NN, **72**, 85.  
*Le Temps: La Mesure de L'Astronomie*, Real Manseau, NN, **73**, 86.  
*An Easter Program for the HP 29C*, E. L. R. Webb, **74**, 17.  
*A Solar Calendar*, Gilles Ménard, **74**, 242, 370.  
*Greenwich Time*, Muriel Enock, NN, **78**, 85.  
*The Application of Standard Time to Railways (Part I)*, Omer Lavallée, NN, **79**, 2.  
*The Application of Standard Time to Railways (Part II)*, Omer Lavallée, NN, **79**, 22.  
*Keeping the RASC on Time*, Harlan Creighton, NN, **79**, 44.  
*A Shifting Date Line: An Interesting Feature of the Solar Calendar*, Mohammad Ilyas, **80**, 134.  
*Lunar Calendars: The Mission Date-Lines 33*, Mohammad Ilyas, **80**, 328.  
*Earlier Daylight Time in the US*, NN, **80**, 57.  
*A Clock for All Occasions*, David M. Stokes, NN, **80**, 87.  
*Earlier Start to Daylight Time*, NN, **81**, 9.  
*The Accumulation of Calendar-Year/Tropical-Year Differences: A Comparison of Accumulation-Reduction Algorithms*, Peter A. Peck, **84**, 14.  
*2001: The Beginning of a New Decade*, James T. Himer, NNB, **84**, 24.  
*The Regulation of the Ptolemaieia: A Hypothesis Explored*, R. A. Hazzard & M. Pim Vatter FitzGerald, **85**, 6.  
*The Tropical Year and Solar Calendar*, Kazimierz M. Borkowski, **85**, 121.  
*Rising and Setting Phenomena*, Terence Hicks, **88**, 86.  
*Got Some Julian Time on Your Hands?*, Dan Collier, B, **6**, 3, 7.  
*Chinese New Year 4694*, Henry Lee, B, **6**, 5/6, 6.

## Toronto Centre

*General Assembly at Toronto, May 16-19, 1969*, John R. Percy, **63**, 152.

- A Different Story*, Cyril G. Clark, NN, **64**, 12.  
*The Transit of Mercury, May 9, 1970*, NN, **64**, 17.  
*1971 Gold Medal Winner Honoured By Toronto Centre*, **66**, 316.  
*Quo Dvcit Marie*, NN, **66**, 10.  
*More Eclipse News*, NN, **66**, 11.  
*The Toronto Centre Eclipse Expedition 8 to 11 July, 1972*, B. R. Chou, NN, **66**, 26.  
*Toronto Centre News*, Harlan Creighton, NN, **66**, 32.  
*Toronto Centre News*, Dan Ostler, NN, **66**, 36.  
*Activities at the Centre: Toronto*, R. Chou, NN, **67**, 22.  
*Toronto Centre Holds Teachers' Workshop*, John R. Percy, NN, **68**, 9.  
*Toronto Centre Plans Major Observing Programme*, Robert Pike, NN, **68**, 30.  
*Light Pollution Programme*, Richard Berry, NN, **68**, 31.  
*Astronomy for Campers, 1975*, NN, **69**, 27.  
*Toronto Hosts 1977 General Assembly*, Ian McGregor, NN, **71**, 50.  
*RASC "East"*, Barry Matthews, NN, **72**, 37.  
*Totality at Voi*, Randy Attwood, NN, **74**, 69.  
*Activities in the Centres: Toronto Centre*, B. R. Chou, **75**, 326.  
*Centre News*, NN, **75**, 22.  
*Astronomy Toronto*, Randy Attwood, NN, **75**, 46.  
*Eclipse Fever Strikes Again*, NN, **75**, 48.  
*Astronomy Day 1981*, NN, **75**, 52.  
*52 Years of Service Recognized*, Ian G. McGregor, NN, **76**, 14.  
*RASC Centres Mark Astronomy Day*, NN, **76**, 39.  
*Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.  
*Centres Arrange Summer Observing Sessions*, Peter Jedicke, NN, **76**, 74.  
*Winter Activities of RASC Centres*, Peter Jedicke, NN, **77**, 20.  
*Astronomy Toronto: An Update*, Randy Attwood, NN, **77**, 42.  
*Planetariums Commemorate Pioneer 10*, Ian McGregor, NN, **77**, 57.  
*Gerhana Matahari 1983*, Michael Watson, NN, **77**, 77.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*The 1984 Toronto Centre Solar Eclipse Expedition*, Michael Watson, NN, **78**, 7.  
*Across the RASC*, Peter Jedicke, NN, **78**, 24, 42.  
*A Dazzling Diamond Necklace*, Michael Watson, NN, **78**, 50.  
*RASC Centres Observe Astronomy Day*, B. R. Chou, NN, **78**, 53.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59.  
*Across the RASC*, Peter Jedicke, NN, **78**, 73.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 89.  
*Across the RASC*, NN, **79**, 11.  
*Totality in Hula*, Randy Attwood, NN, **79**, 26.  
*Across the RASC*, NN, **79**, 30, 43.  
*A Successful Astronomy Day*, NN, **79**, 56.  
*Across the RASC*, NN, **79**, 57, 75, 90.  
*Across the RASC*, NN, **80**, 11, 26, 44, 52, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 24, 42.  
*The 1987 General Assembly in Toronto*, Dennis Ryan, NN, **81**, 50.  
*1988 Solar Eclipse Expedition*, Randy Attwood, NN, **81**, 60.  
*Across the RASC*, NN, **81**, 61, 68, 84.  
*Astronomy Toronto — Astronomy on Cable Television*, J. Randy Attwood, **82**, 85.  
*Across the RASC*, NN, **82**, 9, 27, 38, 53.  
*Totality in the Philippines*, Randy Attwood, NN, **82**, 77.  
*Across the RASC*, NN, **82**, 83.  
*Gold Medal of the RASC, Toronto Centre*, Ralph Chou, NN, **82**, 86.  
*Across the RASC*, NNB, **83**, 15, 37.  
*Astronomy Day Report (2): March 13, 1989*, Paul Fjeld, NNB, **83**, 53.  
*Across the RASC*, NNB, **83**, 90.  
*Toronto Centre Eclipse Expeditions*, Ralph Chou & Jennifer Owen, NNB, **83**, 93.  
*Across the RASC*, NNB, **84**, 4, 20, 36.  
*Toronto Proclaims Astronomy Week*, NNB, **84**, 43.  
*Chasing the 1991 Solar Eclipse*, Ian G. McGregor, NNB, **84**, 58.  
*Astronomy Week 1990*, Mary Anne Harrington, NNB, **84**, 59.  
*Across the RASC*, NNB, **84**, 60.  
*Way to Go, Toronto!*, Steve Dodson, NNB, **84**, 72, 89.  
*Astronomy Day in Six Cities*, B, Steve Dodson, **1**, 4, 3.  
*Astronomy Day Reports*, B, **2**, 4, 3.  
*Centre Reports*, B. Ralph Chou, B, **3**, 2, 16.  
*National and Centre Councils for 1993*, B, **3**, 2, 28.  
*Centre Finances*, B **3**, 2, 31.  
*Activities*, B, **3**, 2, 32.  
*Across the RASC*, B, **4**, 1, 4.  
*Centre Reports*, Tony Horvatin, B, **4**, 2, 18.  
*National and Centre Councils for 1994*, B, **4**, 2, 32.  
*Center Finances*, B, **4**, 2, 35.  
*Solar Eclipse a Ringing Success*, B, **4**, 3, 3.  
*Across the RASC*, B, **5**, 1, 3.  
*Centre Reports*, B, **5**, 2, 14.  
*National and Centre Councils for 1995*, B, **5**, 2, 24.  
*Centre Finances*, B, **5**, 2, 27.  
*Centre Reports*, Tony Horvatin, B, **6**, 2, 16.  
*Centre Finances*, B, **6**, 2, 31.
- ## Turbulence
- The Search for Stellar Microturbulence*, David F. Gray & John C. Evans, **67**, 241.
- ## Ultraviolet: Galaxies
- A Review of Extragalactic Non-Thermal Sources*, D. E. Harris, **74**, 109.  
*A Complete Spectral Analysis of the Flare of the Quasar 3C 273*, Alberto C. Sadun, **86**, 15.
- ## Ultraviolet: Stars
- Stellar Spectra in the Far Ultraviolet*, Ian Halliday, **61**, 380.  
*International Solar Flash-Spectrum Experiment*, **64**, 201.  
*Spectral Lines in the Ultraviolet*, Anne B. Underhill, **71**, 123.

*Sirius B: Une Naine Blanche Encore Meconnue*, F. Wesemael & G. Fontaine, **76**, 35.  
*Interacting Binary Stars: Freaks or Rosetta Stone*, Mirek J. Plavec, **77**, 283.

## Vancouver Centre

*General Assembly at Vancouver, May 19-22, 1972*, Marie Litchinsky, NN, **66**, 13.  
*A Large Mirror for Vancouver*, NN, **69**, 15.  
*Activities in the Centres: Vancouver Centre's 50<sup>th</sup> Year*, **75**, 328.  
*Centre News*, NN, **75**, 22.  
*Centres Arrange Summer Observing Sessions*, Peter Jedicke, NN, **76**, 74.  
*Across the RASC*, Peter Jedicke, NN, **77**, 37.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*Across the RASC*, Peter Jedicke, NN, **78**, 42.  
*Across the RASC*, NN, **79**, 30.  
*A Successful Astronomy Day*, NN, **79**, 56.  
*Across the RASC*, NN, **79**, 75.  
*Across the RASC*, NN, **80**, 11, 26, 44, 52, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 42, 61, 68.  
*Across the RASC*, NN, **82**, 27, 38, 53, 83.  
*Across the RASC*, NNB, **83**, 25, 37, 90.  
*Across the RASC*, NNB, **84**, 4, 20, 36, 60.  
*Across the RASC*, NNB, **84**, 90.  
*Across the RASC*, B, **1**, 2, 8.  
*Across the RASC*, B, **1**, 3, 6.  
*Astronomy Day in Six Cities*, Steve Dodson, B, **1**, 4, 3.  
*Across the RASC*, B, **1**, 5, 2.  
*The 1991 General Assembly*, Steven Spinney, B, **1**, 5, 3.  
*Across the RASC*, B, **2**, 2, 2.  
*Across the RASC*, B, **2**, 2, 7.  
*1993 National Calendar*, B, **2**, 6, 2.  
*Centre Reports*, Sally Baker, B, **3**, 2, 17.  
*National and Centre Councils for 1993*, B, **3**, 2, 29.  
*Centre Finances*, B, **3**, 2, 31.  
*Not Just Another Pretty Calendar*, Rajiv Gupta, B, **3**, 4, 9.  
*Centre Reports*, B, **4**, 2, 19.  
*National and Centre Councils for 1994*, B, **4**, 2, 32.  
*Center Finances*, B, **4**, 2, 35.  
*1995 RASC Observer's Calendar*, Rajiv Gupta, B, **4**, 5, 2.  
*National and Centre Councils for 1995*, B, **5**, 2, 24.  
*Centre Finances*, B, **5**, 2, 27.  
*Centre Reports*, B, **6**, 2, 17.  
*National and Centre Councils for 1996*, B, **6**, 2, 29.  
*Centre Finances*, B, **6**, 2, 31.

## Variable Star Notes

*Variable Star Notes*, Margaret W. Mayall, **61**, 49, 101.  
*AAVSO Nova Search Report*, George Diedrich, **61**, 104.  
*Notes on U Geminorum-Type Variables During 1966*, Margaret W. Mayall, **61**, 155.  
*Variable Star Notes*, Margaret W. Mayall, **61**, 207.  
*AAVSO Nova Search Report*, George Diedrich, **61**, 210.  
*T Pyxidis*, Margaret W. Mayall, **61**, 349.  
*AAVSO Nova Search Report*, George Diedrich, **61**, 352.  
*The XIII General Assembly of the IAU*, Margaret W. Mayall, **61**, 391.

*Nova Delphini 1967*, Margaret W. Mayall, **61**, 392.  
*Variable Star Notes*, Margaret W. Mayall, **62**, 45.  
*AAVSO Nova Search Report*, George Diedrich, **62**, 48.  
*Miscellaneous Notes on Peculiarities Observed in the AAVSO Light Curves During 1967*, Margaret W. Mayall, **62**, 93.  
*AAVSO Nova Search Report*, George Diedrich, **62**, 96.  
*Notes on U Geminorum-Type Variables During 1967*, Margaret W. Mayall, **62**, 141.  
*AAVSO Nova Search Report*, George Diedrich, **62**, 143.  
*The Novae of 1967-1968*, Margaret W. Mayall, **62**, 201.  
*AAVSO Nova Search Report*, George Diedrich, **62**, 204.  
*Variable Star Notes*, Margaret W. Mayall, **62**, 265.  
*AAVSO Nova Search Report*, George Diedrich, **62**, 267.  
*Variable Star Notes*, Margaret W. Mayall, **62**, 395.  
*AAVSO Nova Search Report*, George Diedrich, **62**, 396.  
*Variable Star Notes*, Margaret W. Mayall, **63**, 53.  
*AAVSO Nova Search Report*, George Diedrich, **63**, 56.  
*Remarks on Some Peculiarities Noticed in the AAVSO Light Curves for 1968*, Margaret W. Mayall, **63**, 101.  
*AAVSO Nova Search Report*, George Diedrich, **63**, 104.  
*Notes on U Geminorum-Type Variables During 1968*, Margaret W. Mayall, **63**, 173.  
*AAVSO Nova Search Report*, George Diedrich, **63**, 174.  
*Variable Star Notes*, Margaret W. Mayall, **63**, 221.  
*AAVSO Nova Search Report*, George Diedrich, **63**, 223.  
*Variable Star Notes*, Margaret W. Mayall, **63**, 271.  
*AAVSO Nova Search Report*, George Diedrich, **63**, 273.  
*Variable Star Notes*, Margaret W. Mayall, **63**, 321.  
*AAVSO Nova Search Report*, George Diedrich, **63**, 324.  
*Variable Star Notes*, Margaret W. Mayall, **64**, 69.  
*Remarks on Some Peculiarities Noticed in the AAVSO Light Curves for 1969*, Margaret W. Mayall, **64**, 117.  
*AAVSO Nova Search Report*, George Diedrich, **64**, 120.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1969*, Margaret W. Mayall, **64**, 205.  
*Variable Star Notes*, Margaret W. Mayall, **64**, 263, 327.  
*U Canis Majoris*, Margaret W. Mayall, **64**, 383.  
*Variable Star Notes*, Margaret W. Mayall, **65**, 45.  
*Notes on Peculiarities in AAVSO Light Curves During 1970*, Margaret W. Mayall, **65**, 93.  
*Notes on U Geminorum and Z Camelopardalis Variables During 1970*, Margaret W. Mayall, **65**, 141.  
*Variable Star Notes*, Margaret W. Mayall, **65**, 191.  
*U Geminorum*, Margaret W. Mayall, **65**, 247.  
*A Short Period Variable with Changing Period*, Margaret W. Mayall, **65**, 307.  
*Variable Star Notes*, Margaret W. Mayall, **66**, 79.  
*Notes on Peculiarities in AAVSO Light Curves During 1971*, Margaret W. Mayall, **66**, 131.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1971*, Margaret W. Mayall, **66**, 179.  
*RY Sagittarii*, Margaret W. Mayall, **66**, 233.  
*Variable Star Notes*, Margaret W. Mayall, **66**, 285, 325.  
*Notes of Peculiarities in AAVSO Light Curves During 1972*, Margaret W. Mayall, **67**, 101.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1972*, Margaret W. Mayall, **67**, 157.  
*Variable Star Notes*, Margaret W. Mayall, **67**, 213.  
*RV Pegasi*, Janet Akyüz Mattei, **67**, 269.  
*Variable Star Notes*, Margaret W. Mayall, **67**, 271.



*XZ Andromedae* — *A Short Period Variable*, Marvin E. Baldwin, **67**, 325.  
*Variable Star Notes*, Janet Akyüz Mattei, **68**, 48.  
*Notes on Peculiarities on AAVSO Light Curves in 1973*, Janet Akyüz Mattei, **68**, 112.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1973*, Janet Akyüz Mattei, **68**, 169.  
*Variable Star Notes*, Janet Akyüz Mattei, **68**, 221, 281.  
*AAVSO Nova Search Committee*, Carmine V. Borzelli, Jr., **68**, 337.  
*Variable Star Notes*, Janet Akyüz Mattei, **69**, 53.  
*Notes on Peculiarities on AAVSO Light Curves in 1974*, Janet Akyüz Mattei, **69**, 101.  
*Notes on U Geminorum and Z Camelopardalis Variables During 1974*, Janet Akyüz Mattei, **69**, 149.  
*Variable Star Notes*, Janet Akyüz Mattei, **69**, 201, 261.  
*Nova Aquilae (V101 Aql); Nova Scuti (V373 Sct); Nova Cygni (V1500 Cyg)*, Janet Akyüz Mattei, **69**, 319.  
*Notes on Peculiarities on AAVSO Light Curves in 1975*, Janet Akyüz Mattei, **70**, 93.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1975*, Janet Akyüz Mattei, **70**, 209.  
*The Symbiotic Star — CI Cygni*, Janet Akyüz Mattei, **70**, 325.  
*The Recent Activities of R Corona Borealis and SU Tauri*, Janet Akyüz Mattei, **70**, 327.  
*Notes on Peculiarities on AAVSO Light Curves in 1976*, Janet Akyüz Mattei, **71**, 217.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1976*, Janet Akyüz Mattei, **71**, 343.  
*Visual Observations of  $\theta$ 1 Orionis A*, Marvin E. Baldwin & Janet A. Mattei, **71**, 475.  
*The Symbiotic Star — Z Andromedae*, Janet Akyüz Mattei, **72**, 61.  
*NQ Vulpeculae (Nova Vulpeculae 1976)*, Janet Akyüz Mattei, **72**, 178.  
*Notes on the Behaviour of SS Cygni and U Geminorum During 1977, and Some Light Curves from AAVSO Report 38/39*, Janet Akyüz Mattei, **72**, 301.  
*Nova Serpentis 1978 and the Minimum of R Corona Borealis During 1978*, Janet Akyüz Mattei, **73**, 50.  
*R Aquarii — A Unique Long-Period Variable*, Janet Akyüz Mattei, **73**, 173.  
*The Eclipsing Binary Star — V342 Aquilae*, Marvin E. Baldwin, **73**, 320.  
*The 1978 Outburst of the Cataclysmic Variable WZ Sagittae*, Janet Akyüz Mattei, **74**, 53.  
*V1668 Cygni (Nova Cygni 1978)*, Janet Akyüz Mattei, **74**, 185.  
*Optical Behaviour of SS Cygni in 1978 and 1979*, Janet Akyüz Mattei, **74**, 317.  
*The AAVSO Variable Star Atlas*, Charles C. Scovil, **75**, 164.

## Victoria Centre

*Victoria Centre Telescope Making*, E. E. Bridgen, NN, **66**, 31.  
*Activities at the Centre: Victoria*, E. E. Bridgen, NN, **67**, 23.  
*Activities of the Centres: Victoria*, E. E. Bridgen, NN, **68**, 19.

*The Royal Astronomical Society of Canada Victoria Centre Presents Travelling Observatory Project*, Leo Vander Byl, NN, **74**, 90.  
*Activities in the Centres: Sixty-Seven Years of RASC Victoria*, Muriel J. Enock, **75**, 329.  
*Victoria Was the One in June of '81*, Muriel Enock, NN, **75**, 50.  
*RASC Centres Mark Astronomy Day*, NN, **76**, 39.  
*Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.  
*Centre News*, Peter Jedicke, NN, **77**, 10.  
*Mobile in British Columbia*, Muriel Enock, NN, **77**, 29.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Peter Jedicke, NN, **78**, 24.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59, 89.  
*Across the RASC*, NN, **79**, 11, 30, 43, 57, 90.  
*Across the RASC*, NN, **80**, 11, 26, 44, 77.  
*Across the RASC*, Betty Robinson, NN, **80**, 89.  
*Across the RASC*, NN, **81**, 5, 24, 61, 84.  
*Across the RASC*, NN, **82**, 27, 38, 53.  
*Victoria Retrospective*, Alice Newton, NN, **82**, 66.  
*Astronomical Conference — Victoria 1988*, Mary Anne Harrington, NN, **82**, 68.  
*Across the RASC*, NN, **82**, 83.  
*Across the RASC*, NNB, **83**, 15, 25, 90.  
*Across the RASC*, NNB, **84**, 4, 20, 36, 60, 90.  
*Across the RASC*, B, **1**, 3, 6.  
*Across the RASC*, B, **2**, 1, 7.  
*Across the RASC*, B, **2**, 2, 2.  
*Across the RASC*, B, **2**, 2, 7.  
*Across the RASC*, B, **2**, 4, 4.  
*Across the RASC*, B, **3**, 1, 5.  
*Centre Reports*, Bill Almond, B, **3**, 2, 18.  
*National and Centre Councils for 1993*, B, **3**, 2, 29.  
*Centre Finances*, B, **3**, 2, 31.  
*Centre Reports*, B, **4**, 2, 20.  
*National and Centre Councils for 1994*, B, **4**, 2, 33.  
*Center Finances*, B, **4**, 2, 35.  
*Centre Reports*, B, **5**, 2, 16.  
*National and Centre Councils for 1995*, B, **5**, 2, 25.  
*Centre Finances*, B, **5**, 2, 27.  
*Centre Reports*, Bill Almond, B, **6**, 2, 18.  
*National and Centre Councils for 1996*, B, **6**, 2, 29.  
*Centre Finances*, B, **6**, 2, 31.

## Windsor Centre

*Activities at the Centre: Windsor*, Henry Lee, NN, **67**, 20.  
*Activities of the Centres: Windsor*, Henry Lee, NN, **68**, 18.  
*Across the RASC*, Ian McGregor, NN, **77**, 78.  
*Across the RASC*, Ian McGregor, NN, **78**, 6.  
*Across the RASC*, Peter Jedicke, NN, **78**, 42.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59, 89.  
*Across the RASC*, NN, **79**, 11, 30, 43, 57, 75, 90.  
*Across the RASC*, NN, **80**, 26.  
*Across the RASC*, NN, **81**, 61, 68, 84.  
*Across the RASC*, NN, **82**, 9, 27, 38, 53, 70, 83.  
*Across the RASC*, NNB, **83**, 15, 25, 37, 90.  
*Across the RASC*, NNB, **84**, 4, 76.  
*Across the RASC*, B, **1**, 3, 6.

*Across the RASC*, B, **2**, 2, 7.  
*Centre Reports*, C. Joady Ulrich, B, **3**, 2, 18.  
*National and Centre Councils for 1993*, B, **3**, 2, 29.  
*Centre Finances*, B, **3**, 2, 31.  
*Across the RASC*, B, **3**, 5, 3.  
*Centre Reports*, C. Joady Ulrich, B, **4**, 2, 21.  
*National and Centre Councils for 1994*, B, **4**, 2, 33.  
*Centre Finances*, B, **4**, 2, 35.  
*Centre Reports*, C. Joady Ulrich, B, **5**, 2, 16.  
*National and Centre Councils for 1995*, B, **5**, 2, 25.  
*Centre Finances*, B, **5**, 2, 27.  
*Centre Reports*, C. Joady Ulrich, B, **6**, 2, 19.  
*National and Centre Councils for 1996*, B, **6**, 2, 29.  
*Windsor Council for 1995*, B, **6**, 3, 2.  
*Centre Finances*, B, **6**, 2, 31.  
*Centre Finances*, B, **6**, 3, 2.  
*Activities*, B, **6**, 2, 32.

## **Winnipeg Centre**

*Eclipse-72 Over the Northwest Territories*, John Scatliff, NN, **66**, 28.  
*A New Home for Winnipeg Centre*, Ella Dack, NN, **66**, 31.  
*A Delayed Annual Report*, A. Luchik, NN, **66**, 33.  
*History of the Winnipeg Centre*, NN, **67**, 9.  
*Activities at the Centre: Winnipeg*, Del Stevens, NN, **67**, 21.  
*Joint Meeting: Royal Astronomical Society of Canada and American Association of Variable Star Observers*, Richard Bochonko, NN, **67**, 29.  
*General Assembly at Winnipeg, June 28-July 1, 1974: RASC-AAVSO Joint Meeting*, Marie Fidler, NN, **68**, 21.  
*Winnipeg Centre Observatory*, NN, **71**, 61.  
*From Telescope to Observatory*, Gregory E. Bailey, NN, **71**, 72.  
*Gathering the History of a Centre*, Ella Dack, NN, **72**, 20.  
*Earned Acknowledgment*, NN, **73**, 30.  
*A Setback But Not a Disaster*, Del Stevens & Phyllis Belfield, NN, **73**, 46.  
*Glenlea Observatory Officially Reopens*, NN, **74**, 30.  
*MASCON 1981*, NN, **76**, 12.  
*RASC Centres Mark Astronomy Day*, NN, **76**, 39.  
*Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.  
*Centres Arrange Summer Observing Sessions*, Peter Jedicke, NN, **76**, 74.  
*Winter Activities of RASC Centres*, Peter Jedicke, NN, **77**, 20.  
*Across the RASC*, Peter Jedicke, NN, **78**, 73.

*Across the RASC*, NN, **79**, 30, 90.  
*Across the RASC*, NN, **80**, 11, 26, 44, 52.  
*International Astronomy Day*, Len Gamache, NN, **80**, 60.  
*The 1986 General Assembly*, Mary Anne Harrington, NN, **80**, 69.  
*Across the RASC*, NN, **80**, 77.  
*Across the RASC*, NN, **81**, 24, 42, 61, 84.  
*Across the RASC*, NN, **82**, 9, 53.  
*Across the RASC*, NNB, **83**, 15, 25.  
*Is Your Computer Sleeping?*, Chris Brown, NNB, **83**, 32.  
*Across the RASC*, NNB, **84**, 20, 90.  
*Centre Reports*, Gilbert Raineault, B, **3**, 2, 19.  
*National and Centre Councils for 1993*, B, **3**, 2, 29.  
*Centre Finances*, B, **3**, 2, 31.  
*Centre Reports*, Gilbert Raineault, B, **4**, 2, 21.  
*National and Centre Councils for 1994*, B, **4**, 2, 33.  
*Centre Finances*, B, **4**, 2, 35.  
*Centre Reports*, Crandell C. Overton, B, **5**, 2, 17.  
*Centre Finances*, B, **5**, 2, 27.  
*Centre Reports*, Crandel Overton, B, **6**, 2, 20.  
*National and Centre Councils for 1996*, B, **6**, 2, 29.  
*Centre Finances*, B, **6**, 2, 31.

## **X-Rays: General**

*X-Rays in Astronomy*, Ian Halliday, **61**, 43.  
*Cosmic Rays and Cosmic X-Rays*, James E. Felton, **64**, 33, 73.

## **X-Rays: Interstellar Medium**

*Einstein Spectral and Imaging Observations of the Supernova Remnant MSH 14-63*, Denis A. Leahy, **90**, 128.

## **X-Rays: Stars**

*The Orbit and Nature of  $\theta^2$  Orionis A*, G. C. L. Aikman & B. A. Goldberg, **68**, 205.  
*Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.  
*Sirius B: Une Naine Blanche Encore Meconnue*, F. Wesemael & G. Fontaine, **76**, 35.  
*Searching for Black Holes*, David Crampton, J. B. Hutchings & A. P. Cowley, **77**, 103.

## **Young Astronomers**

*My Radio Telescope*, Bob Drury, **89**, 72.

# AUTHOR INDEX

## A

- Abhyankar, K. D., *A New Society*, NN, **67**, 14.
- Abraham, Roberto, *My Observatory: All Good Things Take Time*, NN, **76**, 7.  
*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J., Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Abt, Helmut A., *Introductory Remarks on Spectroscopic Parameters*, **67**, 73.
- Ahern, Francis J., *Modern Instrumentation for Optical Astronomy*, **68**, 99.
- Aikman, G. Christopher L., *The Orbit and Nature of  $\theta$  Orionis A*, G. C. L. Aikman & B. A. Goldberg, **68**, 205.  
*The Second STARLAB Joint Science Working Group Meeting*, Christopher Aikman, David Crampton & James E. Hesser, **76**, 209.  
*Dr. Joseph Pearce*, NN, **76**, 34.  
*The Eighteenth General Assembly of the International Astronomical Union at Patras, Greece, August 17-26, 1982*, **77**, 1.  
*The Purcell Mountains Meteorite*, NN, **77**, 64.  
*Fifteenth Meeting of the Canadian Astronomical Society Held in Ottawa, June 4-7 1984*, **78**, 197.  
*Sixteenth Meeting of the Canadian Astronomical Society Held in Toronto, May 27-31, 1985*, **79**, 228.  
*The 1986 Annual Meeting of the Canadian Astronomical Society Held in Penticton, June 9-13*, **80**, 264.  
*A Joint Meeting of the Canadian and American Astronomical Societies Held in Vancouver, June 14-19, 1987*, **81**, 161.  
*The 1988 Annual Meeting of the Canadian Astronomical Society*, **82**, 271.  
*The Daylight Fireball of January 20, 1988*, G. C. L. Aikman, P. F. Younger & D. H. Weichert, **83**, 232.  
*The 24th Annual Meeting of the Canadian Astronomical Society*, G. Christopher L. Aikman, Dennis R. Crabtree, Ann C. Gower, James E. Hesser, Christopher J. Pritchett & Russell M. Robb, **87**, 271.
- Aker, Sherri, *Radio Astronomy Rediscovered*, Sherri Aker & William P. Lonc, **81**, 65.
- Allaire, Denis, *Centre de Québec*, NN, **68**, 11.
- Allcock, John, *Activities in Montreal*, NN, **67**, 10.
- Allen, Rob L., *Bends-O-Mania*, NN, **77**, 30.
- Aller, Lawrence H., *The Visual and Near-Infrared Spectra of Planetary-Nebulae Nuclei*, **71**, 67.
- Almond, Bill, *Victoria Centre Report*, B, **3**, 2, 18.  
*Victoria Centre Report*, B, **6**, 2, 18.
- Anand, S. P. S., *On the Angular Momenta of Stars, Planets and Asteroids*, G. G. Fahlman & S. P. S. Anand, **63**, 36.  
 see Reviews, **65**, 305.  
 see Reviews, **66**, 129.
- Ananthasubramaniam, C. K., *The Madras Observatory, 1792-1931*, **85**, 97.  
*The Madras Observatory, 1792-1931*, **85**, 223.  
*The Madras Observatory, 1792-1931*, **88**, 170.
- Anderson, Jay, *Chasing the Monsoon Eclipse*, NN, **75**, 30.  
*Two Eclipses Visible from a Geostationary Weather Satellite*, **81**, 83.  
*Eclipse Weather: The March 1988 Total Solar Eclipse*, NN, **81**, 18.  
 see Reviews, **89**, 40.
- Anderson, Per H., *Subdwarfs*, **65**, 119.  
 see Reviews, **78**, 170.
- Andrew, B. H., *Astronomy Section of the HIA*, **70**, 200.
- Armstrong, Dale, *Starfest '85*, NN, **79**, 73.  
*Starfest '92*, B, **2**, 6, 6.  
*Starfest '93 — The CCD Arrives*, B, **3**, 6, 8.
- Armstrong, H. L., *Black Holes Over Fifty Years Ago*, **72**, 338.  
*How Sure Are We?*, **73**, 313.  
*Swift and the Satellites of Mars*, **77**, 54.  
 see Review, **79**, 44.
- Arsenault, R., *Une Systeme Modulaire D'Interferometrie de Fabry-Perot Pour L'Imagerie et la Spectrometrie*, J.-R. Roy, R. Arsenault, R. Bisson & G. Joncas, **76**, 277.
- Ashenhurst, Peter H., *Kenneth Edward Chilton, 1939-1976*, **71**, 195.  
*Newsletters from the Various RASC Centres*, June LoGuirato & Peter H. Ashenhurst, NN, **71**, 40.
- Atchison, Kevin, *Saskatoon Centre Active*, NN, **74**, 24.
- Attas, Micheal, *The Many-Body Problem*, B, **2**, 4, 5.
- Attwood, J. Randy, *Totality at Voi*, NN, **74**, 69.  
*Astronomy Toronto*, NN, **75**, 46.  
*Astronomy Toronto: An Update*, NN, **77**, 42.  
 see Reviews, **78**, 224.  
 see Reviews, **78**, 225.  
*NFCAAA Meeting Report*, NN, **78**, 60.  
*Totality in Hula*, NN, **79**, 26.  
*A Special Night of Observing*, NN, **79**, 79.  
*1988 Solar Eclipse Expedition*, NN, **81**, 60.  
*Astronomy Toronto — Astronomy on Cable Television*, **82**, 85.  
*Totality in the Philippines*, NN, **82**, 77.
- Auclair, Raymond, see Reviews, **75**, 218.  
*Une Opinion Personelle Suite au Sondage des Membres (Canadiens) Independants*, NN, **75**, 8.  
*Navigation vs. Astronomie*, NN, **75**, 23.  
*Personal Opinions on the Survey of (Canadian) Unattached Members*, NN, **75**, 35.  
 see Reviews, **77**, 279.  
*A Future Centre?*, NN, **78**, 78.  
 see Reviews, **82**, 365.  
*A Tour of Soviet Astronomy, and Hospitals?*, NNB, **83**, 31.  
*J'ai Mon Voyage*, NNB, **83**, 43.  
*Society Objectives*, B, **5**, 5, 1.
- Auman, Jason R., *The Meeting of the National Committee for Canada of the IAU at Vancouver, May 2-3, 1969*, Jason R. Auman & V. Gaizauskas, **63**, 207.
- Avery, Lorne W., *Predictions of Local Circumstances Across*

*Canada of the Total Solar Eclipse of July 10, 1972*, V. Gaizauskas, L. W. Avery & F. D. Manning, **65**, 107.  
*Orbital Data for Comet Kohoutek (1973f)*, NN, **67**, 25.  
*Total Solar Eclipses in Canada: 1963-2024 AD*, V. Gaizauskas & L. W. Avery, **70**, 135.  
*Twenty-Second Meeting of the NRC Associate Committee on Astronomy*, **76**, 139.

## B

Babott, R. M., *Data Acquisition at the RAO: Light Curves from the Optical and Infrared Telescopes*, E. F. Milone, T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J. E. Penfold, K. G. Robinson, A. R. Taylor & J. Van Leeuwen, **83**, 317.  
 Badger, Joan, *MASCON '83*, NN, **77**, 94.  
 Bailey, Gregory E., *From Telescope to Observatory*, NN, **71**, 72.  
 Baker, Derek, *Niagara Frontier Amateurs Meet*, NN, **77**, 56.  
*Charting a Course for the Society's Future — I*, B, **2**, 6, 1.  
*Charting a Course for the Society's Future — II: Defining the Amateur's Needs*, B, **3**, 1, 1.  
*Charting a Course for the Society's Future — III: The Society Today*, B, **3**, 3, 1.  
*Charting a Course for the Society's Future — IV: The Society of the Future?*, B, **3**, 4, 1.  
 Baker, Sally, *Vancouver Centre Report*, B, **3**, 2, 17.  
 Bakos, Gustav A., *Abundances of Heavy Elements in Late-Type Stars*, **65**, 222.  
*Abundances of Elements in Late-Type Stars*, **65**, 303.  
*Photoelectric Observations of Comet Bennett*, **67**, 183.  
*The Eclipsing Binary EM Cephei*, Gustav A. Bakos & Jozef Tremko, **69**, 307.  
*U Cephei and Its Outbursts in 1969 and 1974*, Gustav A. Bakos & Jozef Tremko, **71**, 234.  
*A Photometric Study of the Am Binary System AN Andromedae*, Jozef Tremko & Gustav A. Bakos, **72**, 263.  
*Variations of the Light Curve of the Eclipsing Binary EM Cephei*, Jozef Tremko & Gustav A. Bakos, **74**, 321.  
*History of U Coronae Borealis — A Sequel*, Gustav A. Bakos & Jozef Tremko, **75**, 124.  
*The Quadruple System HR 3337*, **79**, 119.  
*The Semiregular Variable 57 Pegasi*, J. Tremko & G. A. Bakos, **80**, 230.  
 Balam, David D., see Reviews, **83**, 347.  
*The Anti-Tail of Periodic Comet Machholz 1986 VIII*, J. B. Tatum, D. D. Balam & T. B. Lowe, **85**, 91.  
*The Light Curves of the Asteroids (198) Ampella, (481) Erita and (772) Tanete*, Larry Bogan, Russell Robb & D. D. Balam, **88**, 55.  
 Baldock, Chris, *A Constructive Approach to Sexism*, B, **3**, 6, 3.  
 Baldwin, Barrow W., *Observations of Circumstellar Matter in the Eclipsing Binary U Cephei*, **66**, 218.  
 Baldwin, Marvin E., *XZ Andromedae — A Short Period Variable*, **67**, 325.  
*Visual Observations of  $\theta$ 1 Orionis A*, Marvin E. Baldwin & Janet A. Mattei, **71**, 475.  
*The Eclipsing Binary Star — V342 Aquilae*, **73**, 320.  
 Baldwin, Ralph B., *A Possible Giant Astrobleme on the North Shore of Canada at the Cretaceous-Tertiary Boundary*,

**83**, 377.  
*Correspondence*, **90**, 341.  
 Baliunas, Sallie L., see Reviews, **79**, 327.  
 Ball, George R., *International Union of Amateur Astronomers*, NN, **73**, 42.  
*The Double Star Sirius*, NN, **73**, 53.  
 Bally, J., *A 408-MHz Radio Survey of the Region Surrounding Simeis 57*, L. A. Higgs, T. L. Landecker, F. P. Israel & J. Bally, **85**, 24.  
 Barlow, D. J., *A Time of Minimum for HD 217312*, C. D. Scarfe & D. J. Barlow, **68**, 96.  
*Coudé Radial Velocities of  $\zeta$  Herculis*, C. D. Scarfe, H. Funakawa, P. A. Delaney & David J. Barlow, **77**, 126.  
 Barnes, Bruce, *Lunar Eclipse of July 16-17*, NN, **75**, 71.  
 Barnes, Thomas, *Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Remage & Vicki Watt, **61**, 339.  
 Barnes, III, T. G., *HR 9053: A Lightly Reddened G Supergiant*, Nancy Remage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.  
 Barrett, Anthony A., see Reviews, **67**, 30.  
*Aristotle and Averted Vision*, **71**, 327.  
*Observations of Comets in Greek and Roman Sources Before A. D. 410*, **72**, 81.  
*Scorpius or Scorpio?*, NN, **73**, 44.  
*A Recently Discovered Letter From Sir William Herschel to Sir William Hamilton*, **77**, 167.  
*The Star of Bethlehem: Some Historical Considerations*, NN, **77**, 82.  
 see Reviews, **78**, 90.  
*The Star of Bethlehem: A Postscript*, NN, **78**, 23.  
 Barrington, R. E., see Reviews, **61**, 97.  
 Basu, D., *Relative Positions of Radio Sources on the Solar Disk at 2800 MHz and 408 MHz*, **64**, 90.  
 Bates, Matthew, *Orbital Elements for the Double-Line Spectroscopic Binaries HD 104451 and HD 141458*, C. T. Bolton, Matthew Bates & Roel Hurkins, **77**, 18.  
 Batten, Alan H., *Dominion Astrophysical Observatory*, **61**, 93.  
 see Reviews, **61**, 154.  
*Of Stars and the Galaxy*, **61**, 241.  
*Dominion Astrophysical Observatory*, **61**, 345.  
*Dominion Astrophysical Observatory*, **62**, 81.  
*Understanding Spectroscopic Binaries*, **62**, 344.  
*Dominion Astrophysical Observatory*, **62**, 385.  
*Dominion Astrophysical Observatory*, **63**, 99.  
*Dominion Astrophysical Observatory*, **63**, 267.  
*Dominion Astrophysical Observatory*, **64**, 108.  
*A Model for U Cephei*, **66**, 219.  
*Truth, Science, and Language*, **68**, 285.  
*Symposium in Honour of Dr. K. O. Wright*, **71**, 65.  
*The Struves of Pulkovo — A Family of Astronomers*, **71**, 345.  
*From the National President*, NN, **71**, 15.  
*National President's Report*, NN, **71**, 48.  
*J. F. Heard Fund*, NN, **71**, 59.  
*Whither Leads Urania?*, **72**, 241.  
*Science Fair*, NN, **72**, 8.  
*The National Secretary*, NN, **72**, 15.  
*Editorial*, **75**, 1.

- Aristarchos of Samos*, **75**, 29.  
*Meeting of the NRC Associate Committee on Astronomy*, **75**, 113.  
*How Far Away Are the Hyades?*, **75**, 152.  
*The Masses of the Stars*, **75**, 215.  
*Editorial*, **75**, 277.  
*Twenty-First Meeting of the NRC Associate Committee on Astronomy*, **75**, 259.  
 see Reviews, **76**, 67.  
*The Saros Period and Halley's Comet*, **76**, 258.  
*Twenty-Third Meeting of the NRC Associate Committee on Astronomy*, **76**, 327.  
*A Recent Valuable Acquisition by the Library of the Dominion Astrophysical Observatory*, **76**, 382.  
 see Reviews, **77**, 59.  
*The Barr Effect*, **77**, 95.  
*Revised Orbital Elements for the Spectroscopic Binary HD 92000 (36 Leo Minoris)*, A. H. Batten, J. M. Fletcher & Robert D. McClure, **77**, 241.  
 see Reviews, **77**, 347.  
*Our New Look*, **78**, 1.  
*Astronomers and Creationism*, **78**, 32.  
*Friedrich Wilhelm Bessel — A Bicentenary*, **78**, 133.  
 see Reviews, **79**, 150.  
*Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.  
 see Reviews, **79**, 266.  
 see Reviews, **79**, 322.  
*Editorial*, **80**, 61.  
*The IAU Meeting in India*, **80**, 121.  
 see Reviews, **80**, 158.  
 see Reviews, **80**, 301.  
*Editorial*, **81**, 1.  
*Editorial*, **81**, 25.  
 see Reviews, **81**, 71.  
*Editorial*, **81**, 73.  
*Joseph von Fraunhofer*, **81**, 106.  
*Michael William Ovenden*, **81**, 109.  
*Astronomy (and Some Other Things) in China*, **81**, 147.  
*Editorial*, **81**, 183.  
 see Reviews, **82**, 40.  
 see Reviews, **82**, 42.  
 see Reviews, **82**, 89.  
*Editorial*, **82**, 307.  
*The Frequency of Multiple Stellar Systems*, A. H. Batten & J. M. Fletcher, **83**, 289.  
 see Reviews, **83**, 337.  
*Some Properties of the Population of Known Spectroscopic Binary Stars*, J. M. Fletcher & A. H. Batten, **84**, 44.  
*Dorpat and Pulkova: An Astronomer's Pilgrimage*, **84**, 253.  
*Argelander and the Bonner Durchmusterung*, **85**, 43.  
*Johann Franz Encke, 1791-1865*, **85**, 316.  
*A New Spectroscopic Orbit for Delta Capricorni*, A. H. Batten & J. M. Fletcher, **86**, 99.  
*Johann Franz Encke, 1791-1865*, **86**, 112.  
*Spectroscopic Orbit Elements for the A-Type Binary HD 208509*, Douglas P. Hube & Alan H. Batten, **86**, 259.  
*A New Spectroscopic Orbit for Delta Capricorni*, A. H. Batten & J. M. Fletcher, **86**, 269.  
*In the Best Possible Way*, B, **3**, 3, 2.  
*Astronomy in the Third World*, **88**, 163.  
*A Telescope for Viet Nam*, B, **4**, 3, 2.  
 see Reviews, **89**, 84.  
*A Telescope for Viet Nam*, **89**, 122.  
 Baum, Richard, *Suspected Brightening of the Venus North Polar Cloud*, B, **2**, 2, 4.  
 Bax, Jeff, *Another Look at the Delta Scuti Star FM Comae*, Jeff Bax, William H. Wehlauf & Steve Sharpe, **89**, 245.  
 Bayrock, L. A., *Vilna Meteorite — Camera, Visual, Seismic and Analytic Records*, R. E. Folinsbee, L. A. Bayrock, G.L. Cumming & D. G. W. Smith, **63**, 61.  
 Beach, Greg, *Hello Canada!*, NN, **79**, 61.  
 Beals, C. S., *Impact Craters of the Earth and Moon*, C. S. Beals & Ian Halliday, **61**, 295.  
*Early Days at the Dominion Astrophysical Observatory*, **62**, 298.  
*The Uneasy Equilibrium of Our Physical Universe*, **64**, 339.  
*William Elgin Van Steenburgh, 1899-1974*, **69**, 35.  
*On the Age of Mare Orientale*, C. S. Beals & R. W. Tanner, **69**, 299.  
*Ernest Atkinson Hodgson, 1886-1975*, **70**, 84.  
*Events Interpreted as Volcanic, Associated With the Impact Craters Gagarin and Aitken on the Lunar Farside*, C. S. Beals & R. W. Tanner, **72**, 3.  
 Beaton, Doug, *A Test of Three Films*, NN, **69**, 14.  
 Beattie, Brian, *The 6-Inch Cooke Refractor in Toronto*, **76**, 109.  
*The University of Toronto Southern Observatory: A Discussion of Productivity, 1979-1986*, R. F. Garrison & Brian Beattie, **84**, 246.  
*A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 151.  
*A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 344.  
 Beaudet, Gilles, *Nucleosynthesis and Stellar Evolution*, Gilles Beaudet & M. Tassoul, **66**, 221.  
*Les Éléments dans L'Univers*, **70**, 247.  
 Bednarek, T. A., see Reviews, **64**, 377.  
 Beech, Martin, see Reviews, **81**, 21.  
*On Meteors and Mushrooms*, **81**, 27.  
*Millet's Shooting Stars*, **82**, 349.  
*William Frederick Denning: In Quest of Meteors*, **84**, 383.  
*Escher's Stars*, **86**, 169.  
 see Reviews, **89**, 125.  
 Belcher, Dave, *Buying Your First Telescope*, NN, **74**, 53.  
 Belfield, Phyllis, *Space Odyssey*, NN, **73**, 5.  
*A Setback But Not a Disaster*, Del Stevens & Phyllis Belfield, NN, **73**, 46.  
 Belfield, Roy, *Mars Photographed at 1971 Opposition*, NN, **72**, 28.  
 Bellemare, Pierre M., *Meteorite Sparks a Cult*, **90**, 287.  
 Bengé, R., *A 3.8-4.2 GHz Solar Radio Telescope Using Satellite TV Components*, James A. Roberts, J. Hajsaleh & R. Bengé, **88**, 233.  
 Bennett, Philip D., *A Survey of Possible Observatory Sites in Southwestern British Columbia*, Paul Hickson & Philip

- D. Bennett, **83**, 122.
- Berezowski, Patricia, *Perseid Meteor Shower*, NN, **72**, 86.
- Bergeron, P., *Évolution de L'Abondance Chimique de Surface des Étoiles Naines Blanches Froides de Type DA*, **86**, 309.
- Bernier, Jean Pierre, *Rapport du Président*, NN, **69**, 55.
- Bernstein, Louie, *Some Thoughts on Montreal Centre's 70<sup>th</sup> Anniversary*, NNB, **83**, 4.
- What is Heaven? A Personal Perspective*, B, **1**, 4, 1.
- The Eyes Have It*, B, **2**, 3, 1.
- Is the Universe Conscious?*, B, **3**, 1, 1.
- Montréal Centre Report*, B, **3**, 2, 11.
- Berry, Richard L., *Polaroid Film in Undergraduate Astronomical Photography*, K. A. Innanen, C. R. Purton, R. Berry & W. G. Weller, **66**, 157.
- An Evaluation of Cameras for Photographing Stars*, NN, **66**, 5.
- Getting More Out of Your Astrophotos*, NN, **67**, 31.
- Light Pollution Programme*, NN, **68**, 31.
- Mounting Design for Amateur Telescopes*, NN, **69**, 35.
- Light Pollution in Southern Ontario*, **70**, 97.
- Berrys, Heinz, *Closed Captions?*, B, **4**, 1, 2.
- Bhalerao, Sudhakar, *Mirrors Wanted*, B, **2**, 2, 2.
- Bidelman, William P., see Reviews, **76**, 270.
- Bietenholz, Michael, see Reviews, **77**, 268.
- Bigelow, Paul, *Binocular Testing*, NN, **81**, 71.
- Biggs, Stephen, *Little More Than Orange Juice*, B, **4**, 4, 2.
- Biggs, Steven, *Letter to the Editor*, **90**, 95.
- Bird, Bonnie, *New Executive Secretary*, B, **6**, 5/6, 3.
- Bishop, Bob, *Thunder Bay Centre Report*, B, **4**, 2, 17.
- Bishop, R. C., *Thunder Bay Centre Report*, B, **5**, 2, 14.
- Bishop, Roy L., *Observing a Synchronous Satellite*, NN, **69**, 5.
- The Many Merits of Modest Magnification*, NN, **70**, 36.
- Stars and Pseudostars*, NN, **70**, 77.
- Refractor vs. Reflector*, NN, **70**, 83.
- An Eighteenth Century Nova Scotia Observatory*, **71**, 425.
- The Telescope Number, T*, NN, **71**, 24.
- What Price Infinity?*, NN, **71**, 27.
- Nova S-1, A Black Hole Confirmed*, NN, **71**, 68.
- Joseph Everett and the King's College Observatory*, **72**, 138.
- Cyclopean Astronomy and an Unusual Atlas*, **73**, 147.
- Beta Tritium*, NN, **73**, 22.
- Eclipse From Above*, NN, **73**, 31.
- The Time Machine*, NN, **73**, 52.
- Whence Energy?*, **74**, 163.
- Reflections of Reality*, NN, **74**, 2.
- In Praise of the Hooker*, NN, **75**, 40.
- Corrigenda: Observer's Handbook 1982*, NN, **76**, 2.
- A Special Visitor to Black Hole*, NS, NN, **76**, 8.
- Four Years and Counting*, NN, **76**, 20.
- Apollo 17 — A Personal Reflection*, NN, **76**, 60.
- N. F. B. Astronomy Films*, **79**, 23.
- A New NFB Astronomy Film*, **79**, 264.
- Telescopes for Students*, **80**, 211.
- What We Bring We Find*, **80**, 224.
- The William Herschel Society and the RASC*, NN, **80**, 19.
- The Montagnais Impact Structure*, NN, **81**, 10.
- Voyager: An Electronic Universe*, **83**, 331.
- see Reviews, **85**, 141.
- see Reviews, **87**, 69.
- Why is it Hotter in the Summer Than in the Winter?*, **87**, 346.
- A Biased View of Membership Fees*, B, **3**, 1, 3.
- Education Notes 1977-94*, **89**, 33.
- Remembering Marie Fidler*, **90**, 98.
- see Reviews, **90**, 105.
- Bisson, R., *Une Systeme Modulaire D'Interferometrie de Fabry-Perot Pour L'Imagerie et la Spectrometrie*, J.-R. Roy, R. Arsenaault, R. Bisson & G. Joncas, **76**, 277.
- Blackwell, Alan T., *Meteor Showers*, NN, **65**, 22.
- The Pre-Discovery Observation of Nova Cygni 1975*, A. T. Blackwell, P. A. Feldman, A. A. Griffin & I. Halliday, **69**, 241.
- The Innisfree Meteorite and the Canadian Camera Network*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **72**, 15.
- Detailed Records of Many Unrecovered Meteorites in Western Canada For Which Further Searches are Recommended*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **83**, 49.
- Bland, C. J., see Reviews, **71**, 279.
- Bochonko, Richard, *Joint Meeting: Royal Astronomical Society of Canada and American Association of Variable Star Observers*, NN, **67**, 29.
- Ninth Meeting of the Canadian Astronomical Society at the University of Saskatchewan, Saskatoon, Saskatchewan, May 24-26, 1978*, **72**, 278.
- Tenth Meeting of the Canadian Astronomical Society at the University of British Columbia, Vancouver, British Columbia, May 23-25, 1979*, **73**, 294.
- Eleventh Meeting of the Canadian Astronomical Society Held at Saint Mary's University, Halifax, Nova Scotia, June 25-28, 1980*, **74**, 354.
- Twelfth Meeting of the Canadian Astronomical Society Held at Université Laval, Québec, Québec, May 27-29, 1981*, **75**, 243.
- Fourteenth Meeting of the Canadian Astronomical Society Held at the University of Victoria, June 26-30, 1983*, **77**, 253.
- Bogan, Larry, *The Light Curves of the Asteroids (198) Ampella, (481) Erita and (772) Tanete*, Larry Bogan, Russell Robb & D. D. Balam, **88**, 55.
- see Reviews, **89**, 234.
- Bois, Bernard, *The Ill-Fated Sept-Iles Observatory*, NN, **78**, 90.
- Bok, Bart J., *The Magellanic Clouds*, **63**, 105.
- Bolte, Michael, *Age Differences Between Globular Clusters*, **84**, 137.
- Bolton, C. T., *Spectral Variations of Algol*, **66**, 219.
- see Reviews, **69**, 198.
- see Reviews, **70**, 207.
- New Observations of HD 218154*, Jim Thomson & C. T. Bolton, **71**, 259.
- see Reviews, **73**, 231.
- see Reviews, **73**, 231.
- see Reviews, **74**, 49.
- see Reviews, **76**, 64.
- Orbital Elements for the Double-Line Spectroscopic Binaries HD 104451 and HD 141458*, C. T. Bolton, Matthew Bates & Roel Hurkins, **77**, 18.

- Light Pollution and Community Relations*, NN, **79**, 62.
- Bolton, Tom, *Dedication of the Helen Sawyer Hogg Observatory*, NNB, **84**, 3.
- Boltwood, Paul, *What About Setting Circles?*, B, **6**, 3, 2.
- Bond, J. R., *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Borkowski, Kazimierz M., *The Tropical Year and Solar Calendar*, **85**, 121.
- Borra, Ermanno F., *A Search for Density and Pressure Inversions in High-Temperature, Low-Gravity Model Atmospheres*, Ermanno F. Borra & Louis Fortier, **66**, 219.
- The Liquid-Mirror Telescope as a Viable Astronomical Tool*, **76**, 245.
- Borzelli, Jr., Carmine V., *AAVSO Nova Search Committee*, **68**, 337.
- Bosak, Susan V., *Star-Struck Students Win RASC Awards*, NN, **78**, 58.
- Boschat, Michael E., *Perseid Meteor Shower Alert*, NN, **76**, 35.
- Boudreault, R., *Experience D'Astronomie Avancee: Spectroscopie Moleculaire a Moyenne Dispersion de Jupiter et Saturn*, R. Boudreault, S. Fleurant & A. F. J. Moffat, **74**, 93.
- Bouet, Jacques, *The Rotation of Planets With Satellites*, **80**, 161.
- The Rotation of Planets with Satellites — Revised Numerical Data*, **81**, 62.
- Bourdeau, Matt, *First Telescope: An Unexpected Universe*, NN, **80**, 10.
- Boy, William R., *A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- Bradford, Henry M., *Plasma Frequency Radiation in Astronomy: What We Learn from Solar Radio Observations*, **69**, 162.
- Braithwaite, Bill, *Trying Astrophotography*, NN, **80**, 36.
- Bratton, Mark, *Sketching Globular Star Clusters*, B, **6**, 3, 5.
- Observing Spiral Structure in Galaxies*, B, **6**, 5/6, 7.
- Brazell, Owen, *Astronomical Observations in the Anglo-Saxon Chronicle*, NN, **78**, 56.
- Webb Society Update*, B, **3**, 6, 2.
- Brealey, G. A., *A Small Off-Axis Spectrograph*, E. H. Richardson & G. A. Brealey, **67**, 165.
- Breckenridge, Catharine, *This is Our REAL Address*, B, **1**, 2, 2.
- Bridgen, E. E., *Victoria Centre Telescope Making*, NN, **66**, 31.
- Activities at the Centre: Victoria*, NN, **67**, 23.
- Activities of the Centres: Victoria*, NN, **68**, 19.
- Bridle, A. H., *Queen's University*, **71**, 59.
- Astrometry of Extragalactic Objects from the Palomar Sky Atlas Prints*, A. H. Bridle & R. E. Goodson, **71**, 240.
- Queen's University*, **72**, 51.
- Queen's University*, **73**, 42.
- Queen's University*, **74**, 32.
- A Model for Collimation of Supersonic Beams in Extragalactic Radio Sources*, A. H. Bridle, K. L. Chan & R. N. Henriksen, **75**, 69.
- Index of Extragalactic Radio-Source Catalogues*, M. J. L. Kesteven & A. H. Bridle, **79**, 21.
- Broderick, Bill, *Kingston Centre Hosts a Real Blast!*, B, **1**, 4, 7.
- A Cure for Mosquitos!*, B, **2**, 3, 8.
- Outreach Programs for Centres*, B, **2**, 6, 4.
- Astronomy Week in Kingston*, B, **3**, 4, 5.
- An Astronomer's Christmas*, B, **3**, 6, 10.
- Astro-Tip: Turn Your Telrad Into a Finder*, B, **4**, 6, 5.
- Why Be Concerned About Light Pollution?*, B, **5**, 3, 6.
- Good Lighting/Bad Lighting: What Is the Difference?*, B, **5**, 4, 8.
- Putting Our Own House in Order*, B, **5**, 5, 6.
- Getting Started as a Light Pollution Activist*, B, **6**, 1, 6.
- Light Pollution Questions and Answers*, B, **6**, 3, 6.
- Petitions on Light Pollution*, B, **6**, 5/6, 8.
- Bron, Jan (John), *A Factor of Two*, B, **6**, 3, 3.
- Bronson, Ted, *Were There Any Other Observers?*, NN, **67**, 2.
- Brooks, Diane, *The Simon Newcomb Award*, NN, **73**, 77.
- Newton's Lincolnshire Home*, NN, **82**, 3.
- The Astronomy of Native Americans*, B, **5**, 5, 5.
- Brooks, G. P., *The Improbable Progenitor*, G. P. Brooks & R. C. Brooks, **73**, 9.
- Brooks, Randall C., *A Brief History of the Halifax Centre*, NN, **69**, 53.
- Halifax Centre Holds Camping/Observing Weekend*, NN, **71**, 79.
- The Improbable Progenitor*, G. P. Brooks & R. C. Brooks, **73**, 9.
- Rev. M. W. Burke-Gaffney, S. J., 1896-1979*, **73**, 100.
- M. de Chabert and the 1750 Louisbourg Observatory*, **73**, 333.
- see Reviews, **74**, 371.
- Report of the 1980 "Bluenose" General Assembly*, NN, **74**, 62.
- Astronomy Education in Cuba*, NN, **76**, 47.
- Nineteenth Century Timekeeping for Halifax Shipping*, NN, **78**, 62.
- see Reviews, **79**, 191.
- Astronomy Education Materials*, NN, **79**, 29.
- see Reviews, **82**, 160.
- The Scientific Instrument Society*, NN, **82**, 23.
- see Reviews, **84**, 53.
- An Invitation to Nova East*, NNB, **84**, 38.
- Interpretation of Wolf-Rayet Stars: C. S. Beals' Contribution*, Randall C. Brooks & Mary Lou Whitehorne, **86**, 228.
- Historical Instrument Inventory*, **86**, 267.
- Secretary's Report*, B, **4**, 2, 7.
- see Reviews, **89**, 127.
- Secretary's Report*, B, **5**, 2, 4.
- Secretary's Report*, B, **6**, 2, 4.
- Galileo Was #2*, B, **6**, 5/6, 2.
- Brosche, P., *Angular Momenta of Stars, Planets and Asteroids*, **63**, 150.
- Brosterhus, E., *Observing Conditions on Mount Kobau*, E. Brosterhus, E. Pfannenschmidt & F. Younger, **66**, 1.

- Broten, N. W., *Algonquin Radio Observatory*, **70**, 202.  
*Early Days of Canadian Long-Baseline Interferometry: Reflections and Reminiscences*, **82**, 233.
- Broughton, R. Peter, *From the Library*, NN, **64**, 7.  
*From the Library*, NN, **64**, 12.  
*From the Library*, NN, **64**, 23.  
*From the Library*, NN, **64**, 28.  
*From the Library*, NN, **65**, 15.  
*From the Library*, NN, **65**, 26.  
 see Reviews, **66**, 322.  
*Canadian Comet Discoveries*, **70**, 311.  
 see Reviews, **72**, 59.  
*The Visibility of Halley's Comet*, **73**, 24.  
*Flamsteed's 3 Cas = AR Cas + SAO 35386*, **73**, 381.  
*Must Archives Be Musty?*, NN, **73**, 21.  
*The Four Brightest Stars*, NN, **73**, 22.  
*Henry Hayden, 1784-1862*, **74**, 76.  
*Here's News a Hundred Years Old*, NN, **74**, 68.  
 see Reviews, **75**, 66.  
*Astronomy in Seventeenth-Century Canada*, **75**, 175.  
*Astronomy in Seventeenth-Century Canada*, **75**, 340.  
 see Reviews, **76**, 274.  
*General Assembly Travel Grants*, NN, **76**, 20.  
 see Reviews, **78**, 138.  
 see Reviews, **79**, 267.  
*The Christian Island "Astrolabe"*, **80**, 142.  
*An Introduction to the Following Paper*, **82**, 317.  
*About Our Authors*, Marie Fidler & Peter Broughton, **82**, 359.  
*The Society's Centenary*, NNB, **84**, 2.  
*Friends of the Society*, B, **2**, 4, 5.  
*Helen Sawyer Hogg, 1905-1993*, Christine Clement & Peter Broughton, **87**, 351.  
*Big Bang for Little Bucks*, B, **3**, 1, 2.  
*President's Report*, B, **3**, 2, 2.  
*Helen Sawyer Hogg Distinguished Visitorship*, B, **3**, 4, 9.  
*President's Report*, B, **4**, 2, 6.  
*What Really Brought Edmund Halley to Newfoundland*, **89**, 18.  
*Nominations for Treasurer*, B, **5**, 1, 2.  
*James Craig Watson (1838-1880)*, **90**, 74.  
*The Burke-Gaffneys*, **90**, 345.
- Brown, Chris, *Is Your Computer Sleeping?*, NNB, **83**, 32.  
*Off the Deep End: Two Amateurs Try the Real Thing*, Mary Lou Whitehorne & Chris Brown, B, **1**, 2, 4.  
 see Reviews, **87**, 260.  
*Can We Afford Space?*, B, **4**, 3, 1.  
*Star Charts Suitable for CCD Cameras*, B, **5**, 3, 4.
- Brown, David, *Observing Lunar Occultations*, NN, **69**, 23.  
*Lunar Occultations*, NN, **71**, 28.
- Brown, Paul, *A Deep Sky Project*, Alister Ling & Paul Brown, NN, **80**, 30.
- Brown, Peter, *Giacobinids 1985*, Peter Brown & Mark Zalcik, NN, **79**, 70.  
*Giacobinids Disappoint Canadian Observers*, Peter Brown & Mark Zalcik, NN, **80**, 21.  
*Fox Lake Meteorite Hunt*, NN, **80**, 25.  
*Searching for Early Perseids*, Peter Brown & Mark Zalcik, NN, **80**, 46.  
*Showers From Halley*, Peter Brown & Mark Zalcik, NN, **80**, 77.  
*Perseid Shower 1986*, Peter Brown & Mark Zalcik, NN, **80**, 91.  
*International Meteor Organization*, NN, **82**, 57.  
*Meteors: Why Not?*, B, **1**, 4, 5.  
*Recent Field Research on Potential Meteorite Falls from the Meteorite Observing and Recovery Project*, Peter Brown & Mark Zalcik, **86**, 130.  
*Perseids 1993 — Shower or Storm?*, B, **3**, 3, 3.
- Brown, Si, *Total Solar Eclipse: July 10, 1972*, NN, **64**, 22.  
*July 1972 Total Solar Eclipse*, NN, **64**, 29.
- Brunton, Jeff, *Kitchener-Waterloo Centre Report*, B, **3**, 2, 9.  
*Kitchener-Waterloo Centre Report*, B, **4**, 2, 11.  
*Kitchener-Waterloo Centre Report*, B, **5**, 2, 8.  
*Kitchener-Waterloo Centre Report*, B, **6**, 2, 9.
- Bruton, Danny, *Observations of Mars in 1992-93*, Richard W. Schmude, Jr. & Danny Bruton, **88**, 69.  
*Observations of Jupiter in 1994*, Richard W. Schmude, Jr. & Danny Bruton, **89**, 257.
- Burger, Uros, *Astronomy Material Sought*, B, **4**, 3, 2.
- Buriak, Jillian, *The Moon by Eye and Film*, Jillian Buriak & John Hicks, NN, **77**, 44.
- Burke, Brian, *Report on Two Graze Expeditions*, NN, **76**, 70.  
*Visiting the Wilson Coulee Observatory*, NN, **80**, 14.
- Burke, Jr., Edward W., *A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- Burke-Gaffney, M. W., *Copeland and Lohse and the Comet, 1882 II*, **62**, 49.  
*Robert L. Aikens*, NN, **67**, 2.
- Burland, Miriam S., *About Our Authors*, **62**, 38.  
*About Our Authors*, **62**, 65.  
*About Our Authors*, **62**, 113.  
*About Our Authors*, **62**, 188.  
*About Our Authors*, **62**, 257.  
*About Our Authors*, **62**, 377.  
*About Our Authors*, **63**, 44.  
*About Our Authors*, **63**, 90.  
*About Our Authors*, **63**, 136.  
*About Our Authors*, **63**, 206.  
*About Our Authors*, **63**, 264.  
*About Our Authors*, **63**, 308.  
*About Our Authors*, **64**, 50.  
*About Our Authors*, **64**, 104.  
*About Our Authors*, **64**, 173.  
*About Our Authors*, **64**, 250.  
*About Our Authors*, **64**, 314.  
*About Our Authors*, **64**, 370.  
*About Our Authors*, **65**, 36.  
*About Our Authors*, **65**, 74.  
*About Our Authors*, **65**, 133.  
*About Our Authors*, **65**, 164.  
*About Our Authors*, **65**, 245.  
*About Our Authors*, **65**, 295.  
*About Our Authors*, **66**, 62.  
*About Our Authors*, **66**, 127.  
*About Our Authors*, **66**, 167.  
*About Our Authors*, **66**, 212.  
*About Our Authors*, **66**, 275.  
*About Our Authors*, **67**, 34.  
*About Our Authors*, **67**, 93.  
*About Our Authors*, **67**, 152.



- About Our Authors*, **67**, 156.  
*About Our Authors*, **67**, 190.  
*About Our Authors*, **67**, 262.  
*About Our Authors*, **67**, 318.  
*About Our Authors*, **68**, 40.  
*About Our Authors*, **68**, 108.  
*About Our Authors*, **68**, 163.  
*About Our Authors*, **68**, 213.  
*About Our Authors*, **68**, 334.  
*About Our Authors*, **69**, 37.  
*About Our Authors*, **69**, 94.  
*About Our Authors*, **69**, 139.  
*About Our Authors*, **69**, 189.  
*About Our Authors*, **69**, 240.  
*About Our Authors*, **69**, 316.  
*About Our Authors*, **70**, 41.  
*About Our Authors*, **70**, 88.  
*About Our Authors*, **70**, 143.  
*About Our Authors*, **70**, 193.  
*About Our Authors*, **70**, 256.  
*About Our Authors*, **70**, 320.  
*About Our Authors*, **71**, 54.  
*About Our Authors*, **71**, 197.  
*About Our Authors*, **71**, 263.  
*About Our Authors*, **71**, 324.  
*About Our Authors*, **71**, 390.  
*About Our Authors*, **71**, 469.  
Burrows, Antony R., *Request for Links*, NNB, **84**, 63.

## C

- Cairns, T., *An Observation of the Total Solar Eclipse of March 7, 1970*, T. Cairns, P. Moffat, J. Newton, J. Scatliff & J. Steffensen, **64**, 242.  
Caisse, Gilles, *Activities in the Centres: Centre de Québec*, **75**, 326.  
Calnen, William J., *Astronomy at King's College, Windsor, Nova Scotia*, **74**, 57.  
*Activities in the Centres: Halifax Centre*, **75**, 324.  
Caluori, Mario, *Cameras! Cameras! Cameras!*, NN, **77**, 8.  
*Astronomy Day Report (1): March 13, 1989*, NNB, **83**, 52.  
*Astronomy Day in Montréal*, B, **1**, 1, 2.  
*Astronomy Day 1990 at the Montréal Centre*, B, **1**, 1, 3.  
*Astronomy Day in Montreal*, B, **1**, 4, 7.  
Cameron, A. G. W., *The Chemical Evolution of the Galaxy*, A. G. W. Cameron & J. W. Truran, **65**, 1.  
Campbell, Paul, *The Moon is a Naked Eye Object*, NNB, **83**, 14.  
Campney, Walter K., *1979 Competition Roundup*, NN, **73**, 57.  
Cannon, Wayne H., *Geopotential Surface Corrections to Large Aperture Liquid Mirror Telescopes*, Wayne H. Cannon & Slavek M. Rucinski, **89**, 99.  
Carlberg, Raymond G., see Reviews, **78**, 263.  
see Reviews, **85**, 143.  
*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.  
Carr, Brian, *A 1908 Brass Refractor*, NN, **77**, 7.  
Carrier, Louis, *Québec Centre Report*, B, **3**, 2, 14.  
Carscallen, Grant, *London Centre Report*, B, **3**, 2, 10.  
Carter, Stefan, *Starry, Starry Skies*, NN, **82**, 93.  
Casagrande, Eric W., *Let's All Share the Beauty*, B, **2**, 1, 2.  
Cayrel, R., *La Construction du Télescope Canada-France-Hawaii*, **84**, 3.  
Ceravolo, Peter, *Telescopes and Observing*, NN, **80**, 6.  
*Binocular Buying Tips*, NN, **80**, 27.  
*Edmonton Centre Telescope Mirror Stolen*, NN, **80**, 47.  
*Letter to the Editor*, NN, **80**, 62.  
*In Defence of Quality Products*, NN, **81**, 40.  
*The Schmidt-Cassegrain Unveiled*, NN, **82**, 6.  
*Overrated Telescopes*, NNB, **84**, 55.  
Chamberlain, Von Del, *The Fireball of December 9, 1965 — Part I. Calculation of the Trajectory and Orbit by Photographic Triangulation of the Train*, Von Del Chamberlain & David J. Krause, **61**, 184.  
*The Fireball of December 9, 1965 — Part I*, Von Del Chamberlain & David J. Krause, **61**, 390.  
Chan, Josephine, *Amateur Astronomy in Hong Kong*, NN, **77**, 59.  
Chan, K. L., *A Model for Collimation of Supersonic Beams in Extragalactic Radio Sources*, A. H. Bridle, K. L. Chan & R. N. Henriksen, **75**, 69.  
Chan, Na Han, *The Sun's Temperature at  $\lambda = 5$  Centimetres*, William Lonc & Na Han Chan, **89**, 118.  
Chandwater, Scott, *Cold Weather Observing*, NN, **78**, 5.  
Chaple, Glenn F., see Reviews, **84**, 361.  
Chapman, David M. F., *Observing Tips for Comet Halley*, NN, **79**, 51.  
*East Coast Observing Weekend*, NN, **79**, 74.  
*Recurrent Phenomena of Venus and the Earth/Venus Orbital Resonance*, **80**, 336.  
*The Journal — Who Needs It?*, B, **2**, 2, 6.  
*The 1993 Perseid "Sprinkle"*, B, **3**, 5, 4.  
see Reviews, **88**, 415.  
*The S's in SL9*, B, **4**, 3, 6.  
*The New, Improved Simon Newcomb Award*, B, **4**, 6, 3.  
see Reviews, **89**, 36.  
*Dolores Claiborne's Eclipse*, **90**, 235.  
Chapman-Rietschi, P. A. L., *The Beijing Ancient Observatory and Intercultural Contacts*, **88**, 24.  
Charbonneau, Paul, *On the Evolving Role of Computational Astrophysics*, **86**, 31.  
Chartrand, Mark, *It was the Night Before Christmas*, B, **4**, 5, 8.  
Chattopadhyay, T., *Some Studies on the Spectra of the Different Components of the Absolute Solar Microwave Flux*, M. K. Das Gupta, T. Chattopadhyay & S. K. Sarkar, **70**, 185.  
Chau, W. Y., *The Fifth Kingston Meeting on Theoretical Astrophysics*, **76**, 140.  
Chaytor, Diane, *No Sexism in Vancouver*, B, **3**, 4, 2.  
Chilton, Kenneth E., *The International Union of Amateur Astronomers*, **62**, 132.  
*Transient Lunar Phenomena*, **63**, 203.  
*Study of the Planet Saturn by the Hamilton Centre*, **64**, 53.

- see Reviews, **64**, 381.  
*Mars: The Opposition of 1969*, NN, **64**, 17.  
*Service Award Presented to Norman Green*, NN, **64**, 17.  
*The Moon that Never Was (Maybe?)*, NN, **64**, 27.  
*Observing Mars in 1971*, NN, **65**, 7.  
*Observation of Asteroids*, NN, **65**, 12.  
*International Union of Amateur Astronomers*, NN, **65**, 26.  
see Reviews, **66**, 281.  
*Murphy Strikes Again*, NN, **66**, 23.  
*Activities at the Centre: Hamilton*, NN, **67**, 22.  
*An Appeal for Observational Assistance*, NN, **69**, 16.  
see Reviews, **71**, 63.
- Chong, Ricardo, *Heavenly Harkenings*, B, **2**, 5, 5.  
Chou, B. Ralph, *The Toronto Centre Eclipse Expedition 8 to 11 July, 1972*, NN, **66**, 26.  
*Activities at the Centre: Toronto*, NN, **67**, 22.  
*Editorial*, NN, **71**, 14.  
*Eye Injuries and the Solar Eclipse*, NN, **72**, 66.  
*Joseph Ashbrook*, NN, **74**, 66.  
*Protective Filters for Solar Observation*, **75**, 36.  
*Activities in the Centres: Toronto Centre*, **75**, 326.  
*Kitchener-Waterloo Centre Inaugurated*, NN, **75**, 3.  
*Editorial*, NN, **75**, 62.  
*Herschel House Revisited*, NN, **76**, 22.  
*Toronto Star Does It Again*, NN, **76**, 47.  
*Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.  
*Editorial*, NN, **77**, 18.  
*Notes From Abroad*, NN, **78**, 45.  
*RASC Centres Observe Astronomy Day*, NN, **78**, 53.  
*The Amateur Astronomy Centre*, NN, **79**, 27.  
*Editorial*, NN, **79**, 34.  
*Gold Medal of the RASC, Toronto Centre*, NN, **82**, 86.  
*Toronto Centre Eclipse Expeditions*, Ralph Chou & Jennifer Owen, NNB, **83**, 93.  
*Annual Report Glitches*, B, **2**, 4, 2.  
*Toronto Centre Report*, B, **3**, 2, 16.  
see Reviews, **88**, 416.
- Christy, R. F., *Lectures on Variable Stars*, **63**, 299.  
*Lectures on Variable Stars*, **64**, 8.
- Chute, F. S., *Site-Testing for a Proposed 12 MHz Radio Telescope in Alberta*, F. S. Chute, C. G. Englefield, P. J. R. Harding, C. R. James & D. Routledge, **65**, 49.  
*An Interference-Excising Correlator for Radio Astronomy*, B. L. Kasper, F. S. Chute, D. Routledge & J. F. Vaneldik, **72**, 310.
- Cintra, João Baptista, *Donations Needed for Brazil*, B, **5**, 5, 2.
- Clark, Cyril G., *A Different Story*, NN, **64**, 12.
- Clark, T. A., *Atmospheric Water Vapour at Mr. Kobau and Calgary and Its Relevance to Infrared Astronomical Measurements*, T. A. Clarke & G. Irwin, **67**, 142.  
*An Optical Analogue of the Gravitational Lens: A Classroom Demonstration of the Twin-Quasar Phenomenon*, **75**, 109.  
*Data Acquisition at the RAO: Light Curves from the Optical and Infrared Telescopes*, E. F. Milone, T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J. E. Penfold, K. G. Robinson, A. R. Taylor & J. Van Leeuwen, **83**, 317.
- Clarke, J. N., *Two Centuries of Black Holes*, J. N. Clarke & C. C. Dyer, **73**, 150.
- Clarke, Thomas R., *The Tenth Planet?*, NN, **66**, 17.  
see Reviews, **67**, 43.  
*The Tenth Planet — A Search and a Problem*, NN, **67**, 1.  
see Reviews, **70**, 147.  
see Reviews, **70**, 150.  
see Reviews, **73**, 48.  
see Reviews, **74**, 105.  
*A Small Collection of Antique Instruments at the McLaughlin Planetarium*, NN, **75**, 59.  
see Reviews, **80**, 218.  
Clement, Christine, see Reviews, **72**, 119.  
see Reviews, **72**, 119.  
*Dr. J. J. Green*, **78**, 164.  
*Helen Sawyer Hogg, 1905-1993*, Christine Clement & Peter Broughton, **87**, 351.  
see Reviews, **90**, 174.
- Clement, Christine M. Coutts, *The Bright Variable Stars in Messier 5*, Christine M. Coutts Clement & Helen Sawyer Hogg, **71**, 281.
- Clement, Maurice J., see Reviews, **63**, 49.  
see Reviews, **73**, 154.  
see Reviews, **85**, 227.
- Climenhaga, J. L., *Exploring the Universe*, **62**, 29.  
see Reviews, **65**, 140.  
see Reviews, **68**, 44.
- Clinton, Eric, *Have Telescope Will Travel*, Bill Smythe, Eric Clinton & G. Chris Essex, NN, **67**, 27.
- Clover, Edward W., *Comments on the Duration-Peak-Flux-Density Diagram for 2800 MHz Solar Bursts*, **75**, 15.
- Clutton-Brock, M., see Reviews, **76**, 144.  
see Reviews, **79**, 323.
- Clyburn, David, see Reviews, **84**, 370.  
*Mount Kobau 1989*, NNB, **84**, 14.  
*In Search of Deep Sky Nights*, NNB, **84**, 45.  
*The 1990 Mount Kobau Star Party*, NNB, **84**, 92.  
*Astronomy Workshop 1990*, B, **1**, 1, 6.  
*Mount Kobau '91*, B, **1**, 6, 3.  
*Kobau '94: Fire on the Mountain*, B, **4**, 6, 7.
- Coallier, M. Lucien E., *A New Amateur Observatory in Montreal*, **64**, 194.  
*Nouvelles des Centres Québécois*, NN, **74**, 40.  
*La Mémoire de Rolland Noël de Tilly*, NN, **78**, 29.
- Cobban, James A., see Reviews, **81**, 24.
- Cobban, Jim, *Minutes of the Annual Meeting, May 22, 1976*, **70**, 196.  
*Serendipity*, NN, **74**, 11.  
see Reviews, **78**, 257.
- Cohen, M. H., *The Origin and Evolution of the NRAO-Cornell VLBI System*, K. I. Kellerman & M. H. Cohen, **82**, 248.
- Cohen, Nathan L., *Io-Related Jovian Decametric Bursts and Io Sodium*, **69**, 89.  
see Reviews, **70**, 271.
- Cohen, Nathaniel, *A Clock Out of Time*, B, **6**, 1, 4.  
*The Romans Messed It Up!*, B, **6**, 5/6, 2.
- Colbeck, Lynda, see Reviews, **77**, 269.
- Coldwell, Larry, *Binoculars for Celestial Viewing*, NN, **70**, 43.
- Collier, Dan, *Burke's Blunders*, B, **5**, 2, 8.  
see Reviews, B, **5**, 4, 5.  
*Got Some Julian Time on Your Hands?*, B, **6**, 3, 7.
- Colwell, Thomas, *April 26 Named as "Astronomy Day 1980"*

- by *Associated Societies*, NN, **74**, 14.
- Comision, Paul, *Forty Years of Observing Trends*, NN, **81**, 79.
- Uranometia 2000.0*, see Reviews, NN, **82**, 16.
- Connelly, John, *Land of the Midnight Venus*, B, **6**, 56, 4.
- Connors, Martin G., *Planetary Space Missions for the 1970's*, NN, **64**, 30.
- The R Coronae Borealis Stars*, NN, **65**, 27.
- Distance Education in Teaching Introductory Astronomy*, **86**, 59.
- CD-ROM Electronic Encyclopedias as an Astronomical Educations Resource*, **87**, 253.  
see Reviews, **90**, 365.
- Cook, Michael J., *A Backyard Observatory*, NN, **77**, 8.
- Cooper, Doris L., *Total Lunar Eclipse*, NN, **70**, 81.
- Cooperstock, F. I., *1993 Nobel Prize in Physics Award to Hulse and Taylor*, **88**, 85.
- Corbally, Christopher J., *A Solar Flash Spectrum for 26th February, 1979*, **73**, 263.  
*MK Spectral Classification in the Praesepe Lower Main Sequence*, C. J. Corbally & R. F. Garrison, **77**, 28.  
see Reviews, **79**, 271.  
see Reviews, **84**, 358.
- Corey, Mal, *In Memorium: Pat Corey*, NN, **73**, 48.
- Cornforth, Robert W., *Call for Papers — 1979 General Assembly, London*, NN, **72**, 79.
- Cosgrove, Patrick, *A Down-to-Earth Put-Down*, NNB, **83**, 13.
- Couchman, H. M. P., *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Courteau, S., *Cosmic Velocity Flows*, S. M. Faber, S. Courteau, A. Dekel, A. Dressler, T. Kollatt, J. A. Willick & A. Yahil, **88**, 92.
- Cousineau, Catharine, *Humour Appreciated*, B, **2**, 1, 8.
- Couteau, P., *Les Etoiles Doubles Faibles*, **67**, 77.
- Covington, Arthur E., see Reviews, **61**, 202.  
*The Development of Solar Microwave Radio Astronomy in Canada*, **61**, 314.  
see Reviews, **63**, 48.  
*Solar Radio Emission at 10.7 cm, 1947-1968*, **63**, 125.  
see Reviews, **64**, 326.  
*Termination of the U. S. Naval Observatory Solar Program*, **66**, 165.  
see Reviews, **67**, 264.  
*The Partial Acceptance of the Copernican Theory by Athanasius Kircher, 1646*, A. E. Covington & T. R. Robinson, **67**, 311.  
*A 10.5 Year Period for the Slowly Varying Component of the Solar Radio Flux*, **68**, 31.  
*Variations in the Profiles of the Gradual Rise and Fall Bursts for June 11-15 and a High Resolution Study for the Major Event of June 15, 1972*, **68**, 225.  
*Comments on the Radio Burst for the White Light Flare of July 4, 1974*, **68**, 332.  
*The Old Dominion Observatory*, **69**, 86.
- Plaque Unveiled at Dominion Observatory for W. F. King*, **69**, 286.  
*The Old Dominion Observatory*, NN, **69**, 6.  
*Participation of RASC Members in Heritage Canada — Our National Trust*, NN, **69**, 15.  
see Reviews, **70**, 42.  
*Engineering Heritage and the Dominion Observatory*, **70**, 194.  
*A Possible Historical Association Between a Dolland Telescope and Early Scientific Surveys in Canada*, **72**, 111.  
*The 2800-MHz Solar Radio Minimum of February 1976*, **73**, 1.  
*Ralph E. Williamson — An Appreciation*, **77**, 97.  
*Origins of Canadian Radio Astronomy*, **82**, 165.  
*New Honorary Member*, **82**, 297.
- Cowley, A. P., *Searching for Black Holes*, David Crampton, J. B. Hutchings & A. P. Cowley, **77**, 103.
- Cowley, Charles R., *Actinide Astronomy*, **71**, 108.
- Crabtree, Dennis R., *The 24th Annual Meeting of the Canadian Astronomical Society*, G. Christopher L. Aikman, Dennis R. Crabtree, Ann C. Gower, James E. Hesser, Christopher J. Pritchett & Russell M. Robb, **87**, 271.  
*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Craine, Eric, *GNAT: A Global Network of Small Telescopes as a Resource for Astronomical Research and Education*, David L. Crawford & Eric Craine, **90**, 224.
- Crampton, David, see Reviews, **72**, 118.  
see Reviews, **75**, 337.  
*The Second STARLAB Joint Science Working Group Meeting*, Christopher Aikman, David Crampton & James E. Hesser, **76**, 209.  
*Searching for Black Holes*, David Crampton, J. B. Hutchings & A. P. Cowley, **77**, 103.  
see Reviews, **77**, 166.  
*From 1.8 to 8 m Telescopes*, **87**, 299.
- Crawford, David L., *GNAT: A Global Network of Small Telescopes as a Resource for Astronomical Research and Education*, David L. Crawford & Eric Craine, **90**, 224.
- Creighton, Harlan, *McLaughlin Planetarium*, **64**, 323.  
*McLaughlin Planetarium*, **65**, 83.  
*McLaughlin Planetarium*, **65**, 299.  
*Toronto Centre News*, NN, **66**, 32.  
*Editorial*, NN, **70**, 75.  
*Minutes of the Annual Meeting, 2 July, 1977*, **71**, 329.  
*Minutes of the Annual Meeting, May 21, 1978*, **72**, 224.  
*Minutes of the Annual Meeting, May 20, 1979*, **73**, 225.  
*Manitoba College Leads Eclipse Expedition*, NN, **73**, 58.  
*Minutes of the Annual Meeting, June 29, 1980*, **74**, 305.  
*Minutes of the Annual Meeting, 28 June, 1981*, **75**, 261.  
*Report of the National Council Meeting 26 June 1981*, NN, **75**, 55.  
*National Council Report*, NN, **75**, 76.

Minutes of the Annual Meeting, 23 May, 1982, **76**, 262.  
 National Council Report, NN, **76**, 33.  
 Tornado!, NN, **76**, 36.  
 National Council Report, NN, **76**, 62.  
 L'Envoi: Thirty Days Hath ... ?!, NN, **78**, 93.  
 Keeping the RASC on Time, NN, **79**, 44.  
 Cresswell, Cathy, *Canadian "Starfest" Comes of Age*, B, **1**, 6, 6.  
 Crowe, Richard A., *Spectral Classification of Southern-Hemisphere Mira Variables*, **78**, 103.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. IV. Pot-Pourri*, J. Donald Fernie, Barry F. Madore, Max Faúndez-Abans, Mart de Groot, Richard A. Crowe, Robert F. Garrison & Jaymie M. Matthews, **90**, 270.  
 Crowell, Wayne, *Star Attractions: A Great Editorial*, NN, **77**, 2.  
 Cruden, Alexander, see Reviews, **89**, 233.  
 Cumming, G. L., *Vilna Meteorite — Camera, Visual, Seismic and Analytic Records*, R. E. Folinsbee, L. A. Bayrock, G. L. Cumming & D. G. W. Smith, **63**, 61.  
 Cunningham, Clifford J., see Reviews, **75**, 275.  
*AAVSO Meeting*, NN, **75**, 45.  
*IAPPP Symposium*, NN, **75**, 53.  
*Phoenix II in Lions Head*, Clifford Cunningham & Douglas Cunningham, NN, **76**, 11.  
*COSPAR Meeting*, NN, **76**, 39.  
*Photoelectric Photometry of 2 Pallas*, **77**, 121.  
 Clifford Cunningham & Douglas L. Welch, see Reviews, **78**, 141.  
*Minor Planet Index to Scientific Papers*, **84**, 133.  
 Cunningham, Douglas, *Phoenix II in Lions Head*, Clifford Cunningham & Douglas Cunningham, NN, **76**, 11.  
*"Astronomy Compels the Soul"*, Doug Cunningham & John Hlynialuk, **78**, 128.  
 see Reviews, **85**, 55.

## D

Dack, Ella, *A New Home for Winnipeg Centre*, NN, **66**, 31.  
*Gathering the History of a Centre*, NN, **72**, 20.  
 Daly, Michael, *E-mail Communication Within the RASC*, B, **2**, 3, 3.  
*More Thoughts on "Thoughts on the JRASC"*, B, **2**, 4, 4.  
 Dancy, R., see Reviews, **73**, 158.  
 Davidge, Tim. J., *CO and CN Absorption in the Near-Infrared Spectra of Luminous M31 Globular Clusters*, **84**, 166.  
*The Extended Spectrum of NGC 5846*, **85**, 131.  
*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.  
 Davidson, Norman, *Letter to the Editor*, **90**, 162.  
 Davie, Kathie, *Ways to Increase Disabled Participation*, Wayne Davie & Kathie Davie, B, **1**, 1, 4.  
 Davie, Wayne, *Ways to Increase Disabled Participation*,

Wayne Davie & Kathie Davie, B, **1**, 1, 4.  
 Davis, Donald, *Fifty Times Around the Sun*, **63**, 42.  
 Dawes, Ronald E., *Mount Kobau No Problem*, NNB, **83**, 3.  
 Dawson, P. C., *The Local Space Density of Thick Disk Stars*, **84**, 175.  
*The Visibility of Galactic Supernovae*, P. C. Dawson & R. G. Johnson, **88**, 369.  
*Kinematic Bias in Proper Motion Surveys*, P. C. Dawson, R. G. Johnson & A. J. Rorabeck, **89**, 201.  
 de Groot, Mart, see Reviews, **85**, 288.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. IV. Pot-Pourri*, J. Donald Fernie, Barry F. Madore, Max Faúndez-Abans, Mart de Groot, Richard A. Crowe, Robert F. Garrison & Jaymie M. Matthews, **90**, 270.  
 De Rijk, J. A. F., *A New Latitude-Independent Sundial*, **83**, 137.  
 De Robertis, M. M., *A Comment on the Formation of Spiral Galaxies*, M. de Robertis & R. N. Henriksen, **74**, 189.  
*A Five-Level Program for Ions of Astrophysical Research*, M. M. De Robertis, R. J. Dufour & R. W. Hunt, **81**, 195.  
*A Survey of the Attitudes of University Students to Astrology and Astronomy*, M. M. De Robertis & P. A. Delaney, **87**, 34.  
 de Torcat, Mary, *The Wright Stuff*, B, **4**, 6, 2.  
 Deans, Paul, *The Queen Elizabeth Planetarium*, NN, **70**, 63.  
 Dechesne, Roland G., *Can the Disk of Jupiter Be Glimpsed With the Naked Eye?*, B, **1**, 2, 7.  
 Dekel, A., *Cosmic Velocity Flows*, S. M. Faber, S. Courteau, A. Dekel, A. Dressler, T. Kollatt, J. A. Willick & A. Yahil, **88**, 92.  
 Dekker, John, *Digitizing the Moon*, NN, **81**, 37.  
 Delaney, Paul A., see Reviews, **73**, 157.  
*Coudé Radial Velocities of  $\zeta$  Herculis*, C. D. Scarfe, H. Funakawa, P. A. Delaney & David J. Barlow, **77**, 126.  
*A Survey of the Attitudes of University Students to Astrology and Astronomy*, M. M. De Robertis & P. A. Delaney, **87**, 34.  
 Demarque, Pierre, see Reviews, **76**, 333.  
 Demers, Serge, *The Unique Variable V725 Sagittarii*, **67**, 19.  
 see Reviews, **73**, 318.  
 see Reviews, **73**, 350.  
*Une Nouvelle Publication Destinee a L'Enseignement de L'Astronomie*, **74**, 180.  
 see Reviews, **74**, 180.  
 Dempsey, Frank, *Dressing for Winter Observing*, NN, **82**, 12.  
 Dence, M. R., *Annual Meeting — Meteoritical Society*, J. E. Kennedy & M. R. Dence, **68**, 41.  
*Morris James Sage Innis, 1907-1980*, M. R. Dence & J. G. Tanner, **75**, 117.  
 Dennison, Brian K., *A Suggested Eclipse Experiment*, Brian K. Dennison & Gary L. Sego, NN, **66**, 4.  
 Deupree, Robert G., see Reviews, **70**, 275.  
 DeVillaer, Michael, *Aurora at Hamilton Centre Observatory Site*, NN, **77**, 41.  
 DeVorkin, David H., see Reviews, **84**, 359.  
 Dewolfé, Darryl, *Decision Time for the RASC*, B, **3**, 5, 2.  
 Dick, Robert, *The Eye*, NN, **68**, 11.  
*An Inexpensive Photometer for Amateur Astronomy*, R. Dick, A. Fraser, F. Lossing & D. Welch, **72**, 40.  
*A Letter to the Editor*, NN, **76**, 44.

- Dickinson, R. Terence, *The Amateur Astronomer in the 1970's*, NN, **64**, 25.  
*The Last Men on the Moon*, NN, **65**, 17.  
*Recent Progress at the Strassenburgh Planetarium*, **66**, 120.  
*Mars in Focus*, **66**, 168.  
*James Kemp*, NN, **69**, 7.  
 see Reviews, **71**, 208.  
 see Reviews, **73**, 161.  
 see Reviews, **73**, 161.  
 see Reviews, **77**, 225.  
 see Reviews, **79**, 149.  
*Telescopes and Observing: A Reply*, NN, **80**, 7.  
 see Reviews, **83**, 441.  
*Viewing the Planets Through Century-Old Glass*, NNB, **83**, 6.  
*Naturalists of the Night — The Amateur Astronomers*, **84**, 304.  
 see Reviews, **89**, 86.
- Diedrich, George, *AAVSO Nova Search Report*, **61**, 104.  
*AAVSO Nova Search Report*, **61**, 210.  
*AAVSO Nova Search Report*, **61**, 352.  
*AAVSO Nova Search Report*, **62**, 48.  
*AAVSO Nova Search Report*, **62**, 96.  
*AAVSO Nova Search Report*, **62**, 143.  
*AAVSO Nova Search Report*, **62**, 204.  
*AAVSO Nova Search Report*, **62**, 267.  
*AAVSO Nova Search Report*, **62**, 396.  
*AAVSO Nova Search Report*, **63**, 56.  
*AAVSO Nova Search Report*, **63**, 104.  
*AAVSO Nova Search Report*, **63**, 174.  
*AAVSO Nova Search Report*, **63**, 223.  
*AAVSO Nova Search Report*, **63**, 273.  
*AAVSO Nova Search Report*, **63**, 324.  
*AAVSO Nova Search Report*, **64**, 120.
- Dionne, Germain, *Belittling Keck*, B, **5**, 1, 4.  
 Dixon, Grant W., *Mirror Coating*, NN, **74**, 36.  
*Reflections of a Solitary Observer*, **77**, 13.  
*The 1992 GA*, B, **2**, 5, 1.  
 Dodge, David, *Reflections*, NN, **73**, 9.  
*Reflections*, NN, **73**, 28.
- Dodson, Steve, *Halley from 35 000 — A Great Success*, NN, **80**, 42.  
*Telescopes North*, NN, **80**, 67.  
*International Astronomy Day 1989*, NNB, **83**, 8.  
*Astronomy Day Expands in Centennial Year*, NNB, **83**, 42.  
*Astronomy Day 1989: A Cross Country Roundup*, NNB, **83**, 76.  
*Following the Stars — For a Hundred Years*, NNB, **83**, 79.  
*Centennial Astronomy Week — A National Wrap-Up*, NNB, **84**, 51.  
*Way to Go, Toronto!*, NNB, **84**, 72.  
*The Accessible Universe*, NNB, **84**, 73.  
*Way to Go, Toronto!*, NNB, **84**, 89.  
*Astronomy Day in Six Cities*, B, **1**, 4, 3.  
 see Reviews, **86**, 336.
- Doherty, L. H., *Observations of 85 $\alpha$  Recombination Lines from W48*, J. M. McLeod, L. H. Doherty & L. A. Higgs, **71**, 377.
- Dommanget, J., *Remarks on Orbits and Dynamical Parallaxes*, **67**, 56.
- Dotto, Lydia, *Planet Earth as a Life Support System*, **84**, 299.
- Douglas, A. Vibert, *Georges Lemaître, 1894-1966*, **61**, 77.  
*Interim Report on Commission 41, IAU*, **61**, 193.  
 see Reviews, **61**, 200.  
*The XIII General Assembly of the IAU 1967*, **62**, 1.  
*History of Astronomy at Prague, 1967*, **62**, 62.  
*Astronomy and the Orphic Hymns*, **62**, 217.  
*XII International Congress for the History of Science*, **63**, 57.  
 see Reviews, **64**, 380.  
*History of Astronomy at the IAU, 1970*, **65**, 39.  
*Historical Significance of Five Conjunctions 1226-27*, **65**, 129.  
*Kepler's Dream*, **66**, 59.  
*Copernicus 1473-1543*, **67**, 1.  
*Thomas Young, 1773-1829*, **67**, 150.  
 see Reviews, **67**, 153.  
*Al-Biruni, Persian Scholar, 973-1048*, **67**, 209.  
*Royal Observatory, Greenwich*, **69**, 140.  
*Regiomontanus, 1436-1476*, **70**, 79.  
*History of Astronomy (IAU Commission 41)*, **71**, 56.  
*XV International Congress of the History of Science*, **72**, 108.  
*History of Astronomy*, **73**, 383.  
*International Conference on the History and Philosophy of Science*, **75**, 63.
- Douglas, J. A. V., *The Fireball of April 25, 1966. I, Canadian Visual Observations*, B. A. McIntosh & J. A. V. Douglas, **61**, 159.
- Dressler, A., *Cosmic Velocity Flows*, S. M. Faber, S. Courteau, A. Dekel, A. Dressler, T. Kollatt, J. A. Willick & A. Yahil, **88**, 92.
- Drew, Bob, *The Edmonton Centre's New Telescope*, NNB, **83**, 82.  
*Edmonton Centre Report*, B, **5**, 2, 5.  
*The 1995 Mount Kobau Star Party*, B, **5**, 4, 9.  
*Edmonton Centre Report*, B, **6**, 2, 6.
- Drolet, Clément, *Québec Centre Report*, B, **5**, 2, 11.
- Drummond, J. R., see Reviews, **81**, 177.
- Drury, Bob, *My Radio Telescope*, **89**, 72.
- Duchesne, Roland G., *Letter to the Editor*, **90**, 159.
- Duff, Bob, *The Backyard Universe of J. J. Wadsworth*, B, **2**, 3, 6.
- Dufour, R. J., *A Five-Level Program for Ions of Astrophysical Research*, M. M. De Robertis, R. J. Dufour & R. W. Hunt, **81**, 195.
- Dufour, Yvon, *Une Camera Schmidt Simpliffee avec Tiges Compensatrices*, **62**, 121.
- Duley, W. W., *Molecule Formation in Dense Interstellar Clouds*, **64**, 331.  
*Effect of H<sub>2</sub> Absorption on Interstellar Extinction by Core-Mantle Grains*, W. R. M. Graham & W. W. Duley, **65**, 63.  
*Optical and Chemical Studies on Simulated Interstellar Grain Materials*, J. D. McCullough, G. R. Floyd, B. H. Prince & W. W. Duley, **66**, 223.  
*A Method of Forming Complex Molecules in Interstellar Space*, G. R. Floyd, R. H. Prince & W. W. Duley, **67**, 299.
- Dunham, David W., *Grazing Occultations*, **63**, 143.  
*Grazing Occultations*, NN, **65**, 19.  
*Occultation Highlights, October-December 1971*, NN, **65**,

- Observations Planned Near the Edges of the Path of the July 10, 1972 Total Solar Eclipse in Canada*, NN, **66**, 16.
- Dunlop, S. R., *BAA Aurora Section Wants Canadian Observers*, NN, **77**, 5.
- Dupuy, David L., *Burke-Gaffney Observatory*, **67**, 156.  
see Reviews, **69**, 317.  
*The Galactic Cluster Byurakan 2*, David L. DuPuy & Walter Zukauskas, **70**, 169.  
see Reviews, **70**, 273.  
*New Observing Aid*, NN, **70**, 28.  
*A Classroom Photometer and Artificial Star*, **71**, 199.  
see Reviews, **71**, 214.  
see Reviews, **71**, 337.  
*The Astronomy Display at the Burke-Gaffney Observatory*, **71**, 470.  
*Halifax Centre Display*, NN, **71**, 56.  
*A Bibliography of Recent Astronomical Education Articles*, **72**, 221.  
*Astronomy Teaching Ideas for Secondary-School Teachers*, **73**, 104.  
*Simulating an Eclipsing Binary Light Curve*, David L. DuPuy & Robert D. Ellis, **79**, 183.  
*Crossword Puzzles in Introductory Astronomy Courses*, **86**, 334.
- Durand, D., *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Duric, Nebojsa, see Reviews, **89**, 195.
- Durrani, Mohibullah N., *New World Record for Youngest Naked-Eye Crescent Moon Sighting*, NNB, **83**, 34.
- Dyck, Gerald P., see Reviews, **85**, 229.
- Dyer, Alan, *Astrophotography: A Personal Approach Part I*, NN, **72**, 32.  
*The 1978 General Assembly in Review*, NN, **72**, 46.  
*A Successful Observing Competition*, NN, **72**, 48.  
*Astrophotography: A Personal Approach Part II*, NN, **72**, 54.  
*A Question of Balance*, NN, **73**, 70.  
see Reviews, **75**, 156.  
*Chasing Asteroids*, NN, **75**, 9.  
see Reviews, **83**, 343.  
*New Format Liked*, B, **1**, 4, 2.
- Dyer, Charles C., see Reviews, **72**, 238.  
*Two Centuries of Black Holes*, J. N. Clarke & C. C. Dyer, **73**, 150.  
see Reviews, **73**, 387.  
see Reviews, **74**, 315.  
*Simulating the Transparent Gravitational Lens*, Charles C. Dyer & Robert C. Roeder, **75**, 227.  
see Reviews, **76**, 331.  
see Reviews, **76**, 331.  
see Reviews, **76**, 331.  
see Reviews, **88**, 413.

- Eales, S. A., see Reviews, **87**, 131.  
*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Edberg, Steve, *Eclipse Chasing Without the Chase .. Sort Of*, B, **2**, 3, 4.
- Edwards, G., *Photoelectric Observations of Lunar Occultations at the DAO*, C. L. Morbey, J. M. Fletcher & G. Edwards, **72**, 305.
- Edwards, Michael P., *Highly Successful Observing in Halifax*, NN, **72**, 21.
- Edwards, Peter, *Activities at the Centre: Halifax*, NN, **67**, 19.
- Ellingson, Erica, *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Ellis, Maritta, *Sketching Hevel*, NN, **76**, 31.
- Ellis, Robert D., *Simulating an Eclipsing Binary Light Curve*, David L. DuPuy & Robert D. Ellis, **79**, 183.
- Englefield, C. G., *Site-Testing for a Proposed 12 MHz Radio Telescope in Alberta*, F. S. Chute, C. G. Englefield, P. J. R. Harding, C. R. James & D. Routledge, **65**, 49.
- English, Jayanne, *The UTSO CCD*, Marshall L. McCall, Jayanne English & Ian Shelton, **83**, 179.
- Enock, Muriel J., *Activities in the Centres: Sixty-Seven Years of RASC Victoria*, **75**, 329.  
*Victoria Was the One in June of '81*, NN, **75**, 50.  
*Mobile in British Columbia*, NN, **77**, 29.  
*Space Telescope*, NN, **77**, 90.  
*Greenwich Time*, NN, **78**, 85.  
*The Mount Kobau Star Party 1984*, Jack Newton & Muriel Enock, NN, **79**, 7.  
*Canada's Astronaut Debuts*, NN, **79**, 21.  
see Reviews, **80**, 217.
- Enwright, Leo, *The Mall Display in Kingston*, NN, **73**, 82.  
*A Talking Telescope*, NN, **73**, 83.  
*What About the "Superconjunction of 1982"?*, NN, **74**, 8.  
*"Nine Planet Club"*, NN, **74**, 57.  
*A Revolution in Amateur Astronomy*, NN, **74**, 80.  
*Activities in the Centres: A Resurgent Kingston Centre*, **75**, 324.  
*A New Film on the Market*, NN, **75**, 13.  
*An Incredible Auroral Double-Feature*, NN, **75**, 45.  
*Minutes of the Annual Meeting, 22 May, 1983*, **77**, 248.  
*Bright February Fireball*, NN, **77**, 19.  
*A Report of the January National Council Meeting*, NN, **77**, 21.  
*An Amazing Messier Marathon*, NN, **77**, 41.  
*A Bright Quadruple Star*, NN, **77**, 47.  
*Report of the May 1983 National Council Meeting*, NN, **77**,

52.  
*Report of the September National Council Meeting*, NN, **77**, 86.  
*Kingston Centre Deep Sky Programme*, NN, **77**, 88.  
 see Reviews, **78**, 142.  
 see Reviews, **78**, 167.  
*Minutes of the Annual Meeting of June 30, 1984*, **78**, 216.  
 see Reviews, **78**, 258.  
*Concerns About Costs*, NN, **78**, 2.  
*International Astronomy Day — May 5, 1984*, NN, **78**, 4.  
*Report of the January National Council Meeting*, NN, **78**, 29.  
*Report of the June 1984 National Council Meetings*, NN, **78**, 71.  
*Minutes of the Annual Meeting of June 30, 1985*, **79**, 249.  
 see Reviews, **79**, 268.  
*International Astronomy Day April 27, 1985*, NN, **79**, 20.  
*Report of the January 1985 National Council Meeting*, NN, **79**, 36.  
*Report of the June 1985 National Council Meetings*, NN, **79**, 76.  
*The Unusual Auroral Outburst of August 12-13, 1985*, NN, **79**, 80.  
*Report of September 1985 National Council Meeting*, NN, **79**, 90.  
 see Reviews, **80**, 59.  
*Minutes of the Annual Meeting of June 29, 1986*, **80**, 288.  
*Historic Occasion for Astronomy in Kingston*, NN, **80**, 3.  
*International Astronomy Day April 19, 1986*, NN, **80**, 5.  
*Report of January 1986 National Council Meeting*, NN, **80**, 22.  
*International Astronomy Day*, NN, **80**, 60.  
*Report of the June 1986 National Council Meetings*, NN, **80**, 72.  
*Minutes of the Annual Meeting of May 17, 1987*, **81**, 165.  
 see Reviews, **81**, 228.  
*International Astronomy Day May 9, 1987*, NN, **81**, 14.  
*Report of the May 1987 National Council Meetings*, NN, **81**, 54.  
*Second Comet Levy for 1987*, NN, **81**, 83.  
*Report of the September 1987 National Council Meeting*, NN, **81**, 87.  
 see Reviews, **82**, 91.  
 see Reviews, **82**, 162.  
*The Minutes of the Annual Meeting of July 2, 1988*, **82**, 290.  
*Report of the January 1988 National Council Meeting*, NN, **82**, 42.  
*Report of the June 1988 National Council Meeting*, NN, **82**, 69.  
 see Reviews, **83**, 340.  
*Comet Okanzaki-Levy-Rudenko (1989r): David Levy's Fifth Comet*, NNB, **83**, 66.  
 see Reviews, **85**, 146.  
 see Reviews, **86**, 166.  
*New Society Publication Launched*, B, **2**, 1, 1.  
 see Reviews, **87**, 168.  
*The Caldwell Catalogue: Why All the Hype?*, B, **6**, 5/6, 1.  
 Espenak, Fred, *Predictions for the 1979 Solar Eclipse*, **72**, 149.  
*Local Circumstances in Java During the Total Solar*

*Eclipse of 1983*, **77**, 5.  
*Predictions for the Annular Solar Eclipse of 1984*, **78**, 10.  
*Predictions for the Total Solar Eclipse of 1988*, **81**, 44.  
*Predictions for the Total Solar Eclipse of 1988*, **81**, 227.  
*Predictions for the Total Solar Eclipse of 1991*, **83**, 157.  
 Essex, G. Chris, *Have Telescope Will Travel*, Bill Smythe, Eric Clinton & G. Chris Essex, NN, **67**, 27.  
 Evans, John C., *The Search for Stellar Microturbulence*, David F. Graym & John C. Evans, **67**, 241.  
 Evans, Nancy Remage, see Reviews, **74**, 46.  
*Confirmation of the Decreased Pulsational Amplitude of Polaris*, Karl W. Kamper, Nancy Remage Evans & Ronald W. Lyons, **78**, 173.  
 see Reviews, **87**, 165.  
*HR 9053: A Lightly Reddened G Supergiant*, Nancy Remage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.  
 Evans, Robert, *The Visual Discovery of Supernova 1993I*, B, **3**, 4, 3.  
 Evans, W. F. J., *High Altitude Balloon Experiments to Study Oxygen in a Planetary Atmosphere*, W. F. J. Evans, A. Vallance Jones & E. J. Llewellyn, **61**, 82.

## F

Faber, S. M., *Cosmic Velocity Flows*, S. M. Faber, S. Courteau, A. Dekel, A. Dressler, T. Kollatt, J. A. Willick & A. Yahil, **88**, 92.  
 Fahlman, G. G., *On the Angular Momenta of Stars, Planets and Asteroids*, G. G. Fahlman & S. P. S. Anand, **63**, 36.  
 Falconer, Gordon K., *Letter to the Editor*, NN, **64**, 15.  
 Falk, A. E., *The Line Profiles of an Oblique Rotator*, A. E. Falk & W. H. Wehlau, **66**, 218.  
 Falk, Dan, *The RASC Eclipse Expedition*, B, **1**, 5, 4.  
 Fallows, Donovan H., *The Optical Projection of Solar and Lunar Objects on a Modified Translucent Viewing Screen*, **62**, 259.  
*The Use of Closed-Circuit TV in Conjunction with Amateur Astronomical Telescopes*, **65**, 78.  
*Vancouver Island Observers Meet*, NN, **81**, 91.  
 Fanning, Eleanor, *First Viewing from Saudi Arabia*, NN, **80**, 82.  
 Farquhar, Robin H., *Welcoming Remarks to the Public Symposium "You and the Universe" Held at Carleton University, Ottawa, 1990 June 29*, **84**, 297.  
 Farrow, Dalton, *The Temiskaming Astronomical Society*, Peter Ryback & Dalton Farrow, NN, **70**, 66.  
 Faúndez-Abans, Max, *Extracts From the Diaries of the University of Toronto Southern Observatory. IV. Pot Pourri*, J. Donald Fernie, Barry F. Madore, Max Faúndez-Abans, Mart de Groot, Richard A. Crowe, Robert F. Garrison & Jaymie M. Matthews, **90**, 270.  
 Fayter, W. Paul, see Reviews, **77**, 161.  
 Feibelman, Walter A., *Photoelectric Timing of the Fireball of September 17, 1966*, **62**, 185.  
*Telescopic Observation of a Meteor and Its Train*, **63**, 189.  
*The Planetary Nebula in M15*, **64**, 193.  
*Monochromatic Photographs and Isophotic Contours of Planetary Nebulae. I: NGC 3242*, **64**, 305.  
*Monochromatic Photographs and Isophotic Contours of*

- Planetary Nebulae, II: NGC 1535, 6572, 6543, 7662, and 7009*, **65**, 25.
- Monochromatic Photography and Isophotic Contours of Planetary Nebulae, III: NGC 2392, 6210, 6826, 6720, 6853*, **65**, 251.
- Polarization of the Solar Corona*, **66**, 109.
- P Cygni and Its Cluster*, **89**, 3.
- Letter to the Editor*, **90**, 163.
- Feldman, P. A., *The Pre-Discovery Observation of Nova Cygni 1975*, A. T. Blackwell, P. A. Feldman, A. A. Griffin & I. Halliday, **69**, 241.
- The Detection of Radio Emission from the New Optical Emission Variable HM Sagittae*, **71**, 386.
- Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.
- Felton, James E., *Cosmic Rays and Cosmic X-Rays*, **64**, 33.
- Cosmic Rays and Cosmic X-Rays*, **64**, 73.
- Ferguson, Sandra, *Astronomy Week 1994*, B, **4**, 1, 3.
- Astronomy Week 1995*, B, **5**, 1, 3.
- National Astronomy Day 1995*, B, **5**, 3, 7.
- Fernie, J. Donald, *Journey Via Otjiwarongo: A Trip to the Hoba Meteorite*, **61**, 127.
- see Reviews, **62**, 78.
- Spectrographic Orbit and Photometric Observations of HD 217312 in the III Cephei Association*, J. F. Heard & J. D. Fernie, **62**, 99.
- Observations of RU Camelopardalis*, **62**, 214.
- UVB Observations of Miscellaneous Stars*, **63**, 133.
- Photometric Weather at Toronto*, **66**, 249.
- Announcement of Symposium*, NN, **67**, 5.
- see Reviews, **68**, 45.
- The Carpenter's Chronometers I*, NN, **68**, 26.
- see Reviews, **69**, 98.
- see Reviews, **69**, 148.
- The Historical Search for Stellar Parallax*, **69**, 153.
- The Historical Search for Stellar Parallax*, **69**, 222.
- The Carpenter's Chronometers. II*, NN, **69**, 2.
- UBVRI Observations of Miscellaneous Stars*, **70**, 77.
- see Reviews, **70**, 148.
- see Reviews, **70**, 206.
- see Reviews, **70**, 271.
- The Adams-Leverrier Affair*, NN, **70**, 2.
- The Adams-Leverrier Affair II*, NN, **70**, 20.
- The Time Inventors*, NN, **70**, 59.
- Quasars: The Continuing Enigma*, **71**, 40.
- see Reviews, **71**, 277.
- The Roosevelt of Astronomy. I*, NN, **71**, 9.
- The Roosevelt of Astronomy. II*, NN, **71**, 21.
- The Roosevelt of Astronomy. III*, NN, **71**, 42.
- In Praise of Uncles*, NN, **71**, 58.
- Hubble*, NN, **72**, 3.
- see Reviews, **73**, 46.
- People and Places: Collected Reminiscences of John Frederick Heard*, edited by, **73**, 53.
- People and Places: Collected Reminiscences of John Frederick Heard*, edited by, **73**, 109.
- People and Places: Collected Reminiscences of John Frederick Heard*, edited by, **73**, 177.
- The Director's Director*, NN, **73**, 67.
- Opening of the Canada-France-Hawaii Telescope*, **74**, 101.
- Photometry Among the Climatically Underprivileged*, **76**, 224.
- On the Go Again ...*, NN, **78**, 80.
- The Return of "Elms Lea"*, NN, **79**, 8.
- Nitrate You Say? Pity ...*, NN, **79**, 35.
- see Reviews, **89**, 38.
- Extracts From the Diaries of the University of Toronto Southern Observatory. IV. Pot-Pourri*, J. Donald Fernie, Barry F. Madore, Max Faúndez-Abans, Mart de Groot, Richard A. Crowe, Robert F. Garrison & Jaymie M. Matthews, **90**, 270.
- Fidler, Marie, *General Assembly at Calgary, May 17-20, 1968*, **62**, 115.
- Minutes of the Annual Meeting, May 16, 1970*, **64**, 203.
- General Assembly at Edmonton May 15-18, 1970*, NN, **64**, 9.
- Minutes of the Annual Meeting, May 22, 1971*, **65**, 137.
- General Assembly at Hamilton, May 21-24, 1971*, NN, **65**, 9.
- Minutes of the Annual Meeting, May 20, 1972*, **66**, 171.
- Jānis Arvids Bertolds Zariņš, 1908-1972*, **67**, 39.
- Minutes of the Annual Meeting May 26, 1973*, **67**, 205.
- Minutes of the Annual Meeting June 29, 1974*, **68**, 215.
- General Assembly at Winnipeg, June 28-July 1, 1974: RASC-AAVSO Joint Meeting*, NN, **68**, 21.
- About Our Authors*, **72**, 48.
- About Our Authors*, **72**, 107.
- About Our Authors*, **72**, 167.
- About Our Authors*, **72**, 220.
- About Our Authors*, **72**, 277.
- About Our Authors*, **72**, 335.
- About Our Authors*, **73**, 37.
- About Our Authors*, **73**, 103.
- About Our Authors*, **73**, 146.
- About Our Authors*, **73**, 223.
- About Our Authors*, **73**, 293.
- About Our Authors*, **73**, 380.
- About Our Authors*, **74**, 22.
- About Our Authors*, **74**, 92.
- About Our Authors*, **74**, 173.
- About Our Authors*, **74**, 237.
- About Our Authors*, **74**, 296.
- About Our Authors*, **74**, 353.
- About Our Authors*, **75**, 59.
- About Our Authors*, **75**, 108.
- About Our Authors*, **75**, 151.
- About Our Authors*, **75**, 209.
- About Our Authors*, **75**, 242.
- About Our Authors*, **76**, 58.
- About Our Authors*, **76**, 138.
- About Our Authors*, **76**, 205.
- About Our Authors*, **76**, 257.
- About Our Authors*, **76**, 314.
- About Our Authors*, **76**, 396.
- About Our Authors*, **77**, 52.
- About Our Authors*, **77**, 92.
- About Our Authors*, **77**, 147.
- About Our Authors*, **77**, 220.
- About Our Authors*, **77**, 246.
- About Our Authors*, **77**, 336.
- About Our Authors*, **78**, 48.
- About Our Authors*, **78**, 82.



- About Our Authors*, **78**, 127.  
*About Our Authors*, **78**, 163.  
*About Our Authors*, **78**, 196.  
*About Our Authors*, **78**, 255.  
*About Our Authors*, **79**, 22.  
*About Our Authors*, **79**, 100.  
*About Our Authors*, **79**, 143.  
*About Our Authors*, **79**, 182.  
*About Our Authors*, **79**, 227.  
*About Our Authors*, **79**, 312.  
*About Our Authors*, **80**, 55.  
*About Our Authors*, **80**, 109.  
*About Our Authors*, **80**, 152.  
*About Our Authors*, **80**, 210.  
*About Our Authors*, **80**, 263.  
*About Our Authors*, **80**, 351.  
*About Our Authors*, **81**, 19.  
*About Our Authors*, **81**, 61.  
*About Our Authors*, **81**, 105.  
*About Our Authors*, **81**, 142.  
*About Our Authors*, **81**, 160.  
*About Our Authors*, **81**, 226.  
*About Our Authors*, **82**, 31.  
*About Our Authors*, **82**, 79.  
*About Our Authors*, **82**, 146.  
*About Our Authors*, **82**, 212.  
*About Our Authors*, **82**, 269.  
*About Our Authors*, Marie Fidler & Peter Broughton, **82**, 359.  
*About Our Authors*, **83**, 42.  
*About Our Authors*, **83**, 132.  
*About Our Authors*, **83**, 219.  
*About Our Authors*, **83**, 252.  
*About Our Authors*, **83**, 293.  
*About Our Authors*, **83**, 428.  
*About Our Authors*, **84**, 48.  
*About Our Authors*, **84**, 132.  
*About Our Authors*, **84**, 228.  
*About Our Authors*, **84**, 281.  
*About Our Authors*, **84**, 354.  
*About Our Authors*, **84**, 397.  
*About Our Authors*, **85**, 51.  
*About Our Authors*, **85**, 107.  
*About Our Authors*, **85**, 139.  
*About Our Authors*, **85**, 172.  
*About Our Authors*, **85**, 281.  
*About Our Authors*, **85**, 377.  
*About Our Authors*, **86**, 54.  
*About Our Authors*, **86**, 110.  
*About Our Authors*, **86**, 153.  
*About Our Authors*, **86**, 210.  
*About Our Authors*, **86**, 266.  
*About Our Authors*, **86**, 331.  
*About Our Authors*, **87**, 64.  
*About Our Authors*, **87**, 119.  
*About Our Authors*, **87**, 161.  
*About Our Authors*, **87**, 250.  
*About Our Authors*, **87**, 342.  
*About Our Authors*, **87**, 392.  
*About Our Authors*, **88**, 83.  
*About Our Authors*, **88**, 143.  
*About Our Authors*, **88**, 169.  
*About Our Authors*, **88**, 272.  
*About Our Authors*, **88**, 352.  
*About Our Authors*, **88**, 404.  
Findlay, John A., *The 1972 Solar Eclipse*, NN, **65**, 13.  
*A Simple Procedure for Anodizing*, NN, **69**, 12.  
*The Partial Solar Eclipse of Dec. 13, 1974*, NN, **69**, 18.  
Finegold, Menahem, *Astronomy in Canadian Schools: A National Perspective*, Menahem Finegold & Heidi Kass, **79**, 257.  
Finsen, W. S., *Hertzsprung's Luminosity-Colour Relation for Visual Binaries*, W. S. Finsen & P. N. J. Wisse, **67**, 58.  
Finstad, K. J., *Two Alberta Fireballs in 1985*, R. E. Folinsbee, D. G. W. Smith, D. P. Hube, K. J. Finstad, **80**, 312.  
Fischer, W. A., *Improvements to the PDS Microdensitometer of the Dominion Astrophysical Observatory*, J. R. Stilburn, P. B. Stetson & W. A. Fischer, **86**, 140.  
Fitzgerald, D. J., *General Assembly Travel Grants*, NN, **71**, 16.  
*I'm Not Dead Yet!*, B, **1**, 1, 2.  
FitzGerald, M. Pim Vatter, *The Waterloo Meeting of the National Committee for Canada of the IAU*, M. Pim FitzGerald & John F. Heard, **62**, 189.  
*Comparison Between Spectral-Luminosity Classes on the Mount Wilson and Morgan-Keenan Systems of Classification*, **63**, 251.  
*Distribution of O to B9 Stars and Dust in a Region in Puppis ( $\ell = 245^\circ$ ,  $b = -0.2^\circ$ )*, W. J. F. Wilson & M. Pim FitzGerald, **66**, 254.  
*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 268^\circ$ ,  $b = -0.3^\circ$ )*, John E. Stegman & M. Pim FitzGerald, **66**, 303.  
*Distribution of O to A0 Stars in a Region in Vela ( $\ell = 277^\circ$ ,  $b = 0^\circ$ )*, John H. Moore & M. Pim FitzGerald, **67**, 291.  
*BD +47 781, A Spectroscopic Binary with H and K Emission*, **68**, 23.  
*Distribution of Giant M and Carbon Stars in a Region in Puppis ( $\ell = 246^\circ$ ,  $b = -0.6^\circ$ )*, Kenneth A. Kirton & M. Pim FitzGerald, **68**, 154.  
*A Simple and Accurate On-Line Data Acquisition Program*, M. Pim FitzGerald & Ian Shelton, **76**, 337.  
*The Regulation of the Ptolemaieia: A Hypothesis Explored*, R. A. Hazzard & M. Pim Vatter FitzGerald, **85**, 6.  
Fjeld, Paul, *Astronomy Day Report (2): March 13, 1989*, NNB, **83**, 53.  
Flegel, M. E., *An Observing Night in Chatham*, NN, **78**, 44.  
Fletcher, J. Murray, *A Study of the Spectroscopic Binary 47 Andromedae*, **61**, 56.  
*A Rapid Scanning Radial Velocity Spectrometer*, J. R. Stilborn, J. M. Fletcher & F. D. A. Hartwick, **66**, 49.  
*Spectrographic Observations of the Visual Binary Burnham 1163 During Periastron Passage*, **67**, 255.  
*Photoelectric Observations of Lunar Occultations at the DAO*, C. L. Morbey, J. M. Fletcher & G. Edwards, **72**, 305.  
*Revised Orbital Elements for the Spectroscopic Binary HD 92000 (36 Leo Minoris)*, A. H. Batten, J. M. Fletcher & Robert D. McClure, **77**, 241.

- The Frequency of Multiple Stellar Systems*, A. H. Batten & J. M. Fletcher, **83**, 289.
- Some Properties of the Population of Known Spectroscopic Binary Stars*, J. M. Fletcher & A. H. Batten, **84**, 44.
- A New Spectroscopic Orbit for Delta Capricorni*, A. H. Batten & J. M. Fletcher, **86**, 99.
- A New Spectroscopic Orbit for Delta Capricorni*, A. H. Batten & J. M. Fletcher, **86**, 269.
- Fleurant, S., *Experience D'Astronomie Avancee: Spectroscopie Moleculaire a Moyenne Dispersion de Jupiter et Saturn*, R. Boudreault, S. Fleurant & A. F. J. Moffat, **74**, 93.
- Floyd, G. R., *Optical and Chemical Studies on Simulated Interstellar Grain Materials*, J. D. McCullough, G. R. Floyd, B. H. Prince & W. W. Duley, **66**, 223.
- A Method of Forming Complex Molecules in Interstellar Space*, G. R. Floyd, R. H. Prince & W. W. Duley, **67**, 299.
- Fogle, Benson, *Recent Advances in the Research on Noctilucent Clouds*, **61**, 64.
- Folinsbee, R. E., *Vilna Meteorite — Camera, Visual, Seismic and Analytic Records*, R. E. Folinsbee, L. A. Bayrock, G. L. Cumming & D. G. W. Smith, **63**, 61.
- Two Alberta Fireballs in 1985*, R. E. Folinsbee, D. G. W. Smith, D. P. Hube & K. J. Finstad, **80**, 312.
- Fontaine, Gilles, see Reviews, **73**, 316.
- Les Variables de Type ZZ Ceti*, P. Lacombe & G. Fontaine, **74**, 147.
- Sirius B: Une Naine Blanche Encore Meconnue*, F. Wesemael & G. Fontaine, **76**, 35.
- Ford, Paul, see Reviews, **78**, 259.
- Forman, Julia, Martha L. Hazen & Julia Forman, see Reviews, **85**, 286.
- Fortier, George, *A Stellafane Adventure*, NN, **78**, 69.
- Stellafane 1988*, NN, **82**, 91.
- Fortier, Louis, *A Search for Density and Pressure Inversions in High-Temperature, Low-Gravity Model Atmospheres*, Ermanno F. Borra & Louis Fortier, **66**, 219.
- Foster, Tyler, *CCD Photometry of Nova Cassiopeiae 1993 With a Small Telescope*, Kerry Kijewski, Brian E. Martin, Tyler Foster & Douglas P. Hube, **89**, 43.
- Frail, Dale A., see Reviews, **79**, 274.
- Fraknoi, Andrew, *Exploring the Universe, A Syndicated Weekly Astronomy Column*, **74**, 240.
- Classroom Astronomer's Wanted*, B, **3**, 4, 2.
- Franz, Otto G., *Observational Procedures for Visual Double-Star Work*, **67**, 81.
- Fraser, A., *An Inexpensive Photometer for Amateur Astronomy*, R. Dick, A. Fraser, F. Lossing & D. Welch, **72**, 40.
- Freedman, Wendy, see Reviews, **76**, 266.  
see Reviews, **77**, 277.  
see Reviews, **78**, 95.
- Freeman, J. G., *A Latitude-Independent Sundial*, **72**, 69.
- Freeman, Rosemary, *Minutes of the Annual Meeting June 28, 1975*, **69**, 191.
- Remembering Marie Fidler*, **90**, 99.
- Many Thanks!*, B, **6**, 4, 2.
- Freitag, Ruth S., *The History of Comet Halley*, Donald K. Yeomans, Jürgen Rahe & Ruth S. Freitag, **80**, 62.
- Friedrich, Gordon, *Evaluation of Uranometria 2000.0*, NN, **82**, 41.
- Friesen, Don, *Night Skies in Cyprus Hills Provincial Park*, NNB, **84**, 18.
- Frueh, M. L., *HR 9053: A Lightly Reddened G Supergiant*, Nancy Remage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.
- Fry, D. J. I., *Data Acquisition at the RAO: Light Curves from the Optical and Infrared Telescopes*, E. F. Milone, T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J. E. Penfold, K. G. Robinson, A. R. Taylor & J. Van Leeuwen, **83**, 317.
- Fujita, Y., *A Search for Polyatomic Molecular Lines in the Photographic Spectral Region of Carbon Stars*, **71**, 115.
- Funakawa, H., *Coudé Radial Velocities of ζ Herculis*, C. D. Scarfe, H. Funakawa, P. A. Delaney & David J. Barlow, **77**, 126.

## G

- Gada, Andreas, *Astronomy for Campers*, Andreas Gada & Richard McWatters, NN, **68**, 29.
- To Centre or Not To Centre*, B, **2**, 4, 2.
- Gaizauskas, Barbara R., *The Harmony of the Spheres*, **68**, 146.
- Gaizauskas, Victor, see Reviews, **61**, 204.
- The Meeting of the National Committee for Canada of the IAU at Vancouver, May 2-3, 1969*, Jason R. Auman & V. Gaizauskas, **63**, 207.
- The Meeting for the National Committee for Canada of the IAU at London, September 4-6, 1969*, **63**, 309.
- The R. M. Petrie Lectures*, **63**, 318.
- The Meeting of the National Committee for Canada of the IAU at Kingston, March 13-14, 1970*, **64**, 177.
- The Meeting of the National Committee for Canada of the IAU at Ottawa, Ontario, October 23, 1970*, **65**, 44.
- Predictions of Local Circumstances Across Canada of the Total Solar Eclipse of July 10, 1972*, V. Gaizauskas, L. W. Avery & F. D. Manning, **65**, 107.
- Site Survey for a Solar Observatory in Canada*, V. Gaizauskas & A. Kryworuchko, **67**, 217.  
see Reviews, **67**, 263.
- Total Solar Eclipses in Canada: 1963-2024 AD*, V. Gaizauskas & L. W. Avery, **70**, 135.
- Sundial Made From a Microwave Antenna Honours Canada's Pioneer Radio Astronomer*, V. Gaizauskas, S. Gerylo & J. D. Moore, **74**, 174.  
see Reviews, **74**, 247.  
see Reviews, **77**, 100.  
see Reviews, **84**, 367.
- Galley, Dave, *Thunder Bay Centre Report*, B, **6**, 2, 15.
- Galna, Ron, *The Road to the Stars*, NN, **80**, 48.
- Galt, John A., see Reviews, **64**, 378.
- Dominion Radio Astrophysical Observatory*, **70**, 89.  
see Reviews, **72**, 233.
- Canadian Radio Astronomy — Past, Present, Future?*, **75**, 297.
- Beginnings of Long-Baseline Interferometry in Canada: A Perspective from Penticton*, **82**, 242.
- Observations of 1.4 GHz Continuum Emission from Jupiter During Its Collision With Comet Shoemaker-Levy 9*, John Galt & Susan Watkins, **89**, 135.

- Gamache, Len, *International Astronomy Day*, NN, **80**, 60.
- Garrison, Robert F., see Reviews, **66**, 282.
- Morphological Properties of Some Bright Southern Galaxies*, R. F. Garrison & N. R. Walborn, **68**, 117.
- see Reviews, **71**, 416.
- The Night-Sky Spectrum of the City of Toronto*, Mary C. Lane & R. F. Garrison, **72**, 198.
- Teaching "Life on Other Worlds"*, **75**, 255.
- MK Spectral Classification in the Praesepe Lower Main Sequence*, C. J. Corbally & R. F. Garrison, **77**, 28.
- The Spectrum of the Solar Disk*, R. F. Garrison & Linda Zimmerman, **77**, 78.
- How to Make the Best of a Poster Presentation*, Robert F. Garrison, Judith A. Irwin & John R. Percy, **79**, 317.
- The University of Toronto Southern Observatory: A Discussion of Productivity, 1979-1986*, R. F. Garrison & Brian Beattie, **84**, 246.
- see Reviews, **84**, 287.
- A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 151.
- A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 344.
- HR 9053: A Lightly Reddened G Supergiant*, Nancy Remage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.
- CASCA '92 Hyades Cluster Workshop*, David G. Turner, Robert F. Garrison & Stephen C. Morris, **88**, 303.
- Extracts From the Diaries of the University of Toronto Southern Observatory. IV. Pot-Pourri*, J. Donald Fernie, Barry F. Madore, Max Faúndez-Abans, Mart de Groot, Richard A. Crowe, Robert F. Garrison & Jaymie M. Matthews, **90**, 270.
- Garstang, R. H., *John Paul Cox (1926-1984)*, NN, **79**, 6.
- Gasbarini, Ron, *Niagara Centre Report*, B, **4**, 2, 14.
- Niagara Centre Report*, B, **5**, 2, 9.
- Niagara Centre Report*, B, **6**, 2, 12.
- Gélinas, Marc A., *La Mi-Venus*, NN, **77**, 28.
- Venus? Hmm ...*, *Fifty-Fifty*, NN, **77**, 28.
- Vue de Saturne au Mont Mégantic*, NN, **77**, 63.
- Projet d'Observation de la Dichotomie de Venus*, NN, **78**, 38.
- Vénus en Janvier 1985*, NN, **79**, 53.
- CAFTA 1986*, NN, **80**, 86.
- L'Astronomie En Couleur*, NN, **82**, 21.
- Nouvelles de la SAM*, NN, **82**, 43.
- La Lunette Apochromatique*, NN, **82**, 75.
- Du Nouveau à la Rédaction du Bulletin*, NNB, **83**, 72.
- Nouvelles de L'Été*, NNB, **83**, 72.
- Nouvelles du Québec*, NNB, **83**, 85.
- Nouvelles de Québec*, NNB, **84**, 9.
- Nouvelles du Québec*, NNB, **84**, 26.
- Nouvelles du Québec*, NNB, **84**, 40.
- L'Astronomie au Canada Français*, NNB, **84**, 54.
- L'Astronomie au Canada Français*, NNB, **84**, 78.
- L'Astronomie au Canada Français*, NNB, **84**, 85.
- La Nuit du Grand OVNI de Montréal*, B, **1**, 1, 4.
- La Dichotomie de Vénus en 1989-1990*, B, **1**, 2, 6.
- Astronomie le Long du Saint-Laurent*, B, **1**, 3, 8.
- La Dichotomie de Vénus en 1989-1990*, B, **1**, 3, 8.
- L'Astronomie en Couleur*, B, **1**, 4, 6.
- L'Astronomie sur Une Étoffe*, B, **2**, 1, 4.
- Montréal 350e, la SAM y Était*, B, **2**, 5, 5.
- Le Mauvais Oeil de L'Eclipse du 10 Mai*, B, **4**, 4, 4.
- Geller, Margaret J., *The Stickman, the Great Wall, and the HECTOSPEC: Large-Scale Structure in the Universe*, **88**, 283.
- Genet, R. M., *Microcomputers in Astronomy*, **78**, 49.
- George, Douglas P., *A Computer-Driven Astronomical Telescope Guidance and Control System With Superimposed Star Field and Celestial Coordinate Graphics Display*, Douglas P. George & L. Robert Morris, **83**, 32.
- The Journal Controversy*, B, **2**, 2, 6.
- RASC 2000*, B, **3**, 6, 3.
- see Reviews, **89**, 271.
- George, G. H., *Inside Black Holes*, **84**, 28.
- Inside Black Holes*, **84**, 283.
- Gerylo, S., *Sundial Made From a Microwave Antenna Honours Canada's Pioneer Radio Astronomer*, V. Gaizauskas, S. Gerylo & J. D. Moore, **74**, 174.
- Gibbons, Clive, *Stellar Spectroscopy — A Personal Approach*, NN, **73**, 74.
- The Moon's Better Half*, NN, **75**, 14.
- Ten Laws of Astrophotography*, NN, **77**, 35.
- Make Your Own Nagler*, NN, **81**, 11.
- I Remember the Good Old Days*, NN, **81**, 93.
- Seeing the Light*, B, **1**, 3, 1.
- Testing Jupiter's Disk*, B, **1**, 3, 2.
- see Reviews, **86**, 272.
- The Joys(?) of Astrophotography*, B, **3**, 1, 7.
- Elitist Men's Club?*, B, **3**, 4, 2.
- Obituary — Peter Moor*, B, **5**, 5, 7.
- Gibson, Brad K., *Liquid Mirror Telescopes: History*, **85**, 158.
- On the Influence of Supernova Remnant Thermal Energy in Powering Galactic Winds*, **88**, 383.
- Gies, Douglas R., see Reviews, **88**, 190.
- Gilchrist, Larry, *The Future of the Planetarium*, **64**, 64.
- Gingerich, Owen, *Ten Highlights of Astronomy, October 1966 - October 1967*, **62**, 83.
- see Reviews, **70**, 92.
- The Mysterious Nebulae, 1610-1924*, **81**, 113.
- Glinos, Tom, *London Centre Celebrates Diamond Anniversary*, NN, **76**, 26.
- Goguen, J., *The Nonuniform Recession of the South Polar Cap of Mars*, J. Veverka & J. Goguen, **67**, 273.
- Goldberg, B. A., *The Orbit and Nature of  $\theta^2$  Orionis A*, G. C. L. Aikman & B. A. Goldberg, **68**, 205.
- Goodson, R. E., *Astrometry of Extragalactic Objects from the Palomar Sky Atlas Prints*, A. H. Bridle & R. E. Goodson, **71**, 240.
- Goza, Walter L., *The Spectroscopic Orbits of the Binary Systems HD 91948 and HD 176318*, **65**, 277.
- Gould, James B., *A Home Built Planetarium*, **64**, 196.
- Gower, Ann C., *The 24th Annual Meeting of the Canadian Astronomical Society*, G. Christopher L. Aikman, Dennis R. Crabtree, Ann C. Gower, James E. Hesser, Christopher J. Pritchett & Russell M. Robb, **87**, 271.

- Graham, D. G., *Let the Search Begin or Shall We Offer a Reward?*, NN, **75**, 67.
- Graham, Elizabeth, see Reviews, **77**, 338.
- Graham, W. R. M., *Effect of H<sub>2</sub> Absorption on Interstellar Extinction by Core-Mantle Grains*, W. R. M. Graham & W. W. Duley, **65**, 63.
- Grant, Ian, *Composite Eclipse Photo*, B, **4**, 5, 5.
- Gray, David F., *The Search for Stellar Microturbulence*, David F. Gray & John C. Evans, **67**, 241.  
see Reviews, **76**, 63.  
see Reviews, **86**, 271.  
see Reviews, **89**, 239.
- Gray, Richard O., *The Spectroscopic and Photometric Effects of Rotation in the A-Type Stars*, **82**, 336.  
see Reviews, **85**, 113.
- HR 9053: *A Lightly Reddened G Supergiant*, Nancy Ramage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.
- Grayson, Jr., John, see Reviews, **89**, 124.
- Green, John J., see Reviews, **77**, 273.  
see Reviews, **77**, 343.  
see Reviews, **77**, 345.  
see Reviews, **78**, 55.  
see Reviews, **78**, 89.  
see Reviews, **78**, 136.
- Green, Lorna, *God and the Big Bang*, **79**, 160.
- Green, Norman, *Minutes of Annual Meeting, March 17, 1967*, **61**, 147.  
see Reviews, **61**, 347.  
see Reviews, **62**, 44.  
*Minutes of the Annual Meeting, March 15, 1968*, **62**, 114.  
*Minutes of the Annual Meeting, May 17, 1969*, **63**, 151.  
see Reviews, **63**, 171.  
*The McLaughlin Planetarium*, **64**, 111.  
*Dr. Helen Hogg Honoured*, NN, **70**, 58.
- Greenberg, L. H., *I Don't Know!*, **76**, 207.
- Greer, John, *Moving Into Space?*, NN, **75**, 36.
- Grey, Mary W., *Dominion Observatory*, **61**, 385.  
*Dominion Observatory*, **62**, 138.  
*Dominion Observatory*, **62**, 383.  
*Dominion Observatory*, **63**, 147.  
*Dominion Observatory*, **63**, 314.  
*Dominion Observatory*, **64**, 174.
- Grieve, R. A. F., *Impact Structures in Canada: Their Recognition and Characteristics*, P. B. Robertson & R. A. F. Grieve, **69**, 1.
- Griffin, Arthur A., *Summary of Drilling at the West Hawk Lake Crater*, Ian Halliday & A. A. Griffin, **61**, 1.  
*The Fireball of April 25, 1966. II, Photographic Observations and Orbit Determination*, **62**, 55.  
*The Dynamics and Orbit of an Iron Meteoroid*, **69**, 126.  
*The Pre-Discovery Observation of Nova Cygni 1975*, A. T. Blackwell, P. A. Feldman, A. A. Griffin & I. Halliday, **69**, 241.  
*The Innisfree Meteorite and the Canadian Camera Network*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **72**, 15.  
*The Kitchener Daylight Fireball of November 4, 1977*, A. A. Griffin & I. Halliday, **72**, 189.  
*Detailed Records of Many Unrecovered Meteorites in Western Canada For Which Further Searches are Recommended*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **83**, 49.  
*The Fall of the Abee Meteorite and Its Probable Orbit*, Arthur A. Griffin, Peter M. Millman & Ian Halliday, **86**, 5.  
Griffin, R. E. M., *A First Observation of the Chromospheric Spectrum of the  $\zeta$  Aurigae Binary HR 6902*, **82**, 49.  
*The Spectroscopic Orbit of HD 53299A*, C. D. Scarfe, R. Griffin & R. Griffin, **82**, 128.  
Griffin, R. F., *The Spectroscopic Orbit of BD +29 3805*, **73**, 266.  
*The Spectroscopic Orbit of HD 7308*, **74**, 348.  
*The Spectroscopic Orbit of HD 225292*, **75**, 222.  
*A Spectroscopic Orbit For  $\nu$  Draconis*, R. F. Griffin, Hugh C. Harris & Robert D. McClure, **77**, 73.  
*The Spectroscopic Orbit of HR 1878*, **78**, 151.  
*The Spectroscopic Orbits of HD 44780 and 65 Geminorum*, **80**, 91.  
*The Orbit of the Visual Binary KPR 114 (HR 8629)*, R. F. Griffin & W. D. Heintz, **81**, 3.  
*The Spectroscopic Orbit of HD 53299A*, C. D. Scarfe, R. Griffin & R. Griffin, **82**, 128.  
*An Improved Orbit for the Double-Lined Pleides Binary HD 23642*, **89**, 53.  
Griffith, J. S., *The Position of the Moon*, **64**, 5.  
see Reviews, **65**, 304.  
see Reviews, **66**, 175.  
*Celestial Mechanics in the Twentieth Century*, **66**, 193.  
*12th Canada-Wide Science Fair*, NN, **67**, 28.  
see Reviews, **78**, 227.  
Griffiths, J. S., *Celestial Mechanics — The Neglected Discipline*, **64**, 238.  
*Dynamical Astronomy at Texas*, **64**, 325.  
see Reviews, **64**, 379.  
Griffiths, S. C., *A Re-Examination of Mass-Luminosity Relations from Binary-Star Data*, S. C. Griffiths, R. B. Hicks & E. F. Milone, **82**, 1.  
*Data Acquisition at the RAO: Light Curves from the Optical and Infrared Telescopes*, E. F. Milone, T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J. E. Penfold, K. G. Robinson, A. R. Taylor & J. Van Leeuwen, **83**, 317.  
Grow, John, *Mythology and Astronomy*, NN, **71**, 44.  
Guenther, David, see Reviews, **82**, 35.  
Gulliver, Austin F., see Reviews, **73**, 394.  
*Preliminary Orbital Elements for the Am Binary HD 434*, Douglas P. Hube & Austin F. Gulliver, **79**, 49.  
Gupta, M. K. Das, *Some Studies on Geomagnetic Crochet-Associated Solar Optical Flares and Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 66.  
*Spectra of Different Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 152.  
*A Comparative Study of the Different Aspects of Impulsive and Gradual Rise and Fall Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 284.  
*Some Studies on the Spectra of the Different Components of the Absolute Solar Microwave Flux*, M. K. Das Gupta, T. Chattopadhyay & S. K. Sarkar, **70**, 185.  
Gupta, Rajiv, *Not Just Another Pretty Calendar*, B, **3**, 4, 9.  
*Hypered Film for Astrophotography*, B, **3**, 5, 3.  
*Medium-Format Astrophotography*, B, **4**, 1, 4.

1995 RASC Observer's Calendar, B, **4**, 5, 2.  
*Astrophotography — Field Rotation*, B, **4**, 5, 4.  
*The Digital Darkroom*, B, **4**, 6, 1.  
 Gupta, S. K., *An Electric Programmer for an Integrator*, **76**, 181.  
 Gush, H. P., *Beginnings of VLBI in Canada*, **82**, 221.  
 Gussie, Grant, *On the Diatomic and Triatomic Hydrogen Molecules in the Planetary Nebula NGC 7027*, Grant Gussie & Chris Pritchett, **82**, 69.

## H

Haasdyk, Ulrich, *1976 General Assembly*, NN, **70**, 31.  
*Quebec and Saskatoon Take Top Honours at Calgary*, Ulrich Haasdyk & Dunstan Pasterfield, NN, **70**, 65.  
*Trip to Totality: One Person's Experience*, B, **1**, 5, 6.  
 Hackett, Angelika, *Comet Halley: A View from Arizona*, NN, **80**, 43.  
 Hagen, Gretchen, *Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Remage & Vicki Watt, **61**, 339.  
 Hajsaleh, J., *A 3.8-4.2 GHz Solar Radio Telescope Using Satellite TV Components*, James A. Roberts, J. Hajsaleh & R. Benge, **88**, 233.  
 Hall, Cathy, *Kodak Publications*, NN, **69**, 7.  
*The Art of Comet Hunting*, NN, **69**, 46.  
*Stellafane 1978*, NN, **72**, 104.  
*National Council Update*, B, **4**, 6, 4.  
*National Council Update*, B, **5**, 1, 5.  
 Hallett, Nicholas, *Wanted: Back Issues of the Observer's Handbook*, NNB, **84**, 11.  
 Halley, Denis J., *Werhner von Braun Lectures in Toronto*, NN, **66**, 19.  
 Halliday, Ian, *Summary of Drilling at the West Hawk Lake Crater*, Ian Halliday & A. A. Griffin, **61**, 1.  
*X-Rays in Astronomy*, **61**, 43.  
*An Observation of the "Fata Morgana" in the Canadian Winter*, **61**, 74.  
*The Tektite Puzzle*, **61**, 86.  
 see Reviews, **61**, 95.  
 see Reviews, **61**, 96.  
*Large Redshifts*, **61**, 146.  
*Canadian Radio Astronomers Record Success*, **61**, 196.  
*Impact Craters of the Earth and Moon*, C. S. Beals & Ian Halliday, **61**, 295.  
*Stellar Spectra in the Far Ultraviolet*, **61**, 380.  
*A Closer Look at the Moon*, **62**, 39.  
*Comets of the Sun-Grazing Family*, **62**, 73.  
*Supernovae*, **62**, 119.  
 see Reviews, **62**, 129.  
*New Measures of Stellar Diameters*, **62**, 197.  
*Distortion of a Galactic Spiral Arm*, **62**, 263.  
*Cometary Gas Motions*, **62**, 381.  
*Seyfert Galaxies and Quasars*, **63**, 91.  
*The Meeting of the National Committee for Canada of the IAU at Ottawa, October 4-6, 1968*, **63**, 93.  
*Origin of the Solar System*, **63**, 137.  
*Motions in the Crab Nebula*, **63**, 215.  
*Russel Porter and the Canadian North*, **63**, 269.  
*Star Formation from Shock Waves*, **64**, 51.

*Mariners Report on Mars*, **64**, 191.  
*Meteorite Dust in the Atmosphere*, **64**, 319.  
*Explaining the Gegenschein*, **65**, 76.  
*Spiral Structure in Galaxies*, **65**, 135.  
 see Reviews, **65**, 139.  
*Tektite Debate Continues*, **65**, 296.  
 see Reviews, **66**, 281.  
 see Reviews, **66**, 284.  
*About Our Authors*, **66**, 310.  
*Satellites of the Outer Planets*, **66**, 314.  
 see Reviews, **68**, 161.  
*The Pre-Discovery Observation of Nova Cygni 1975*, A. T. Blackwell, P. A. Feldman, A. A. Griffin & I. Halliday, **69**, 241.  
*Editorial*, **69**, 323.  
 see Reviews, **71**, 275.  
*The Innisfree Meteorite and the Canadian Camera Network*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **72**, 15.  
*The Kitchener Daylight Fireball of November 4, 1977*, A. A. Griffin & I. Halliday, **72**, 189.  
 see Reviews, **72**, 229.  
 see Reviews, **72**, 299.  
 see Reviews, **73**, 353.  
*Canadian Astronomer Honoured in Czechoslovakia*, **75**, 60.  
*New Honorary Member of the RASC*, **75**, 152.  
*From the National President*, **75**, 280.  
*Solar-System Astronomy in Volumes 1-25 of the Journal of the RASC (1907-1931)*, **75**, 299.  
*Twenty-Fourth Meeting of the NRC Associate Committee on Astronomy*, **77**, 55.  
*Preparing For Halley's Comet*, **77**, 63.  
*Two More Minor Planets Named for Canadian Astronomers*, **79**, 26.  
*The Grande Prairie Fireball of 1984 February 22*, **79**, 197.  
*Detailed Records of Many Unrecovered Meteorites in Western Canada For Which Further Searches are Recommended*, Ian Halliday, Alan T. Blackwell & Arthur A. Griffin, **83**, 49.  
*Peter Mackenzie Millman, 1906-1990*, **85**, 67.  
*Peter Mackenzie Millman, 1906-1990*, B, **1**, 2, 3.  
*The Fall of the Abee Meteorite and Its Probable Orbit*, Arthur A. Griffin, Peter M. Millman & Ian Halliday, **86**, 5.  
*Letter to the Editor*, **90**, 161.  
 Hanson, S. D., *Boundary Line in North America*, S. D. Hanson & J. E. Kennedy, **84**, 231.  
*Excerpts From Simon Newcomb's Diary of 1860*, J. E. Kennedy & S. D. Hanson, **90**, 292.  
 Hardie, Robert H., *The Photometry of Visual Binaries*, **67**, 68.  
*Georges van Biesbroeck, 1880-1974*, **68**, 202.  
 Harding, P. J. R., *Site-Testing for a Proposed 12 MHz Radio Telescope in Alberta*, F. S. Chute, C. G. Englefield, P. J. R. Harding, C. R. James & D. Routledge, **65**, 49.  
 Harrington, Mary Anne, *Astrophotography — A First Attempt*, NN, **78**, 87.  
*1985 General Assembly Hosted by the Edmonton Centre*, NN, **79**, 64.  
*The 1986 General Assembly*, NN, **80**, 69.  
*The White Mountain*, NN, **81**, 86.

- Astronomical Conference — Victoria 1988*, NN, **82**, 68.  
*Cape Breton General Assembly*, NNB, **83**, 67.  
*Astronomy Week 1990*, NNB, **84**, 59.  
*Centennial General Assembly*, NNB, **84**, 66.  
*The September 28<sup>th</sup> Council Meeting*, B, **2**, 1, 3.  
*Minutes of the 1992 Annual Meeting*, B, **3**, 2, 20.  
*Minutes of the 1993 Annual Meeting*, B, **4**, 2, 24.  
*Toronto's Planetarium To Close*, B, **5**, 4, 3.
- Harris, D. E., *A Review of Extragalactic Non-Thermal Sources*, **74**, 109.
- Harris, Gretchen L. H., see Reviews, **72**, 173.  
 see Reviews, **74**, 374.  
 see Reviews, **79**, 43.  
 see Reviews, **79**, 43.  
 see Reviews, **79**, 43.  
 see Reviews, **79**, 43.  
 see Reviews, **80**, 220.  
 see Reviews, **80**, 220.  
 see Reviews, **80**, 220.  
 see Reviews, **80**, 220.  
 see Reviews, **80**, 220.  
 see Reviews, **80**, 220.
- Harris, Hugh C., *A Spectroscopic Orbit For  $\nu$  Draconis*, R. F. Griffin, Hugh C. Harris & Robert D. McClure, **77**, 73.
- Harris, J. N., *Projectiles, Parabolas, and Velocity Expansions of the Laws of Planetary Motion*, **83**, 207.
- Harris, William E., see Reviews, **73**, 163.  
 see Reviews, **73**, 163.  
*Extracts from the Diaries of the University of Toronto Southern Observatory. I. The Old Days*, **90**, 7.
- Hartwick, F. D. A., *A Rapid Scanning Radial Velocity Spectrometer*, J. R. Stilborn, J. M. Fletcher & F. D. A. Hartwick, **66**, 49.
- Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Hartz, T. R., see Reviews, **61**, 203.  
 see Reviews, **67**, 323.
- Hatt, Jennifer, *Detecting the Galactic Centre at 70 cm*, William Linc & Jennifer Hatt, **90**, 61.
- Hawker, Frank, *A Control Console for the Dunlap 74-Inch Telescope*, John F. Heard & Frank Hawker, **62**, 91.
- Hawkes, Bob, see Reviews, **90**, 240.
- Hawkes, Robert L., see Reviews, **83**, 264.  
*A Revised Canadian Fireball Reporting System*, Robert Hawkes & Damien Lemay, **87**, 140.  
 see Reviews, **88**, 189.
- Hawkins, Gerald S., *Some Background Information on Dr. Jean-René Roy's Paper on Callanish*, **74**, 10.
- Hawley, Glenn, *Astronomy Day Calgary 1988*, NN, **82**, 44.  
*Quo Ducit Urania*, NNB, **83**, 9.  
*Alberta Star Party 1991*, B, **1**, 6, 3.  
*Preamble to the Membership Survey*, B, **2**, 2, 1.  
*Calgary Centre Report*, B, **3**, 2, 4.  
*Calgary Centre Report*, B, **4**, 2, 8.
- Hay, Kim, *Kingston Centre Report*, B, **3**, 2, 9.  
*Kingston Centre Report*, B, **4**, 2, 11.
- Hayes, Wayne, see Reviews, **82**, 46.
- Hazen, Martha L., Martha L. Hazen & Julia Forman, see Reviews, **85**, 286.
- Hazzard, R. A., *The Regulation of the Ptolemaieia: A Hypothesis Explored*, R. A. Hazzard & M. Pim Vatter FitzGerald, **85**, 6.
- Head, Mel, *Thanks from Calgary*, B, **2**, 4, 5.
- Healy, Alison, *Report on the Perseid Meteor Shower 1984*, Alison Healy & Neil Laffra, NN, **78**, 84.
- Heard, John F., *Astronomy at the David Dunlap Observatory 1935-1967*, John F. Heard & Helen Sawyer Hogg, **61**, 257.  
*A Control Console for the Dunlap 74-Inch Telescope*, John F. Heard & Frank Hawker, **62**, 91.  
*Spectrographic Orbit and Photometric Observations of HD 217312 in the III Cephei Association*, J. F. Heard & J. D. Fernie, **62**, 99.  
*The Waterloo Meeting of the National Committee for Canada of the IAU*, M. Pim FitzGerald & John F. Heard, **62**, 189.  
*John Peter Hagen, Jr., 1941-1968*, **62**, 391.  
*The Spectrum of Nova Vulpeculae (1968)*, **63**, 45.  
*The Incorporation of the Royal Astronomical Society of Canada 1968 (The Society's New Constitution and By-Laws)*, **63**, 154.  
*Ruth Josephine Northcott*, **63**, 225.  
*Stellar Radial Velocities and Spectroscopic Binaries*, **64**, 209.  
 see Reviews, **65**, 90.  
 see Reviews, **66**, 280.  
*Goondiwindi Recalls 1922*, NN, **66**, 30.  
*The Orbit of the Am Spectroscopic Binary HD 82191*, John F. Heard & Roel Hurkens, **67**, 306.  
 see Reviews, **68**, 219.  
*Some Recollections of Mr. Van B*, NN, **68**, 23.  
*The Orbit of the Spectroscopic Binary HD 11291*, John F. Heard & Arno Krautter, **69**, 22.  
*The Orbit of the Double-Line Spectroscopic Binary HD 153720*, John F. Heard & Roel J. Hurkens, **69**, 25.  
*Andrew Thomson, O. B. E., M. A., D. Sc.*, **69**, 32.  
*David Dunlap Observatory Forty Years Old*, **69**, 141.  
 see Reviews, **70**, 45.  
*Studies of 12 (DD) Lacertae*, John F. Heard, Roel J. Hurkens, John R. Percy & Mario Porco, **70**, 213.
- Heartwell, Bryce, *Beginner's Guide to Astrophotography Part 1: Methods*, NN, **81**, 25.  
*Beginner's Guide to Astrophotography Part 2*, NN, **81**, 44.  
*Beginner's Guide to Astrophotography Part 3*, NN, **81**, 57.  
*Beginner's Guide to Astrophotography Part 4*, NN, **81**, 74.
- Heintz, Wulff D., *A Statistical Study of Binary Stars*, **63**, 275.  
*Orbital and Physical Parameters of Double Stars: Proceedings of Colloquium No. 18 of the International Astronomical Union Held at Swarthmore College, Pennsylvania, USA, April 12-15, 1972*, **67**, 49.  
*The Tools to Determine Orbital Parameters*, **67**, 52.  
*Multiple Systems*, **67**, 65.  
*The Orbit of the Visual Binary KPR 114 (HR 8629)*, R. F. Griffin & W. D. Heintz, **81**, 3.  
*The Binary Star 70 Ophiuchi Revisited*, **82**, 140.
- Henderson, Charles, *St. John's Centre Report*, B, **3**, 2, 14.
- Henriksen, R. N., see Reviews, **70**, 47.

- see Reviews, **72**, 239.  
 see Reviews, **74**, 183.  
*A Comment on the Formation of Spiral Galaxies*, M. de Robertis & R. N. Henriksen, **74**, 189.  
*A Model for Collimation of Supersonic Beams in Extragalactic Radio Sources*, A. H. Bridle, K. L. Chan & R. N. Henriksen, **75**, 69.  
 Henry, Richard C., see Reviews, **76**, 329.  
 see Reviews, **78**, 168.  
 see Reviews, **78**, 264.  
 Herbig, George H., *IC 349: Barnard's Merope Nebula*, **89**, 133.  
 Herzberg, Gerhard, *Astronomy and Basic Science*, **74**, 70.  
*Historical Remarks on the Discovery of Interstellar Molecules*, **82**, 115.  
 Hesser, James E., see Reviews, **72**, 358.  
 see Reviews, **72**, 358.  
*Below the Tip: New Controversies in Globular Cluster Research*, **76**, 69.  
*The Second STARLAB Joint Science Working Group Meeting*, Christopher Aikman, David Crampton & James E. Hesser, **76**, 209.  
*STARLAB: An International Observatory in Earth Orbit*, **77**, 310.  
*Eve Savory Award for Science Communication*, **84**, 438.  
*The 24th Annual Meeting of the Canadian Astronomical Society*, G. Christopher L. Aikman, Dennis R. Crabtree, Ann C. Gower, James E. Hesser, Christopher J. Pritchett & Russell M. Robb, **87**, 271.  
*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.  
 Hewitt, Susan, *A Call for More Scientific Truth in Product Warning Labels*, Susan Hewitt & Edward Subitsky, **B**, **1**, 5, 1.  
 Hewitt-White, Ken, *Letter to the Editor*, NN, **64**, 14.  
*Meteor Observations Continue in Ottawa*, NN, **64**, 22.  
*Apollo 17: The Beginning. We Hope*, NN, **67**, 7.  
*Geminid Shower A Bust (Again)*, NN, **69**, 18.  
 Heyden, Francis J., *Obituary*, David G. Turner & Francis J. Heyden, **83**, 250.  
 Hicks, John, *Photographing the Sun in Hydrogen Alpha*, NN, **76**, 18.  
*High Contrast Solar H-Alpha Photography for Amateur Astronomers*, NN, **76**, 67.  
*The Moon by Eye and Film*, Jillian Buriak & John Hicks, NN, **77**, 44.  
*Testimony to an Astronomer*, **B**, **5**, 3, 2.  
 Hicks, R. B., *A Re-Examination of Mass-Luminosity Relations from Binary-Star Data*, S. C. Griffiths, R. B. Hicks & E. F. Milone, **82**, 1.  
 Hicks, Ruth E., *Kingston Centre Report*, **B**, **5**, 2, 7.  
*Kingston Centre Report*, **B**, **6**, 2, 9.  
 Hicks, Steve, *A Twisted Tale About Sky Optical*, NNB, **83**, 5.  
 Hicks, Terence, *Rising and Setting Phenomena*, **88**, 86.  
 Hickson, Paul, *A Survey of Possible Observatory Sites in Southwestern British Columbia*, Paul Hickson & Philip D. Bennett, **83**, 122.  
 Higgs, Lloyd A., *Radio Emission from Gaseous Nebulae*, L. A. Higgs & K. V. V. Ramana, **62**, 5.  
 see Reviews, **62**, 77.  
*Optical Positions of 32 Planetary Nebulae*, **63**, 200.  
*Radio Confusion in the Galactic Plane*, **65**, 263.  
*Automatic Reduction of Radio Astronomical Maps: A Map of the W43 Region at 4.3 cm*, **67**, 123.  
*Note on the Widths of Radio Spectral Lines from Planetary Nebulae*, **68**, 295.  
 see Reviews, **69**, 49.  
 see Reviews, **69**, 196.  
*Profiles of Radio Recombination Lines*, **69**, 289.  
*Observations of 85 $\alpha$  Recombination Lines from W48*, J. M. McLeod, L. H. Doherty & L. A. Higgs, **71**, 377.  
 see Reviews, **71**, 472.  
*Editorial*, **72**, 1.  
*Meeting of the NRC Associate Committee on Astronomy*, **72**, 114.  
*Meeting of the NRC Associate Committee on Astronomy*, **72**, 339.  
*Meeting of the NRC Associate Committee on Astronomy*, **73**, 150.  
*Meeting of the NRC Associate Committee on Astronomy*, **73**, 311.  
*News from a New Member in Japan*, NN, **73**, 28.  
*Meeting of the NRC Associate Committee on Astronomy*, **74**, 27.  
*Editorial*, **74**, 31.  
*The Simon Newcomb Award*, **74**, 31.  
*Meeting of the NRC Associate Committee on Astronomy*, **74**, 178.  
*IAPPP, A New Forum for Amateur-Professional Co-Operation*, **74**, 297.  
*Editorial*, **74**, 369.  
*The Joys of a Journal Editor*, **75**, 316.  
 see Reviews, **77**, 227.  
*Discovery of a Remarkable Cometary-Shaped Radio Source*, Lloyd A. Higgs & Jacques P. Vallée, **78**, 155.  
*The Designation of Radio Sources Observed With the DRAO Synthesis Telescope*, **80**, 51.  
*Radio Observations of a Neglected 3C Source: 3C 428*, L. A. Higgs & J. P. Vallée, **80**, 180.  
*Long Range Goals for the RASC*, NN, **81**, 27.  
*The Plaskett Medal, Our Society's Newest Award*, **82**, 312.  
*The DRAO Galactic Plane Survey*, **83**, 105.  
*Russell Lectureship and Killam Prize*, **84**, 230.  
*Russell Lectureship and Killam Prize*, **84**, 356.  
*Preparing for the Future*, NNB, **84**, 30.  
*A 408-MHz Radio Survey of the Region Surrounding Simeis 57*, L. A. Higgs, T. L. Landecker, F. P. Israel & J. Bally, **85**, 24.  
 Hildebrand, Alan R., *The Cretaceous/Tertiary Boundary Impact (or The Dinosaurs Didn't Have a Chance)*, **87**, 77.  
 Hill, Graham, *Fifteenth General Assembly of the International Astronomical Union, Sydney, Australia, August 21- 30, 1973*, **68**, 89.  
 Hill, Grant M., *What is Normal Among the A-Type Stars?*, **88**, 359.

- Hill, Katherine E., *The View of Science in the Magazine OMNI*, **74**, 28.
- Hill, Richard S., *Letter to the Editor*, **89**, 264.  
*Are Globular Clusters Gravitational Mirages?*, **90**, 233.
- Hill, Roger, *Hamilton Centre Report*, B, **6**, 2, 7.
- Himer, James T., *2001: The Beginning of a New Decade*, NNB, **84**, 24.
- Hitchon, Keith, *NASA Summer Student Programme 1984*, NN, **79**, 9.
- Hladiuk, Don W., *Calgary Centre Members Experience Successful Eclipse Expedition*, NN, **74**, 31.  
*Astronomy in New Zealand*, NN, **76**, 9.  
*Calgary Centre: The Next 25 Years*, NN, **77**, 36.  
*Public Education Programmes in Astronomy*, **83**, 253.  
*Calgary Eclipse Trip*, B, **4**, 1, 3.
- Hlyniak, John, "Astronomy Compels the Soul", Doug Cunningham & John Hlyniak, **78**, 128.
- Hobdell, Bernard, *To All Members of the RASC*, NN, **75**, 28.
- Hodgson, Cecil E., *Memberships 1974*, NN, **67**, 25.
- Hogg, Helen Sawyer, *Some Contributions of R. M. Petrie to the Study of Groups of Stars*, **61**, 105.  
*Astronomy at the David Dunlap Observatory 1935-1967*, John F. Heard & Helen Sawyer Hogg, **61**, 257.  
see Reviews, **64**, 112.  
see Reviews, **64**, 112.  
see Reviews, **64**, 262.  
see Reviews, **65**, 92.  
see Reviews, **66**, 174.  
see Reviews, **66**, 177.  
*Variable Stars in Globular Clusters*, **67**, 8.  
*Harlow Shapley*, **67**, 31.  
*Harlow Shapley and Copernicus*, **67**, 39.  
see Reviews, **68**, 167.  
*Gerald Maurice Clemence, 1908-1974*, **69**, 136.  
*The AAVSO and Margaret Mayall*, NN, **69**, 1.  
see Reviews, **70**, 44.  
see Reviews, **70**, 44.  
*John Frederick Heard, 1907-1976*, **71**, 1.  
*The Bright Variable Stars in Messier 5*, Christine M. Coutts Clement & Helen Sawyer Hogg, **71**, 281.  
see Reviews, **71**, 336.  
see Reviews, **71**, 336.  
see Reviews, **73**, 169.  
*Victoria Revisited*, NN, **74**, 78.  
*Early Days of Astronomy at Toronto — Part I: The Toronto Astronomy Club*, **75**, 281.  
*Early Days of Astronomy at Toronto — Part II The Canadian Journal and the Activities of the Toronto Astronomical Club and Society 1868-1869*, **76**, 26.  
*Early Days of Astronomy at Toronto — Part III The Example of Ormsby MacKnight Mitchel and the Cincinnati Observatory*, **76**, 149.  
*Early Days of Astronomy at Toronto — Part IV The Total Solar Eclipse of August 7, 1869*, **76**, 235.  
*Two Centenaries: The Royal Society of Canada and the Last Transit of Venus, 1882*, **76**, 362.  
*Brief History of the Library of the Royal Astronomical Society of Canada*, NN, **77**, 22.  
*Memories of the Plaskett Era of the Dominion Astrophysical Observatory, 1931-1934*, **82**, 328.
- Holden, F. A., *Activities at the Centre: Saskatoon*, NN, **67**, 23.  
*Activities of the Centres: Saskatoon*, NN, **68**, 17.
- Holmgren, Dave, *Observations of a Variable Galaxy*, NN, **74**, 60.
- Horvatin, Tony, *Toronto Centre Report*, B, **4**, 2, 18.  
*Toronto Centre Report*, B, **6**, 2, 16.
- Howell, F. John, *Grazing and Total Lunar Occultations for the Amateur Astronomer*, **63**, 140.  
*Lunar Occultations: Recent Developments*, NN, **64**, 20.  
*The University of Calgary Astrophysical Observatory Opened*, **66**, 161.  
*Accurate Time*, NN, **70**, 44.  
*Mount Kobau Kaleidoscope*, NN, **82**, 88.  
*How Astronomer's Captured an Asteroid*, B, **1**, 4, 4.  
*The 1993 Alberta Star Party*, B, **3**, 6, 9.
- Hube, Douglas P., *The Spectrographic Orbit of H. D. 161701*, **63**, 229.  
*HD 176318: A Second Epoch Spectrographic Orbit*, **64**, 98.  
*The Spectrographic Orbit of HD 193964*, **67**, 161.  
*Radial Velocities of Stars with Moderately Broad-Lined Spectra*, **68**, 143.  
see Reviews, **68**, 278.  
see Reviews, **69**, 259.  
*Recent Results of Research in Astronomy*, NN, **69**, 16.  
*Sunspots and Agriculture*, NN, **69**, 16.  
*Astronomy Update: Results of Research in Astronomy*, NN, **69**, 28.  
*Astronomy Update: Results of Research in Astronomy*, NN, **69**, 40.  
*Astronomy Update*, NN, **69**, 72.  
*Astronomy Update*, NN, **70**, 10.  
*The University of Alberta Observatories*, NN, **70**, 29.  
*Astronomy Update*, NN, **70**, 29.  
*Astronomy Update*, NN, **70**, 44.  
*Astronomy Update*, NN, **70**, 71.  
*Astronomy Update*, NN, **70**, 84.  
*The U of A Campus Observatory*, NN, **71**, 4.  
*Astronomy Update*, NN, **71**, 6.  
*Astronomy Update*, NN, **71**, 23.  
*Astronomy Update*, NN, **71**, 40.  
*Astronomy Update*, NN, **71**, 60.  
see Reviews, **72**, 117.  
see Reviews, **72**, 117.  
*HD 193857: A Metallic-Line Binary*, **72**, 319.  
*Astronomy Update*, NN, **72**, 15.  
*A Redetermination of the Orbit of HD 192276*, Douglas P. Hube & Andrew Lowe, **74**, 342.
- Joan O. Hube & Douglas P. Hube, see Reviews, **74**, 373.  
*The Double-Lined Spectroscopic Binary HD 28475*, **77**, 142.  
*Edmonton Space Sciences Centre Opens*, NN, **78**, 83.  
*Preliminary Orbital Elements for the Am Binary HD 434*, Douglas P. Hube & Austin F. Gulliver, **79**, 49.  
*Two Alberta Fireballs in 1985*, R. E. Folinsbee, D. G. W. Smith, D. P. Hube & K. J. Finstad, **80**, 312.  
*A New Look at HD 93075*, **83**, 26.  
see Reviews, **85**, 118.  
*Spectroscopic Orbit Elements for the A-Type Binary HD 208509*, Douglas P. Hube & Alan H. Batten, **86**, 259.  
*Spectroscopic Orbital Elements for HD 51892*, **86**, 325.



- The Journal and the Financial State of the Society*, B, 2, 1, 6.
- The October 1993 Council Meeting*, Walter MacDonald & Doug Hube, B, 3, 6, 6.
- Charitable Donations and the RASC*, B, 3, 6, 11.  
see Reviews, 88, 281.
- Survey Comments*, B, 4, 1, 2.
- CCD Photometry of Nova Cassiopeiae 1993 With a Small Telescope*, Kerry Kijewski, Brian E. Martin, Tyler Foster & Douglas P. Hube, 89, 43.
- President's Report*, B, 5, 2, 3.
- Letter From the National President*, B, 5, 5, 3.
- Should CAT Owners Receive Certificates?*, B, 5, 5, 4.  
see Reviews, 90, 362.
- President's Report*, B, 6, 2, 3.
- Hube, Joan O., Joan O. Hube & Douglas P. Hube, see Reviews, 74, 373.
- Hughes, V. A., *Radio Flare on Beta Persei*, V. A. Hughes & A. Woodsworth, 66, 220.
- The Kingston Observatory*, 80, 124.
- Hujer, Karel, *On the History of the Copernican Manuscript De Revolutionibus Orbium Coelestium*, 62, 123.
- Sesquicentenary of the Royal Astronomical Society of London*, 65, 60.  
see Reviews, 69, 50.
- On the History of Wilhelm Von Biela and His Comet*, 77, 305.
- Hum, Simon, *Alberta Star Party*, NN, 81, 76.
- Humphreys, Roberta M., see Reviews, 76, 406.
- Huneault, Bert, *Shedding Light on WWV Solar Reports*, B, 3, 5, 5.
- How I Discovered Astronomy*, B, 4, 4, 5.
- Huneault, Lambert C., *Letter to the Editor*, 89, 225.
- Hunt, R. W., *A Five-Level Program for Ions of Astrophysical Research*, M. M. De Robertis, R. J. Dufour & R. W. Hunt, 81, 195.
- Hurd, David, *Solar Eclipse '88*, NN, 81, 72.
- Hurkens, Roel J., *The Orbit of the Am Spectroscopic Binary HD 82191*, John F. Heard & Roel Hurkens, 67, 306.
- The Orbit of the Double-Line Spectroscopic Binary HD 153720*, John F. Heard & Roel J. Hurkens, 69, 25.
- Studies of 12 (DD) Lacertae*, John F. Heard, Roel J. Hurkens, John R. Percy & Mario Porco, 70, 213.
- Orbital Elements for the Double-Line Spectroscopic Binaries HD 104451 and HD 141458*, C. T. Bolton, Matthew Bates & Roel Hurkens, 77, 18.
- Hurlburt, J., *Persian Gulf Not Arabian*, NNB, 83, 4.
- Hutchings, John B., *Dominion Astrophysical Observatory*, 64, 321.
- Dominion Astrophysical Observatory*, 65, 82.
- Dominion Astrophysical Observatory*, 65, 246.
- Dominion Astrophysical Observatory*, 66, 128.
- Dominion Astrophysical Observatory*, 66, 276.
- Dominion Astrophysical Observatory*, 67, 97.
- Dominion Astrophysical Observatory*, 68, 109.
- Dominion Astrophysical Observatory*, 68, 275.
- Dominion Astrophysical Observatory*, 69, 97.
- Dominion Astrophysical Observatory*, 69, 257.
- Dominion Astrophysical Observatory*, 70, 90.
- Dominion Astrophysical Observatory*, 70, 270.
- Dominion Astrophysical Observatory*, 71, 203.
- Dominion Astrophysical Observatory*, 71, 414.
- Dominion Astrophysical Observatory*, 72, 116.
- Dominion Astrophysical Observatory*, 72, 292.
- Dominion Astrophysical Observatory*, 73, 107.  
see Reviews, 73, 153.
- Dominion Astrophysical Observatory*, 73, 314.  
see Reviews, 73, 386.
- Dominion Astrophysical Observatory*, 74, 104.
- Dominion Astrophysical Observatory*, 74, 302.
- Dominion Astrophysical Observatory*, 75, 115.
- Dominion Astrophysical Observatory*, 76, 206.
- Searching for Black Holes*, David Crampton, J. B. Hutchings & A. P. Cowley, 77, 103.  
see Reviews, 80, 156.
- Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchet, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, 88, 39.
- New Results for the Hubble Constant*, 88, 407.
- Evolution of a Cluster of Galaxies*, 88, 409.
- Galaxies Then and Now*, 89, 68.
- New Black Hole Candidate in the Large Magellanic Cloud*, 89, 69.
- News From the CADC*, 89, 69.
- Classification of Medium Redshift Galaxies*, 89, 266.
- Gemini Project News*, 89, 266.
- The Canada-France-Hawaii Telescope and Gemini*, 90, 97.
- Huziak, Richard, *R Ursae Majoris*, Rick Huziak & Mike Wesolowski, NN, 74, 43.
- Halley Fever in New Zealand*, NN, 80, 29.
- A Cheap Red Night Light for Astronomy*, NNB, 83, 46.
- The Value of Fireball Reports from the General Public: The October 30, 1993 Western Canada Fireball as a Case Study*, Richard Huziak & Gordon Sarty, 88, 332.
- Saskatoon Centre Report*, Bill Hydromako & Richard Huziak, B, 4, 2, 16.
- Saskatoon Centre Report*, B, 5, 2, 13.
- The Saskatoon Centre's Temporary Membership Program*, B, 5, 4, 2.
- Saskatoon Centre Report*, B, 6, 2, 14.
- Hydomako, Bill, *Saskatoon Centre Report*, Bill Hydromako & Richard Huziak, B, 4, 2, 16.

## I

- Ilyas, Mohammad, *Earliest Global Visibility of the New Moon 1981-85*, 76, 371.
- The Danjon Limit of Lunar Visibility: A Re-Examination*, 77, 214.
- A Shifting Date Line: An Interesting Feature of the Solar Calendar*, 80, 134.
- Lunar Calendars: The Mission Date-Lines*, 80, 328.
- Innanen, Kimmo A., *A Note on the Radial Motion of Neutral Hydrogen in the Galactic Interior*, 61, 141.
- Astronomy and Astrophysics at York University*, K. A. Innanen & R. W. Nicholls, 63, 87.

- Illumination of High-Latitude Nebulae by the Central Region of the Galactic System*, **63**, 193.
- A Note on the Dynamics of the Bending of the Galaxy*, **63**, 260.
- Polaroid Film in Undergraduate Astronomical Photography*, K. A. Innanen, C. R. Purton, R. Berry & W. G. Weller, **66**, 157.
- A Teaching Astronomical Spectrograph*, K. A. Innanen & W. G. Weller, **66**, 189.
- A Theory for the Formation of the Galactic Stellar Halo*, K. A. Innanen & D. Keenan, **67**, 248.  
see Reviews, **69**, 98.
- The Ellipticities of the RR Lyrae Star Systems in Globular Clusters*, K. A. Innanen & Geraldine O'Brien, **71**, 47.
- On the Management of Daylight Saving Time in Southern Ontario*, K. A. Innanen & S. E. H. Innanen, **72**, 206.
- The Prediction and Discovery of a Martian Trojan Asteroid*, **85**, 151.
- Innanen, S. E. H., *On the Management of Daylight Saving Time in Southern Ontario*, K. A. Innanen & S. E. H. Innanen, **72**, 206.
- Irwin, G., *Atmospheric Water Vapour at Mt. Kobau and Calgary and Its Relevance to Infrared Astronomical Measurements*, T. A. Clarke & G. Irwin, **67**, 142.
- Irwin, Judith A., *How to Make the Best of a Poster Presentation*, Robert F. Garrison, Judith A. Irwin & John R. Percy, **79**, 317.
- From WYSIWYG to Haloes and Fountains: The Discovery of Galactic Structure*, **87**, 368.
- Isles, J. E., *The Purkinje Effect*, NN, **65**, 6.
- Israel, F. P., *A 408-MHz Radio Survey of the Region Surrounding Simeis 57*, L. A. Higgs, T. L. Landecker, F. P. Israel & J. Bally, **85**, 24.
- Israel, Werner, see Reviews, **74**, 248.  
see Reviews, **76**, 65.  
see Reviews, **88**, 195.
- Iverson, John, *Terrestrial and Celestial Fireworks*, B, **2**, 1, 8.
- Iwanowska, Wilhelmina, *Nicolaus Copernicus and Modern Science*, **67**, 105.
- Nicolaus Copernicus and Modern Science*, **67**, 207.
- J**
- Jackson, Peter, *Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Ramage & Vicki Watt, **61**, 339.
- James, C. R., *Site-Testing for a Proposed 12 MHz Radio Telescope in Alberta*, F. S. Chute, C. G. Englefield, P. J. R. Harding, C. R. James & D. Routledge, **65**, 49.
- Jarrell, Richard A., see Reviews, **67**, 154.  
see Reviews, **67**, 212.
- Origins of Canadian Government Astronomy*, **69**, 77.
- The Birth of Canadian Astrophysics: J. S. Plaskett at the Dominion Observatory*, **71**, 221.
- The Reception of Einstein's Theory of Relativity in Canada*, **73**, 358.  
see Reviews, **84**, 290.
- The Value of Astronomy for a Civilized Society*, **84**, 314.
- The Instrument Was Instrumental: Plaskett's Telescope and Canadian Astronomy Between the Wars*, **87**, 218.
- An Experimental Course in Astoronomy for Non-Science Students*, **88**, 148.  
see Reviews, **89**, 273.
- Jarvis, G. T., see Reviews, **76**, 145.
- Jean, Pierrette, *Observation à Montréal à L'Occasion de L'Arrivée du Surveyor 5 sur la Lune*, **62**, 43.
- Jedicke, Peter, see Reviews, **73**, 392.
- The 1979 RASC General Assembly*, NN, **73**, 54.
- Duty Free Astronomical Equipment???*, NN, **73**, 88.
- First Space Shuttle Launch Visit*, NN, **73**, 96.
- The Brightest Star that Shines*, **74**, 88.  
see Reviews, **75**, 160.
- Space Shuttle Launch Visit*, NN, **75**, 7.
- Why Would David Call Me Late at Night?*, NN, **75**, 39.
- Neutron Star*, NN, **76**, 13.
- Centre News*, Ralph Chou & Peter Jedicke, NN, **76**, 57.
- Centres Arrange Summer Observing Sessions*, NN, **76**, 74.
- Centre News*, NN, **77**, 10.
- Winter Activities of RASC Centres*, NN, **77**, 20.
- Across the RASC*, NN, **77**, 37.
- Across the RASC*, NN, **78**, 24, 42.
- Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59.
- Across the RASC*, NN, **78**, 73.
- Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 89.
- Neutrons, the Sun and Canada*, **81**, 221.  
see Reviews, B, **3**, 4, 8.  
see Reviews, **89**, 269.
- Minutes of the 1994 Annual Meeting*, B, **5**, 2, 18.
- Minutes of the 1995 Annual Meeting*, B, **6**, 2, 22.
- Minutes of the 1995 Annual Meeting*, B, **6**, 3, 2.
- Jedicke, Robert, *NFCAA Meets at Niagara Falls*, NN, **75**, 7.
- Neutrino Detectors as Early Warning Devices for Supernovae*, **83**, 116.
- Jedzrejewski, Robert, *Extracts From the Diaries of the University of Toronto Southern Observatory. II. The Night of the Supernova*, Barry F. Madore, Robert Jedzrejewski & Jaymie M. Matthews, **90**, 69.
- Jeffers, S., *Direct Photography with a Carnegie Image Tube*, **64**, 121.  
see Reviews, **72**, 234.
- Direct Imaging and Photometry with an Intensified Silicon Vidicon Detector*, **76**, 19.
- Jiang, Jonathan H., *HR 9053: A Lightly Reddened G Supergiant*, Nancy Ramage Evans, Jonathan H. Jiang, R. F. Garrison, R. O. Gray, T. G. Barnes, III & M. L. Frueh, **88**, 155.
- Johnson, R. G., *The Visibility of Galactic Supernovae*, P. C. Dawson & R. G. Johnson, **88**, 369.
- Kinematic Bias in Proper Motion Surveys*, P. C. Dawson, R. G. Johnson & A. J. Rorabeck, **89**, 201.
- Joncas, Gilles, *Analyse D'Une Des Caracteristiques des Etoiles Ap: La Depression a 5200 Å*, **74**, 261.
- Une Systeme Modulaire D'Interferometrie de Fabry-Perot Pour L'Imagerie et la Spectrometrie*, J.-R. Roy, R. Arsenault, R. Bisson & G. Joncas, **76**, 277.
- Jones, A. Vallance, *High Altitude Balloon Experiments to Study Oxygen in a Planetary Atmosphere*, W. F. J. Evans, A. Vallance Jones & E. J. Llewellyn, **61**, 82.
- Jones, F. Shirley, *Classification of Solar Prominences for Sun-Spot Cycle No. 19 (1955-1964)*, Donald H. Menzel

- & F. Shirley Jones, **62**, 124.  
 see Reviews, **79**, 29.  
 Jones, H. R. A., *Sanduleak -69° 202, Supernova 1987A and the Beginning of Neutrino Astronomy*, **85**, 235.  
 Joshi, U. C., *Study of the Open Cluster IC 1805*, U. C. Joshi & Ram Sagar, **77**, 40.  
 Jutting, Walter, *Letter to the Editor*, NN, **78**, 21.  
*Niagara Centre Report*, B, **3**, 2, 12.

## K

- Kahrkling, Angelika, *Observations of Solar Activity*, NN, **74**, 59.  
 Kaiser, N. *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.  
 Kamichitis, Joe, see Reviews, **87**, 349.  
 Kamper, Karl W., see Reviews, **69**, 199.  
 see Reviews, **73**, 108.  
*The Spectroscopic Orbit of HD 131511*, Karl W. Kamper & Ronald W. Lyons, **75**, 56.  
 see Reviews, **76**, 267.  
*Confirmation of the Decreased Pulsational Amplitude of Polaris*, Karl W. Kamper, Nancy Remage Evans & Ronald W. Lyons, **78**, 173.  
 see Reviews, **82**, 39.  
*A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 151.  
*A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder, Ian Shelton, **87**, 344.  
 see Reviews, **88**, 196.  
*Polaris Today*, **90**, 141.  
 Kasper, B. L., *An Interference-Excising Correlator for Radio Astronomy*, B. L. Kasper, F. S. Chute, D. Routledge & J. F. Vaneldik, **72**, 310.  
 Kass, Heidi, *Astronomy in Canadian Schools: A National Perspective*, Menahem Finegold & Heidi Kass, **79**, 257.  
 Kastner, Sidney O., *Calculation of the Twilight Visibility Function of Near-Sun Objects*, **70**, 153.  
 Kavadas, A., see Reviews, **61**, 98.  
 Kawaler, Steven, *The Habitable Sun: One of William Herschel's Stranger Ideas*, Steven Kawaler & J. Veverka, **75**, 46.  
 Kaye, Mark, *Tales From Beyond the Event Horizon*, B, **3**, 1, 8.  
 Keay, Colin S. L., *Radar Meteor Observations from Opposite Hemispheres*, **61**, 358.  
*Audible Sounds Excited by Aurorae and Meteor Fireballs*, **74**, 253.  
*C. A. Chant and the Mystery of Auroral Sounds*, **84**, 373.  
 Keenan, D., *A Theory for the Formation of the Galactic Stellar Halo*, K. A. Innanen & D. Keenan, **67**, 248.  
 Keep, Sean, *The Herschel House and Museum, 19 New King Street, Bath*, **82**, 148.  
 Kellerman, K. I., *The Origin and Evolution of the NRAO-Cornell VLBI System*, K. I. Kellerman & M. H. Cohen, **82**, 248.  
 Kelley, David H., *Charles Hugh Smiley, 1903-1977*, **72**, 46.  
 Kelly, Patrick, *The Halifax Planetarium*, NN, **78**, 46.  
*Topical Astronomy*, NN, **78**, 79.  
*Comet Bradfield: A Look Back*, NN, **82**, 46.  
*My First Editorial*, B, **1**, 1, 1.  
*My Second Editorial*, B, **1**, 2, 1.  
*Halley's Comet Time Capsule Sealed*, B, **1**, 4, 6.  
*My Third Editorial*, B, **2**, 2, 1.  
*Rainbows Over Woolsthorpe*, B, **2**, 4, 6.  
*Editor's Mailing List Update*, B, **2**, 4, 8.  
*Moonshadow, Moonshadow*, B, **3**, 1, 4.  
*Halifax Centre Report*, B, **3**, 2, 7.  
*Halifax Centre Report*, B, **4**, 2, 9.  
*A New Society Logo*, B, **4**, 4, 8.  
 see Reviews, **89**, 81.  
 see Reviews, **89**, 83.  
*Halifax Centre Report*, B, **5**, 2, 6.  
*National Council Report*, B, **6**, 4, 3.  
*Astronomical Amalgamation*, B, **6**, 5/6, 5.  
 Kelsch, Rick, *Annual or Annular?*, B, **4**, 4, 2.  
 Kemble, Lucian J., *Daytime and Twilight Observation*, NN, **70**, 69.  
*Useful Data for Polar Alignment*, NN, **77**, 58.  
*My "Roger Bacon Observatory"*, NN, **77**, 62.  
*Telescope Eyepiece Field in Arc and Time*, NN, **78**, 43.  
*Erratum in the Errata*, NN, **82**, 84.  
 see Reviews, **84**, 66.  
*Surprise*, B, **2**, 2, 3.  
 Kennedy, J. E., *Our Heritage in Canadian Astronomy*, **66**, 83.  
*A Tribute to Colonel R. S. McLaughlin*, **66**, 125.  
*Some Contributions of Canadian Astronomers to Solar Eclipse Expeditions*, **66**, 261.  
*Time and Its Measurement in Fredericton*, **66**, 311.  
 see Reviews, **67**, 42.  
*Annual Meeting — Meteoritical Society*, J. E. Kennedy & M. R. Dence, **68**, 41.  
*New Director of Royal Greenwich Observatory*, **68**, 42.  
*Presentation of an Historical Plaque*, NN, **68**, 2.  
*C. W. Lake Prize in Astronomy*, **69**, 44.  
*Rules, Rules and a Few Regulations*, NN, **69**, 22.  
*On the Solar Eclipse of 1860*, **70**, 74.  
*The Development of Astronomy in Fredericton, New Brunswick, Between 1847 and 1876*, **70**, 238.  
*Something Old — Something New*, NN, **71**, 23.  
*Are There Only Three of These in Canada?*, NN, **72**, 31.  
*More on Gregorian Telescopes*, NN, **73**, 4.  
*Still More on Gregorian Telescopes*, NN, **73**, 41.  
*Gregorians Are Still Turning Up*, NN, **74**, 68.  
*The Brydone Jack Lectures on Astronomy and Related Topics*, **75**, 132.  
*Balfour Watson Currie, 1902-1981*, **75**, 219.  
*"Earthquakes in the Air": The Seismological Theory of John Flamsteed (1693)*, J. E. Kennedy & W. A. S. Sarjeant, **76**, 213.  
*The Cabinet Cyclopaedia*, **77**, 153.  
*Contributions of W. B. Jack and W. F. King to the*

- Standardization of Early Surveying Instruments*, **79**, 130.  
*Draft of Instructions to the Officers Acting as Principal Astronomers in the British Commission for Defining the Boundary Line in North America Under the Treaty of Washington*, **79**, 313.  
*Redit Cometes Halleii*, NN, **79**, 83.  
*The Attraction of Schiehallion as Presented in a Lecture by Brydone Jack to a Fredericton Audience in 1856*, **80**, 197.  
*Boundary Line in North America*, S. D. Hanson & J. E. Kennedy, **84**, 231.  
*Sundial Society in Formation*, NNB, **84**, 29.  
*T. W. Webb's Classic Text*, B, **1**, 1, 7.  
*News Reaches the Colony*, B, **1**, 5, 8.  
*Historical and Modern Total Solar Eclipses*, B, **2**, 2, 4.  
*Canadian Astronomical History: 1991-1994*, B, **5**, 4, 12.  
*Excerpts From Simon Newcomb's Diary of 1860*, J. E. Kennedy & S. D. Hanson, **90**, 292.  
 Keppler, Rick, *Kobau 1993*, B, **3**, 6, 7.  
 Kestevan, M. J. L., *Index of Extragalactic Radio-Source Catalogues*, M. J. L. Kestevan & A. H. Bridle, **79**, 21.  
 Khaja, Najam, *The Light Curve of V1765 Cygni: A Close Binary System with a Supergiant Companion*, John R. Percy & Najam Khaja, **89**, 91.  
 Khan, Ray, *Telescope Care*, NN, **82**, 63.  
 Kijewski, Kerry, *CCD Photometry of Nova Cassiopeiae 1993 With a Small Telescope*, Kerry Kijewski, Brian E. Martin, Tyler Foster & Douglas P. Hube, **89**, 43.  
 Kim, D. Y., *The Solar-Neutrino Puzzle*, D. Y. Kim & S. I. H. Naqvi, **73**, 203.  
 King, H. C., *The Star of Bethlehem*, NN, **68**, 25.  
 see Reviews, **69**, 258.  
*On Planetarium Experiences, Old and New*, NN, **69**, 10.  
 King, Jim, see Reviews, **88**, 356.  
 Kingsburgh, Robin, *An Astronomical Experience for Gifted Children*, Robin Kingsburgh, Petrusia Kowalsky & John R. Percy, **82**, 154.  
 Kipp, Edward, *Lunar Occultations*, NN, **64**, 19.  
 Kirkcaldy, June, *The 1992 Mount Kobau Star Party*, B, **2**, 5, 3.  
 Kirland, R. J., *My Best Night?*, NN, **80**, 39.  
 Kirton, Kenneth A., *Distribution of Giant M and Carbon Stars in a Region in Puppis ( $\ell = 246^\circ$ ,  $b = -0.6^\circ$ )*, Kenneth A. Kirton & M. Pim FitzGerald, **68**, 154.  
 Knight, Gerry, *Mount Kobau 1987*, NN, **81**, 89.  
 Kollatt, T., *Cosmic Velocity Flows*, S. M. Faber, S. Courteau, A. Dekel, A. Dressler, T. Kollatt, J. A. Willick & A. Yahil, **88**, 92.  
 Können, G. P., *Periodicities of Eclipses*, G. P. Können & J. Meeus, **70**, 81.  
 Koo, David C., *Space-Time Probes of Large Scale Structure Evolution*, **87**, 379.  
 Kowalsky, Petrusia, *An Astronomical Experience for Gifted Children*, Robin Kingsburgh, Petrusia Kowalsky & John R. Percy, **82**, 154.  
 Krause, David J., *The Fireball of December 9, 1965 — Part I. Calculation of the Trajectory and Orbit by Photographic Triangulation of the Train*, Von Del Chamberlain & David J. Krause, **61**, 184.  
*The Fireball of December 9, 1965 — Part I.*, Von Del Chamberlain & David J. Krause, **61**, 390.  
 Kraus, John D., *Grote Reber, Founder of Radio Astronomy*, **82**, 107.  
 Krautter, Arno, *The Orbit of the Spectroscopic Binary HD 11291*, John F. Heard & Arno Krautter, **69**, 22.  
 Krieger, Charles J., *Quasars and Galaxies Observable With the Space Telescope*, **80**, 56.  
 Krisciunas, Kevin, *Look-Back Time, The Age of the Universe, and The Case for a Positive Cosmological Constant*, **87**, 223.  
 Kronberg, Philipp P., *New Radio Telescopes in Europe*, **64**, 105.  
*Canadian Astronomy: Manpower Supply and Demand*, R. C. Roeder & P. P. Kronberg, **64**, 315.  
*Cartes D'Intensité Totale du Quasar 3C 249.1 aux Fréquences 0695 MHz et 8085 MHz*, C. Faubert & P. P. Kronberg, **66**, 221.  
 see Reviews, **69**, 51.  
 see Reviews, **72**, 349.  
*The Future of VLBI*, **82**, 266.  
 Krosney, Bill, *Attention Telescope Makers*, NN, **82**, 41.  
 Krull, Ulrich J., *A Dream Come True*, NN, **76**, 21.  
 see Reviews, **77**, 163.  
 see Reviews, **77**, 163.  
 Krysko, Stewart, *A Fire in the Sky*, NN, **75**, 27.  
 Kryworuchko, A., *Site Survey for a Solar Observatory in Canada*, V. Gaizauskas & A. Kryworuchko, **67**, 217.  
 Kunej, Zeljko, *Courageous Astronomer*, B, **1**, 2, 2.  
 Kwok, Sun, *A Study of the Velocity Pattern of Maser Emission from Infrared Stars*, **70**, 49.  
*Workshop on Radio Stars*, P. A. Feldman & Sun Kwok, **73**, 271.  
*Star Dust, Mass Loss and the Late Stages of Stellar Evolution*, **74**, 216.  
*Symbiotic Stars*, **76**, 59.  
 see Reviews, **77**, 226.

## L

- Lacey, J. D., *A Spectroscopic Supersynthesis Radio Telescope*, **62**, 378.  
 Lacombe, P., *Les Variables de Type ZZ Ceti*, P. Lacombe & G. Fontaine, **74**, 147.  
 Laffra, Neil, *Occultation Observers, Extinct or in the Closet?*, NN, **74**, 38.  
*Report on the Perseid Meteor Shower 1984*, Alison Healy & Neil Laffra, NN, **78**, 84.  
 Laframboise, James G., *Planetary Citizen, A Reminiscence of the Space Age*, **87**, 389.  
 Lake, Kayall, see Reviews, **73**, 353.  
 see Reviews, **74**, 372.  
 see Reviews, **76**, 273.  
 Lake, R. G., *An Analysis of the Distribution of Redshifts of Quasars and Emission-Line Objects*, R. G. Lake & R. C. Roeder, **66**, 111.  
 Landecker, T. L., *A 408-MHz Radio Survey of the Region Surrounding Simeis 57*, L. A. Higgs, T. L. Landecker, F. P. Israel & J. Bally, **85**, 24.  
 Landstreet, J. D., see Reviews, **73**, 354.  
 Lane, David, *Questionnaire Results*, B, **5**, 5, 2.  
 Lane, David J., *MICRO-GUIDER: A Computerized Setting Circle/Database Device*, B, **1**, 6, 4.

- A New Publication for the RASC*, B, **4**, 4, 6.  
*The RASC Meets the Internet*, B, **5**, 4, 5.
- Lane, Mary C., *The Night-Sky Spectrum of the City of Toronto*, Mary C. Lane & R. F. Garrison, **72**, 198.
- Lange, Herbert A., *Nova Delphini 1967*, **64**, 311.
- Langlely, Richard, *Address of British Sundial Society*, NNB, **84**, 63.
- Larkin, Len, *Other Worlds*, NN, **82**, 45.
- Laurence, Bill, *Modifying for the Planets*, NN, **78**, 88.
- Lavallée, Omer, *The Application of Standard Time to Railways (Part I)*, NN, **79**, 2.  
*The Application of Standard Time to Railways (Part II)*, NN, **79**, 22.
- Lavery, Rick, *RASC Variable Star Observing Program*, NN, **65**, 4.
- Layden, Andrew, see Reviews, **90**, 107.
- Le Blanc, Jody, *The Joys of Country Living*, NN, **73**, 79.
- Leahy, Denis A., *Einstein Spectral and Imaging Observations of the Supernova Remnant MSH 14-63*, **90**, 128.
- Lee, Henry, *Activities at the Centre: Windsor*, NN, **67**, 20.  
*Activities of the Centres: Windsor*, NN, **68**, 18.  
*The Minutes of the Annual Meeting of July 2, 1989*, **83**, 431.  
*The Minutes of the Annual Meeting of July 2, 1990*, **84**, 399.  
*Many Thanks and Please Write!*, B, **2**, 1, 2.  
*The Twenty-Four Solar Terms of the Chinese Calendar*, B, **6**, 5/6, 4.  
*Chinese New Year 4694*, B, **6**, 5/6, 6.
- Lee, Pascal, see Reviews, **89**, 236.
- Leimanis, E., see Reviews, **61**, 45.
- Lemay, Damien, *Astrophotos*, NN, **70**, 40.  
*Les Asteroids*, NN, **71**, 31.  
*L'Observatoire du Collège de Lévis*, NN, **71**, 35.  
*Centres Francaise*, NN, **71**, 78.  
*Nouvelles des Centres Québécois*, NN, **72**, 18.  
*Centres Français*, NN, **72**, 34.  
*Nouvelles des Centres Québécois*, NN, **72**, 50.  
*Les Etoiles Doubles Binaires*, NN, **72**, 51.  
*Nouvelles des Centres Québécois*, NN, **72**, 75.  
*Nouvelles des Centres Québécois*, NN, **72**, 87.  
*Nouvelles des Centres Québécois*, NN, **73**, 6.  
*Fabrication d'un Réticule pour Oculaire Utilisé dans la Photographie Astronomique*, NN, **73**, 7.  
*Eclipse de Soleil du 26 Fevrier 1979*, NN, **73**, 34.  
*Nouvelles des Centres Québécois*, NN, **73**, 51.  
*Nouvelles des Centres Québécois*, NN, **73**, 73.  
*Nouvelles des Centres Québécois*, NN, **73**, 86.  
*Quebec Supplier can Render Special Services to Astrophotographers*, NN, **74**, 10.  
*Nouvelles des Centres Québécois*, NN, **74**, 11.  
*Nouvelles des Centres Québécois*, NN, **74**, 25.  
*Nouvelles des Centre Québécois*, NN, **74**, 49.  
*Nouvelles des Centres Québécois*, NN, **75**, 4.  
*Nouvelles des Centres Français*, NN, **75**, 20.  
*Nouvelles des Centres Français*, NN, **75**, 44.  
*Nouvelles des Centres Français*, NN, **75**, 75.  
*Un Atlas Photographique Avec Une Camera Schmidt de 14 cm*, **76**, 129.  
see Reviews, **76**, 335.  
*A Brief History of L'Association des Groupes d'Astronomes Amateurs (AGAA)*, NN, **76**, 3.  
*Un Rappel*, NN, **76**, 40.  
*Nouvelles des Centres Français*, NN, **76**, 56.  
*L'Assemblée Générale 1983 à Québec*, NN, **77**, 67.  
*Un Planétarium à L'Institut de Marine du CÉGEP de Rimouski*, **79**, 102.  
*Nouvelles du Centre de Québec*, NN, **80**, 45.  
*Nouvelles de L'AGAA*, NN, **81**, 6.  
*Résumé des Activités de L'AGAA en 1987*, NN, **82**, 15.  
*Editorial*, NN, **82**, 18.  
*Message du Président/Message from the President*, **84**, 294.  
see Reviews, **86**, 221.  
*A Revised Canadian Fireball Reporting System*, Robert Hawkes & Damien Lemay, **87**, 140.  
*Le Futur de L'Astronomie Amateur*, **87**, 244.  
see Reviews, **87**, 262.
- Leonard, Brenda, *Visiting Montreal's Seismographic Station*, NN, **81**, 13.
- Leonard, Peter J. T., *Photometry of the S Vul Cluster*, David G. Turner, Peter J. T. Leonard & Barry F. Madore, **80**, 166.  
*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.  
*On the Origin of the OB Runaway Stars*, **84**, 216.
- Lepock, James R., *Astrophysical and Biological Constraints on Radiopanspermia*, Jeff Secker, Paul S. Wesson & James R. Lepock, **90**, 184.
- Lester, John B., see Reviews, **71**, 417.
- Lester, Timothy P., *Theory of Planetary Photometry*, Timothy P. Lester, Marshall L. McCall & Jeremy B. Tatum, **73**, 233.
- Levy, David, *An Astronomy Program for Young Children*, NN, **74**, 39.  
see Reviews, **75**, 158.  
*Tucson Report*, NN, **75**, 11.
- Levy, David H., *Ideas Concerning the Human Factor in the Development of Modern Science*, **65**, 145.  
*The Art of Comet Hunting*, NN, **65**, 7.  
*The Eclipse at Jarnac Pond*, NN, **69**, 39.  
*Review: "The IAU and Its Triennial Congresses: A Talk by Dr. A. Vibert Douglas"*, NN, **72**, 42.  
*Some Unusual Educational Activities of the Kingston Centre*, **73**, 308.  
*The February 26, 1979 Eclipse*, NN, **73**, 33.  
*A Telescope Farm*, NN, **74**, 19.  
*Poet and Observer: Gerard Manley Hopkins and Some Mid-19th Century Comets*, **75**, 139.  
*Getting Started in Variables*, NN, **75**, 69.  
*Sliding to the Stars at Jarnac Observatory*, NN, **76**, 40.  
*A Visit to Kitt Peak's Solar Telescopes*, NN, **76**, 71.  
*Bok Thoughts*, **78**, 8.  
*Stars and Schools: Ideas for Presenting Astronomy in a Grade School Classroom (Part I)*, NN, **78**, 18.  
*Stars and Schools: Ideas for Presenting Astronomy in a Grade School Classroom (Part II)*, NN, **78**, 34.  
*The ALPO Comet and Meteor Sections*, NN, **78**, 78.  
*Shuttles and Seagulls*, NN, **78**, 82.  
see Reviews, **79**, 33.  
see Reviews, **79**, 34.

- Times Past: A Look at Earlier Days of the Montreal Centre's Observatory*, NN, **79**, 13.
- Fifty Years of Public Viewing: Notes on a 12-Inch Cassegrain on Mount Wilson*, NN, **79**, 18.
- Observer's Cage*, NN, **80**, 57.
- Observer's Cage*, NN, **80**, 79.
- Observer's Cage*, NN, **80**, 92.
- Observer's Cage*, NN, **81**, 8.
- Observer's Cage*, NN, **81**, 30.
- Observer's Cage*, NN, **81**, 43.
- Observer's Cage*, NN, **81**, 55.
- Saying Goodbye*, NN, **81**, 73.
- Astronomical Nationalism?*, NN, **81**, 85.
- Our Handbook*, NN, **82**, 5.
- Observer's Cage*, NN, **82**, 26.
- That Other Amateur Group*, NN, **82**, 42.
- Observer's Cage 13*, NN, **82**, 52.
- Your Sky*, NN, **82**, 73.
- Observer's Cage 15*, NN, **82**, 89.
- A Messier Marathon*, NNB, **83**, 10.
- What Do We Get From the Journal?*, NNB, **83**, 31.
- Observer's Cage*, NNB, **83**, 36.
- Observer's Cage*, NNB, **83**, 60.
- Lives*, NNB, **83**, 80.
- Music of the Spheres*, NNB, **83**, 89.
- Have You Ever Seen ...*, NNB, **84**, 8.
- Observer's Cage*, NNB, **84**, 26.
- Observer's Cage*, NNB, **84**, 48.
- Observer's Cage*, NNB, **84**, 64.
- The Art of Comet Hunting, Part II*, **88**, 5.
- Comet Shoemaker-Levy 9 and Jupiter: The Collision of the Century*, **90**, 42.
- Lew, Raymond, see Reviews, **78**, 267.
- Lewis, Ruth, *RASC Lighting Certificate*, B, **3**, 3, 5.
- Light Pollution Update*, B, **4**, 3, 5.
- Light, Edward S., *Total Solar Eclipses of Great Duration*, **66**, 295.
- Lilly, Simon J., see Reviews, **86**, 164.
- Linforth, D. J., *Solar Eclipse — S. E. Australia — 23 October 1976: October Average Weather Summary Along the Eclipse Path*, NN, **69**, 43.
- Ling, Alister, *A Meeting With Dr. Bart Bok*, NN, **76**, 12.
- Dew: What to Do About It*, NN, **80**, 9.
- A Deep Sky Project*, Alister Ling & Paul Brown, NN, **80**, 30.
- Thoughts on Light Pollution*, NN, **81**, 79.
- The Saguario Astronomy Club Database*, NNB, **83**, 57.
- Writing for Your Newsletter*, NNB, **83**, 63.
- Saguario Astronomy Club Database*, NNB, **84**, 25.
- Looking for A Penpal*, NNB, **84**, 32.
- see Reviews, **85**, 61.
- Ah, The Amateur Enjoys*, B, **1**, 1, 1.
- The Mazatlan Zenith Curse?*, B, **1**, 1, 2.
- A Cure for Some Headlights*, B, **1**, 3, 2.
- Some Observations of the Zodiacal Light*, B, **1**, 4, 8.
- An Ounce of Prevention ...*, B, **2**, 2, 2.
- The Small Moon Illusion*, B, **2**, 2, 5.
- Deep Sky Journal*, B, **2**, 3, 2.
- The Journal of the RASC: A Different Perspective*, B, **2**, 3, 6.
- Worlds in Collision?*, B, **3**, 1, 6.
- Is the New RASC Member a Client?*, B, **3**, 3, 3.
- Bicycles, Bubble Gum and Astronomy*, B, **3**, 3, 5.
- Look THAT Up in Your Observer's Handbook*, B, **3**, 3, 5.
- Keen for the Deep Sky?*, B, **3**, 4, 11.
- Unfair Criticism*, B, **3**, 5, 5.
- Observing in Twilight*, B, **4**, 5, 6.
- Alberta Star Party: Wet But Wonderful*, B, **4**, 6, 6.
- Eclipse Damage: A Burning Issue*, B, **5**, 1, 8.
- Names and Lists*, B, **6**, 1, 1.
- Linke, Trish, *On Purchasing a Nebular Filter*, NN, **74**, 47.
- Linkletter, R. L., *Mizar and Alcor A Two Ring Circus*, NN, **73**, 51.
- Linkletter, Richard, *El Chichon and the Umbra*, NN, **77**, 24.
- The Lunar Eclipse — A Different View*, NN, **77**, 24.
- Lissauer, Jack L., see Reviews, **79**, 320.
- Livesey, R. J., *Management and the Amateur Astronomical Society*, NN, **75**, 63.
- The BAA Encourages Canadian Aurora Observers*, NN, **77**, 51.
- Llewellyn, E. J., *High Altitude Balloon Experiments to Study Oxygen in a Planetary Atmosphere*, W. F. J. Evans, A. Vallance Jones & E. J. Llewellyn, **61**, 82.
- Locke, J. L., *Recent Developments in Radio Astronomy in Canada*, **61**, 324.
- see Reviews, **63**, 170.
- The Canada-France-Hawaii Telescope*, **67**, 203.
- Report on Construction of the Canada-France-Hawaii Telescope*, **71**, 9.
- Carlyle Smith Beals 1899-1979*, **73**, 325.
- The Twentieth Anniversary of Long-Baseline Interferometry*, **82**, 219.
- Carman Hudson Costain, 1932-1989*, **84**, 243.
- Loede, F., *Activities at the Centre: Edmonton*, NN, **67**, 21.
- Loehde, Franklin C., see Reviews, **87**, 348.
- see Reviews, **89**, 238.
- LoGuirato, June, *Newsletters from the Various RASC Centres*, June LoGuirato & Peter H. Ashenhurst, NN, **71**, 40.
- Lohvinenko, Todd, *A Mysterious Object*, NN, **77**, 19.
- Palms Up!*, B, **1**, 5, 2.
- Lessons from a Partial Solar Eclipse*, B, **3**, 4, 4.
- Lonc, W., *Bibliography for Amateur Radio Astronomy*, NN, **73**, 89.
- Lonc, William, *Vatican Observatory: 100th Anniversary*, **85**, 378.
- A Radio Telescope for the Discovery Park*, William Lonc & Robert Shultz, **89**, 106.
- The Sun's Temperature at  $\lambda = 5$  Centimetres*, William Lonc & Na Han Chan, **89**, 118.
- Detecting the Galactic Centre at 70 cm*, William Lonc & Jennifer Hatt, **90**, 61.
- Lonc, William P., *Radio Astronomy Rediscovered*, Sherri Aker & William P. Lonc, **81**, 65.
- Undergraduate Experiments in Radio Astronomy*, **83**, 45.
- Lossing, F., *An Inexpensive Photometer for Amateur Astronomy*, R. Dick, A. Fraser, F. Lossing & D. Welch, **72**, 40.
- Lossing, Fred, *The James Hargreaves Gift*, NN, **72**, 56.
- Cleaning Aluminized Telescope Mirrors*, NN, **73**, 66.
- Activities in the Centres: A Short History of the Ottawa Centre's 0.4 m Telescope*, **75**, 325.

- How Few Photons Per Second Can You See?*, NN, **78**, 11.  
 Low, Jim, *Ramblings of an Armchair Astronomer*, B, **1**, 3, 7.  
*The "Old" Name's History*, B, **1**, 4, 2.  
*People Sharing the Wonder*, B, **3**, 6, 2.  
*Armchair Astronomer's Heaven*, B, **4**, 4, 1.  
 Lowe, Andrew, *A Redetermination of the Orbit of HD 192276*, Douglas P. Hube & Andrew Lowe, **74**, 342.  
*Past and Future Total Solar Eclipses Over Some Canadian Cities*, **76**, 309.  
*An Occultation by 690 Wratislavia*, NN, **77**, 39.  
*November's Marine Eclipse*, NN, **79**, 60.  
 Lowe, T. B., *The Anti-Tail of Periodic Comet Machholz 1986 VIII*, J. B. Tatum, D. D. Balam & T. B. Lowe, **85**, 91.  
 Lu, Wenxian, *Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.  
 Luchik, A., *A Delayed Annual Report*, NN, **66**, 33.  
 Luck, R. Earle, see Reviews, **81**, 70.  
 Lucyk, Jim, *More About Uranometria 2000.0*, see Reviews, NN, **82**, 55.  
 Lund, Jane, *Ottawa Centre Report*, B, **3**, 2, 13.  
*Ottawa Centre Report*, B, **4**, 2, 14.  
*Ottawa Centre Report*, B, **5**, 2, 10.  
*Ottawa Centre Report*, B, **6**, 2, 13.  
 Lyons, Ronald W., *Recent Observations of HD 127617 — Bidelman's High-Latitude Be Star*, David G. Turner & Ronald W. Lyons, **74**, 12.  
*The Spectroscopic Orbit of HD 131511*, Karl W. Kamper & Ronald W. Lyons, **75**, 56.  
*On the Need for a New Spectroscopic Standard for MK Spectral Type B0III*, David G. Turner & Ronald W. Lyons, **77**, 87.  
*Confirmation of the Decreased Pulsational Amplitude of Polaris*, Karl W. Kamper, Nancy Remage Evans & Ronald W. Lyons, **78**, 173.
- ## M
- MacConnell, Robert, *The Maple Grove Astronomy Club*, NNB, **83**, 62.  
*Maple Grove Astronomy Club*, NNB, **84**, 63.  
 MacDonald, Blair, *Little More Than Orange Juice?*, B, **5**, 3, 2.  
 MacDonald, Walter, *Eclipse!*, NN, **77**, 40.  
*The Questar 12 Experience*, NN, **80**, 15.  
*Canadian Astronomer in Disgrace*, B, **2**, 2, 5.  
*The October 1993 Council Meeting*, Walter MacDonald & Doug Hube, B, **3**, 6, 6.  
*Council Highlights*, B, **4**, 2, 2.  
*National Council Update*, B, **4**, 4, 3.  
 Mackenzie, Dominique, *Montréal Centre Report*, B, **4**, 2, 13.  
 MacKinnon, Peter K., *The Ottawa Centre Library*, NN, **78**, 75.  
 MacLachlan, James, see Reviews, **66**, 173.  
 MacLeod, John M., see Reviews, **65**, 91.  
 see Reviews, **68**, 277.  
*Astronomy Section, HIA*, **72**, 341.  
 see Reviews, **73**, 166.  
*Astronomy Section, HIA*, **74**, 34.  
 MacRae, Donald A., *David Dunlap Observatory*, **61**, 47.  
*David Dunlap Observatory*, **61**, 198.  
*David Dunlap Observatory*, **62**, 41.  
*David Dunlap Observatory*, **62**, 199.  
*David Dunlap Observatory*, **63**, 51.  
*David Dunlap Observatory*, **63**, 217.  
*David Dunlap Observatory*, **64**, 60.  
*David Dunlap Observatory*, **64**, 254.  
 see Reviews, **64**, 261.  
*David Dunlap Observatory*, **65**, 41.  
*Victor Ben Meen, 1910-1971*, **65**, 97.  
*David Dunlap Observatory*, **65**, 184.  
*David Dunlap Observatory*, **66**, 75.  
*David Dunlap Observatory*, **66**, 229.  
*David Dunlap Observatory*, **67**, 200.  
 see Reviews, **74**, 106.  
*Chaos at DDO*, NN, **75**, 56.  
*Chaos Epilogue*, NN, **75**, 77.  
*Professor H. L. Welsh, 1910-1984*, **79**, 109.  
 see Reviews, **80**, 116.  
 Madore, Barry F., see Reviews, **74**, 310.  
 see Reviews, **76**, 408.  
 see Reviews, **78**, 51.  
 see Reviews, **78**, 51.  
 see Reviews, **80**, 155.  
*Photometry of the S Vul Cluster*, David G. Turner, Peter J. T. Leonard & Barry F. Madore, **80**, 166.  
 see Reviews, **82**, 305.  
*New Eyes for Astronomy*, **83**, 269.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. II. The Night of the Supernova*, Barry F. Madore, Robert Jedzrejewski & Jaymie M. Matthews, **90**, 69.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. IV. Pot-Pourri*, J. Donald Fernie, Barry F. Madore, Max Faúndez-Abans, Mart de Groot, Richard A. Crowe, Robert F. Garrison & Jaymie M. Matthews, **90**, 270.  
 Majden, E. P., *Stellar Photoelectric Photometry for Amateurs*, NN, **66**, 1.  
 Maley, Paul D., *In Search of Satellites of Minor Planets*, **74**, 327.  
 Malicki, Chris, *Deep Sky Observing*, NN, **77**, 58.  
 Manning, F. D., *Predictions of Local Circumstances Across Canada of the Total Solar Eclipse of July 10, 1972*, V. Gaizauskas, L. W. Avery & F. D. Manning, **65**, 107.  
 Manseau, Réal, *Le Temps: La Mesure de L'Astronomie*, NN, **73**, 86.  
*Le Théodolite*, NN, **76**, 27.  
 Marafie, Abdul Ilah, *The Wafra Observatory*, NN, **81**, 92.  
*Arabian, not Persian Gulf*, NN, **82**, 41.  
 Markov, Paul, *A Successful Messier Marathon*, B, **2**, 5, 6.  
*A Successful Messier Marathon*, B, **3**, 1, 3.  
*Another Successful Messier Marathon*, B, **6**, 3, 4.  
 Marlborough, J. M., see Reviews, **72**, 230.  
 Marsden, Brian G., *Carl Friedrich Gauss, Astronomer*, **71**, 309.  
 Marsh, Patricia, *Hamilton Centre Report*, B, **3**, 2, 8.  
 Marshall, J. W. S., *The Joy of Gazing Now Available*, NN, **77**, 48.  
 Martin, Brian E., *CCD Photometry of Nova Cassiopeiae 1993 With a Small Telescope*, Kerry Kijewski, Brian E.

- Martin, Tyler Foster & Douglas P. Hube, **89**, 43.
- Mateo, Mario, see Reviews, **84**, 363.
- Mattei, Janet Akyüz, *RV Pegasi*, **67**, 269.  
*Variable Star Notes*, **68**, 48.  
*Notes on Peculiarities on AAVSO Light Curves in 1973*, **68**, 112.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1973*, **68**, 169.  
*Variable Star Notes*, **68**, 221.  
*Variable Star Notes*, **68**, 281.  
*Variable Star Notes*, **69**, 53.  
*Notes on Peculiarities on AAVSO Light Curves in 1974*, **69**, 101.  
*Notes on U Geminorum and Z Camelopardalis Variables During 1974*, **69**, 149.  
*Variable Star Notes*, **69**, 201.  
*Variable Star Notes*, **69**, 261.  
*Nova Aquilae (V101 Aql); Nova Scuti (V373 Sct); Nova Cygni (V1500 Cyg)*, **69**, 319.  
*Notes on Peculiarities on AAVSO Light Curves in 1975*, **70**, 93.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1975*, **70**, 209.  
*The Symbiotic Star — CI Cygni*, **70**, 325.  
*The Recent Activities of R Corona Borealis and SU Tauri*, **70**, 327.  
*Notes on Peculiarities on AAVSO Light Curves in 1976*, **71**, 217.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1976*, **71**, 343.  
*Visual Observations of  $\theta$ 1 Orionis A*, Marvin E. Baldwin & Janet A. Mattei, **71**, 475.  
*The Symbiotic Star — Z Andromedae*, **72**, 61.  
*NQ Vulpeculae (Nova Vulpeculae 1976)*, **72**, 178.  
*Notes on the Behaviour of SS Cygni and U Geminorum During 1977, and Some Light Curves from AAVSO Report 38/39*, **72**, 301.  
*Nova Serpentis 1978 and the Minimum of R Corona Borealis During 1978*, **73**, 50.  
*R Aquarii — A Unique Long-Period Variable*, **73**, 173.  
*The 1978 Outburst of the Cataclysmic Variable WZ Sagittae*, **74**, 53.  
*V1668 Cygni (Nova Cygni 1978)*, **74**, 185.  
*Optical Behaviour of SS Cygni in 1978 and 1979*, **74**, 317.
- Mattei, Michael, see Reviews, **87**, 130.
- Matthews, B. L., *How Do You Observe ... ?*, NN, **68**, 4.  
 see Reviews, **71**, 473.
- Matthews, Barry, *News from Eastern Centres*, NN, **71**, 77.  
*RASC "East"*, NN, **72**, 37.  
*"Problicom" — Threshold to Discovery*, NN, **73**, 10.  
*From the Eastern Centres*, NN, **73**, 12.  
*Pick Your Pollution Now*, NN, **73**, 24.
- Matthews, Jaymie M., *First Launch of the Space Shuttle*, NN, **75**, 42.  
 see Reviews, **83**, 334.  
 see Reviews, **87**, 128.  
*The Puzzling and Perplexing Problem of the Pulsation of Polaris*, **88**, 273.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. II. The Night of the Supernova*, Barry F. Madore, Robert Jedzrejewski & Jaymie M. Matthews, **90**, 69.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. III. Our Lady of Tilden and Other Tales*, **90**, 115.  
*Extracts From the Diaries of the University of Toronto Southern Observatory. IV. Pot-Pourri*, J. Donald Fernie, Barry F. Madore, Max Faúndez-Abans, Mart de Groot, Richard A. Crowe, Robert F. Garrison & Jaymie M. Matthews, **90**, 270.
- Mayall, Margaret W., *Variable Star Notes*, **61**, 49.  
*Variable Star Notes*, **61**, 101.  
*Notes on U Geminorum-Type Variables During 1966*, **61**, 155.  
*Variable Star Notes*, **61**, 207.  
*T Pyxidis*, **61**, 349.  
*The XIII General Assembly of the IAU*, **61**, 391.  
*Nova Delphini 1967*, **61**, 392.  
*Variable Star Notes*, **62**, 45.  
*Miscellaneous Notes on Peculiarities Observed in the AAVSO Light Curves During 1967*, **62**, 93.  
*Notes on U Geminorum-Type Variables During 1967*, **62**, 141.  
*The Novae of 1967-1968*, **62**, 201.  
*Variable Star Notes*, **62**, 265.  
*Variable Star Notes*, **62**, 395.  
*Variable Star Notes*, **63**, 53.  
*Remarks on Some Peculiarities Noticed in the AAVSO Light Curves for 1968*, **63**, 101.  
*Notes on U Geminorum-Type Variables During 1968*, **63**, 173.  
*Variable Star Notes*, **63**, 221.  
*Variable Star Notes*, **63**, 271.  
*Variable Star Notes*, **63**, 321.  
*Variable Star Notes*, **64**, 69.  
*Remarks on Some Peculiarities Noticed in the AAVSO Light Curves for 1969*, **64**, 117.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1969*, **64**, 205.  
*Variable Star Notes*, **64**, 263.  
*Variable Star Notes*, **64**, 327.  
*U Canis Majoris*, **64**, 383.  
*Variable Star Notes*, **65**, 45.  
*Notes on Peculiarities in AAVSO Light Curves During 1970*, **65**, 93.  
*Notes on U Geminorum and Z Camelopardalis Variables During 1970*, **65**, 141.  
*Variable Star Notes*, **65**, 191.  
*U Geminorum*, **65**, 247.  
*A Short Period Variable with Changing Period*, **65**, 307.  
*Variable Star Notes*, **66**, 79.  
*Notes on Peculiarities in AAVSO Light Curves During 1971*, **66**, 131.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1971*, **66**, 179.  
*RY Sagittarii*, **66**, 233.  
*Variable Star Notes*, **66**, 285.  
*Variable Star Notes*, **66**, 325.  
*Notes of Peculiarities in AAVSO Light Curves During 1972*, **67**, 101.  
*Notes on U Geminorum and Z Camelopardalis Type Variables During 1972*, **67**, 157.



- Variable Star Notes*, **67**, 213.  
*Variable Star Notes*, **67**, 271.
- Mayall, N. U., *Facilities for Visitors at KPNO and CTIO*, **62**, 85.  
*Sites for Optical Telescopes*, **63**, 46.
- Mayer, Ben, *Finding Comet Halley by Projection Blinking*, NN, **79**, 38.
- McBride, Ken, *An Astronomy and Space Science Report from the USSR*, NN, **78**, 36.
- McCall, Marshall L., *Theory of Planetary Photometry*, Timothy P. Lester, Marshall L. McCall & Jeremy B. Tatum, **73**, 233.  
*The UTSO CCD*, Marshall L. McCall, Jayanne English & Ian Shelton, **83**, 179.  
*Getting to the Bottom of the Lagoon*, **87**, 1.
- McCallum, Robert G., *The 1974 Geminids*, NN, **69**, 20.  
*Finding Cepheid Maxima by Means of a Least-Squares Cubic*, J. Michael Roney & Robert G. McCallum, **77**, 231.  
*The 1990 General Assembly*, NNB, **83**, 96.
- McCarter, Dave, *Brilliant Bolide Blazes Over Beclouded Starfest*, B, **5**, 4, 4.
- McCausland, Phil, *St. John's Centre Report*, B, **6**, 2, 13.
- McClure, Robert D., see Reviews, **74**, 51.  
*A Spectroscopic Orbit For  $\nu$  Draconis*, R. F. Griffin, Hugh C. Harris & Robert D. McClure, **77**, 73.  
*Revised Orbital Elements for the Spectroscopic Binary HD 92000 (36 Leo Minoris)*, A. H. Batten, J. M. Fletcher & Robert D. McClure, **77**, 241.  
*The Carbon and Related Stars*, **79**, 277.  
*Scientific Highlights from the Dominion Astrophysical Observatory*, **87**, 282.
- McCullough, Brian, *Planets in the Palm of Your Hand*, B, **1**, 3, 4.
- McCullough, J. D., *Optical and Chemical Studies on Simulated Interstellar Grain Materials*, J. D. McCullough, G. R. Floyd, B. H. Prince & W. W. Duley, **66**, 223.
- McCurdy, Bruce, *Edmonton Centre Report*, B, **3**, 2, 5.  
*Edmonton Centre Report*, B, **4**, 2, 8.  
*Musical Stars*, B, **5**, 1, 7.
- McCutcheon, W. H., *An Attempt to Study Solar Oscillations at 31.4 GHz*, W. L. H. Shuter & W. H. McCutcheon, **66**, 221.  
*The 4.57 m Millimetre Wave Telescope at the University of British Columbia*, W. L. H. Shuter & W. H. McCutcheon, **68**, 301.  
*Molecular Clouds and Star-Forming Regions*, **86**, 195.
- McElwaine, Robert E., *Life, the Universe and Everything?*, B, **2**, 2, 8.
- McGrath, Herb, *Double Stars*, NN, **73**, 25.
- McGregor, Ian G., *Toronto Hosts 1977 General Assembly*, NN, **71**, 50.  
*Toronto Display Competition*, NN, **71**, 51.  
*Editorial*, NN, **72**, 30.  
*A New Award for Messier Observers!*, NN, **74**, 67.  
*Welcome to the New Editors!*, NN, **75**, 2.  
*Thank You, Dr. Hogg*, NN, **75**, 20.  
*52 Years of Service Recognized*, NN, **76**, 14.  
*Welcome Sarnia Centre!*, NN, **76**, 23.  
*Amateurs Affiliate with Professionals*, NN, **77**, 21.
- Canadian Astronomy News*, NN, **77**, 31.  
*Two Surprising Spring Comets*, NN, **77**, 50.  
*Planetariums Commemorate Pioneer 10*, NN, **77**, 57.  
*The Society's New Home*, NN, **77**, 66.  
*Summer Meetings of Canadian Societies*, NN, **77**, 76.  
*Across the RASC*, NN, **77**, 78.  
*Across the RASC*, NN, **78**, 6.  
*The May Eclipse — A Toronto Perspective*, NN, **78**, 52.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 59.  
*Herschel House in Trouble*, NN, **78**, 58.  
*Canadian Astronomy News*, NN, **78**, 61.  
*Amateur to Professional*, NN, **78**, 63.  
*Another Big Dome for Canada!*, NN, **78**, 77.  
*Across the RASC*, Peter Jedicke & Ian McGregor, NN, **78**, 89.  
*Canadian Astronomy News*, NN, **79**, 29.  
*Editorial*, NN, **79**, 50.  
*Editorial*, NN, **79**, 66.  
*The August Perseids*, NN, **79**, 70.  
*Halley Has Arrived!*, NN, **79**, 82.  
*Editorial*, NN, **80**, 2.  
*Editorial*, NN, **80**, 18.  
*Editorial*, NN, **80**, 34.  
*Editorial*, NN, **80**, 50.  
*Editorial*, NN, **80**, 66.  
*Editorial*, NN, **81**, 2.  
*McLaughlin Planetarium's New Astrocentre*, NN, **81**, 12.  
*Editorial*, NN, **81**, 34.  
*Supernova Celebration!*, NN, **81**, 34.  
*Planetarium Community Meets*, NN, **81**, 59.  
*Editorial*, NN, **81**, 82.  
*Editorial*, NN, **82**, 2.  
*Editorial*, NN, **82**, 50.  
*Editorial*, NNB, **83**, 2.  
*Planetarium Community Looks Ahead*, NNB, **83**, 11.  
*"First Light" for NNT*, NNB, **83**, 55.  
*Editorial*, NNB, **84**, 34.  
*Welcome Patrick*, NNB, **84**, 50.  
*Chasing the 1991 Solar Eclipse*, NNB, **84**, 58.
- McIntosh, Bruce A., *A Bright Fireball Observed Photographically, By Radar and Visually*, F. R. Park & B. A. McIntosh, **61**, 25.  
*The Fireball of April 25, 1966. I, Canadian Visual Observations*, B. A. McIntosh & J. A. V. Douglas, **61**, 159.  
*Path of the Fireball of June 14, 1967*, **61**, 191.  
*On the End-Point Height of Fireballs*, **64**, 267.  
*Giacobinid Meteor Shower: Prospect for 1972*, **66**, 149.
- McIntyre, Deane D., *July's Long Total Lunar Eclipse*, NN, **76**, 61.
- McKay, Mike, *Astronomy on the Fenian Plan*, NN, **78**, 12.
- McKinley, D. W. R., *Stars Fall Over Canada*, Peter M. Millman & D. W. R. McKinley, **61**, 277.
- McLeod, J. M., *Observations of  $85\alpha$  Recombination Lines from W48*, J. M. McLeod, L. H. Doherty & L. A. Higgs, **71**, 377.
- McMillan, Dan, *London Centre Report*, B, **4**, 2, 12.
- McNamara, A. G., *Planetary Sciences Section, HIA*, **70**, 202.
- McNarry, L. R., see Reviews **64**, 262.
- McQueen, Lew, *Daylight Observing of Planets*, NN, **68**, 10.

- McSweeney, Peter, *A European Telescope for 2001*, NN, **82**, 58.
- McWatters, Richard, *Astronomy for Campers*, Andreas Gada & Richard McWatters, NN, **68**, 29.
- Mebly, Merlyn, *Photometric Experiment*, NN, **73**, 39.
- Meeus, Jean, *Periodicities of Eclipses*, G. P. Können & J. Meeus, **70**, 81.  
*Total Penumbral Lunar Eclipses*, **74**, 291.  
*The Calculation of Some Planetary Phenomena*, **75**, 94.
- Meier, Rolf, *Identifying a Meteorite*, NN, **68**, 13.  
*Recent Aurora Activity*, NN, **68**, 14.  
*41st Stellafane Meeting*, NN, **70**, 13.  
*The 1983 General Assembly*, NN, **78**, 10.
- Meirovich, Neil, *Downsview Astronomy Club*, NN, **77**, 62.
- Ménard, Gilles, *A Solar Calendar*, **74**, 242.  
*A Solar Calendar*, **74**, 370.
- Mendes de Oliveira, C., *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Menzel, Donald H., *Classification of Solar Prominences for Sun-Spot Cycle No. 19 (1955-1964)*, Donald H. Menzel & F. Shirley Jones, **62**, 124.
- Michaud, Georges J., see Reviews, **74**, 375.  
*Quelques Travaux en Astrophysique Théorique au Canada*, **75**, 289.  
*Le Financement de la Recherche en Astronomie au Canada*, **85**, 79.
- Milazzo, Carl T., *Common Problems, Common Solutions*, B, **3**, 5, 7.
- Millar, F. Graham, *Amateur Builds Remarkable Star Globes*, NN, **80**, 68.  
*The Celestial David and Goliath*, **89**, 141.
- Miller, Richard W., *Wolf — A Computer Expert System for Sunspot Classification and Solar-Flare Prediction*, **82**, 191.
- Millman, Peter M., *Award of the Leonard Medal to Dr. C. S. Beals*, **61**, 53.  
*The Leonids*, **61**, 89.  
*The I. G. C. (1966) Visual Meteor Program — Progress Report No. 12*, **61**, 151.  
*Stars Fall Over Canada*, Peter M. Millman & D. W. R. McKinley, **61**, 277.  
*Leonids — Then and Now*, **62**, 124.  
*The I. G. C. (1967) Visual Meteor Program — Progress Report No. 13*, **62**, 387.  
*Space Report*, **63**, 149.  
*The Leonids — 1969*, **64**, 55.  
*A Tape Recording of the Belfast Meteorite*, **64**, 57.  
*Meteorite Orbits*, **64**, 114.  
*Meteoritic Flux Determined from Visual Observations*, **64**, 187.  
*Current Research at Sikhote-Alin*, **64**, 251.  
*Image Orthicon Meteor Spectra*, **64**, 371.  
*Canadian Craters on the Moon*, **64**, 375.  
*Heights of Meteor Spectra*, **65**, 37.  
*Canadians and Meteorites on the Moon*, **65**, 85.
- Earth's Space Scars*, **65**, 165.  
*First Regular Meeting of the Canadian Astronomical Society at the University of Toronto, November 11-13, 1971*, **66**, 65.  
*Giacobinid Meteor Spectra*, **66**, 201.  
*The Second Regular Meeting of the Canadian Astronomical Society at the Université de Montréal, May 11-13, 1972*, **66**, 215.  
*Giacobinid Meteor Spectra*, **66**, 221.  
*Giacobinid Meteor Shower: Prospect for 1972*, **66**, 236.  
*A Tribute to Simon Newcomb — July 9, 1972*, **66**, 277.  
*Airborne Observations of the 1972 Giacobinids*, **67**, 35.  
*A Story of Meteorite Collecting*, **67**, 95.  
see Reviews **67**, 95.  
*The Traditional Features of Mars Compared with the Geologic Map of the Planet*, **67**, 115.  
*Third Regular Meeting of the Canadian Astronomical Society at the University of Alberta, Edmonton, May 10-12, 1973*, **67**, 191.  
*Interplanetary Material*, **68**, 13.  
*Fourth Meeting of the Canadian Astronomical Society at Memorial University of Newfoundland, St. John's, June 10-13, 1974*, **68**, 257.  
*Fifth Meeting of the Canadian Astronomical Society at the University of Manitoba, Winnipeg, November 7-9, 1974*, **69**, 38.  
*Seven Maxims of UFO's — A Scientific Approach*, **69**, 175.  
*Sixth Meeting of the Canadian Astronomical Society at Queen's University, Kingston, Ontario, June 18-21, 1975*, **69**, 242.  
see Reviews, **70**, 146.  
*Seventh Meeting of the Canadian Astronomical Society at the Dominion Radio Astrophysical Observatory, Penticton B. C., June 16-18, 1976*, **70**, 257.  
see Reviews, **71**, 278.  
see Reviews, **71**, 279.  
see Reviews, **71**, 279.  
*Eighth Meeting of the Canadian Astronomical Society at the University of Western Ontario, London, Ont., May 25-27, 1977*, **71**, 391.  
*The 40th Annual Meeting of the Meteoritical Society in Cambridge, England, July 24-29, 1977*, **72**, 49.  
see Reviews, **72**, 58.  
see Reviews, **72**, 58.  
*Reynold Kenneth Young, 1886-1977*, **72**, 181.  
*The 41st Annual Meeting of the Meteoritical Society in Sudbury, Ontario, August 14-17, 1978*, **72**, 336.  
*The Herschel Dynasty — Part I: William Herschel*, **74**, 134.  
*The Herschel Dynasty — Part II: John Herschel*, **74**, 203.  
*Harry Hemley Plaskett, 1893-1980*, **74**, 234.  
*The Herschel Dynasty — Part III: Alexander Stewart Herschel*, **74**, 279.  
see Reviews, **76**, 398.  
see Reviews, **76**, 399.  
*Bart Jan Bok, 1906-1983*, **78**, 3.  
*Minor Planet News*, **82**, 301.  
*Alice Vibert Douglas, 1894-1988*, **82**, 309.  
*The Naming of Minor Planets*, **82**, 362.  
*Minor Planets and the Canadian Connection*, **83**, 329.  
*The Fall of the Abee Meteorite and Its Probable Orbit*,

- Arthur A. Griffin, Peter M. Millman & Ian Halliday, **86**, 5.
- Millyard, Kai, see Reviews, **75**, 64.
- Milone, E. F., see Reviews, **75**, 274.
- AO Camelopardalis*, E. F. Milone, D. H. Piggott & S. L. Morris, **76**, 90.  
see Reviews, **77**, 101.
- A Re-Examination of Mass-Luminosity Relations from Binary-Star Data*, S. C. Griffiths, R. B. Hicks & E. F. Milone, **82**, 1.  
see Reviews, **82**, 36.
- Data Acquisition at the RAO: Light Curves from the Optical and Infrared Telescopes*, E. F. Milone, T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J. E. Penfold, K. G. Robinson, A. R. Taylor & J. Van Leeuwen, **83**, 317.  
see Reviews, **88**, 411.
- Milone, Gene, *Binaries and Clusters Collide in Calgary*, Gene Milone & David Turner, **89**, 227.
- Milton, Earl R., *The Edmonton Survey of the Aurora Borealis*, **63**, 238.
- Mitalas, R., see Reviews, **70**, 321.  
see Reviews, **73**, 390.
- Mitchell, George F., *Radio Source Counts, Cosmology, and Evolution*, **65**, 195.  
see Reviews, **76**, 402.
- Mochnecki, Stefan W., see Reviews, **76**, 407.
- Moffat, Anthony F. J., see Reviews, **72**, 170.  
see Reviews, **73**, 356.
- Experience D'Astronomie Avancee: Spectroscopie Moleculaire a Moyenne Dispersion de Jupiter et Saturn*, R. Boudreault, S. Fleurant & A. F. J. Moffat, **74**, 93.  
see Reviews, **89**, 192.
- Moffat, P., *An Observation of the Total Solar Eclipse of March 7, 1970*, T. Cairns, P. Moffat, J. Newton, J. Scatliff & J. Steffensen, **64**, 242.
- Molczan, Ted, *Observing Earth Satellites*, NNB, **83**, 58.
- Moller, Gunther H., *How Long Are the Seasons?*, NN, **74**, 50.  
*Circumstances of the Solar Eclipse of May 30*, NN, **78**, 25.  
*Predicting October's Eclipse*, NN, **80**, 24.
- Moore, J. D., *Sundial Made From a Microwave Antenna Honours Canada's Pioneer Radio Astronomer*, V. Gaizauskas, S. Gerylo & J. D. Moore, **74**, 174.
- Moore, John H., *Distribution of O to A0 Stars in a Region in Vela ( $\ell = 277^\circ$ ,  $b = 0^\circ$ )*, John H. Moore & M. Pim FitzGerald, **67**, 291.
- Moore, Patrick, *Bicentenary of the Birth of Sir John Herschel*, **86**, 112.
- Morbey, C. L., *Photoelectric Observations of Lunar Occultations at the DAO*, C. L. Morbey, J. M. Fletcher & G. Edwards, **72**, 305.
- Moreau, Suzanne E., *The Great Eclipse: A Video Documentary*, B, **2**, 5, 6.  
*Donations Linkage Upsetting*, B, **2**, 6, 2.  
*About Our Authors*, **89**, 27.  
*About Our Authors*, **89**, 63.  
*About Our Authors*, **89**, 109.  
*About Our Authors*, **89**, 188.  
*About Our Authors*, **89**, 224.  
*About Our Authors*, **89**, 263.  
*Letter to the Editor*, **89**, 265.
- About Our Authors*, **90**, 57.  
*About Our Authors*, **90**, 94.  
*About Our Authors*, **90**, 158.  
*About Our Authors*, **90**, 231.  
*About Our Authors*, **90**, 339.
- Morehouse, A. J., *The Christmas Star as a Supernova in Aquila*, **72**, 65.
- Morissette, Gaetan, *Escadrille Exceptionnelle de Météors*, B, **1**, 3, 8.
- Morris, L. Robert, *A Computer-Driven Astronomical Telescope Guidance and Control System With Superimposed Star Field and Celestial Coordinate Graphics Display*, Douglas P. George & L. Robert Morris, **83**, 32.
- Morris, S. L., *AO Camelopardalis*, E. F. Milone, D. H. Piggott & S. L. Morris, **76**, 90.
- Morris, Steven, *Astronomy Marches Onward*, NN, **76**, 48.  
*Astronomy Marches Onward*, NN, **76**, 74.  
*The Best of the NGC's*, NN, **77**, 87.  
*Astronomy in Canada*, NN, **78**, 37.  
*Science on Ice: Astronomy at the South Pole*, NN, **79**, 25.
- Morris, Stephen C., *CASCA '92 Hyades Cluster Workshop*, David G. Turner, Robert F. Garrison & Stephen C. Morris, **88**, 303.
- Morrison, David, see Reviews, **75**, 65.
- Morrison, Heather L., *How Metal-Weak Can a Disk Star Be?*, **84**, 107.
- Morrison, L. V., *Grazing Occultations Over Canada During 1972*, **66**, 56.
- Morrison, Warren, *Outburst of RS Ophiuchi*, NN, **79**, 69.
- Mortfield, Paul, *Where Have the Solar Observers Gone?*, NN, **67**, 9.
- Morton, James, *The Lunar Eclipse From Flagstaff*, NN, **76**, 59.
- Mozel, Debbie, *The Moose Factory Telescope*, Philip Mozel & Debbie Mozel, NN, **79**, 58.
- Mozel, Philip, *A Visit to the Herschel House*, Phil Mozel & Debbie Tonge, NN, **75**, 5.  
*The Woodstock College Observatory*, **76**, 168.  
*History Seminar*, NN, **76**, 77.  
*The RASC Library Today*, NN, **77**, 23.  
*A Telescope's First Century*, **78**, 75.  
*Ex Libris*, NN, **78**, 30.  
*Fiction to Fact*, NN, **78**, 39.  
*Call for Slides*, NN, **78**, 87.  
*The Moose Factory Telescope*, Philip Mozel & Debbie Mozel, NN, **79**, 58.  
*In Search of Sprites: The Discovery of Ariel and Umbriel*, **80**, 344.  
*Bright Outer Planets*, NN, **80**, 56.  
*The Fort Malden Telescope*, NN, **80**, 75.  
*A Canadian's Pre-War Comet*, B, **1**, 1, 7.  
*Thoughts on the Journal of the RASC*, B, **2**, 3, 7.  
*Last But Not Least*, B, **3**, 1, 2.  
*The Eclipse of Nicias*, **89**, 11.  
see Reviews, **89**, 87.
- Mrmak, John, *A High School Planetarium*, John Mrmak & Angelo Zeffiro, NN, **80**, 85.
- Murck, Barbara, see Reviews, **85**, 285.  
see Reviews, **88**, 193.
- Murray, Roderick, *My First Year*, NN, **80**, 61.

Musès, C., *It Belongs on the Bottom*, B, **4**, 6, 2.  
*A Planetary Periodic Table*, B, **5**, 1, 6.  
 Myers, S. T., *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.  
 Myrdal, Ami S., *The Evening of January 27, 1910*, **77**, 221.

## N

Nadeau, Alphée, *Une Experience de Video-Astronomie au CEGEP de la Pocatiere*, **72**, 346.  
 Nagler, Albert, *The Value of a Nagler*, NN, **81**, 39.  
 Naiden, James R., *Computers and the Seattle Astronomical Society*, **86**, 114.  
 Napier, Roger G., *What Goes Around Comes Around?*, B, **2**, 2, 2.  
 Naqvi, S. I. H., *The Solar-Neutrino Puzzle*, D. Y. Kim & S. I. H. Naqvi, **73**, 203.  
 Nason, Guy, *RASC to Be Privatized*, B, **6**, 1, 3.  
 Neale, M. J., *An Instrument to Aid Visual Meteor Observation*, **61**, 353.  
 Nelson, Ken, *Heard Any Good Satellites Lately?*, NN, **77**, 70.  
 Newton, Alice, *Victoria Retrospective*, NN, **82**, 66.  
 Newton, Jack B., *The Construction of an H $\alpha$  Solar Prominence Spectroscope*, **64**, 197.  
*An Observation of the Total Solar Eclipse of March 7, 1970*, T. Cairns, P. Moffat, J. Newton, J. Scatliff & J. Steffensen, **64**, 242.  
*The Newton Observatory*, **66**, 224.  
*An Experiment with a Naturally-Cooled Emulsion*, **67**, 148.  
*The November 10 Transit of Mercury*, NN, **67**, 29.  
*Observations of Comet Kohoutek*, **68**, 152.  
*Nitrogen Soaking*, NN, **69**, 25.  
*A New Amateur Observatory*, NN, **71**, 7.  
 see Reviews, **74**, 41.  
*The Challenge of Deep Sky Photography*, **76**, 50.  
*That's Wild!*, NN, **76**, 38.  
*A Supernova in NGC 4490*, NN, **76**, 53.  
 see Reviews, **77**, 165.  
*Another Newton Observatory!*, NN, **77**, 43.  
*The Mount Kobau Star Party 1984*, Jack Newton & Muriel Enock, NN, **79**, 7.  
*Peru: Twelve Months Before Halley*, NN, **79**, 37.  
*Comet Halley from Peru — 1986*, **80**, 295.  
 see Reviews, **81**, 178.  
*Memories of Mauna Kea*, NN, **82**, 24.  
*Testing the "CAT"*, NN, **82**, 62.  
*First Light on the 25-Inch*, NNB, **83**, 46.  
 see Reviews, **86**, 220.  
 see Reviews, **88**, 421.  
 Nicholls, R. W., *Astronomy and Astrophysics at York University*, K. A. Innanen & R. W. Nicholls, **63**, 87.  
*International Conference on Laboratory Astrophysics and Opening of the Petrie Science Building, York University, Toronto, November 7-9, 1969*, **64**, 66.  
*The Band Spectra of Yttrium Oxide*, J. B. Shinn & R. W.

Nicholls, **66**, 222.  
*Cress Solar Eclipse Expedition*, **66**, 278.  
 Nickerson, Dave, *Astronomy in the House*, NN, **81**, 63.  
 Noesgaard, Ken, *The 1996 Edmonton General Assembly*, B, **6**, 4, 6.  
 Noreau, Louis, see Reviews, **79**, 148.  
 Normandin, Martine, *Henri Simard, 1922-1973*, Malcolm M. Thomson & Martine Normandin, **68**, 53.  
 North, Roy, *Simon Newcomb an American Astronomer*, NNB, **83**, 40.  
 Northcott, Ruth J., see Reviews, **61**, 45.  
*Gold Medal of the R. A. S. C.*, **61**, 100.  
*The Growth of the RASC and Its Guiding Mentor C. A. Chant*, **61**, 218.  
*Gold Medal of the RASC*, **61**, 388.  
*Carl Zeiss — A Prominent Name in Optics*, **62**, 84.  
*Centennial Reprint*, **62**, 92.  
 see Reviews, **62**, 131.  
*Society Loses Three Honourary Members*, **62**, 135.  
*Service Awards Recipients*, **62**, 258.  
*RASC Gold Medal Presented to Peter Martin*, **63**, 46.  
 see Reviews, **63**, 100.  
 see Reviews, **63**, 172.  
 Novak, Tim, *A Brief Tour of the Dominion Radio Astrophysical Observatory*, B, **2**, 5, 4.  
 Nugent, Richard L., *Photographic Determination of the Eccentricity of the Earth's Orbit*, **89**, 217.

## O

O'Brien, Geraldine, *The Ellipticities of the RR Lyrae Star Systems in Globular Clusters*, K. A. Innanen & Geraldine O'Brien, **71**, 47.  
 O'Brien, K. J., *The Armchair Astronomer*, NN, **72**, 44.  
 O'Connor, Steve, *On Variable Stars*, NN, **71**, 4.  
 O'Donnell, Patrick J., see Reviews, **76**, 66.  
 Oakes, Andrew I., *Journal Comments Appreciated*, B, **4**, 3, 2.  
*Rovers and Alarm Bells*, B, **6**, 4, 1.  
 Odgers, G. J., *The Queen Elizabeth II Telescope*, G. J. Odgers & K. O. Wright, **62**, 392.  
*A 7.6-Meter (300-Inch) Equivalent Optical Telescope Array*, E. H. Richardson & G. J. Odgers, **66**, 99.  
 Oke, J. B., *Seyfert Galaxies and Quasars*, **72**, 121.  
*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.  
 Olson, Barry M., "Rocky Mountain High": *Alberta Star Party 1989*, Rick Ponomar & Barry M. Olson, NNB, **83**, 87.  
 Olsson-Steel, Duncan, *A Note on the History of the Liquid-Mirror Telescope*, **80**, 128.  
 Orr, Eric, *Edmund Halley*, NN, **79**, 52.  
 Osterbrock, Donald E., *The Canada-France-Hawaii Telescope and George Willis Ritchey's Great Telescopes of the Future*, **87**, 51.  
*The Canada-France-Hawaii Telescope and George Willis*

*Ritchey's Great Telescopes of the Future*, **87**, 164.  
 Ostler, Dan, *Toronto Centre News*, NN, **66**, 36.  
 Ouellette, Ronald, *La Magnitude d'un Groupe D'Etoiles*,  
 NN, **72**, 18.  
 Ovenden, Michael W., *The Genius of Pixilated Point*, **77**,  
 221.  
 Overton, Crandel, *Winnipeg Centre Report*, B, **5**, 2, 17.  
*Winnipeg Centre Report*, B, **6**, 2, 20.  
 Owen, Jennifer, *The Planetary Society in Toronto*, NNB, **83**,  
 11.  
*Toronto Centre Eclipse Expeditions*, Ralph Chou &  
 Jennifer Owen, NNB, **83**, 93.

## P

Pakan, Randy, *Just for Laughs: Deep Sky Observers*, B, **3**, 4,  
 7.  
*Score One for Astronomy*, B, **4**, 1, 3.  
*Observing Faint Bright Nebulae*, B, **4**, 3, 7.  
*Take a Deep Galaxy Tour*, B, **4**, 3, 8.  
*Learning By Sketching*, B, **4**, 4, 1.  
*Observing the Palomar Clusters*, B, **4**, 5, 3.  
*The Other Side of the Night*, B, **5**, 1, 1.  
 Papacosmas, Constantine, *Activities of the Centre: Montreal*,  
 NN, **67**, 24.  
 Papp, K. A., see Reviews, **74**, 249.  
 Paquette, Pierre, *Reporte de Centre Français de Montréal*, B,  
**3**, 2, 11.  
 Park, F. R., *A Bright Fireball Observed Photographically, By  
 Radar and Visually*, F. R. Park & B. A. McIntosh, **61**,  
 25.  
 Pasachoff, Jay M., see Reviews, **86**, 162.  
 Pasterfield, Dunstan, *Quebec and Saskatoon Take Top  
 Honours at Calgary*, Ulrich Haasdyk & Dunstan  
 Pasterfield, NN, **70**, 65.  
 Patterson, G. N., *Cold Weather Astrophotography*, NN, **69**,  
 70.  
*Oculars (Eyepieces)*, NN, **70**, 52.  
*The Rystrom Observatory: Part I*, NN, **73**, 90.  
*The Rystrom Observatory: Part II*, NN, **74**, 5.  
*The Saskatoon General Assembly*, NN, **76**, 50.  
 Paul, Andre, *Astrophotographie: Réseau d'Équidensités  
 Photographiques*, NN, **74**, 82.  
*Astrophotography: Photographic Generation of  
 Equidensity Contours*, NN, **74**, 85.  
 Paulsen, Murray, *Supernova 1989B*, NNB, **83**, 44.  
 Pearce, Joseph A., *Some Recollections of the Observatory  
 (1924-1935)*, **62**, 287.  
 Peck, Peter A., *The Accumulation of Calendar-  
 Year/Tropical-Year Differences: A Comparison of  
 Accumulation Reduction Algorithms*, **84**, 14.  
 Peebles, P. J. E., *Cosmology*, **63**, 4.  
*Cosmogony and the Very Nearby Galaxies*, **83**, 363.  
 Peltier, W. R., see Reviews, **75**, 271.  
 Penfold, J. E., *Data Acquisition at the RAO: Light Curves  
 from the Optical and Infrared Telescopes*, E. F. Milone,  
 T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J.  
 E. Penfold, K. G. Robinson, A. R. Taylor & J. Van  
 Leeuwen, **83**, 317.  
 Percy, John R., *The Beta Cephei Stars*, **61**, 117.  
 see Reviews, **61**, 387.  
*General Assembly at Toronto, May 16-19, 1969*, **63**, 152.  
*Notes*, **63**, 219.  
*Light Variations in  $\psi$  Orionis*, **63**, 233.  
*Observational Tests of Gravitational Theories*, **63**, 265.  
*Light Variations of HD 190467*, **64**, 218.  
*Naked-Eye Variable Stars*, **64**, 373.  
*The Rate of Change of the Period of BW Vulpeculae*, **65**,  
 217.  
 see Reviews, **66**, 174.  
*A Photometric Study of the Peculiar A Star 21 Comae*, **66**,  
 218.  
*A Search for Delta Scuti Stars*, **67**, 139.  
*The Teaching of Astronomy*, NN, **67**, 5.  
 see Reviews, **68**, 279.  
*Toronto Centre Holds Teachers' Workshop*, NN, **68**, 9.  
 see Reviews, **69**, 197.  
 see Reviews, **70**, 149.  
 see Reviews, **70**, 151.  
*Studies of 12 (DD) Lacertae*, John F. Heard, Roel J.  
 Hurkens, John R. Percy & Mario Porco, **70**, 213.  
*Education in Astronomy: A Review*, **70**, 277.  
*Where to Go and How to Get There ...*, NN, **70**, 58.  
*Where to Go and How to Get There ...*, NN, **70**, 75.  
*Astronomy Activities Package*, **71**, 55.  
*Graduate Programs in Astronomy at Canadian  
 Universities*, **71**, 264.  
*Education Notes*, **71**, 325.  
*Education at the Atlanta AAS Meeting*, **71**, 412.  
*General Assembly Papers*, NN, **71**, 15.  
*A Laboratory Experiment on Resolving Power*, **72**, 54.  
*Astronomical Slides*, **72**, 55.  
*Rotating Variable Stars*, **72**, 162.  
*Educational Material in Astronomy Produced and  
 Distributed by Canadian Observatories, Museums, and  
 Planetariums*, **72**, 168.  
*Undergraduate Astronomy at Canadian Universities*, **72**,  
 296.  
*Occultation of SAO 85009 by Pallas on May 29, 1978*, NN,  
**72**, 10.  
*Presidential Postscript*, NN, **72**, 80.  
*Two "New" Films on Astronomy*, **73**, 38.  
*Wanted: Good Astronomical Slides*, NN, **73**, 72.  
*The Teaching of Astronomy in Canadian Schools*, **74**, 81.  
 see Reviews, **74**, 181.  
*In Praise of Smaller Telescopes*, **74**, 334.  
*Women in Astronomy*, **75**, 210.  
 see Reviews, **75**, 337.  
*Report of the Nominating Committee*, NN, **75**, 75.  
*Photometric Observations of RS Canum Venaticorum  
 Stars*, John R. Percy & Douglas L. Welch, **76**, 185.  
*Seventy-Five Editions of the Observer's Handbook*, **76**,  
 392.  
 see Reviews, **77**, 348.  
*Five Suspected  $\beta$  Cephei Stars Revisited*, **78**, 241.  
*Astronomers Celebrate Cepheid Bicentenary*, NN, **78**, 76.  
*A Note on Two RS Canum Venaticorum Stars: LX Persei  
 and SZ Piscium*, **79**, 113.  
*How to Make the Best of a Poster Presentation*, Robert F.  
 Garrison, Judith A. Irwin & John R. Percy, **79**, 317.  
*The Study of Variable Stars Using Small Telescopes*, NN,

- 79, 4.  
*CASCA Celebrates 50<sup>th</sup> Anniversary of the David Dunlap Observatory*, NN, **79**, 85.  
*World Astronomers Meet in New Delhi*, NN, **80**, 13.  
*An Astronomical Experience for Gifted Children*, Robin Kingsburgh, Petrusia Kowalsky & John R. Percy, **82**, 154.  
*The Travelling Telescope*, NN, **82**, 30.  
 see Reviews, **83**, 335.  
*An Astronomical Research Experience for Gifted High School Students*, **84**, 49.  
 see Reviews, **84**, 286.  
 see Reviews, **85**, 57.  
 see Reviews, **86**, 65.  
*The Educational Services of the Astronomical Society of the Pacific*, **86**, 156.  
 see Reviews, **86**, 219.  
*Thoughts on "Thoughts on the JRASC"*, B, **2**, 4, 4.  
 see Reviews, **87**, 257.  
*John Tuzo Wilson, CC, OBE, FRSC, FRS (1908-1993)*, **87**, 339.  
 see Reviews, **88**, 200.  
 see Reviews, **88**, 355.  
*Too Close for Comfort*, B, **4**, 1, 2.  
*The Light Curve of V1765 Cygni: A Close Binary System with a Supergiant Companion*, John R. Percy & Najam Khaja, **89**, 91.  
 see Reviews, **89**, 131.  
 see Reviews, **89**, 194.  
 Peters, William T., *The Total Solar Eclipse of 1979, February 26*, NN, **72**, 25.  
 see Reviews, **78**, 93.  
 see Reviews, **79**, 41.  
 Peterson, Charles J., *The Evaluation of Scientific Research: A Brief Study of Citations to Research Papers from the Dominion Astrophysical Observatory*, **81**, 30.  
 Peterson, Steven D., *Selected H I Observations of Double Galaxies*, Steven D. Peterson & Yervant Terzian, **73**, 215.  
 Petrie, Jean K., *R. M. Petrie and the B-Star Program of the Dominion Astrophysical Observatory*, **64**, 163.  
 Pfannenschmidt, E., *Observing Conditions on Mount Kobau*, E. Brosterhus, E. Pfannenschmidt & F. Younger, **66**, 1.  
 Photiades, Dimitri P., *Don't Forget Pickering*, B, **5**, 3, 2.  
 Piggott, D. H., *AO Camelopardalis*, E. F. Milone, D. H. Piggott & S. L. Morris, **76**, 90.  
 Pike, Robert, *Attention Solar Observers!*, NN, **66**, 23.  
*White Light Observations of a Solar Flare, July 4, 1974*, **68**, 330.  
*Toronto Centre Plans Major Observing Programme*, NN, **68**, 30.  
*Computer Ray Tracing for Amateur Telescopes*, NN, **69**, 59.  
*A Simple Computer Model for the Growth of Light Pollution*, **70**, 116.  
*Calgary General Assembly Successful*, NN, **70**, 47.  
 Pilon, Kenneth, *A Most Forgotten Land*, NN, **70**, 5.  
*Lands-End*, NN, **71**, 19.  
*Sounding Rocket Research in Canada*, NN, **79**, 6.  
 Pineault, Serge, see Reviews, **68**, 111.  
 see Reviews, **69**, 318.  
 Pipher, Judith L., see Reviews, **79**, 31.  
 Pitcairn, Douglas, *Nova East '87*, NN, **81**, 88.  
*Nova East 1989*, NNB, **83**, 86.  
*Hunting Messier Objects from Digby*, NNB, **84**, 43.  
*Spreading the Word*, NNB, **84**, 46.  
*Nova East '90*, NNB, **84**, 93.  
*NASA, Poor NASA*, B, **1**, 2, 1.  
*Amateurs Needed to Observe Nothing!*, B, **1**, 3, 4.  
*NOVA EAST '91*, B, **1**, 6, 6.  
 see Reviews, B, **2**, 1, 5.  
*Nova East '92*, B, **2**, 5, 5.  
*The Noblest Cause*, B, **2**, 6, 5.  
*Nova East '93 Report*, B, **3**, 6, 9.  
*You Know ...*, B, **3**, 6, 11.  
*Nova East 1994: Telescopes and Turkeys*, B, **4**, 6, 7.  
*Lecture Notes: "The Fate of the Earth" by Dr. Scott Tremaine*, B, **6**, 1, 8.  
 Plaskett, J. S., *History of Astronomy in British Columbia*, **77**, 108.  
 Plaskett, Thomas Stanley, *The History of the Plaskett Family*, **82**, 319.  
 Plavec, Mirek J., *Interacting Binary Stars: Freaks or Rosetta Stone*, **77**, 283.  
 Poeckert, R. H., see Reviews, **77**, 58.  
 Poisson, Eric, *A Look Inside Black Holes*, **84**, 191.  
*Gravitational Wave Astronomy*, **87**, 234.  
 Ponomar, Rick, *"Rocky Mountain High": Alberta Star Party 1989*, Rick Ponomar & Barry M. Olson, NNB, **83**, 87.  
*Alberta Star Party 1989*, NNB, **84**, 25.  
 Porco, Mario, *Studies of 12 (DD) Lacertae*, John F. Heard, Roel J. Hurkens, John R. Percy & Mario Porco, **70**, 213.  
 Porv, Ron, *Non-Doctors Talk Too*, B, **5**, 4, 2.  
 Powers, Robert M., see Reviews, **76**, 271.  
 Priestley, F. E. L., *Halley Greets Newton's Principia*, **80**, 303.  
*Newton and the Apple*, **81**, 185.  
 Prince, R. H., *A Method of Forming Complex Molecules in Interstellar Space*, G. R. Floyd, R. H. Prince & W. W. Duley, **67**, 299.  
 Pristupa, Dave, *Good Observing Techniques*, NN, **68**, 20.  
 Pritchett, Christopher J., see Reviews, **76**, 274.  
*On the Diatomic and Triatomic Hydrogen Molecules in the Planetary Nebula NGC 7027*, Grant Gussie & Chris Pritchett, **82**, 69.  
*Messier 83*, **85**, 4.  
*The 24th Annual Meeting of the Canadian Astronomical Society*, G. Christopher L. Aikman, Dennis R. Crabtree, Ann C. Gower, James E. Hesser, Christopher J. Pritchett & Russell M. Robb, **87**, 271.  
*Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.  
 see Reviews, **90**, 108.  
 Pryor, Marvin J., *Geocentric and Heliocentric Parallax Demonstrations*, **66**, 53.  
 Puerzer, Tony, *Sunglasses to See the Stars*, NN, **66**, 32.

*Hints for Happy Observing*, NN, **67**, 8.  
*Sketching the Planets*, NN, **67**, 10.  
*Films for Astrophotography*, NN, **69**, 13.  
Purton, C. R., *Polaroid Film in Undergraduate Astronomical Photography*, K. A. Innanen, C. R. Purton, R. Berry & W. G. Weller, **66**, 157.  
see Reviews, **74**, 107.  
see Reviews, **76**, 268.  
see Reviews, **79**, 107.

## Q

Quade, Roy, *Making an Eight-Inch Achromatic Doublet*, **61**, 381.

## R

Racine, René, *Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Ramage & Vicki Watt, **61**, 339.  
*2000 Globular Clusters in M87*, **62**, 367.  
*On Globular Clusters and Extragalactic Distances*, **64**, 257.  
*L'Astronomie au Quebec*, **70**, 138.  
see Reviews, **71**, 216.  
*L'Observatoire Astronomique du Mont Megantic; Un Nouvel Observatoire D'Envergure au Canada*, **72**, 324.  
see Reviews, **74**, 48.  
*Le Telescope Canada-France-Hawaii; Gestation, Enfance et Avenir*, **75**, 305.  
*Recherches Astronomiques: Peines et Félicités*, **84**, 324.  
*Assurer L'Appui de L'Astronomie*, **86**, 300.  
*Du RLR à la MSF: 75 Ans D'Horizons Mouvants*, **87**, 357.  
Ragep, F. Jamil, see Reviews, **80**, 298.  
Rahe, Jürgen, *The History of Comet Halley*, Donald K. Yeomans, Jürgen Rahe & Ruth S. Freitag, **80**, 62.  
Rahill, Alan, *How to Choose the Best Sky*, NN, **80**, 37.  
Raineault, Gilbert, *Winnipeg Centre Report*, B, **3**, 2, 19.  
*Winnipeg Centre Report*, B, **4**, 2, 21.  
Ramana, K. V. V., *Radio Emission from Gaseous Nebulae*, L. A. Higgs & K. V. V. Ramana, **62**, 5.  
Rankin, Mel, *Red Stars*, NN, **82**, 32.  
Rao, Joe, *Conjunctions of a Totally Eclipsed Moon With Bright Stars and Planets*, **90**, 216.  
Rawlins, Dennis, *On Measuring the Earth With a Hose*, **74**, 299.  
Reber, Grote, *A Play Entitled The Beginning of Radio Astronomy*, **82**, 93.  
*Projects for Amateur Radio Astronomers*, NNB, **84**, 10.  
*Hectometer Radio Astronomy*, **88**, 297.  
Rechtshaffen, David, *A Quadrantid Fireball*, NN, **77**, 47.  
Reddock, Allan, *Die Energie der Welt ist Constant*, B, **4**, 5, 2.  
Reed, B. Cameron, *On the Computation of Dynamical Parallaxes*, **78**, 83.  
*UBV Photographic Photometry of Ruprecht 36*, **79**, 1.  
*An Iterative Solution for Stellar Space Densities*, **79**, 294.  
*Partial Automation of a Cuffey Iris Astrophotometer*, B. Cameron Reed, David G. Turner & J. Norman Scrimger, **80**, 203.  
*Distribution of B8-A0 Stars and Interstellar Reddening*

*Towards NGC 5927*, B. Cameron Reed & Christopher J. Thomas, **86**, 248.  
*Stellar Magnitudes and Photon Fluxes*, **87**, 123.  
*A Simple Formula for Calculating Stellar Rise Times and Azimuth Angles*, **90**, 354.  
Reeves, Hubert, *The Early Moments of Our Universe*, **83**, 223.  
Reid, John H., *The Measurement of Time*, **66**, 135.  
Ramage, Nancy, *Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Ramage & Vicki Watt, **61**, 339.  
ReVelle, Douglas O., see Reviews, **68**, 335.  
Reyahi, Bassel A., *Astronomy Under Attack*, B, **1**, 3, 2.  
*A Mystery of Procyon*, B, **1**, 4, 2.  
Rice, John B., *The Hydrogen-Line Strength Variations in the Ap Star HD 184905*, **72**, 194.  
see Reviews, **73**, 388.  
see Reviews, **74**, 43.  
see Reviews, **77**, 229.  
Richards, Ron, *Observations of a Yukoner*, NN, **74**, 57.  
Richardson, E. H., *The Spectrographs of the Dominion Astrophysical Observatory*, **62**, 313.  
*A 7.6-Meter (300-Inch) Equivalent Optical Telescope Array*, E. H. Richardson & G. J. Odgers, **66**, 99.  
*A Small Off-Axis Spectrograph*, E. H. Richardson & G. A. Brealey, **67**, 165.  
Richer, Michael G., *Planetary Nebulae: Their Use as a Tool to Probe the Evolution of Galaxies*, **90**, 246.  
Ridder, A., *A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder, Ian Shelton, **87**, 151.  
*A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder, Ian Shelton, **87**, 344.  
Rigler, M. A., *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.  
Ring, Susan, see Reviews, **88**, 197.  
Riordon, Katherine, see Reviews, **74**, 313.  
Rioux, Frank, *Noted Astronomer to Visit Syracuse*, NN, **82**, 21.  
Robb, Russell M., *The 24th Annual Meeting of the Canadian Astronomical Society*, G. Christopher L. Aikman, Dennis R. Crabtree, Ann C. Gower, James E. Hesser, Christopher J. Pritchett & Russell M. Robb, **87**, 271.  
*The Light Curves of the Asteroids (198) Ampella, (481) Erita and (772) Tanete*, Larry Bogan, Russell Robb & D. D. Balam, **88**, 55.  
Roberts, James A., *A Radio Photograph of the Cygnus-X Region*, J. E. Winzer & J. A. Roberts, **65**, 100.  
*A 3.8-4.2 GHz Solar Radio Telescope Using Satellite TV Components*, James A. Roberts, J. Hajsaleh & R. Bengé, **88**, 233.  
Robertson, P. B., see Reviews, **61**, 205.  
*Impact Structures in Canada: Their Recognition and*

- Characteristics*, P. B. Robertson & R. A. F. Grieve, **69**, 1.
- Robinson, Betty, see Reviews, **78**, 262.  
*Members Gather for an Enjoyable Assembly*, NN, **78**, 66.  
*Light Pollution: The Battle Continues*, NN, **80**, 31.  
*Comet Halley from the Galapagos Islands*, NN, **80**, 54.  
*Across the RASC*, NN, **80**, 89.
- Robinson, Camilla, *Let's Keep Urania*, B, **5**, 1, 2.
- Robinson, David J., *Looking for Phenomena*, B, **5**, 1, 2.
- Robinson, K. G., *Data Acquisition at the RAO: Light Curves from the Optical and Infrared Telescopes*, E. F. Milone, T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J. E. Penfold, K. G. Robinson, A. R. Taylor & J. Van Leeuwen, **83**, 317.
- Robinson, T. R., *The Partial Acceptance of the Copernican Theory by Athanasius Kircher, 1646*, A. E. Covington & T. R. Robinson, **67**, 311.
- Rodger, David, *The H. R. MacMillan Planetarium*, **63**, 32.  
*The H. R. MacMillan Planetarium*, **63**, 268.  
*H. R. MacMillan Planetarium*, **64**, 110.  
*The H. R. MacMillan Planetarium*, NN, **70**, 19.  
*The Stars of Mauna Kea: A New Presentation at Vancouver's MacMillan Planetarium*, NN, **71**, 5.  
*H. R. MacMillan Planetarium*, **72**, 294.  
 see Reviews, **73**, 167.
- Roeder, Robert C., *Cosmological Problems I. The Time Scale*, **61**, 369.  
 see Reviews, **62**, 79.  
*Canadian Astronomy: Manpower Supply and Demand*, R. C. Roeder & P. P. Kronberg, **64**, 315.  
*An Analysis of the Distribution of Redshifts of Quasars and Emission-Line Objects*, R. G. Lake & R. C. Roeder, **66**, 111.  
 see Reviews, **68**, 46.  
 see Reviews, **68**, 164.  
 see Reviews, **70**, 274.  
*Einstein and Cosmology*, **73**, 349.  
*Simulating the Transparent Gravitational Lens*, Charles C. Dyer & Robert C. Roeder, **75**, 227.  
 see Reviews, **75**, 268.  
 see Reviews, **76**, 334.
- Roettger, Elizabeth E., see Reviews, **90**, 173.
- Roger, David A., *The Total Solar Eclipse*, NN, **73**, 36.
- Roger, Robert S., *Dominion Radio Astrophysical Observatory*, **72**, 344.  
*Twenty-Sixth Meeting of the Canadian Astronomical Society Held in Penticton, British Columbia, May 26-31, 1995*, Robert S. Roger & David G. Turner, **89**, 155.
- Rogers, C., see Reviews, **83**, 345.
- Rogers, Michael, *A Shot in the Dark*, NN, **73**, 24.
- Rohr, René R. J., *A Unique Greek Sundial Recently Discovered in Central Asia*, **74**, 271.
- Rolland, William W., *A Photoelectric Study of Magnetic Variable Stars*, Edward W. Burke, Jr., William W. Rolland & William R. Boy, **64**, 353.
- Ronan, Colin, see Reviews, **85**, 60.
- Roney, J. Michael, *Finding Cepheid Maxima by Means of a Least-Squares Cubic*, J. Michael Roney, & Robert G. McCallum, **77**, 231.
- Rorabeck, A. J., *Kinematic Bias in Proper Motion Surveys*, P. C. Dawson, R. G. Johnson & A. J. Rorabeck, **89**, 201.
- Roussel, Alain, *Occultation pas Pallas*, B, **1**, 3, 8.  
*C. F. de Montréal Centre Report*, B, **4**, 2, 13.
- Routledge, D., *Site-Testing for a Proposed 12 MHz Radio Telescope in Alberta*, F. S. Chute, C. G. Englefield, P. J. R. Harding, C. R. James, D. Routledge, **65**, 49.  
*An Interference-Excising Correlator for Radio Astronomy*, B. L. Kasper, F. S. Chute, D. Routledge & J. F. Vaneldik, **72**, 310.
- Rowlands, Neil, *Observing at Mount Lemmon*, NN, **81**, 3.  
*Observing on the Kuiper Airborne Observatory*, NN, **82**, 34.
- Roy, Frank, *First Radio Quasar Observed by Amateur*, NN, **80**, 51.  
*A Brief History of the Indian River Observatory Radio Interferometer*, Frank Roy & Ken Tapping, **84**, 260.
- Roy, Jean-René, *The Magnetic Field Configuration of the Solar Corona after a Proton-Flare*, **66**, 220.  
 see Reviews, **70**, 91.  
*Étude Des Champs Magnétiques "Sans Courant" Dans la Couronne Solaire Active*, **70**, 292.  
*Structures Chromospheriques Fines dans la Couronne Solaire*, **71**, 373.  
*Comments on the Astronomical Alignments at Callanish, Lewis*, **74**, 1.  
*Une Systeme Modulaire D'Interferometrie de Fabry-Perot Pour L'Imagerie et la Spectrometrie*, J.-R. Roy, R. Arsenault, R. Bisson & G. Joncas, **76**, 277.  
 see Reviews, **77**, 156.  
 see Reviews, **77**, 156.
- Roy, Robert, *"Parfocalizing" Your Eyepieces*, B, **4**, 4, 3.  
*Shakespeare Was No Astronomer*, B, **5**, 5, 4.
- Rubin, Alan E., *Barred Olivine Chondrule in the Allende Meteorite*, **86**, 1.
- Rucinski, Slavek M., see Reviews, **79**, 147.  
 see Reviews, **79**, 190.  
 see Reviews, **79**, 273.  
 see Reviews, **79**, 325.  
 see Reviews, **80**, 159.  
 see Reviews, **81**, 22.  
*An Attempt to Use Narrow-Band H $\alpha$  Photometry to Estimate Levels of Stellar Activity*, **81**, 36.  
*Geopotential Surface Corrections to Large Aperture Liquid Mirror Telescopes*, Wayne H. Cannon & Slavek M. Rucinski, **89**, 99.  
 see Reviews, **89**, 197.
- Rusk, Raymond, see Reviews, **83**, 442.  
*Optical Polarization Properties of Compact Radio Sources*, **84**, 199.
- Russell, Dora, *Constellation Corner*, NN, **64**, 7.  
*Kings and Stars*, NN, **64**, 13.  
*The Planet That Never Was*, NN, **64**, 18.  
*Double Graze, June 1970*, NN, **64**, 26.  
*Manger in the Sky*, NN, **64**, 31.  
*I Never Count Sheep*, NN, **65**, 3.  
*Great Moments in Astronomy*, NN, **65**, 10.  
*What's In a Name?*, NN, **65**, 13.  
*Notes from Newfoundland*, NN, **66**, 33.  
*Notes from Newfoundland*, NN, **67**, 6.  
*Notes from Newfoundland*, NN, **67**, 11.  
*Activities at the Centre: St. John's*, NN, **67**, 22.  
*Notes from Newfoundland*, NN, **68**, 6.



- L'Envoi, The Stars Are Free*, NN, **70**, 16.  
*Skies Over Labrador*, NN, **70**, 82.  
*The Christmas Sky*, NN, **71**, 74.  
*The Frustrated Amateur*, NN, **72**, 43.  
*The Face of the Sky: Perseus*, NN, **77**, 80.
- Rutkowski, Chris, *Volcanic Ash Gets in Your Eyes*, NN, **74**, 52.  
*Where the Astronomers and the Buffalo Roam*, NN, **74**, 81.  
*What is Happening on the Moon? Lunar Transient Phenomena*, **75**, 237.  
*The Gert Herb Report*, NN, **75**, 12.  
*Revenge of the Space Pet*, NN, **76**, 58.
- Ryan, Dennis, *What Can an Amateur Do?*, NN, **74**, 47.  
*My Experiences in Teaching Astronomy*, NN, **80**, 91.  
*The 1987 General Assembly in Toronto*, NN, **81**, 50.  
*And Miles to Go*, NN, **81**, 78.  
*Intimidated*, NN, **82**, 77.  
*Astronomy in the Blood*, NNB, **83**, 37.  
*Discovery of an Observing Site*, B, **1**, 3, 6.  
*Put Nothing In; Expect Nothing Out*, B, **3**, 4, 7.  
*St. John's Centre Report*, B, **4**, 2, 15.  
*St. John's Centre Report*, B, **5**, 2, 12.
- Ryback, Peter R., *The Temiskaming Astronomical Society*, Peter Ryback & Dalton Farrow, NN, **70**, 66.  
*Report on the Temiskaming Astronomical Society*, NN, **72**, 84.  
*A Senior High School Course in Astronomy*, **79**, 144.  
*Observatory Opens at Cobalt-Haileybury High School*, NN, **82**, 60.
- Rybotycki, Daryl, *Observing the March Solar Eclipse*, NNB, **83**, 45.
- S**
- Sabatini, Denise, *Syracuse Summer Seminar*, NN, **81**, 77.  
*Recruiting Disabled People Into Astronomy*, NNB, **84**, 79.
- Sackmann, I.-Juliana, see Reviews, **76**, 409.
- Sadun, Alberto C., *A Complete Spectral Analysis of the Flare of the Quasar 3C 273*, **86**, 15.
- Sagar, Ram, *Study of the Open Cluster IC 1805*, U. C. Joshi & Ram Sagar, **77**, 40.
- Sage, Dave, *Huronian Star Party: Stellar Speakers*, B, **4**, 6, 6.
- Salmon, Rick, *Hydrogen Hypersensitization for Films*, NN, **70**, 42.
- Sampson, Russ, see Reviews, **85**, 149.  
*A Polar Expedition of a Different Kind*, B, **4**, 3, 4.
- Sandage, Allan, *Edwin Hubble 1889-1953*, **83**, 351.  
*On the Formation and Age of the Galaxy*, **84**, 70.
- Sanders, R., *The Isoclinic Sundial*, R. Sanders & W. J. Sanders, **83**, 145.  
*The Modified Isoclinic Sundial*, **84**, 116.
- Sanders, W. J., *The Isoclinic Sundial*, R. Sanders & W. J. Sanders, **83**, 145.
- Sanford, John, *Decalogue for Stargazers*, NN, **79**, 46.
- Sarjeant, W. A. S., "Earthquakes in the Air": *The Seismological Theory of John Flamsteed (1693)*, J. E. Kennedy & W. A. S. Sarjeant, **76**, 213.
- Sarkar, S. K., *Some Studies on Geomagnetic Crochet-Associated Solar Optical Flares and Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 66.  
*Spectra of Different Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 152.  
*A Comparative Study of the Different Aspects of Impulsive and Gradual Rise and Fall Types of Solar Microwave Bursts*, M. K. Das Gupta & S. K. Sarkar, **65**, 284.  
*Some Studies on the Spectra of the Different Components of the Absolute Solar Microwave Flux*, M. K. Das Gupta, T. Chattopadhyay & S. K. Sarkar, **70**, 185.
- Saroch, Zdenko A., *The Colourful Pleides*, NN, **74**, 4.  
*Two Interesting Variable Stars*, NN, **76**, 23.  
*A Pulsar's Perplexing Periodic Pulses*, B, **2**, 2, 7.
- Sarty, Gordon, *The Value of Fireball Reports from the General Public: The October 30, 1993 Western Canada Fireball as a Case Study*, Richard Huziak & Gordon Sarty, **88**, 332.
- Sasselov, Dimitar, see Reviews, **85**, 231.
- Savage, Carl, *Relative Sunspot Number*, NN, **78**, 40.  
*Planets in the Daytime*, NN, **79**, 54.
- Sawyer, C., *The Solar Microwave "Negative Burst" Associated with the Dark Fan of 21 May 1967*, **70**, 127.  
*Solar Activity Associated with an Unusual Series of Microwave Flux Decreases*, **70**, 228.
- Saxon, Grey, *The Incredible Blinking Reticle*, B, **1**, 3, 3.
- Scarfe, Colin D., *A Time of Minimum for HD 217312*, C. D. Scarfe & D. J. Barlow, **68**, 96.  
 see Reviews, **72**, 236.  
*A Progress Report on NY Cephei*, **73**, 258.  
 see Reviews, **74**, 40.  
 see Reviews, **74**, 250.
- Coudé Radial Velocities of  $\zeta$  Herculis*, C. D. Scarfe, H. Funakawa, P. A. Delaney & David J., Barlow, **77**, 126.  
*Radial Velocity Observations of Two Visual Binaries*, Alan H. Batten, Wenxian Lu & C. D. Scarfe, **79**, 167.  
*On the Velocity Variability of 5 Serpentis and  $\alpha$  Aquilae*, **79**, 180.  
*Is the Distribution of Binary Mass Ratios Really Bimodal?*, **80**, 257.  
*The Rotations of Planets With Satellites*, **82**, 80.  
*The Spectroscopic Orbit of HD 53299A*, C. D. Scarfe, R. Griffin & R. Griffin, **82**, 128.
- Scatliff, John R., *Some Old Astronomical Instruments of Historical Value*, **62**, 125.  
*An Observation of the Total Solar Eclipse of March 7, 1970*, T. Cairns, P. Moffat, J. Newton, J. Scatliff & J. Steffensen, **64**, 242.  
*Eclipse-72 Over the Northwest Territories*, NN, **66**, 28.
- Scatliff, John N. R., NN, **72**, 17.
- Schade, D., *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchet, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Schieven, Gerald, *Project Zubenelgenubi — 1978 A Public Awareness of Astronomy Programme*, NN, **73**, 2.
- Schlosser, W., *Stone-Age Burials as a Hint to Prehistoric Astronomy*, Th. Schmidt-Kaler & W. Schlosser, **78**, 178.
- Schmidt, Maarten, *From Galactic Structure to Quasars*, **87**, 318.

- Schmidt-Kaler, Th., *Stone-Age Burials as a Hint to Prehistoric Astronomy*, Th. Schmidt-Kaler & W. Schlosser, **78**, 178.
- Schmude, Jr., Richard W., *Mars 1986 Opposition*, **82**, 19.  
*A View of Uranus and Neptune*, NN, **82**, 86.  
*Observations of Mars in 1988*, **83**, 405.  
*Distant View of Mars*, NNB, **84**, 77.  
*Observations of Mars in 1990-91*, **86**, 117.  
*Wideband Photometry of Mercury, Venus, Jupiter, Callisto and Saturn*, **87**, 133.  
*Observations of Mars in 1990-91*, **87**, 251.  
*Observations of Mars in 1992-93*, Richard W. Schmude, Jr. & Danny Bruton, **88**, 69.  
*Observations of Jupiter in 1994*, Richard W. Schmude, Jr. & Danny Bruton, **89**, 257.  
*Observations of Mars in 1994-95*, **90**, 193.  
 see Reviews, **90**, 363.
- Scovill, Charles C., *The AAVSO Variable Star Atlas*, **75**, 164.
- Scrimger, J. Norman, *Observations of IC 418 in the Near-Infrared*, **73**, 90.  
*Teaching Constellations in an Introductory Astronomy Course*, **75**, 330.  
 see Reviews, **77**, 267.  
*Partial Automation of a Cuffey Iris Astrophotometer*, B. Cameron Reed, David G. Turner & J. Norman Scrimger, **80**, 203.
- Scrimger, Malcolm, *3<sup>rd</sup> Annual Mount Kobau Star Party*, NN, **80**, 76.
- Seaquist, E. R., see Reviews, **63**, 320.  
*Notes From Australia*, NN, **69**, 38.  
 see Reviews, **75**, 161.  
*Dedication of University of Toronto's 61 cm Telescope in Chile in Honour of Professor Helen Sawyer Hogg*, **86**, 332.  
 see Reviews, **89**, 129.
- Sears, R. L., *Origin of the Chemical Elements and Stellar Evolution*, **68**, 1.
- Secker, Jeff, *Astrophysical and Biological Constraints on Radiopanspermia*, Jeff Secker, Paul S. Wesson & James R. Lepock, **90**, 184.
- Segal, Brian, *Long Time, No See*, B, **1**, 1, 3.
- Sego, Gary L., *A Suggested Eclipse Experiment*, Brian K. Dennison & Gary L. Sego, NN, **66**, 4.
- Sekanina, Zdenek, *Encke, the Comet*, **85**, 324.
- Selinger, James, *Sarnia Centre Report*, B, **4**, 2, 16.  
*Sarnia Centre Report*, B, **5**, 2, 12.
- Semeniuk, Ivan, see Reviews, **87**, 166.
- Seronik, Gary, *The Magic of f-Ratios*, B, **5**, 3, 1.  
*The Telescope Visibility Factor*, B, **5**, 4, 1.  
*Telescope Making on the Internet*, B, **6**, 5/6, 6.
- Shahar, Charles, *Has Astronomy Lost Its Innocence?*, B, **6**, 3, 1.
- Shara, Michael, see Reviews, **78**, 166.  
 see Reviews, **84**, 236.
- Sharpe, Steve, *Another Look at the Delta Scuti Star FM Comae*, Jeff Bax, William H. Wehlau & Steve Sharpe, **89**, 245.
- Shelton, Ian K., *A Simple and Accurate On-Line Data Acquisition Program*, M. Pim FitzGerald & Ian Shelton, **76**, 337.  
*The UTSO CCD*, Marshall L. McCall, Jayanne English & Ian Shelton, **83**, 179.  
 see Reviews, **84**, 284.
- A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 151.  
*A CCD Spectrograph for the University of Toronto Southern Observatory in Chile*, R. F. Garrison, K. W. Kamper, Brian Beattie, A. Ridder & Ian Shelton, **87**, 344.
- Sher, D., *The Relativistic Doppler Effect*, **62**, 105.  
*Foucault's Pendulum*, **63**, 227.
- Shier, Bruce W., *An Encounter With Totality*, B, **1**, 5, 4.
- Shigehisa, Osao, *Japanese Amateur Astronomers Meet*, NN, **77**, 6.  
*Japanese Variable Star Observations in 1982*, NN, **77**, 85.  
*Canadian Amateurs Invited to Japan*, NN, **81**, 36.
- Shinn, B. Franklin, *A Report of an Unsuccessful Expedition to Observe a Grazing Occultation*, **62**, 52.  
*E. R. Gardner Grinding Machine Serves Winnipeg Planetarium*, **63**, 1.  
*Winnipeg (Manitoba Museum of Man and Nature) Planetarium*, **63**, 316.  
*Solar Eclipse July 10 from Prince Edward Island*, NN, **66**, 29.  
*Solar Telescope at Winnipeg to Mark Quincentennial of Copernicus' Birth*, **67**, 88.  
*Program Problems — People*, NN, **69**, 4.  
*Keeping the Records — Straight*, NN, **69**, 17.  
*Public Interest in Astronomy is High, Winnipeg Planetarium Finds*, NN, **70**, 34.  
*Let Us Now Praise Famous Men*, NN, **70**, 80.  
 see Reviews, **71**, 209.  
*Early Morning Graze of Venus, May 14*, NN, **71**, 37.  
*Editorial*, NN, **72**, 2.  
*Of Pleides and Particles*, NN, **74**, 74.  
*Remote Focusing for Telescope*, NN, **74**, 90.  
*Sol-Lunar Forces and Tides*, NN, **77**, 11.  
*Sol-Lunar Forces and Tides — Part 2*, NN, **77**, 25.  
*Astronomy Intrigues "Bufs" on Vancouver Island*, NN, **78**, 3.  
*Now Where Is That Comet? Building a Simple Model of Comet Halley's Orbit*, NN, **79**, 40.  
*Now Where Is That Comet? Building a Simple Model of Comet Halley's Orbit*, NN, **79**, 69.  
*A Visit to the Ball Observatory*, NN, **80**, 35.  
*Observations About Graze Observations*, NN, **81**, 66.  
*Who's Leading What or Whom Where?*, NNB, **83**, 39.  
*Astronomical Versus Society*, B, **3**, 5, 2.
- Shinn, J. B., *The Band Spectra of Yttrium Oxide*, J. B. Shinn & R. W. Nicholls, **66**, 222.
- Shoemaker, Carolyn S., *Twelve Years on the Palomar 18-Inch Schmidt*, **90**, 18.
- Shore, Steven N., see Reviews, **77**, 275.
- Shultz, Robert, *A Radio Telescope for the Discovery Park*, William Lonc & Robert Shultz, **89**, 106.
- Shuter, W. L. H., *An Attempt to Study Solar Oscillations at 31.4 GHz*, W. L. H. Shuter & W. H. McCutcheon, **66**, 221.  
*The 4.57 m Millimetre Wave Telescope at the University of British Columbia*, W. L. H. Shuter & W. H.

- McCutcheon, **68**, 301.  
 see Reviews, **72**, 235.
- Sida, D. W., *Whatever Became of Tungol-Craft: Some Notes on the Origin of Astronomical Words*, **70**, 67.  
*Einstein: The Revolution in Space-Time*, **73**, 133.  
 see Reviews, **74**, 42.
- Sigurdson, Paul, see Reviews, **78**, 260.
- Sigurdson, Peter, see Reviews, **79**, 39.
- Silverman, S. M., *A Note on Anomalous Sounds from Meteor Fireballs and Aurorae*, D. Y. Wang, T. F. Tuan & S. M. Silverman, **78**, 145.
- Simard-Normandine, Martine, see Reviews, **74**, 45.
- Simison, Jack, *A Society First!?*, B, **1**, 1, 2.
- Skene, Glenn, *Why I Like to Gaze*, B, **4**, 1, 1.
- Skinner, Ray, *Gravity and its Astronomical Implications: An Elementary Guide*, **68**, 173.  
*Gravity and Its Astronomical Implications: An Elementary Guide*, **68**, 237.  
*Gravity and Its Astronomical Implications: An Elementary Guide*, **68**, 307.  
 see Reviews, **76**, 142.
- Small, Richard, *On the Money*, B, **2**, 2, 8.
- Smecker-Hane, Tammy, *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Smiley, Charles H., *Stationary Conjunction and Near-Conjunctions of Jupiter and Saturn*, **62**, 181.  
*The Thix and the Fox, Mayan Solar Eclipse Intervals*, **67**, 175.  
 see Reviews, **68**, 276.  
*A Note on the Periodicity of Eclipses*, **69**, 133.
- Smith, Chris, *The Skies Down Here*, NN, **68**, 5.
- Smith, D. G. W., *Vilna Meteorite — Camera, Visual, Seismic and Analytic Records*, R. E. Folinsbee, L. A. Bayrock, G. L. Cumming & D. G. W. Smith, **63**, 61.  
*Two Alberta Fireballs in 1985*, R. E. Folinsbee, D. G. W. Smith, D. P. Hube & K. J. Finstad, **80**, 312.
- Smith, Julian A., *Halley's Comet: A Bibliography of Canadian Newspaper Sources, 1835-36 and 1910*, **79**, 54.  
*Halley's Comet: Canadian Observations and Reactions, 1835-36 and 1910*, **80**, 1.  
*The Schmalcalders of London and the "Priddis" Dial*, **87**, 4.  
*Charles Potter, Optician and Instrument Maker*, **87**, 14.
- Smith, Linton, *Sumkmer Lecture Series in Saskatoon*, NN, **65**, 18.
- Smith, M. J. W., "Skyball?????????", NN, **75**, 47.
- Smith, Sylvia, *Introducing Children to Astronomy*, B, **1**, 2, 6.
- Smoot, George F., *COBE Observations of the Early Universe*, **88**, 114.
- Smythe, Bill, *Have Telescope Will Travel*, Bill Smythe, Eric Clinton & G. Chris Essex, NN, **67**, 27.
- Soulié, Edgar, *Proposal to Make a Line of Micrometers*, **82**, 82.
- Spinney, Steven, *Starfest '86*, NN, **80**, 79.
- Natural Light Pollution: The March Aurora Display*, NNB, **83**, 55.  
*The 1991 General Assembly*, B, **1**, 5, 3.
- Spragins, Howard, *Archeo ATM*, NNB, **83**, 60.
- Spratt, Christopher E., *An Eclipse of Iapetus by Saturn Predicted for October 19, 1977*, NN, **71**, 39.  
*Processing Service for GAF Film*, NN, **72**, 64.  
*Variable Star Observing Part I 342*, NN, **72**, 72.  
*Variable Star Observing Part II*, NN, **72**, 85.  
*Light Pollution*, NN, **76**, 30.  
*The Lost Periodic Comets of More Than One Apparition*, **78**, 39.  
*The Lost Periodic Comets of One Apparition*, **78**, 189.  
*Periodic Comet Biela 1852 III — An Update*, **78**, 251.  
*Comet News*, NN, **78**, 47.  
*The Aten-Apollo-Amor Close-Approach Minor Planets*, **81**, 8.  
*The 1989 Return of the Periodic Comet Brorsen-Metcalf*, **81**, 95.  
 see Reviews, **81**, 179.  
*On the Naming of Minor Planets*, NN, **81**, 28.  
*Canadian Meteorites and the National Meteorite Collection of Canada*, **82**, 24.  
*The Trojan Minor Planets*, **82**, 204.  
*The "Eclipse Comets"*, NN, **82**, 19.  
*Minor Planet Toro Approaching Earth*, NN, **82**, 48.  
*Canada's Iron Creek Meteorite*, **83**, 81.  
*Canada's Iron Creek Meteorite*, **83**, 329.  
*The Hilda Group of Minor Planets*, **83**, 393.  
*The Hungaria Group of Minor Planets*, **84**, 123.  
*Possible Hazards of Meteorite Falls*, **85**, 263.  
*The Possible Return of a Famous Comet in 1992*, **86**, 187.  
*A Simple Method for Viewing Meteorite Thin Sections*, **86**, 215.
- Stagg, Christopher, see Reviews, **79**, 328.
- Stahl, Philip A., *Transient Optical Phenomena of the Atmosphere — A Case Study*, **74**, 168.  
*Solar Flare Prognostication by the Empirical-Statistical Approach*, **77**, 203.
- Stairs, Winston, *The Increasing Importance of Amateur Contributions to Astronomy*, NNB, **83**, 50.  
*Eyes of Wonder*, NNB, **84**, 42.
- Stebbins, Frank A., *Jules Verne (True Prognosticator or Obfuscated Obfuscator)*, **61**, 20.  
 see Reviews, **66**, 129.
- Stebbins, Robert A., *Looking Downwards: Sociological Images of the Vocation and Avocation of Astronomy*, **75**, 2.
- Steffensen, J., *An Observation of the Total Solar Eclipse of March 7, 1970*, T. Cairns, P. Moffat, J. Newton, J. Scatliff & J. Steffensen, **64**, 242.
- Steffin, Peter, *Canada Customs Tariff Changes*, NN, **76**, 46.
- Stegman, John E., *Distribution of O to A0 Stars in a Region in Vela ( $\ell = 268^\circ$ ;  $b = -0.3^\circ$ )*, John E. Stegman & M. Pim FitzGerald, **66**, 303.
- Stern, S. Alan, *Pluto-Charon: Implications of Bouet's Empirical Relation*, **81**, 157.
- Stetson, Peter B., *Progress in CCD Photometry*, **86**, 71.  
*Improvements to the PDS Microdensitometer of the Dominion Astrophysical Observatory*, J. R. Stilburn, P. B. Stetson & W. A. Fischer, **86**, 140.

Stevens, Del, *Activities at the Centre: Winnipeg*, NN, **67**, 21.  
*A Setback But Not a Disaster*, Del Stevens & Phyllis Belfield, NN, **73**, 46.

Stewart, Ian W., *The Failure of Scottish Astronomy in the Eighteenth Century — Part II*, NN, **75**, 37.

Stewart, Maurice Bruce, *Did He Really Say That?*, B, **4**, 3, 2.

Stewart, R. Meldrum, *The Early History of Astronomical Activity in the Canadian Public Service*, **65**, 206.

Stilborn, J. R., *A Rapid Scanning Radial Velocity Spectrometer*, J. R. Stilborn, J. M. Fletcher & F. D. A. Hartwick, **66**, 49.  
*Improvements to the PDS Microdensitometer of the Dominion Astrophysical Observatory*, J. R. Stilborn, P. B. Stetson & W. A. Fischer, **86**, 140.

Stilwell, W. H., *The Calgary Centennial Planetarium*, W. H. Stilwell & J. F. Wright, **62**, 75.

Stoke, Philip, see Reviews, **84**, 365.

Stokes, David M., *Some Reflections on the Personal Computer for the Amateur Astronomer*, NN, **77**, 74.  
*A Clock for All Occasions*, NN, **80**, 87.

Stooke, P. J., see Reviews, **83**, 338.

Straker, Robert W., see Reviews, **82**, 45.

Stran Kay, Murray, *A Very Active Programme at Saskatoon*, NN, **67**, 13.

Stuart, Ian, *The Failure of Scottish Astronomy in the Eighteenth Century — Part I*, NN, **75**, 21.  
*More Adventures in Good Observing*, NN, **79**, 71.

Stuhr, Christian, *Speaking of God and the Universe*, **80**, 87.  
*May the Force Be With Us?*, B, **2**, 1, 2.

Subitsky, Edward, *A Call for More Scientific Truth in Product Warning Labels*, Susan Hewitt & Edward Subitsky, B, **1**, 5, 1.

Susel, Frank M., *Recording the Eclipse Shadow Bands on Magnetic Tape*, **65**, 273.

Swan, P. M., *You're a Great Fellow, Ed!*, B, **6**, 1, 2.

Szathmary, Kara, *Low Dispersion Spectroscopy of Lowell White Dwarf Suspects*, **66**, 219.

## T

Talbot, Carole, *Montreal Centre Report*, B, **5**, 2, 9.  
*Montreal Centre Report*, B, **6**, 2, 11.

Tanner, J. G., *Morris James Sage Innis, 1907-1980*, M. R. Dence & J. G. Tanner, **75**, 117.

Tanner, Richard W., *UT, UT<sub>C</sub>, ET and AT*, **61**, 41.  
 see Reviews, **65**, 304.  
*A Note on Copernicus' Instruments*, **67**, 40.  
*On the Age of Mare Orientale*, C. S. Beals & R. W. Tanner, **69**, 299.  
*Canada's Prime Meridian*, Malcolm M. Thomson & Richard W. Tanner, **71**, 204.  
*Events Interpreted as Volcanic, Associated With the Impact Craters Gagarin and Aitken on the Lunar Farside*, C. S. Beals & R. W. Tanner, **72**, 3.  
 see Reviews, **76**, 62.

Tanquay, Ronald C., *Binary Star Observer's Group Formed*, B, **1**, 1, 8.

Tapping, Ken F., see Reviews, **72**, 175.  
*Amateur Radio Astronomy Part I*, NN, **72**, 5.  
*Amateur Radio Astronomy Part II*, NN, **72**, 22.  
*Amateur Radio Astronomy Part III*, NN, **72**, 38.

*Amateur Radio Astronomy Part IV*, NN, **72**, 60.  
*The Ottawa Centre's Radio Telescope*, NN, **73**, 12.  
*The 1979 February 26 Solar Eclipse on Short Wave*, Ken Tapping & Chip Wiest, NN, **74**, 40.  
*A Brief History of the Indian River Observatory Radio Interferometer*, Frank Roy & Ken Tapping, **84**, 260.  
*Adaptive Potential Drops as Energy Dissipators in Solar Magnetic Structures*, **85**, 178.  
*A Nearby Star*, **88**, 1.  
*A Nearby Star*, **88**, 170.

Tapping, J., *Secretary's Report*, NN, **75**, 58.

Tardif, Alphonse, *Bloc de Guidage à Logique COS/MOS*, NN, **71**, 69.  
*Bloc de Guidage à Logique COS/MOS*, NN, **72**, 10.

Tassoul, M., *Nucleosynthesis and Stellar Evolution*, Gilles Beaudet & M. Tassoul, **66**, 221.

Tatum, Jeremy B., *The Observability of Comets*, **69**, 212.  
*Is an Ellipse a Conic Section?*, NN, **70**, 38.  
 see Reviews, **72**, 56.  
*Theory of Planetary Photometry*, Timothy P. Lester, Marshall L. McCall & Jeremy B. Tatum, **73**, 233.  
*The Measurement of Comet Position*, **76**, 97.  
*The Calculation of Comet Ephemerides*, **76**, 157.  
 see Reviews, **78**, 52.  
 see Reviews, **78**, 92.  
 see Reviews, **79**, 272.  
*The Oblique Doppler Effect*, **79**, 302.  
 Editorial, **83**, 1.  
*Tit-for-Tat: Another "Canadian" Asteroid*, **83**, 134.  
 Editorial, **83**, 135.  
 Editorial, **83**, 267.  
*A Hitherto Unrecorded Fragment of the Bruderheim Meteorite*, **84**, 1.  
 Editorial, **84**, 57.  
*The Second-Largest Telescope*, **84**, 231.  
 Editorial, **84**, 241.  
*Comet Levy 1990c*, **84**, 283.  
 Editorial, **84**, 293.  
*British Astronomical Association*, **84**, 438.  
 Editorial, **85**, 2.  
 Editorial, **85**, 65.  
*The Anti-Tail of Periodic Comet Machholz 1986 VIII*, J. B. Tatum, D. D. Balam & T. B. Lowe, **85**, 91.  
*Light Pollution*, **85**, 109.  
*Minor Planets with a Canadian Connection*, **85**, 381.  
*Comets Discovered by Canadians*, **85**, 384.  
 Editorial, **86**, 69.  
*Comets Discovered by Canadians*, **86**, 113.  
*Minor Planets With a Canadian Connection*, **86**, 214.  
*The Discovery of Sprattia*, B, **2**, 1, 4.  
*Canadian Asteroids — A Mistake!*, B, **2**, 3, 2.  
*What the Blinkity-Blink is Going On Here?*, B, **2**, 6, 5.  
*(4719) Burnaby*, **87**, 68.  
 Editorial, **87**, 171.  
 Notes, **87**, 394.  
*An Ocean of Stars*, B, **3**, 4, 5.  
*Comet Shoemaker-Levy 1994d*, **88**, 170.  
*Comet Takamizawa-Levy 1994f*, **88**, 171.  
*The One That Got Away*, B, **4**, 5, 5.  
*Endangered Asteroids*, B, **4**, 5, 6.  
*Comet P/1995 A1 (Jedicke)*, **89**, 70.

- f-Values*, B, **5**, 4, 6.  
*Heard Has Been Seen*, B, **5**, 4, 7.  
*Comet P/1996 AI (Jedicke)*, **90**, 102.  
*Asteroids With Canadian Connections*, **90**, 237.
- Taylor, Andrew R., see Reviews, **79**, 37.  
*Data Acquisition at the RAO: Light Curves from the Optical and Infrared Telescopes*, E. F. Milone, T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J. E. Penfold, K. G. Robinson, A. R. Taylor & J. Van Leeuwen, **83**, 317.
- Taylor, Peter O., see Reviews, **87**, 259.  
Tennyson, R. C., see Reviews, **85**, 115.  
see Reviews, **85**, 115.
- Terzian, Yervant, *Selected HI Observations of Double Galaxies*, Steven D. Peterson & Yervant Terzian, **73**, 215.
- Thomas, Christopher J., *Distribution of B8-A0 Stars and Interstellar Reddening Towards NGC 5927*, B. Cameron Reed & Christopher J. Thomas, **86**, 248.
- Thompson, Raymond R., see Reviews, **66**, 176.  
*Further Observations of HR 4483, A Small-Amplitude Red Variable Star*, **90**, 206.
- Thomson, Jim, *New Observations of HD 218154*, Jim Thomson & C. T. Bolton, **71**, 259.
- Thomson, Malcolm M., *Astronomy of Time and Position*, **61**, 226.  
*A Sun-Dial at EXPO '67*, **62**, 90.  
*W. S. McClenahan (1892-1968)*, **62**, 133.  
*The Calgary Photographic Zenith Tube (P. Z. T.)*, **62**, 205.  
*The Royal Astronomical Society of Canada 1968*, **63**, 177.  
*Standard Time and Time Zones in Canada*, **64**, 129.  
*Three Interesting Sundials*, **65**, 21.  
*Two Sundials of Canadian Design*, **65**, 159.  
*Canada Adopts Atomic Time*, **65**, 302.  
*Henri Simard, 1922-1973*, Malcolm M. Thomson & Martine Normandin, **68**, 53.  
*Canada's Prime Meridian*, Malcolm M. Thomson & Richard W. Tanner, **71**, 204.  
*Judson Pulford Henderson*, **80**, 221.
- Tindall, David A., *Secretary's Report*, B, **3**, 2, 3.  
Tobias, Sheila, *What Makes Science "Hard"?*, **87**, 327.
- Tonge, Debbie, *A Visit to the Herschel House*, Phil Mozell & Debbie Tonge, NN, **75**, 5.
- Torrance, Tom, *Writing for a Newsletter*, NN, **82**, 61.
- Tothill, Tom, *What a Gorgeous Eclipse!*, NN, **64**, 11.  
*North Mountain Observatory Well and Truly Opened*, NN, **65**, 25.
- Tough, Allen, see Reviews, **90**, 104.
- Treloar, Norman C., *Investigation of Array Configurations for An Aperture-Synthesis Radio Telescope*, **83**, 92.  
*Investigation of Array Configurations for an Aperture-Synthesis Radio Telescope*, **83**, 429.
- Tremaine, Scott, see Reviews, **79**, 35.
- Tremko, Jozef, *The Eclipsing Binary EM Cephei*, Gustav A. Bakos & Jozef Tremko, **69**, 307.  
*U Cephei and Its Outbursts in 1969 and 1974*, Gustav A. Bakos & Jozef Tremko, **71**, 234.  
*A Photometric Study of the Am Binary System AN Andromedae*, Jozef Tremko & Gustav A. Bakos, **72**, 263.  
*Variations of the Light Curve of the Eclipsing Binary EM Cephei*, Jozef Tremko & Gustav A. Bakos, **74**, 321.
- History of U Coronae Borealis — A Sequel*, Gustav A. Bakos & Jozef Tremko, **75**, 124.  
*The Semiregular Variable 57 Pegasi*, J. Tremko & G. A. Bakos, **80**, 230.
- Trimble, Virginia, see Reviews, **85**, 116.
- Troyer, Frederic L., *Jesse Keichum, 1885-1973*, NN, **67**, 30.  
*Notice Regarding Overdue Books and Slides*, NN, **72**, 15.  
*The National Library of the Society*, NN, **72**, 16.  
*Congratulations to Dr. Hogg!*, NN, **77**, 34.  
*Asteroids Named for Canadian Astronomers*, NN, **78**, 85.
- Troyer, Frederic W., *The Society's Library*, NN, **72**, 77.
- Truran, J. W., *The Chemical Evolution of the Galaxy*, A. G. W. Cameron & J. W. Truran, **65**, 1.
- Tuan, T. F., *A Note on Anomalous Sounds from Meteor Fireballs and Aurorae*, D. Y. Wang, T. F. Tuan & S. M. Silverman, **78**, 145.
- Turner, B. E., *Anomalous Emission from Interstellar Hydroxyl and Water*, **64**, 221.  
*Anomalous Emission from Interstellar Hydroxyl and Water*, **64**, 283.  
*Interstellar Molecules — A Review of Recent Developments*, **68**, 55.
- Turner, David G., *CV Monocerotis — The Forgotten Cluster Cepheid*, **72**, 248.  
*Canada-Wide Science Fair*, NN, **72**, 79.  
*A Study of the Extinction in the Young Open Cluster NGC 6823*, **73**, 74.  
see Reviews, **73**, 351.  
*Recent Observations of HD 127617 — Bidelman's High-Latitude Be Star*, David G. Turner & Ronald W. Lyons, **74**, 12.  
*The Reddening of Beta Doradus*, **74**, 64.  
see Reviews, **75**, 338.  
*The Open Cluster Tombaugh I and Its Neighbouring Cepheid XZ Canis Majoris*, **77**, 31.  
*On the Need for a New Spectroscopic Standard for MK Spectral Type B0III*, David G. Turner & Ronald W. Lyons, **77**, 87.  
see Reviews, **77**, 158.  
*The Sudbury Astronomy Club*, NN, **77**, 61.  
*Space Reddenings for Six Cepheid Variables*, **78**, 229.  
*A Newly-Discovered Open Cluster Surrounding the 68½-Day Cepheid S Vulpeculae*, **79**, 175.  
*Photometry of the S Vul Cluster*, David G. Turner, Peter J. T. Leonard & Barry F. Madore, **80**, 166.  
*Partial Automation of a Cuffey Iris Astrophotometer*, B. Cameron Reed, David G. Turner & J. Norman Scrimger, **80**, 203.  
*Estimated Companion Characteristics for Five Classical Cepheids*, Peter J. T. Leonard & David G. Turner, **80**, 240.  
*Obituary*, David G. Turner & Francis J. Heyden, **83**, 250.  
see Reviews, **86**, 160.  
*Editorial*, **88**, 91.  
*Demonstrating Cluster Main-Sequence Fitting to Best Advantage*, **88**, 176.  
*Twenty-Fifth Meeting of the Canadian Astronomical Society Held in London, Ontario, May 24-28, 1994*, **88**, 243.  
*CASCA '92 Hyades Cluster Workshop*, David G. Turner, Robert F. Garrison & Stephen C. Morris, **88**, 303.

*Editorial*, **89**, 1.  
*Twenty-Sixth Meeting of the Canadian Astronomical Society Held in Penticton, British Columbia, May 26-31, 1995*, Robert S. Roger & David G. Turner, **89**, 155.  
*Binaries and Clusters Collide in Calgary*, Gene Milone & David Turner, **89**, 227.  
*Sunrises and Sunsets*, **90**, 1.  
*Commentary*, **90**, 67.  
*The Progenitors of Classical Cepheid Variables*, **90**, 82.  
*Commentary*, **90**, 113.  
*In This Issue*, **90**, 177.  
*For the Information of Our Readers and Subscribers*, **90**, 243.  
*Twenty-Seventh Meeting of the Canadian Astronomical Society Held in Kingston, Ont., June 1-5, 1996*, **90**, 304.  
Twain, Mark, *A Plan for the Improvement of English Spelling*, **B**, **3**, 4, 12.

## U

Ulrich, C. Joady, *Windsor Centre Report*, **B**, **3**, 2, 18.  
*Windsor Centre Report*, **B**, **4**, 2, 21.  
*Windsor Centre Report*, **B**, **5**, 2, 16.  
*Windsor Centre Report*, **B**, **6**, 2, 19.  
Underhill, Anne B., *The Near Ultraviolet Spectrum from a B Star*, **61**, 9.  
*The Interpretation of Stellar Spectra*, **62**, 331.  
*Spectral Lines in the Ultraviolet*, **71**, 123.  
see Reviews, **77**, 340.  
Urbain, Jean-Pierre, *Le Mort de L'URSS et Celle de L'Astrologie?*, **B**, **2**, 3, 3.

## V

Vallée, Jacques P., *Cinquante Annees de Radioastronomie: Progres, Decouvertes et Avenir*, **76**, 1.  
see Reviews, **76**, 147.  
*Les Voies Magnetiques dans Notre Galaxie (Revue du Champ Magnetique Interstellaire)*, **77**, 177.  
see Reviews, **77**, 270.  
*Magnetism des Galaxies Spirales*, **78**, 57.  
*Sommaire de 25 Anees D'Observations Visant a Detecter des Etres Intelligents Extraterrestres*, **79**, 9.  
*Les Gaz Ionises dans Notre Galaxie (Revue des Regions H II, He II, C II, S II Interstellaires)*, **80**, 16.  
see Reviews, **81**, 68.  
*Les Gaz Ionises dans le Noyau de Notre Galaxie*, **81**, 75.  
*Les Gaz Ionises Hors du Noyau d'une Galaxie Spirale ou Irrégulière*, **81**, 128.  
see Reviews, **82**, 159.  
*The Search for Knowledge: Science vs. Religion?*, **83**, 8.  
see Reviews, **83**, 260.  
see Reviews, **85**, 58.  
see Reviews, **70**, 204.  
see Reviews, **71**, 62.  
see Reviews, **71**, 338.  
see Reviews, **71**, 421.  
*Revue des Galaxies Exhibant une Trainee Luminuese*, **71**, 443.  
see Reviews, **72**, 171.  
see Reviews, **72**, 231.

see Reviews, **73**, 45.  
see Reviews, **73**, 170.  
see Reviews, **73**, 317.  
see Reviews, **74**, 181.  
see Reviews, **75**, 270.  
see Reviews, **76**, 330.  
*Discovery of a Remarkable Cometary-Shaped Radio Source*, Lloyd A. Higgs & Jacques P. Vallée, **78**, 155.  
*Radio Observations of a Neglected 3C Source: 3C 428*, L. A. Higgs & J. P. Vallée, **80**, 180.  
*Recherches Canadiennes sur la Vie Intelligente Extraterrestre*, NNB, **83**, 18.  
*Skewed Neutral Hydrogen Distributions and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, **88**, 201.  
*Skewed Neutral Hydrogen Distribution and Different Magnetic Field Shapes in Nearby Spiral Galaxies*, **88**, 405.  
van Asperen, Hein, *The Fort Malden Telescope: The Story Continues*, NN, **81**, 56.  
van den Bergh, Sidney, *Fossil HII Regions*, **61**, 23.  
*Apparent Visual Magnitudes of the Brightest Stars in Globular Clusters*, **61**, 179.  
*Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Remage & Vicki Watt, **61**, 339.  
see Reviews, **61**, 347.  
*The Galaxies of the Local Group*, **62**, 145.  
*The Galaxies of the Local Group*, **62**, 219.  
*The Stars in Elliptical Galaxies*, **65**, 13.  
see Reviews, **65**, 306.  
see Reviews, **66**, 177.  
*The Evolution of Galaxies — A Heretical View*, **66**, 237.  
*The Discovery of Comet 1974g*, **69**, 29.  
*The Classification of Normal Galaxies*, **69**, 57.  
*The Classification of Active Galaxies*, **69**, 105.  
see Reviews, **71**, 276.  
see Reviews, **73**, 165.  
*The Origin of Lenticular Galaxies*, **73**, 198.  
*The Total Solar Eclipse of February 16, 1980*, **74**, 238.  
see Reviews, **75**, 67.  
*Novae and the Extragalactic Distance Scale*, **75**, 169.  
see Reviews, **75**, 267.  
*Giant Molecular Clouds and the Solar System Comets*, **76**, 303.  
see Reviews, **77**, 228.  
*Publication by Canadian Astronomers*, **78**, 97.  
see Reviews, **78**, 226.  
*Astronomy with the Hubble Space Telescope*, **79**, 134.  
*The Age of the Universe*, **79**, 153.  
see Reviews, **80**, 157.  
*Miscellaneous Photoelectric UBV Observations*, **82**, 13.  
*Supernovae and Their Remnants*, **82**, 179.  
see Reviews, **84**, 54.  
*Age and Evolution of the Galactic Disk and Halo*, **84**, 60.  
*Cosmology — In Search of a New Paradigm?*, **84**, 275.  
see Reviews, **85**, 145.  
*An Astronomical Life: J. H. Oort (1900-1992)*, **87**, 73.  
see Reviews, **88**, 280.  
*Genius and Error*, **88**, 353.  
*The Age and Size of the Universe*, **89**, 6.

see Reviews, **89**, 272.

Van Leeuwen, J., *Data Acquisition at the RAO: Light Curves from the Optical and Infrared Telescopes*, E. F. Milone, T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J. E. Penfold, K. G. Robinson, A. R. Taylor & J. Van Leeuwen, **83**, 317.

Vander Byl, Leo, *The Royal Astronomical Society of Canada Victoria Centre Presents Travelling Observatory Project*, NN, **74**, 90.

Vanderberg, Richard D., *A Saskatchewan Name in the Skies*, B, **1**, 4, 8.

Vaneldik, J. F., *An Interference-Excising Correlator for Radio Astronomy*, B. L. Kasper, F. S. Chute, D. Routledge & J. F. Vaneldik, **72**, 310.

Vanstone, Kirsten, see Reviews, **90**, 109.

Veltman, Kim H., see Reviews, **80**, 118.

Veverka, Joseph., *The Nonuniform Recession of the South Polar Cap of Mars*, J. Veverka & J. Goguen, **67**, 273.  
see Reviews, **71**, 211.  
see Reviews, **71**, 419.  
*The Habitable Sun: One of William Herschel's Stranger Ideas*, Steven Kawaler & J. Veverka, **75**, 46.  
see Reviews, **76**, 405.  
*Exploring Our Solar System: The Voyager Adventure*, **84**, 334.

Vonesh, Sue, *London Centre Report*, B, **6**, 2, 10.

## W

Wagner, Richard, *A Research Proposal*, B, **2**, 3, 1.  
*National Council Report*, B, **5**, 5, 3.

Walborn, Nolan R., *Morphological Properties of Some Bright Southern Galaxies*, R. F. Garrison & N. R. Walborn, **68**, 117.  
see Reviews, **78**, 53.

Waldron, Ronald M., *Progress at Saskatoon Centre*, NN, **67**, 12.  
*Impressions of a Planetarium Intern*, NN, **76**, 10.  
*Astronomy Education in Saskatoon Schools*, **80**, 110.  
*A Comet Halley Educational Experience*, NN, **80**, 58.

Walker, G. A. H., *Studies of the Interstellar Medium at the Dominion Astrophysical Observatory*, **62**, 361.  
*The Meeting of the National Research Council Associate Committee on Astronomy at Victoria, May 13-15, 1971*, **65**, 169.  
*Founding Meeting of the Canadian Astronomical Society, La Societe Astronomique du Canada, at Victoria, May 15, 1971*, **65**, 170.  
*The Meeting of the National Research Council Associate Committee on Astronomy at Toronto, November 11-13, 1971*, **66**, 63.  
*The Meeting of the National Research Council Associate Committee on Astronomy*, **66**, 213.  
*Spectrophotometry with Television-Type Detectors*, **71**, 139.

Wallerstein, George, *Are Long-Period Variables Really Pulsating?*, **71**, 298.

Walsh, Ron, *The First Celestial Navigators*, NN, **79**, 47.

Walton, Lori, *International Astronomical Youth Camps*, NN, **73**, 19.

Wang, D. Y., *A Note on Anomalous Sounds from Meteor Fireballs and Aurorae*, D. Y. Wang, T. F. Tuan & S. M. Silverman, **78**, 145.

Waters, Bruce, *Perseids 1981*, NN, **75**, 73.

Watkins, Susan, *Observations of 1.4 GHz Continuum Emission from Jupiter During Its Collision With Comet Shoemaker-Levy 9*, John Galt & Susan Watkins, **89**, 135.

Watson, Michael S. F., *Gerhana Matahari 1983*, NN, **77**, 77.  
*The 1984 Toronto Centre Solar Eclipse Expedition*, NN, **78**, 7.  
*A Dazzling Diamond Necklace*, NN, **78**, 50.  
*Observing Comet Halley from the South*, **79**, 215.  
*Comet Halley for Canadians*, NN, **79**, 67.  
*Comet Halley Time Capsule*, NN, **81**, 27.  
*The 1991 RASC Solar Eclipse Expedition*, NNB, **83**, 22.  
*Seven Months and Counting: The RASC 1991 Solar Eclipse Expedition*, NNB, **84**, 82.  
*Venus Comes Close — March 1993*, B, **3**, 3, 4.  
*Sexism in the RASC?*, B, **3**, 4, 3.  
*Membership Survey Results I — The Journal*, B, **3**, 5, 1.  
*Simultaneous Lunar Occultations of Two Planets*, **88**, 213.  
*Simultaneous Lunar Occultations of Two Planets*, **88**, 405.  
*Photographing the May 10<sup>th</sup> Solar Eclipse*, B, **4**, 2, 3.

Watt, Vicki, *Nova Delphini 1967*, Thomas Barnes, Sidney van den Bergh, Gretchen Hagen, Peter Jackson, René Racine, Nancy Ramage & Vicki Watt, **61**, 339.

Webb, E. L. R., *An Easter Program for the HP 29C*, **74**, 17.

Wehlau, Amelia, *University of Western Ontario*, **69**, 146.  
*University of Western Ontario*, **70**, 144.  
see Reviews, **72**, 237.  
see Reviews, **77**, 342.  
see Reviews, **83**, 263.  
see Reviews, **83**, 263.

Wehlau, William H., see Reviews, **61**, 44.  
*New University of Western Ontario Observatory Opened*, **63**, 318.  
*New Observatory of the University of Western Ontario*, **64**, 1.  
*The Line Profiles of an Oblique Rotator*, A. E. Falk & W. H. Wehlau, **66**, 218.  
*University of Western Ontario*, **73**, 40.  
*Observing at the Special Observatory*, NN, **80**, 40.  
*Another Look at the Delta Scuti Star FM Comae*, Jeff Bax, William H. Wehlau & Steve Sharpe, **89**, 245.

Weichert, D. H., *The Daylight Fireball of January 20, 1988*, G. C. L. Aikman, P. F. Younger & D. H. Weichert, **83**, 232.

Weiser, S., *Centennial Planetarium*, **64**, 63.

Weitzenhoffer, Kenneth, *Astronomical Serendipity*, NN, **65**, 24.

Welch, Dorothy M. K., *Orbital Motion on an Interactive-Graphics Terminal*, Dorothy M. K. Welch & Gary A. Welch, **74**, 23.

Welch, Douglas L., *An Inexpensive Photometer for Amateur Astronomy*, R. Dick, A. Fraser, F. Lossing & D. Welch, **72**, 40.  
*Comet Meier 1978f — Another Ottawa First*, NN, **72**, 31.  
*A Close Encounter of the First Kind ... To a Non-Observer*, NN, **72**, 35.  
*Photoelectric Reduction for the Amateur Astronomer*, **73**, 370.

- Photometric Observations of RS Canum Venaticorum Stars*, John R. Percy & Douglas L. Welch, **76**, 185.  
 see Reviews, **76**, 404.  
 see Reviews, **78**, 139.  
 see Reviews, **78**, 140.
- Douglas L. Welch & Clifford Cunninham, see Reviews, **78**, 141.
- Dial "M" for MMT*, NN, **78**, 60.  
 see Reviews, **82**, 216.  
 see Reviews, **84**, 289.
- Welch, Gary A., see Reviews, **73**, 159.
- Orbital Motion on an Interactive-Graphics Terminal*, Dorothy M. K. Welch & Gary A. Welch, **74**, 23.  
 see Reviews, **82**, 366.
- Weller, W. G., *Polaroid Film in Undergraduate Astronomical Photography*, K. A. Innanen, C. R. Purton, R. Berry & W. G., Weller, **66**, 157.
- A Teaching Astronomical Spectrograph*, K. A. Innanen & W. G. Weller, **66**, 189.
- Conic Sections*, NN, **69**, 64.
- Wellman, Wade, *Wishful Thinking*, **63**, 47.
- Wells, Bryan, *The Venus Table of the Dresden Codex and the Movements of the Planet Venus*, **85**, 291.
- Welsh, Doug, *Minor Planet Observing*, NN, **70**, 12.
- Welsh, H. L., *Gerhard Herzberg — Nobel Laureate, 1971*, **66**, 183.
- Werner-King, Jannen, *Found Poem*, B, **4**, 5, 8.
- Wesemael, F., *Sirius B: Une Naine Blanche Encore Meconnue*, F. Wesemael & G. Fontaine, **76**, 35.
- Wesolowski, Mike, *Flash Spectrum Experiment*, NN, **73**, 40.
- R Ursae Majoris*, Rick Huziak & Mike Wesolowski, NN, **74**, 43.
- The Cepheid Variable X Cygni*, NN, **74**, 72.
- Reflections on Coring a 16-Inch Mirror*, NN, **77**, 45.
- Some Observations on Observing Eclipses*, NN, **78**, 68.
- Wesson, Paul S., *Astrophysical and Biological Constraints on Radiopanspermia*, Jeff Secker, Paul S. Wesson & James R. Lepock, **90**, 184.
- West, M., *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.
- Westcott, Guy, *Sun Spot*, NN, **74**, 32.
- MASCON '85 A Success*, NN, **80**, 12.
- Whitehorne, Mary Lou, see Reviews, **82**, 44.
- Nova East '88*, NN, **82**, 91.  
 see Reviews, **83**, 261.
- Gamma Cassiopeiae and Be Stars*, **83**, 277.
- Off the Deep End: Two Amateurs Try the Real Thing*, Mary Lou Whitehorne & Chris Brown, B, **1**, 2, 4.
- Spectroscopic Observations of the Binary Be Star Phi Persei*, **86**, 178.
- Interpretation of Wolf-Rayet Stars: C. S. Beals' Contribution*, Randall C. Brooks & Mary Lou Whitehorne, **86**, 228.
- Nova Scotia: There's So Much to Sea!*, B, **2**, 6, 3.
- Where Are the Women?*, B, **3**, 3, 1.
- Gracias, Merci, Danke, Schon, and Thanks!*, B, **3**, 4, 4.
- Another Step Towards a New Planetarium in Nova Scotia*, B, **3**, 4, 11.
- The Speech That Never Was*, B, **3**, 5, 8.
- The Woman Responds*, B, **3**, 6, 10.  
 see Reviews, **88**, 187.
- Geography with an Astronomical Slant in Nova Scotia High Schools*, **88**, 277.  
 see Reviews, **88**, 419.
- An Amateur at the IAU General Assembly*, B, **4**, 5, 1.
- A Stellar Wind Breezes Into Nova Scotia Schools*, B, **4**, 6, 5.
- Spaced Out in Nova Scotia!*, B, **5**, 1, 4.
- New Space Science Resource for Canada*, B, **5**, 4, 4.
- Whitehouse, Steve, *Nebula Will Not Be Mugged*, B, **4**, 1, 2.
- Whitman, Alan, *How I Saw a Grazing Occultation From My Backyard (Despite Doing Everything Wrong)*, NN, **74**, 37.
- The Dark Rings of Saturn*, NN, **74**, 93.
- Whyte, Anthony, *Sol III*, NN, **70**, 11.
- Wiest, Chip, *The 1979 February 26 Solar Eclipse on Short Wave*, Ken Tapping & Chip Wiest, NN, **74**, 40.
- Wiggins, Patrick, *Old Observer's Handbooks Wanted*, NNB, **83**, 32.
- Williams, Tom, *A Letter to the Editor*, NN, **78**, 64.
- Willick, J. A., *Cosmic Velocity Flows*, S. M. Faber, S. Courteau, A. Dekel, A. Dressler, T. Kollatt, J. A. Willick & A. Yahil, **88**, 92.
- Willson, Lee Anne, , see Reviews, **80**, 353.
- Wilson, W. J. F., *Distribution of O to B9 Stars and Dust in a Region in Puppis ( $\ell = 245^\circ$ ,  $b = -0.2^\circ$ )*, W. J. F. Wilson & M. Pim FitzGerald, **66**, 254.
- Winzer, Jack, *Astronomy Downdate*, NN, **69**, 41.
- Preliminary Report on the University of Alberta's 20-inch Reflector*, NN, **69**, 42.
- Cassegrain Telescope Systems*, NN, **70**, 24.
- Catadioptric Telescope Systems*, NN, **70**, 67.
- Catadioptric Telescope Systems — II*, NN, **70**, 77.
- Catadioptric Telescope Systems III*, NN, **71**, 29.
- Astronomy Downdate*, NN, **71**, 66.
- Winzer, John E., *A Radio Photograph of the Cygnus-X Region*, J. E. Winzer & J. A. Roberts, **65**, 100.
- UBV Observations of Supernova 1970g in NGC 5457*, **68**, 36.
- Wisse, P. N. J., *Hertzsprung's Luminosity-Colour Relation for Visual Binaries*, W. S. Finsen & P. N. J. Wisse, **67**, 58.
- Wong, Samuel S. M., see Reviews, **76**, 400.  
 see Reviews, **88**, 152.
- Wonnacott, Earl, *Astronomy at the University of Prince Edward Island*, **77**, 148.
- Wood, M. A., *White Dwarf Stars and the Age of the Galactic Disk*, **84**, 150.
- Wood, Robert J., *Motion Picture Photography Through the Telescope*, **65**, 239.
- Woodcock, Garry, *Hamilton Centre Report*, B, **4**, 2, 10.
- Woodsworth, Andrew, *Radio Flare on Beta Persei*, V. A. Hughes & A. Woodsworth, **66**, 220.  
 see Reviews, **84**, 369.
- Woodward, LeRoy A., *Graphical Method of Finding the Azimuth of Sunrise and Sunset*, NN, **70**, 7.



Woolsey, E. G., see Reviews, **61**, 99.  
 Wright, Darnley C., see Reviews, **78**, 268.  
 see Reviews, **79**, 189.  
 Wright, J. F., *The Calgary Centennial Planetarium*, W. H. Stilwell & J. F. Wright, **62**, 75.  
 Wright, K. O., *Astronomy in Canada*, **61**, 211.  
*Fifty Years at the Dominion Astrophysical Observatory*, **62**, 269.  
*The Queen Elizabeth II Telescope*, G. J. Odgers & K. O. Wright, **62**, 392.  
*The Coordinated Program for Observing the Zeta Aurigae Stars, 1971-72*, **66**, 289.  
*A Major Optical Telescope for Canada*, **66**, 317.  
*Dominion Astrophysical Observatory*, **67**, 267.  
*Progress on the CFHT 3.6 m Mirror at the DAO*, **69**, 46.  
 see Reviews, **69**, 99.  
*The Dominion Astrophysical Observatory 1918-1975*, **69**, 205.  
*Current Trends in Astronomical Spectroscopy*, **69**, 265.  
*The System of VV Cephei Derived from an Analysis of the H $\alpha$  Line*, **71**, 152.  
*Joseph A. Pearce, 1893-1988*, **83**, 3.  
 Wright, Ronald, *A Peruvian Amateur's Dilemma*, NNB, **83**, 39.  
 Wyght, J. R., *Activities at the Centre: Kingston*, NN, **67**, 20.  
 Wynes, Mary C., "A Glimpse Down the Road to Heaven", NN, **66**, 30.

## Y

Yahil, A., *Cosmic Velocity Flows*, S. M. Faber, S. Courteau, A. Dekel, A. Dressler, T. Kollatt, J. A. Willick & A. Yahil, **88**, 92.  
 Yee, Andrew, *Collecting Stamps on Comet Halley*, NN, **80**, 29.  
 Yee, H. K. C., *Mapping Moderate Redshift Clusters*, R. G. Carlberg, H. K. C. Yee, Erica Ellingson, C. J. Pritchett, Roberto Abraham, Tammy Smecker-Hane, J. R. Bond, H. M. P. Couchman, D. Crabtree, D. Crampton, Tim Davidge, D. Durand, S. Eales, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, N. Kaiser, C. Mendes de Oliveira, S. T. Myers, J. B. Oke, M. A. Rigler, D. Schade & M. West, **88**, 39.  
 Yeo, Susan F., *Calgary Centre Report*, B, **5**, 2, 5.  
*Calgary Centre Report*, B, **6**, 2, 5.  
 Yeomans, Donald K., *The History of Comet Halley*, Donald

K. Yeomans, Jürgen Rahe & Ruth S. Freitag, **80**, 62.  
 Yi, Wang, *North-South Asymmetry of Sunspot Distribution*, **86**, 89.  
 Young, Melina, *Young Scientists Win Awards*, NN, **80**, 62.  
 Young, Scott, *Astronomy and the Four R's*, B, **2**, 1, 1.  
 Younger, F., *Observing Conditions on Mount Kobau*, E. Brosterhus, E. Pfannenschmidt & F. Younger, **66**, 1.  
 Younger, P. F., *The Daylight Fireball of January 20, 1988*, G. C. L. Aikman, P. F. Younger & D. H. Weichert, **83**, 232.  
 Yuchesyn, Joe, *Aurorae and the Power System*, B, **1**, 6, 1.  
*Of Field Lines, Electrons and Reading*, B, **2**, 3, 2.  
*Meeting Highlights*, B, **3**, 4, 6.  
*Meeting Highlights*, B, **3**, 6, 3.

## Z

Zalcik, Mark, *Giacobinids 1985*, Peter Brown & Mark Zalcik, NN, **79**, 70.  
*Giacobinids Disappoint Canadian Observers*, Peter Brown & Mark Zalcik, NN, **80**, 21.  
*Searching for Early Perseids*, Peter Brown & Mark Zalcik, NN, **80**, 46.  
*Showers From Halley*, Peter Brown & Mark Zalcik, NN, **80**, 77.  
*Perseid Shower 1986*, Peter Brown & Mark Zalcik, NN, **80**, 91.  
*Eyewitness Report: Spica Snuffed for 53 Minutes*, NN, **81**, 48.  
*This Cloud's For You*, NN, **82**, 51.  
*Noctilucent Clouds: We're Watching Them Again*, NNB, **83**, 12.  
*Noctilucent Clouds in Edmonton Skies*, NNB, **84**, 16.  
*Recent Field Research on Potential Meteorite Falls from the Meteorite Observing and Recovery Project*, Peter Brown & Mark Zalcik, **86**, 130.  
 Zeffiro, Angelo, *A High School Planetarium*, John Mrmak & Angelo Zeffiro, NN, **80**, 85.  
 Zentz, Gregory L., *Humour Wanted!*, B, **1**, 1, 2.  
 Zimmerman, Linda, *The Spectrum of the Solar Disk*, R. F. Garrison & Linda Zimmerman, **77**, 78.  
 Zinn, Robert, *The Globular Clusters of the Disk and Halo*, **84**, 89.  
 Zukauskas, Walter P., *The Galactic Cluster Byurakan 2*, David L. DuPuy & Walter Zukauskas, **70**, 169.

# ABSTRACTS OF PAPERS PRESENTED AT ANNUAL MEETINGS OF THE NATIONAL COMMITTEE FOR CANADA OF THE IAU (1967– 1970) AND CANADIAN ASTRONOMICAL SOCIETY (1971–1996)

## 1967 Meeting at the University of Toronto, Toronto, Ontario

- Anand, S. P. S., *Comments on Fission Theory of Binary Stars*, **62**, 71.  
Bakos, G., *Age-Luminosity Relation for Giants of Visual Binaries*, **62**, 68.  
Batten, A. H., *The Frequency of Multiple Systems Among Visual and Spectroscopic Binaries*, **62**, 68.  
Ferne, J. D., *The Enigma of Delta Cephei*, **62**, 68.  
Hallgren, E. L., *Ages of Intermediate-Age Galactic Clusters*, **62**, 69.  
Heard, J. F., *The Eclipsing System SZ Piscium*, J. F. Heard, G. Bakos, **62**, 67.  
Hogg, Helen S., *Results of the Canadian Program on Variables in Globular Clusters*, **62**, 70.  
Huang, Su-Shu, *The Role of Angular Momentum in Stellar Astronomy*, **62**, 66.  
Peraiah, A., *Apsidal Motion in Close Binaries*, **62**, 69.  
Roeder, R. C., *Ages of Star Clusters*, **62**, 70.  
van den Bergh, Sidney, *Globular Clusters and the Evolution of the Galaxy*, **62**, 69.  
Wright, K. O., *The Zeta Aurigae Stars*, **62**, 67.  
Wright, K. O., *The Queen Elizabeth II Telescope*, **62**, 71.

## 1967 Meeting at the University of Waterloo, Waterloo, Ontario

- Andrew, B. H., *Observations of Variable Radio Sources at Centimetre Wave-Lengths*, B. H. Andrew, J. L. Lake & W. J. Medd, **62**, 195.  
Bakos, G. A., *New Variable Stars in Galactic Clusters*, G. A. Bakos & S. Kim, **62**, 193.  
Batten, A. H., *An Observational Upper Limit to Stellar Masses*, **62**, 192.  
Bridle, A. H., *The Spectral Indices of Radio Sources at Low Frequencies*, **62**, 193.  
Covington, Arthur E., *Some Aspects of Solar Radio Astronomy*, **62**, 190.  
Crooker, A. M., *Some Modern Automated Comparators*, **62**, 193.  
Dubas, Orest V., *The Mass-Radius Relation for Rapidly-Rotating White Dwarfs*, Orest V. Dubas & S. P. S. Anand, **62**, 194.  
Ferne, J. D., *Remarks Concerning HD 209813*, J. D. Ferne, Joan O. Hube & John L. Schmitt, **62**, 195.  
FitzGerald, M. Pim, *The Intrinsic Colours of Stars*, **62**, 193.  
Gorza, Walter, *Radial Velocity Determinations with a Grating Spectrograph at 12 A/mm*, Walter Gorza, John F. Heard & Joan Hube, **62**, 191.  
Gower, A. C., *Computing for Supersynthesis*, **62**, 195.  
Gower, J. F. R., *Radio Source Statistics*, **62**, 194.  
Hughes, V. A., *Small-Diameter Sources in the Galactic Plane*, **62**, 192.  
Innanen, K. A., *On an Iterative Procedure for Evaluating Z-Velocity Dispersions from a Galactic Mass Model*, K. A. Innanen & D. I. Kellet, **62**, 193.  
Legg, T. H., *Observations of Intense Sources with a 1.5 Min of Arc Fan Beam*, T. H. Legg & M. B. Bell, **62**, 191.  
Locke, J. L., *Observations of the Pulsating Radio Source CP 1919*, J. L. Locke, R. W. Clarke & J. L. Yen, **62**, 196.  
MacLeod, J. M., *The Radio Source VRO 42.22.01*, J. M. MacLeod & B. H. Andrew, **62**, 191.  
McNarry, L. R., *Polarization of Solar Radio Events*, L. R. McNarry & G. A. Harvey, **62**, 194.  
Nicholls, R. W., *Oscillator Strength Measurements on Bands of Astrophysically Important Molecules*, **62**, 191.  
Percy, John R., *Models for Beta Cephei Stars*, **62**, 194.  
Purton, C. R., *Detection of Radio Emission from Scorpio X-1*, C. R. Purton & B. H. Andrew, **62**, 192.  
Rice, J. B., *The Period of the Ap Star HD 173650*, **62**, 191.  
Richardson, E. H., *Recent Spectrographic Installations at the Dominion Astrophysical Observatory*, E. H. Richardson & K. O. Wright, **62**, 189.  
Roeder, R. C., *Comments on the Space Distribution of Quasi-Stellar Radio Sources*, **62**, 193.  
Shuter, W. L. H., *A New 21-cm Line Survey*, **62**, 195.  
Walker, G. A. H., *H $\gamma$  Observations for Stars in Eight Associations*, **62**, 196.  
Wehlau, W. H., *The University of Western Ontario 48-Inch Telescope*, **62**, 195.  
Yen, J. L., *Long Baseline Interferometer Observations of Quasars by the Canadian Long Baseline Group*, **62**, 194.

## 1968 Meeting at the National Research Council, Ottawa, Ontario

- Bajcar, R., *The Ba II Line in Late-Type Stars*, R. Bajcar & G. A. Bakos, **63**, 96.  
Clarke, R. W., *Recent Long Baseline Interferometer Observations*, Canadian Long Baseline Interferometer Group, **63**, 95.  
Gaizauskas, V., *Estimation of Solar Seeing by Means of Time Lapse Photography of Solar Granulation*, **63**, 95.  
Galt, J. A., *Intensity Variations in Pulsars*, J. A. Galt & A. C. Gower, **63**, 96.

- Halliday, Ian, *Ultraviolet Meteor Spectra*, **63**, 96.  
 Hartz, T. R., *Radio Astronomical Observations from the Alouette II Satellite*, **63**, 94.  
 Higgs, L. A., *Compton Scattering and Astronomical Redshifts*, **63**, 94.  
 Hughes, V. A., *Radio Observations of Proto-Stars*, **63**, 97.  
 McNarry, L. R., *An Experiment to Observe Linear Polarization of Solar Radio Bursts*, L. R. McNarry & G. A. Harvey, **63**, 96.  
 Roeder, R. C., *The Absorption Spectra of Quasi-Stellar Objects*, **63**, 94.  
 Rottenberg, John A., *Orbital Dynamics in a Gravitational Field — II*, **63**, 97.  
 Seaquist, E. R., *The Radio Spurs as a Single Helical Feature*, **63**, 97.  
 Shuter, W., *A Search for Galactic  $H_2^+$* , **63**, 94.  
 van den Bergh, S., *Recent 200-Inch Observations of the Globular Clusters in the Andromeda Nebula*, **63**, 95.  
 Walker, G. A. H., *UBV Photometry of the Association Anon b4 in the Large Magellanic Cloud*, G. A. H. Walker & S. C. Morris, **63**, 95.  
 Westerhout, G., *Some Recent Advances in Galactic Radio Astronomy*, **63**, 93.  
 Wilson, B. G., *The Diffuse Cosmic X-Radiation*, **63**, 96.  
 Wright, K. O., *Observation of the  $H\alpha$  Line in the Spectrum of VV Cephei*, K. O. Wright & S. J. Larsen, **63**, 94.

### 1969 Meeting at the University of British Columbia, Vancouver, British Columbia

- Ahlborn, B., *Radiation Induced Shocks in the Laboratory and at the Edge of H II Regions*, B. Ahlborn, W. W. Zuzak & R. Ardila, **63**, 211.  
 Andrew, B. H., *VRO 42.22.01: A Rapidly Varying Radio Source*, B. H. Andrew, J. M. MacLeod, J. L. Locke & W. J. Medd, **63**, 212.  
 Auman, J. R., *Magnetic Fields in G and K Giants*, **63**, 212.  
 Bajcar, R., *Technetium in Late-Type Stars*, **63**, 211.  
 Barnard, A. J., *Calculated Profiles of He I 4471 and Its Forbidden Component*, **63**, 210.  
 Basu, D., *Relative Positions of Sources on the Solar Disk at 408 MHz and 2800 MHz*, **63**, 210.  
 Batten, A. H., *Preliminary Report of High-Dispersion Spectrograms of U Cephei*, **63**, 212.  
 Bell, M., *A Possible Relation Between Source Position and Optical Magnitude for Sources with Large Redshifts*, **63**, 213.  
 Brosterhus, E. B., *Seeing on Mount Kobau*, **63**, 214.  
 Fernie, J. D., *A Method for Determining the Intrinsic Colours of Cepheids from the Amplitudes of Their Light-Curves*, **63**, 211.  
 Garrison, R. F., *The Remarkable Star Theta Carinae*, **63**, 214.  
 Harrington, J., *Recent Spectroscopic Studies of VO Band Systems*, J. Harrington & R. W. Nicholls, **63**, 208.  
 Heard, J. F., *The Spectrographic Orbit of RW Monocerotis*, J. F. Heard & J. Newton, **63**, 208.  
 Henriksen, R. N., *Self-Similar Hydromagnetic Shear Flow with Astrophysical Applications*, **63**, 213.  
 Hughes, V. A., *Variation of Excitation Temperature with Optical Depth of Galactic H I*, V. A. Hughes & D. Routledge, **63**, 212.  
 Kronberg, P. P., *Some Preliminary Results of a Survey of Discrete Source Polarization at 610 MHz*, **63**, 210.  
 Locke, J. L., *Three Radio Sources with Unusual Intensity Variations*, J. L. Locke, B. H. Andrew & W. J. Medd, **63**, 210.  
 McCutcheon, W., *Neutral Hydrogen in Galaxies*, **63**, 208.  
 Ovenden, M. W., *Selection Effects for Spectroscopic Binaries*, **63**, 209.  
 Plavec, M., *Mass-Exchange in Close Binary Systems*, **63**, 212.  
 Roeder, R. C., *The Absorption Spectra of QSO's II*, **63**, 210.  
 Shuter, W. L., *Spectral Line Studies from 0.4 to 2.0 GHz*, **63**, 211.  
 van den Bergh, Sidney, *The Metal Content of Stars in the Halo of the Andromeda Nebula*, **63**, 209.  
 Venugopal, V. R., *Departures from Circular Motion in the Solar Vicinity Determined From 21-cm Line Profiles*, **63**, 214.  
 Walker, G. A. H., *Extinction Anomalies and Interstellar Bands*, G. A. H. Walker, J. Hutchings & P. F. Younger, **63**, 213.  
 Wilson, B. G., *The Diffuse Cosmic X-Radiation Below 4 KeV*, **63**, 208.  
 Wright, K. O., *The Total Eclipse of 32 Cygni in 1962*, K. O. Wright & C. L. Morberg, **63**, 213.

### 1969 Meeting at the University of Western Ontario, London, Ontario

- Bajcar, Robert, *The Abundances of the Rare Earths in K-Type Supergiants*, **63**, 311.  
 Bakos, G. A., *Photoelectric Photometry of the Explorer 19 Satellite*, **63**, 310.  
 Batten, A. H., *The Measurements of Radial-Velocity Differences Between the Components of Close Visual Binary Systems*, A. H. Batten & J. M. Fletcher, **63**, 313.  
 Bell, Morley B., *Clusters of Quasi-Stellar Objects*, **63**, 312.  
 Broten, N. W., *Long Baseline Interferometer Observations at 408 and 448 MHz*, N. W. Broten, R. W. Clarke, T. H. Legg, J. L. Locke, J. A. Galt, J. L. Yen & R. M. Chisholm, **63**, 312.  
 Eby, T. W., *A Curve of Growth Analysis of Four Late-Type Stars*, **63**, 311.  
 FitzGerald, M. Pim, *Further Observations of the Peculiar Emission Object V1016 Cygni ( $mH_\alpha$  328-116)*, M. Pim FitzGerald & Nancy M. Houk, **63**, 312.  
 Gray, David F., *The Effect of Model Uncertainties in Spectral Analysis*, **63**, 311.  
 Innanen, K. A., *Further Results of Numerical Experiments with Orbits of Groups of Population II Stars in a Galactic Mass*

- Model, K. A. Innanen & F. House, **63**, 313.
- Linton, C., *Spectroscopic Observations in TiO Band Systems*, C. Linton & R. W. Nicholls, **63**, 309.
- McCutcheon, W. H., *High Velocity Clouds of Neutral Hydrogen*, **63**, 312.
- Percy, John R., *The High Temperature Boundary of the Delta Scuti Instability Region*, **63**, 310.
- Pinnington, E., *Radiative Lifetime Measurements for Oxygen Lines of Astrophysical Interest*, E. Pinnington, J. A. Kernahan & C. Lin, **63**, 310.
- Rice, J. B., *An Oblique Rotator Model for the Magnetic and Spectrum Variable HD 173650*, **63**, 311.
- Roeder, R. C., *QSO Colours and K-Corrections*, R. C. Roeder & R. H. Chambers, **63**, 312.
- Seaquist, E. R., *A Search for Circular Polarization of Compact Radio Sources at 9.26 cm*, **63**, 311.
- Shuter, W. L., *Separation of Hot and Cold Interstellar Neutral Hydrogen*, W. L. Shuter & V. R. Venugopal, **63**, 312.

### 1970 Meeting at Queen's University, Kingston, Ontario

- Aitken, G. J. M., *Optical Signal Processing for a Cross-Type Radio Astronomy Antenna*, G. J. M. Aitken, L. Wang & A. H. Bridle, **64**, 180.
- Anand, S. P. S., *Rapidly Rotating White Dwarfs Near Chandrasekhar's Limit*, **64**, 182.
- Andrew, B. H., *The Variability of 3C 120*, B. H. Andrew, W. J. Medd & J. L. Locke, **64**, 183.
- Andrew, B. H., *The Variable Radio Source VRO 42.22.01 (BL Lac)*, B. H. Andrew, J. MacLeod, J. L. Locke, W. J. Medd & C. R. Purton, **64**, 184.
- Avery, L., *The Formation of the Ca II K Line in a Spinning Spicule*, **64**, 181.
- Bell, M. B., *A Possible Relation Between the Linear Separation of Quasars with Two Components and the Frequency at Which a Break-Point Occurs in their Spectra*, **64**, 186.
- Bell, M. B., *Radio Luminosity Evolution and Selection Effects in Optical Identification*, **64**, 186.
- Bradford, H. M., *Low Frequency Type III Solar Radio Bursts*, H. M. Bradford & V. A. Hughes, **64**, 185.
- Bridle, A. H., *Spectra of Radio Sources in Rich Clusters of Galaxies*, A. H. Bridle & C. H. Costain, **64**, 184.
- Bridle, A. H., *A Catalog of Radio Sources at 1400 MHz*, A. H. Bridle, M. M. Davis & J. Lequeux, **64**, 185.
- Butler, R., *Galactic Radio Sources 4C51.12 and NRAO 588/589*, R. Butler & V. A. Hughes, **64**, 180.
- Chau, W. Y., *Alignment Problems in the Oblique Rotator Model for Pulsars*, W. Y. Chau, R. N. Henriksen & P. Srulovicz, **64**, 182.
- Henriksen, R. N., *Relativistic Magnetospheres*, R. N. Henriksen & D. R. Rayburn, **64**, 182.
- Hughes, V. A., *An Expanding Ring of Galactic HI With Centre Close to the Sun*, V. A. Hughes & D. Routledge, **64**, 180.
- Jeffers, S., *Observations with a Carnegie Image Intensifier*, **64**, 180.
- Kesteven, M. J. L., *Neutral Hydrogen Around the Compact Nebula K3-50*, M. J. L. Kesteven & A. H. Bridle, **64**, 179.
- Kronberg, P. P., *Measurements of the Integrated Linear Polarization of Discrete Radio Sources at 610 MHz*, P. P. Kronberg & R. G. Conway, **64**, 181.
- Kronberg, P. P., *Distributions of Linear Polarization in Radio Galaxies*, **64**, 185.
- Legg, T. H., *Redshift and the Size of Double Radio Sources*, **64**, 184.
- McCutcheon, W. H., *A Neutral Hydrogen Survey of the Cygnus X Region*, W. H. McCutcheon & W. L. H. Shuter, **64**, 179.
- Medd, W. J., *Absolute Flux Measurements at cm Wavelengths*, **64**, 185.
- Millman, P. M., *Meteoritic Flux Determined from Visual Observations*, **64**, 181.
- Nicholls, R. W., *The Culham-Imperial College-Harvard College Observatory-York University International Solar Flash Vacuum Ultra-Violet Spectrum Experiment on the March 1970 Solar Eclipse*, **64**, 181.
- Roeder, R. C., *The Selection of Cosmological Models Using QSO's*, **64**, 184.
- Smolinski, J., *A Study of Turbulence and Chemical Composition in F0-K4 High-Luminosity Stars*, **64**, 183.
- Sreenivasan, S. R., *Force-Free Fields and Beltrami-Flow in Astrophysics*, **64**, 179.
- van den Bergh, S., *Recent 200-Inch Observations of the Remnant of Cassiopeia A*, **64**, 179.
- Venugopal, V. R., *Magnetic and Cosmic Ray Pressures in the Galactic Disk*, V. R. Venugopal & W. L. H. Shuter, **64**, 178.
- Wright, K. O., *The Ultraviolet Spectrum of VV Cephei*, **64**, 182.

### 1970 Meeting at National Research Council, Ottawa, Ontario

- Aikman, G. C. L., *The Spectroscopic Binary Frequency of the Mercury-Manganese Stars*, **65**, 173.
- Aikman, G. C. L., *The Cyanogen Bands of Comet Bennett 1969i*, G. C. L. Aikman, W. J. Balfour & J. B. Tatum, **65**, 174.
- Auman, J. R., *An Attempt to Measure Weak Magnetic Fields for Some Bright Stars*, J. R. Auman, G. A. H. Walker, V. L. Buchholtz, B. A. Goldberg, A. C. Gower & B. C. Isherwood, **65**, 171.
- Batten, Alan H., *The Relative Frequency of Binary Stars in Population I and II*, **65**, 173.
- Bridle, A. H., *Number Counts of Discrete Radio Sources at 1400 MHz*, **65**, 177.
- Camm, D., *Faraday Rotation Measurements of Absorption Line Parameters*, D. Camm & F. L. Curzon, **65**, 181.
- Chute, F. S., *Site-Testing for a Proposed 12 MHz Radio Telescope in Alberta*, F. S. Chute, C. G. Englefield, P. J. R. Harding, C. R. James & D. Routledge, **65**, 179.
- Covington, A. E., *Calibrations for the Solar Patrol at Algonquin Radio Observatory and Dominion Radio Astrophysical Observatory*, **65**, 174.
- Crampton, D., *Distances to Stars in the Perseus Arm*, **65**, 175.

- Duley, W. W., *Laboratory Simulation of Absorption Bands in Type I Supernova Spectra*, W. W. Duley & W. R. M. Graham, **65**, 181.
- Fernie, J. D., *Photometry of R Coronae Borealis*, **65**, 172.
- Fox, K., *The Importance of Methane to Pressure-Induced Absorption in the Atmosphere of the Outer Planets*, K. Fox & I. Ozier, **65**, 182.
- Gower, J. F. R., *Observations of the Sporadic Bright Pulses from the Crab Nebula Pulsar*, **65**, 180.
- Hanes, D. A., *UBV Photometry of Globular Clusters in M87*, D. A. Hanes & R. Racine, **65**, 183.
- Heard, John F., *Selection of 9<sup>th</sup> Magnitude Stars to Serve as Radial-Velocity Standards*, **65**, 172.
- Henriksen, R. N., *Dissipative Processes in Neutron-Star Crusts and the Production of Black-Body X-Ray Sources*, R. N. Henriksen, P. A. Feldman & W. Y. Chau, **65**, 178.
- Hough, J. H., *Radio Signals from Cosmic Ray Air Showers*, J. H. Hough, R. W. Clay & J. R. Prescott, **65**, 178.
- House, F. C., *Numerical Investigations in Stellar Statistical Mechanics*, F. C. House & K. A. Innanen, **65**, 175.
- Hutchings, J. B., *The Be Component of VV Cephei*, J. B. Hutchings & K. O. Wright, **65**, 172.
- Jeffers, S., *Relative Detective Quantum Efficiency Measurements of Some Emulsions When Used With a New Developer for Astronomical Plates*, **65**, 176.
- Kestevan, M. J. L., *3C 391 — A Galactic Supernova Remnant with an Unusual Radio Spectrum*, M. J. L. Kestevan & A. H. Bridle, **65**, 177.
- Kronberg, P. P., *A Study of 3C 452 and 3C 270 (NGC 4261)*, **65**, 177.
- Legg, T. H., *Observations of Structure in Quasi-Stellar Radio Sources*, T. H. Legg, N. W. Broten, J. A. Galt, S. J. Goldstein & J. L. Locke, **65**, 176.
- Mahoney, M. J., *Studies of the 21-cm Line in Dense Dust Clouds*, M. J. Mahoney & W. L. Shuter, **65**, 175.
- McCutcheon, W. H., *Pulsar Pulse Amplitude Analysis*, W. H. McCutcheon & W. L. H. Shuter, **65**, 180.
- Nicholls, R. W., *Time-Resolved Rocket Observations on the Vacuum Ultra-Violet Solar Spectrum During the March 1970 Solar Eclipse*, R. W. Nicholls, F. J. Morgan & C. Y. Yang, **65**, 173.
- Nicholls, R. W., *Synthetic Spectral Methods and the Interpretation of Shock-Excited Molecular Spectra*, **65**, 181.
- Pinnington, Eric H., *Recent Improvements in the Beam-Foil Technique for Assigning Unidentified Atomic Spectrum Lines*, **65**, 181.
- Pryce, M. H. L., *Model Pulsar Envelopes*, M. H. L. Pryce & I. Easson, **65**, 180.
- Rice, J. B., *A Procedure for Observing the Solar Five Minute Oscillation in Two Dimensions*, J. B. Rice & V. Gaizauskas, **65**, 174.
- Richer, Harvey B., *Some Intrinsic Properties of Carbon Stars*, **65**, 182.
- Roger, R. S., *The New Supersynthesis Radiotelescope for HI Spectroscopy at the Dominion Radio Astrophysical Observatory*, R. S. Roger, C. H. Costain, J. D. Lacey & T. L. Landecker, **65**, 179.
- Seaquist, E. R., *PKS 1127-14, A Quasar with an Unusually Strong Magnetic Field?*, **65**, 176.
- Shuter, W. L. H., *Precision 4.57 m Antenna at the University of British Columbia for Millimetre Wavelength Astronomy*, **65**, 179.
- Strom, R. G., *Polarization of Radio Sources at  $\lambda = 73$  cm*, R. G. Strom, R. G. Conway & P. P. Kronberg, **65**, 183.
- van den Bergh, Sidney, *The Post-Eruptive Galaxy M82*, **65**, 176.
- Venkatesan, D., *Solar Planetary Relationships*, **65**, 174.
- Wilson, B. G., *Recent Developments in X-Ray Astronomy*, **65**, 178.
- Winnewisser, G., *Laboratory Studies of Interstellar Molecules at Microwave Frequencies*, **65**, 182.

### 1971 Meeting at the University of Toronto, Toronto, Ontario

- Aizenman, M. L., *Complex Roots in the Secular Spectrum of Stars*, **66**, 74.
- Andrew, B. H., *OJ 287: An Exceptionally Active Variable Source*, B. H. Andrew, G. A. Harvey & W. J. Medd, **66**, 65.
- Auman, J. R., *Line Profiles in the Seyfert Galaxy NGC 1068*, J. R. Auman, J. Eilek, T. J. Ulrych & G. A. H. Walker, **66**, 71.
- Beaudet, G., *URCA Neutrino Processes in Stellar Evolution*, G. Beaudet, E. E. Salpeter & M. L. Silvestro, **66**, 68.
- Borra, Ermanno F., *Coudé Polarimeter Measurements of Weak Magnetic Fields in Bright Stars*, Ermanno F. Borra & John D. Landstreet, **66**, 71.
- Chau, W. Y., *Accretion onto a Rapidly Rotating Magnetic White Dwarf as a Possible Model for Cen XR-3*, W. Y. Chau, R. N. Henriksen & P. A. Feldman, **66**, 74.
- Chia, T. T., *Enhanced Accretion onto a Rotating, Gravitating, Magnetic Star*, T. T. Chia & R. N. Henriksen, **66**, 67.
- Clement, M. J., *Circulation in Radiative Stellar Envelopes*, **66**, 67.
- Covington, Arthur E., *2700 MHz Observations and Comments for the Flare of October 24, 1969*, **66**, 74.
- Danylewych, L., *Intensity Measurements and Transition Probabilities for the C(2) Swan Band System*, L. Danylewych & R. W. Nicholls, **66**, 73.
- Doucet, C. D., *Radial Velocities of Selected Visual Binaries*, C. D. Doucet & G. A. Bakos, **66**, 72.
- Gaizauskas, V., *A New Solar Observatory on the Ottawa River*, **66**, 69.
- Gower, J. F. R., *Giant Impulses from NPO 532*, J. F. R. Gower & E. Argyle, **66**, 74.
- Gray, David F., *The Theoretical Behaviour of Na I 5890 in a Solar Type Star*, **66**, 70.
- Griffith, J. S., *Lunar Theory*, **66**, 68.

- Gulliver, A. F., *The Spectrum and Light Variations in the Peculiar A Star HD 51418*, A. F. Gulliver, D. A. MacRae, J. R. Percy & J. E. Winzer, **66**, 72.
- Hasson, V., *Oscillator Strength Measurements on the (0,0) Band of the NO Gamma System from Dispersion Measurements*, V. Hasson, A. J. D. Farmer & R. W. Nicholls, **66**, 74.
- Higgs, L. A., *A General Mapping Program for the ARO Radio Telescope*, **66**, 66.
- Hughes, V. A., *Radio Pulses from the Direction of the Galactic Centre*, V. A. Hughes & D. Retallack, **66**, 66.
- Innanen, K. A., *The Theory for a Galactic Halo Density Function*, K. A. Innanen & A. G. Ryman, **66**, 67.
- Kronberg, P. P., *The Polarization of Radio Sources with Appreciable Redshift*, P. P. Kronberg, R. G. Conway & J. A. Gilbert, **66**, 66.
- Liebovitz, C., *On the Detection of Black Holes*, C. Liebovitz & D. P. Hube, **66**, 73.
- MacLeod, J. M., *The Luminosity-Spectral Index Relationship for Radio Galaxies*, J. M. MacLeod & L. H. Doherty, **66**, 66.
- MacRae, Donald A., *Present Status of the Canadian 24-Inch Telescope on Las Campanas*, **66**, 69.
- Mausser, Ernest J., *Selected Model Stellar Atmospheres*, Ernest J. Mauusser & Robert J. Doyle, **66**, 73.
- Michaud, Georges, *The  $^{12}\text{C} + ^{13}\text{C}$  Thermonuclear Reaction Rates*, **66**, 68.
- Richardson, E. H., *A 7.6-Meter (300-Inch) Equivalent Optical Telescope Array*, E. H. Richardson & G. J. Odgers, **66**, 69.
- Sanyal, A., *He I Triplet Spectrum in the Nebular Stage of Nova Delphini 1967*, **66**, 74.
- Tassoul, Jean-Louis, *Nonlinear Condensations in Self-Gravitating Media*, Jean-Louis Tassoul & Gérard Pellieux, **66**, 67.
- Walborn, Nolan R., *Two-Dimensional Spectral Classification of O Stars*, **66**, 71.
- Wehlau, Amelia, *RR Lyrae Variables in NGC 5897*, Amelia Wehlau, Helen Sawyer Hogg & Nicholas Potts, **66**, 72.
- Wright, K. O., *Analysis of the H $\alpha$  Profile in Spectra of VV Cephei*, **66**, 70.

### 1972 Meeting at the Université de Montréal, Montreal, Québec

- Aizenman, M. L., *Secular Stability in the Presence of Perturbations of Chemical Composition I*, M. L. Aizenman & J. Perdang, **66**, 222.
- Baldwin, Barrow W., *Observations of Circumstellar Matter in the Eclipsing Binary U Cephei*, **66**, 218.
- Batten, A. H., *A Model for U Cephei*, **66**, 219.
- Beaudet, Gilles, *Nucleosynthesis and Stellar Evolution*, Gilles Beaudet & M. Tassoul, **66**, 221.
- Bolton, C. T., *Spectral Variations of Algol*, **66**, 219.
- Borra, E. F., *Photoelectric Measurements of Stellar Magnetic Fields*, E. F. Borra, J. D. Landstreet & A. H. Vaughn, Jr., **66**, 217.
- A Search for Density and Pressure Inversions in High-Temperature, Low-Gravity Model Atmospheres*, Ermanno F. Borra & Louis Fortier, **66**, 219.
- Covington, Arthur E., *Solar Radio Emission at 10.7 cm 1947-1972*, **66**, 221.
- Demers, Serge, *Photometric Investigation of the Dwarf Galaxy Fornax with G. A. L. A. X. Y.*, **66**, 217.
- Falk, A. E., *The Line Profiles of an Oblique Rotator*, A. E. Falk & W. H. Wehlau, **66**, 218.
- Faubert, C., *Cartes D'Intensité Totale du Quasar 3C 249.1 aux Fréquences 0695 MHz et 8085 MHz*, C. Faubert & P. P. Kronberg, **66**, 221.
- Garrison, R. F., *The Moderately Old Open Cluster, NGC 752*, **66**, 216.
- Gulliver, A. F., *Pleione: A New Shell Episode*, A. F. Gulliver & R. F. Garrison, **66**, 195.
- Hughes, V. A., *Radio Flare on Beta Persei*, V. A. Hughes & A. Woodsworth, **66**, 220.
- McCullough, J. D., *Optical and Chemical Studies on Simulated Interstellar Grain Materials*, J. D. McCullough, G. R. Floyd, B. H. Prince & W. W. Duley, **66**, 223.
- Michaud, Georges, *La Diffusion dans les Atmosphères D'Etoiles, ses Possibilités et ses Limites*, **66**, 217.
- Millman, Peter M., *Giacobinid Meteor Spectra*, **66**, 221.
- Mitalas, R., *X-Ray Flux from HR 465*, R. Mitalas & J. M. Marlborough, **66**, 217.
- Percy, John R., *A Photometric Study of the Peculiar A Star 21 Comae*, **66**, 218.
- Perdang, J., *Secular Stability in the Presence of Perturbations of Chemical Composition I*, J. Perdang & M. L. Aizenman, **66**, 222.
- Perdang, J., *Secular Stability in the Presence of Perturbations of Chemical Composition II*, J. Perdang & M. L. Aizenman, **66**, 222.
- Prince, R. H., *Optical and Chemical Studies on Simulated Interstellar Grain Materials*, J. D. McCullough, G. R. Floyd, R. H. Prince & W. W. Duley, **66**, 223.
- Richer, B. Harvey, *Search for Extremely Rapid Optical Fluctuations in Stars*, **66**, 223.
- Roy, J.-René, *The Magnetic Field Configuration of the Solar Corona after a Proton-Flare*, **66**, 220.
- Shinn, J. B., *The Band Spectra of Yttrium Oxide*, J. B. Shinn & R. W. Nicholls, **66**, 222.
- Shuter, W. L. H., *An Attempt to Study Solar Oscillations at 31.4 GHz*, W. L. H. Shuter & W. H. McCutcheon, **66**, 221.
- Szathmary, Kara, *Low Dispersion Spectroscopy of Lowell White Dwarf Suspects*, **66**, 219.
- Wilson, W. J. F., *Distribution of O to B9 Stars and Dust in a Region in Puppis ( $\ell = 245^\circ$ ,  $b = -0.2^\circ$ )*, W. J. F. Wilson & M. Pim FitzGerald, **66**, 217.

### 1973 Meeting at the University of Alberta, Edmonton, Alberta

- Andrew, R. H., *Simultaneous Optical and Radio Observations of Rapid Variable Sources*, R. H. Andrew, W. J. Medd, G. A. Harvey & J. M. MacLeod, **67**, 199.
- Barrette, Robert, *Narrow Band Photography of NGC 7027*, Robert Barrette & William Wehlau, **67**, 195.
- Bell, M. B., *A Quantitative Alternative to the Cosmological Hypothesis for Quasars*, M. B. Bell & D. N. Fort, **67**, 198.
- Bohannon, Bruce, *The Luminosity Function of the H $\alpha$  Emission-Line stars in the Large Magellanic Cloud*, **67**, 196.
- Borra, Ermanno F., *The Long-Term Behaviour of the Magnetic Field of  $\beta$  Coronae Borealis*, Ermanno F. Borra & Michael M. Dworetzky, **67**, 195.
- Bridle, A. H., *Galactic Rotation and the Origin of Double Radio Sources*, A. H. Bridle & G. W. Brandie, **67**, 193.
- Brotten, N. W., *Millisecond of Arc Interferometry of 3C 84*, N. W. Brotten, D. N. Fort, T. H. Legg, J. L. Yen, F. V. Bale, P. C. Barber & M. J. S. Quigley, **67**, 199.
- Campbell, B. T. E., *Line Identifications of Some Peculiar B Stars*, B. T. E. Campbell & R. F. Garrison, **67**, 195.
- Chau, W. Y., *Gravitational Radiation and Mass Exchange in a Close Binary System*, W. Y. Chau, T. T. Chia & R. N. Henriksen, **67**, 196.
- Clarke, T. A., *Possible Observation at Calgary of the Occultation of BD +2° 2913 by the Minor Planet 2 Pallas*, T. A. Clarke & E. F. Milone, **67**, 198.
- Feldman, P. A., *Radio Emission from Early-Type Emission-Line Stars with Strong Infrared Excesses*, P. A. Feldman, C. R. Purton & K. A. Marsh, **67**, 193.
- Fletcher, J. Murray, *Spectrographic Observations of the Visual Binary Burnham 1163 During Periastron Passage*, **67**, 194.
- Gregory, Philip C., *Four Giant Radio Outbursts from Cygnus X-3*, **67**, 199.
- Hughes, V. A., *Further Observations of Radio Stars*, V. A. Hughes, D. S. Retallack, M. R. Viner & A. Woodsworth, **67**, 199.
- Hurkens, Roel, *The Orbit of the Double-Line Spectroscopic Binary HD 82191*, Roel Hurkens & John F. Heard, **67**, 194.
- Innanen, K. A., *On the Galactic Scale and Local Density from the Birthplaces of the Stars*, K. A. Innanen, D. W. Keenan & D. P. Hube, **67**, 196.
- Leibovitz, C., *An Upper Limit to the Number of Invisible Stars in the Solar Neighbourhood*, C. Leibovitz & E. H. Pinnington, **67**, 198.
- McCamis, R. H., *Stellar Rates for the  $^{16}\text{O}(p, \alpha)^{13}\text{N}$  Reaction and Their Importance in Explosive Nucleosynthesis*, R. H. McCamis, G. A. Moss, J. M. Cameron & S. E. Woosley, **67**, 197.
- Millman, Peter M., *Current Knowledge of Elevation Profiles on Mars*, **67**, 197.
- Mitalas, R., *Destruction of  $^{14}\text{N}$  by  $^{14}\text{N}(\bar{\nu}, \nu)^{14}\text{C}(\alpha, \gamma)^{18}\text{O}$  In Degenerate Matter*, **67**, 197.
- Pinnington, E. H., *Laboratory Studies of Atomic Spectra of Astrophysical Importance*, E. H. Pinnington, J. A. Kernahan, A. E. Livingstone & D. J. G. Irwir, **67**, 197.
- Sahade, J., *The Emission Profile of H $\alpha$  in the Spectrum of  $\beta$  Lyrae*, J. Sahade & A. H. Batten, **67**, 193.

### 1974 Meeting at Memorial University, St. John's, Newfoundland

- Ahern, F. J., *Photoelectric Spectrophotometry of Possible Embryonic Planetary Nebulae*, **68**, 267.
- Angel, J. R. P., *The Magnetic Fields of Two White Dwarfs*, J. R. P. Angel & J. D. Landstreet, **68**, 262.
- Avery, L. W., *A Search for Microwave Emission at 1.35 and 2.8 cm from Comet Kohoutek*, L. W. Avery & B. H. Andrew, **68**, 267.
- Beals, C. S., *On the Significance of a Hitherto Neglected Class of Lava-Covered Areas on the Surface of the Moon*, C. S. Beals & R. W. Tanner, **68**, 261.
- Beaudet, G., *Disparate Models for Solar Neutrinos*, G. Beaudet & Giora Shaviv, **68**, 260.
- Blackwell, A. T., *The Meteorite Observation and Recovery Project*, A. T. Blackwell, A. A. Griffin & I. Halliday, **68**, 261.
- Bolton, C. T., *The Spectroscopic Triple Star Xi Tauri*, C. T. Bolton & Roel Hurkens, **68**, 262.
- Bradford, H. M., *Landau Damping of Type III Solar Radio Bursts*, **68**, 265.
- Chau, W. Y., *Red Giants and Malignant White Dwarfs*, W. Y. Chau, R. N. Henriksen & M. E. Alexander, **68**, 260.
- Doherty, L. H., *Detection of the 10.464 GHz Transition of Interstellar Thioformaldehyde*, L. H. Doherty, J. M. MacLeod & T. Oka, **68**, 265.
- Feldman, P. A., *Using Emission Lines to Find the Optical Counterparts of Compact Galactic X-Ray Sources*, P. A. Feldman, S. Jeffers & W. Weller, **68**, 267.
- Fontaine, G., *Spectra and Evolution of White Dwarfs*, **68**, 263.
- Garrison, R. F., *Some Characteristics of the Young Open Cluster Trumpler 37*, R. F. Garrison & J. Kormendy, **68**, 263.
- Hall, T. H.,  *$^{58}\text{Ni}(p, \alpha)^{59}\text{Cu}$  Total Cross Section Measurements*, T. H. Hall, J. M. Cameron, R. H. McCamis & G. A. Moss, **68**, 263.
- Harris, W., *The Exceptionally Distant Globular Cluster NGC 2419*, W. Harris & R. Racine, **68**, 263.
- Hawkes, R. L., *Physical Theory of Dustball Meteors*, R. L. Hawkes & J. Jones, **68**, 261.
- Henriksen, R. N., *Pulsar Magnetospheres*, R. N. Henriksen & J. A. Newton, **68**, 264.
- Hughes, V. A., *W3(OH)*, V. A. Hughes & M. R. Viner, **68**, 266.
- Legg, T. H., *Time Variations in the 2.8 cm Visibility of 3C 84*, T. H. Legg, D. N. Fort, N. W. Brotten, J. L. Yen, P. C. Barber & M. J. S. Quigley, **68**, 266.
- Lowe, R. P., *Fourier Spectroscopy in the Near Infrared of the Orion Nebula*, R. P. Lowe, J. H. Moorhead & W. H. Wehlau, **68**,

262.

- MacLeod, J. M., *An 85 $\alpha$  Recombination Line Survey of W12 (NGC 2024)*, J. M. MacLeod, L. H. Doherty & L. A. Higgs, **68**, 266.
- Mak, H.-B., *Cross Sections of the  $^{21}\text{Ne}(\alpha, n)^{24}\text{Mg}$  and  $^{22}\text{Ne}(\alpha, n)^{25}\text{Mg}$  Reactions at Low Energies*, H.-B. Mak, D. Ashery & C. A. Barnes, **68**, 263.
- Marsh, K. A., *Radio Characteristics of Emission-Line Stars with Infrared Excesses*, K. A. Marsh, P. A. Feldman & C. R. Purton, **68**, 265.
- McCutcheon, W. H., *Spectral Line Searches and Observations with the U. B. C. Millimetre Wave Telescope*, W. H. McCutcheon & W. L. H. Shuter, **68**, 265.
- Mitalas, M., *On the Construction of Theoretical Colour-Magnitude Diagrams*, **68**, 261.
- Sreenivasan, S. R., *Evolution of a 15 Solar Mass Star with Mass Loss*, S. R. Sreenivasan & W. J. F. Wilson, **68**, 260.
- The Post Main Sequence Evolution of a Star of 20  $M_{\odot}$  to Core Helium Exhaustion*, S. R. Sreenivasan & K. E. Ziebarth, **68**, 267.
- Terzian, Y., *Observations of the H85 $\alpha$  Line from Planetary Nebulae*, Y. Terzian, L. A. Higgs, J. M. MacLeod & L. H. Doherty, **68**, 266.
- Varshni, Y. P., *Emission Line  $\lambda 4686$  in the Quasi-Stellar Objects*, Y. P. Varshni & C. S. Lam, **68**, 264. *The Magnificent Mirage of Redshifts in Quasi-Stellar Objects*, **68**, 264.
- Watson, J. W., *Proton Spallation of  $^{28}\text{Si}$* , J. W. Watson, J. L. Horton, M. J. Canty, S. A. Elbakt, C. A. Miller & M. S. Dejong, **68**, 264.
- Wright, K. O., *Recent Observations of VV Cephei*, **68**, 262.

### 1974 Meeting at the University of Manitoba, Winnipeg, Manitoba

- Batten, A. H., *An Outburst of U Cephei*, A. H. Batten, W. H. Fisher, B. W. Baldwin & C. D. Scarfe, **69**, 40.
- Clutton-Brock, M., *The Homogeneity of the Universe, the Formations of Galaxies, and Fluctuations in the Microwave Background*, **69**, 41.
- Cooper, D. M., *Intensity Measurements on Seven Band Systems of C2 Between 2000 and 12000  $\text{\AA}$* , D. M. Cooper & R. W. Nicholls, **69**, 39.
- Costain, C. H., *High Resolution Observations of Abell 2256*, C. H. Costain & R. S. Roger, **69**, 42.
- Hesse, K. H., *Periodic Pulse Intensity Modulation of Pulsars*, **69**, 43.
- Kronberg, P. P., *The Radio Emission from the Nucleus of M82*, **69**, 42.
- Morbey, C. L., *A Computer Program for the Analysis of the 1972 Chromospheric Spectrum of 31 Cygni*, C. L. Morbey, K. O. Wright & R. G. Carlberg, **69**, 40.
- Poeckert, Roland, *Linear Polarization of H $\alpha$  in Be Stars*, **69**, 39.
- Roeder, R. C., *Are Angular Diameters a Cosmological Test?*, **69**, 41.
- Roger, R. S., *The Supernova Remnant DA530 (4C(T) 55.38.1)*, R. S. Roger & C. H. Costain, **69**, 42.
- Seaquist, E. R., *Highly Polarized Radio Outburst from Cygnus X-3*, E. R. Seaquist, P. C. Gregory, R. A. Perley, R. H. Becker, J. B. Carlson, M. R. Kundu, R. C. Bignell & J. R. Dickel, **69**, 42.
- Shuter, W. L. H., *The CO Line Receiver at the U. B. C. Telescope*, W. L. H. Shuter & W. H. McCutcheon, **69**, 39.
- Varshni, Y. P., *The Balmer Jump (at Zero Redshift) in Quasars*, **69**, 43.
- Wehlau, Amelia, *Period Changes of RR Lyrae Variables in M14*, Amelia Wehlau, John Conville & Helen Hogg, **69**, 41.

### 1975 Meeting at Queen's University, Kingston, Ontario

- Ahmed, Afaq, *Numerical Experiments on Dynamics of Axially Symmetric Stellar Systems*, **69**, 253.
- Alexander, M. E., *Evolution of a Close Binary System: Compact Object Inside Moving Envelope of Normal Companion*, M. E. Alexander, W. Y. Chau & R. N. Henriksen, **69**, 252.
- Beals, C. S., *On the Age of Mare Orientale*, C. S. Beals & R. W. Tanner, **69**, 256.
- Beaudet, G., *Non Thermal Effects In Carbon and Oxygen Burning*, G. Beaudet & G. Shaviv, **69**, 256.
- Blackwell, A. T., *Meteor Flux Survey*, A. T. Blackwell & I. Halliday, **69**, 255.
- Bochonko, D. Richard, *The Effects on Emission-Line Profiles of Novae Due to Variations in Thermal Broadening and Excitation Conditions*, **69**, 255.
- Borra, Ermanno F., *Theoretical Polarization and Intensity H $\alpha$  Profiles in White Dwarfs with Strong Magnetic Fields*, **69**, 253.
- Bradford, Henry M., *Coronal Scattering of Solar "Plasma Frequency" Radio Bursts*, **69**, 254.
- Burrell, D. A., *Solar Infra-Red Limb Scans Using a Simple Rapid-Scanning Michelson Interferometer*, D. A. Burrell & T. A. Clarke, **69**, 254.
- Campbell, Bruce, *The DDO Reticon System*, **69**, 246.
- Chau, W. Y., *Gravitational Radiation and Gravitational Collapse of Rotating Gaseous Ellipsoids*, W. Y. Chau, T. T. Chia & R. N. Henriksen, **69**, 252.
- Clarke, J. N., *A Search for a Recombination Line of Ionized Helium in W3*, J. N. Clarke, V. A. Hughes & M. R. Viner, **69**, 247.
- Early Astronomy at Queen's*, **69**, 250.
- Clarke, T. A., *The Far-Infra-Red Sun — Review of Recent Results and Indications of Future Prospects*, **69**, 254.
- Covington, A. E., *Goth Hill Radio Observatory, 1948-1971*, **69**, 251.



- Douglas, A. Vibert, *Canada's Lost Opportunity*, **69**, 248.
- Fabian, W., *The Cress 7 m Photoelectric Scanning Grating Spectrograph and Its Potential for Solar, Atmospheric and Laboratory Spectroscopy*, W. Fabian & R. W. Nicholls, **69**, 246.
- Fahlman, G. G., *On the Light Curve of 3C 273*, G. G. Fahlman & T. J. Ulrych, **69**, 256.
- Fernie, J. D.,  *$\pi$  Aqu: A Pulsating Be Star?*, **69**, 245.
- Gaizauskas, V., *The Height and Duration of Sunspot Fibrils in the H $\alpha$  Chromosphere*, **69**, 254.
- Gray, David F., *Turbulence Measurements in Giants and Supergiants*, **69**, 245.
- Harrower, G. A., *History of Radio Science and Technology Project*, **69**, 256.
- Heaton, K. C., *Accretion of Mass and Angular Momentum onto a Non-Rotating Black Hole*, K. C. Heaton & R. N. Henriksen, **69**, 252.
- Henriksen, R. N., *Pulsar Electrospheres and "Checkerboard" Plasma Ejection*, R. N. Henriksen & J. A. Norton, **69**, 253.
- Higgs, L. A., *A 10 GHz Survey of the  $\gamma$  Cygni Region*, **69**, 248.
- Hogg, Helen S., *The Canadian Institute, A Root of the Royal Astronomical Society of Canada*, **69**, 249.
- Hughes, V. A., *Recombination Line Observations of W3(OH): A Model for OH and H<sub>2</sub>O Emission*, V. A. Hughes & M. R. Viner, **69**, 246.
- Kennedy, J. E., *The Development of Astronomy in Fredericton, New Brunswick, Between 1847 and 1876*, **69**, 249.
- Kuiper, T. B. H., *Radio Spectral Line Observations of Mass-Loss: The Expanding Envelope of IRC +10216*, T. B. H. Kuiper, G. R. Knapp, S. L. Knapp & R. L. Brown, **69**, 247.
- Kwok, Sun, *Maser Emission from Infrared Stars*, **69**, 244.
- MacRae, D. A., *The Inauguration of the DDO*, **69**, 256.
- Milone, E. F., *The Apparent Infrared Excess of RT Lacertae*, **69**, 244.
- Mitalas, R., *On the Original Binary System of PSR 1913+16*, **69**, 251.
- Percy, John R., *Evolution and Period Changes in Pulsating Variable Stars*, **69**, 251.
- Purton, C. R., *Millimetre Wavelength Observations of the Circumstellar Shells of Some Mass-Loss Stars*, C. R. Purton, K. A. Marsh & P. A. Feldman, **69**, 247.
- Racine, René, *The Reddening of Globular Clusters*, **69**, 244.
- Ross, Hugh N., *Variable Radio Source Structure on a Scale of Several Minutes of Arc*, **69**, 248.
- Scarfe, C. D., *On the Period and Radius of  $\zeta$  Geminorum*, **69**, 244.
- Shuter, W. L. H., *Preliminary Interstellar Spectral Line Search in the Frequency Range 72-78 GHz*, W. L. H. Shuter, W. H. McCutcheon, R. M. Lees, M. Mahoney, P. Joensen & P. Gregory, **69**, 247.
- Smith, Robert Connon, *On Fragmentation in a Collapsing Gas Cloud*, Robert Connon Smith & Alan E. Wright, **69**, 252.
- Tatum, J. B., *Intensity Analysis of the Swan Bands of Carbon in the Spectrum of a Comet*, **69**, 255.
- Turner, D. G., *The OB Stars in Northern Monoceros*, **69**, 245.
- Varshni, Y. P., *On the Largest Angular Size-Redshift Diagram for Quasars*, **69**, 256.
- Viner, M. R., *Recombination Line Observations of the Compact H II Region G32.8+0.2*, M. R. Viner & V. A. Hughes, **69**, 246.
- Woodsworth, A., *A Dynamical Model for Cygnus X-3*, A. Woodsworth & V. A. Hughes, **69**, 255.
- Wright, K. O., *The Dominion Astrophysical Observatory 1918-1975*, **69**, 250.

### 1976 Meeting at the Dominion Radio Astrophysical Observatory, Penticton, British Columbia

- Ahern, F. J., *V1016 Cygni — A Proto-Planetary Nebula*, F. J. Ahern, M. P. FitzGerald, K. Marsh & C. R. Purton, **70**, 262.
- Allison, Andrea M., *Spectral Variations of 12 Lacertae*, Andrea M. Allison, G. Fahlman & J. W. Glaspey, **70**, 261.
- Avery, L. W., *A Search for Solar X-Ray Bright Points at Radio, Optical and X-Ray Wavelengths*, L. W. Avery, P. A. Feldman, V. Gaizauskas, J.-R. Roy & C. J. Wolfson, **70**, 265.
- Batten, A. H., *HD 33232 — A Variable Be Star*, A. H. Batten & J. Bonfonti, **70**, 260.
- Bradford, Henry, *Coronal Scattering of Solar "Plasma Frequency" Radio Bursts — II*, **70**, 265.
- Burrell, D. A., *Observations of 5-Minute Oscillations in the Solar Near-Infrared Spectrum*, D. A. Burrell & T. A. Clark, **70**, 265.
- Clark, John Paul Adrian, *Dynamics of Tidal Interaction in Close Neutron Star Binaries*, John Paul Adrian Clark & Douglas M. Eardley, **70**, 261.
- Clutton-Brock, M., *Entropy in a "Many Universes" Cosmology*, **70**, 268.
- Costain, C. H., *A 22 MHz Survey of the Northern Sky*, C. H. Costain & R. S. Roger, **70**, 264.
- Demers, Serge, *The C-M Diagram of Fornax*, Serge Demers & W. E. Kunkel, **70**, 269.
- Dewdney, P. E., *Spectroscopic Supersynthesis Telescopes Using Digital Cross-Correlators*, **70**, 264.
- DuPuy, David L., *Classroom Demonstration Photometer*, **70**, 266.
- Falk, H. J., *Proton-Proton Chain in Convective Cores*, H. J. Falk & R. Mitalas, **70**, 259.
- FitzGerald, M. Pim, *A Tape Recorded University Correspondence Course*, **70**, 266.
- Gray, David F., *Differential Rotation in A Stars*, **70**, 261.
- Gregory, P. C., *Radio Emission from AG Pegasi*, P. C. Gregory, S. Kwok & E. R. Seaquist, **70**, 262.
- Hube, D. P., *Films on Astronomy*, **70**, 267.
- Hughes, V. A., *Neutron Stars and Ultra-Compact H II Regions*, V. A. Hughes & M. R. Viner, **70**, 263.
- Landecker, T. L., *Aperture Synthesis Observations of Neutral Hydrogen in the Galaxies NGC 4214 and NGC 4395*, T. L.

- Landecker, C. H. Costain, P. E. Dewdney & R. S. Roger, **70**, 268.
- Mahoney, M. J., *The Structure, Dynamics and Chemical Composition of Lynds 134*, M. J. Mahoney, W. H. McCutcheon & W. L. H. Shuter, **70**, 263.
- McCutcheon, W. H., *Carbon Monoxide Isotope Ratios in Lynds 134*, W. H. McCutcheon, W. L. H. Shuter & M. J. Mahoney, **70**, 263.
- Mochnacki, S. W., *Area Photometry with a 50 x 50 Reticon Diode Array*, S. W. Mochnacki, V. Buchholz & G. A. H. Walker, **70**, 264.
- Morbey, C. L., *An Interesting Triple System — HD 165590*, C. L. Morbey & A. H. Batten, **70**, 261.
- Percy, John R., *Why Do Metallic-Line A Stars Not Pulsate?*, **70**, 260.
- Education in Astronomy: A Review*, **70**, 266.
- Rodger, David A., *The Planetarium Programme in Canada*, **70**, 267.
- Routledge, D., *Radio Interferometer Circuitry*, D. Routledge & J. F. Vaneldik, **70**, 264.
- Seaquist, E. R., *A Model for the Quiescent Radio Emission from Cyg X-3*, E. R. Seaquist & P. C. Gregory, **70**, 262.
- Sreenivasan, S. R., *On the Origin of Sunspots*, **70**, 265.
- Stockton, Alan, *Spectrophotometry with a Phosphor-Output Image Intensifier*, **70**, 264.
- Szathmary, Kara, *The Value of Teaching Astronomy in High Schools*, **70**, 269.
- Turner, D. G., *Absolute Magnitude of the Cepheid CV Monocerotis*, **70**, 259.
- Vallée, Jacques P., *Les Radio Galaxies Membres des Amas Abell 779 et Abell 1314*, Jacques P. Vallée & A. S. Wilson, **70**, 268.
- van den Bergh, S., *Optical Observations of the Post-Eruptive Galaxy NGC 5128 = Centaurus A*, **70**, 269.
- Vickers, C. R., *A Study of the Triple System  $\xi$  Cephei*, C. R. Vickers & C. D. Scarfe, **70**, 259.
- Viner, M. R., *Recombination Line and Continuum Observations of Compact H II Regions at 10.5 GHz*, M. R. Viner, J. N. Clarke & V. A. Hughes, **70**, 263.
- Wehlau, Amelia, *Red Variables in M22*, Amelia Wehlau & Helen Sawyer Hogg, **70**, 260.
- Welch, G. A., *An Introduction to Extragalactic Astronomy Using Prints from the Palomar Sky Survey*, **70**, 267.
- The Ultraviolet Energy Distribution of the Fornax Dwarf Galaxy*, G. A. Welch & A. D. Code, **70**, 269.
- Weller, W., *Spectrophotometry Using an Intensifier Silicon Vidicon Spectrometer*, W. Weller, W. Herbst & S. Jeffers, **70**, 269.
- Wright, K. O., *The Orbits and Structure of the VV Cephei System*, **70**, 259.

### 1977 Meeting at the University of Western Ontario, London, Ontario

- Baldwin, B. W., *An Observational Study of the Eclipsing Binary RZ Ophiuchi*, **71**, 408.
- Bastien, Pierre, *Hydrodynamical Collapse Calculation of Cylindrical Clouds*, **71**, 397.
- Beals, C. S., *Volcanic Events Associated with Two Impact Craters on the Lunar Farside*, C. S. Beals & R. W. Tanner, **71**, 405.
- Bolton, C. T., *HD 137569, A Population II Remnant of Mass-Exchange Evolution*, C. T. Bolton & J. R. Thomson, **71**, 402.
- Carlberg, R. G., *Spectrum Variations of the X-Ray Binary HD 153919 (3U 1700-37)*, R. G. Carlberg, G. G. Fahlman & G. A. H. Walker, **71**, 408.
- Chau, W. Y., *Evolution of Low-Mass, Close-Binary System with Mass Exchange and Gravitational-Radiation Losses*, W. Y. Chau & D. Lauterborn, **71**, 408.
- Clark, T. A., *Periodic Fluctuations in Continuum Near-IR Solar Intensity and CO Absorption*, T. A. Clark & D. A. Burrell, **71**, 403.
- Clement, Christine Coutts, *The Mira Variables of the Metal-Rich Globular Cluster NGC 6356*, Christine Coutts Clement & Helen Sawyer Hogg, **71**, 411.
- Danylewych-May, L. L., *Absolute Transition-Probability Data for the Violet Band System of CN*, L. L. Danylewych-May & R. W. Nicholls, **71**, 411.
- Dickman, R. L., *Isotope Fractionation of CO in Dark Dust Clouds*, R. L. Dickman, W. D. Langer, W. H. McCutcheon & W. L. H. Shuter, **71**, 397.
- Duley, W. W., *Elemental Abundances in the Interstellar Medium*, W. W. Duley & T. J. Millar, **71**, 396.
- Dyer, C. C., *Observation in a Hierarchical Universe*, **71**, 405.
- Fahlman, G. G., *Gapped Power Spectra*, G. G. Fahlman & T. J. Ulrych, **71**, 404.
- Falk, H., *CNO Cycle in Convective Regions*, H. Falk & R. Mitalas, **71**, 403.
- FitzGerald, M. P., *NGC 6383: A Very Young Open Cluster with Pre-Main-Sequence Evolution*, M. P. FitzGerald, P. D. Jackson, M. Luiken, E. J. Grayzeck & A. F. J. Moffat, **71**, 409.
- Forbes, Douglas, *UBV Photometry of the Young Cluster NGC 6604*, Douglas Forbes & David L. DuPuy, **71**, 410.
- Forsyth, P. A., *The Space Science Coordination Office*, **71**, 399.
- Fraquelli, Dorothy A., *The Orbit of the Wolf-Rayet Spectroscopic Binary HD 190918*, **71**, 407.
- Galt, J. A., *A Search for Redshifted Hydrogen Absorption in the BL Lac Object PKS 0735+178*, **71**, 394.
- Gray, David F., *A Test of the Micro-Macroturbulence Model of Non-Thermal Velocities*, **71**, 401.
- Hans, E. M., *A Spectroscopic Study of the Binary System  $\delta$  Equulei*, E. M. Hans, C. D. Scarfe & J. M. Fletcher, **71**, 408.
- Hardy, Eduardo, *Absorption Energy Distributions and Redshifts for the Southern BL Lacertae Objects PKS 0548-322 and PKS 0537-441*, **71**, 394.
- Harris, Gretchen L. H., *The Hyades-Age Cluster NGC 1817*, Gretchen L. H. Harris & William E. Harris, **71**, 410.
- Harris, William E., *Photoelectric UBV Photometry in the Anomalous Globular Cluster NGC 2808*, **71**, 410.

- Henriksen, R. N., *What are the Bursting X-Ray Sources Telling Us?*, **71**, 393.
- Henry, Richard C., *Local Interstellar Hydrogen and Deuterium*, Richard C. Henry, R. Anderson, H. W. Moos, W. McClintock & J. L. Linsky, **71**, 396.
- Henry, Richard C., *Astronomy and Astrophysics at NASA*, **71**, 400.
- Hube, Douglas P., *The Rotation Effect in 71 Draconis*, Douglas P. Hube & Janet Couch, **71**, 396.
- Hughes, V. A., *Star Formation in the Cas-Per Arm*, V. A. Hughes & M. R. Viner, **71**, 397.
- Hutchings, J. B., *Massive X-Ray Binaries*, **71**, 406.
- Irwin, Alan W., *A Comparison of Synthetic and Observed Solar Spectra in the Vicinity of the G Band*, **71**, 402.
- Jeffers, S., *Photoelectric Spectroscopy of Nova Vulpeculae 1976*, S. Jeffers & W. G. Weller, **71**, 402.
- Kilambi, Gopal C., *Variable-Star Photometry of NGC 6530*, **71**, 410.
- Kuiper, T. B. H., *The Distribution of Ionized Carbon in the Orion Nebula*, T. B. H. Kuiper & N. J. Evans II, **71**, 398.
- Lake, Kayll, *A New Class of Inhomogeneous White-Hole Solutions*, **71**, 406.
- Landstreet, J. D., *The Phase for Magnetic Fields in Normal Upper Main-Sequence Stars*, **71**, 401.
- Lowe, R. P., *The Excitation of Neutral-Oxygen Emission in the Orion Nebula*, R. P. Lowe, J. M. Moorhead & W. H. Wehlau, **71**, 398.
- Lyon, G. F., *The Canadian Corporation for University Space Science*, **71**, 400.
- MacLeod, J. M., *Cyanodiacetylene in a Dark Dust Cloud*, J. M. MacLeod, N. W. Broten, L. W. Avery & T. Oka, **71**, 396.
- McCutcheon, W. H., *H I Observations of Dark Clouds*, W. H. McCutcheon & W. L. H. Shuter, **71**, 396.
- Michaud, G., *Diffusion, Turbulence and Abundance Anomalies in F, B and A Stars*, **71**, 401.
- Mitchell, G. F., *Interstellar Molecule Abundances from Gas-Phase Reactions*, G. F. Mitchell & J. L. Ginsberg, **71**, 397.
- Moffat, A. F. J., *Trumpler 27: A Heavily-Reddened Young Cluster with Blue and Red Supergiants*, A. F. J. Moffat, M. Pim FitzGerald & P. D. Jackson, **71**, 409.
- On the Nature of Population I Wolf-Rayet Stars*, **71**, 408.
- Percy, John R., *High Precision Differential Photometry with Applications to Early B-Type Stars*, **71**, 404.
- Poeckert, Roland, *Linear Polarization Across H $\alpha$  in the Be Star  $\gamma$ Cassiopeiae*, Roland Poeckert & J. M. Marlborough, **71**, 406.
- Pritchett, Chris, *Near-Infrared Velocity Dispersions for the Nuclear Bulges of M31 and M81*, **71**, 395.
- Purton, C. R., *On the Nature of H I-36*, C. R. Purton, S. Jeffers & W. Weller, **71**, 406.
- Rayburn, Donald R., *A Numerical Study of the Continuous-Beam Model of Extragalactic Radio Sources*, Donald R. Rayburn, N. W. Broten, D. N. Fort, K. I. Kellerman, B. Rayhrer & S. H. Knowles, **71**, 395.
- Roeder, R. C., *Are White Holes Blue or Red?*, **71**, 406.
- Roy, Jean-Réne, *Alignements Astronomiques du Site Mégalithique de Callanish, Lewis: Une Critique*, **71**, 405.
- Scarpelli, A., *The Sun's Galactic Orbit, the Spiral Density Wave, and Geological History*, A. Scarpelli, K. A. Innanen & W. W. Duley, **71**, 395.
- Scrimger, J. N., *Observations of NGC 7027 in the Near-Infrared*, **71**, 399.
- Sreenivasan, S. R., *Mass-Loss Effects on Stellar Evolution, I: 5 M $_{\odot}$  and 15 M $_{\odot}$  Population I Models*, S. R. Sreenivasan & W. J. F. Wilson, **71**, 407.
- Tassoul, J.-L., *Some Major Unresolved Problems in the Theory of Rotating Stars*, **71**, 395.
- Tatum, Jeremy B., *The Cyanogen Abundance of Comets*, Jeremy B. Tatum & Mary I. Gillespie, **71**, 403.
- Turner, D. G., *A Study of the NGC 2439 Association*, **71**, 409.
- Vallée, Jacques P., *Etude Théorique de Raies de Recombination et D'Emission Continuum des Regions H II*, Jacques P. Vallée, Melvyn R. Viner & Victor A. Hughes, **71**, 398.
- van den Bergh, S., *Space Telescope: Panacea or Boondoggle?*, **71**, 401.
- Varshni, Y. P., *Absorption Spectra of Quasars*, **71**, 403.
- Walker, G. A. H., *Long-Term Planning in the European Space Agency*, **71**, 400.
- Welch, G. A., *The Ultraviolet Energy Distributions of Giant Early-Type Galaxies*, **71**, 395.
- Weller, W. G., *Spectrophotometry at York University*, W. G. Weller & S. Jeffers, **71**, 402.

### 1978 Meeting at the University of Saskatchewan, Saskatoon, Saskatchewan

- Bastien, Pierre, *Polarization Properties of T Tauri Stars*, Pierre Bastien & J. D. Landstreet, **72**, 280.
- Batten, A. H., *Standard Stars for Radial-Velocity Measurement*, **72**, 280.
- Bicknell, G. U., *Black Holes in the Early Universe*, G. U. Bicknell & R. N. Henriksen, **72**, 280.
- Bridle, A. H., *Structure, Polarization and Spectrum of Complex Radio Emission from the X-Ray Cluster Abell 2256*, A. H. Bridle, E. B. Fomalont & G. K. Miley, **72**, 280.
- Broten, N. W., *Interstellar Cyanopolynes*, **72**, 283.
- Campbell, Bruce, *Heavy-Element Abundances of Stars and Galaxies from Weak Line Blends*, Bruce Campbell & Chris Pritchett, **72**, 281.
- Chau, W. Y., *Nonlinear Motion of Rotating, Magnetized, Uniform-Density, Gaseous Spheroids — Radiation from Exploding/Collapsing Objects*, W. Y. Chau, R. N. Henriksen & K. L. Chan, **72**, 291.
- Clutton-Brock, M., *A Closed Universe?*, **72**, 281.
- Covington, Arthur E., *The 2800-MHz Solar Radio Minimum of February 1976*, **72**, 281.

- DuPuy, David L., *Nonlinearities in the ITT FW-130 Photomultiplier*, **72**, 291.
- Dyer, C. C., *Conformal Killing Horizons*, **72**, 282.
- Fernie, J. D., *89 Her: A Freak Cepheid?*, **72**, 282.
- Garrison, R. F., *The Spectral Type of the Sun*, **72**, 282.
- Gregory, P. C., *Detection and Optical Identification of a New Highly Variable Radio Source, Possible Counterpart of  $\gamma$ -Ray Source CG 135+1*, P. C. Gregory & R. Taylor, **72**, 282.
- Halliday, Ian, *The Relationship of Fireballs to Meteorites, Asteroids and Comets*, **72**, 290.
- Harris, D. E., *Radio and X-Ray Observations of Abell 754*, D. E. Harris, C. H. Costain, R. G. Strom, H. W. Schnopper & J. P. Delvaille, **72**, 283.
- Harris, Gretchen L. H., *The Populous Open Cluster NGC 6705 (M11)*, Gretchen L. H. Harris & William E. Harris, **72**, 284.
- Harris, William E., *Photometry to the Main Sequence for the Anomalous Globular Cluster Palomar 12*, **72**, 283.
- Higgs, L. A., *Hydrogen-Line Observations of the Gamma-Cygni Region*, L. A. Higgs, R. S. Roger & T. L. Landecker, **72**, 285.
- Kronberg, P. P., *Some Recent Extragalactic Discoveries at Low Brightness Levels*, **72**, 283.
- Lake, Kayll, *The Reissner-Nordström-de Sitter Metric, the Third Law, and Cosmic Censorship*, **72**, 285.
- Llewellyn, E. J., *Atomic Oxygen Recombination in the Venus Airglow*, E. J. Llewellyn & B. H. Solheim, **72**, 291.
- McCutcheon, W. H., *CO Observations of S125*, W. H. McCutcheon & R. S. Roger, **72**, 285.
- McIntosh, B. A., *Infrasound from Meteors: Theory and Reality*, **72**, 290.
- Milone, E. F., *The Infrared Light Curve of RW Comae Berenices*, E. F. Milone, T. A. Clark, D. A. Naylor & R. M. Robb, **72**, 285.
- Pritchett, Chris, *Imagery of the Galaxy NGC 5102 Using a CCD Array*, **72**, 286.
- Shadick, S. T.,  *$^{12}\text{C}/^{13}\text{C}$  Abundance Ratio in Red Giants*, S. T. Shadick, H. J. Falk & R. Mitalas, **72**, 286.
- Shinn, J. B., *Intensity Measurements on the ScO Blue-Green Band System Using Shock-Tube Radiometry*, J. B. Shinn & R. W. Nicholls, **72**, 286.
- Shuter, W. L. H., *Mapping of CO Near  $\ell = 30^\circ$ ,  $b = 0^\circ$* , W. L. H. Shuter & W. H. McCutcheon, **72**, 287.
- Sreenivasan, S. R., *Evolution of Massive Stars Losing Mass and Angular Momentum*, S. R. Sreenivasan & W. J. F. Wilson, **72**, 287.
- Thompson, I., *Optical Polarization of the Seyfert Galaxy NGC 4151*, I. Thompson, J. D. Landstreet, J. R. P. Angel, H. S. Stockman, N. J. Woolf, P. G. Martin, J. Maza & E. A. Beaver, **72**, 287.
- Vallée, J. P., *Analyse Physique de L'Emission Radio, Infrarouge, et Optique en Provenance de la Nébuleuse IC 1805*, J. P. Vallée, V. A. Hughes & M. R. Viner, **72**, 288.
- Venkatesan, D., *Cosmic-Ray Intensity Variations During the Last Two Solar Cycles*, D. Venkatesan & T. Mathews, **72**, 288.
- Walker, G. A. H., *He II  $\lambda 4686$  Emission in the Spectrum of Cygnus X-1*, G. A. H. Walker, S. Yang & J. W. Glaspey, **72**, 289.
- Wehlau, Amelia, *Blue Variables in M22*, Amelia Wehlau & Helen Sawyer Hogg, **72**, 289.
- Wizinowich, Peter, *The Two Periods of 44 Tauri: A Least Squares Approach*, Peter Wizinowich & John R. Percy, **72**, 291.

### 1979 Meeting at the University of British Columbia, Vancouver, British Columbia

- Böhm-Vitense, Erika, *The Energy Distribution of Sirius B*, Erika Böhm-Vitense, Stelios Kapranidis & Terry Dettman, **73**, 300.
- Batten, A. H., *The Triple System HD 165590*, A. H. Batten, C. L. Morbey, F. C. Fekel & J. Tomkin, **73**, 304.
- Borra, Ermanno F., *The Geometry of the Magnetic Field of 78 Virginis*, **73**, 302.
- Bridle, A. H., *Evidence for Beam Models of Radio Galaxies*, A. H. Bridle, E. B. Fomalont & A. G. Willis, **73**, 307.
- Carlberg, Raymond, *The Instability of Stellar Winds*, **73**, 299.
- Chau, W. Y., *Structure and Evolution of Severely Distorted Components in Close Binaries*, W. Y. Chau & K. L. Chan, **73**, 297.
- Clutton-Brock, M., *Large-Scale Anisotropies in the Hubble Flow*, **73**, 302.
- Condal, Alfonso R., *CCD Observations of the Planetary Nebula NGC 3242*, **73**, 305.
- Costain, C. H., *Radio Observations of Heiles' Cloud 2*, C. H. Costain, L. W. Avery, N. W. Broten & J. M. MacLeod, **73**, 298.
- Crabtree, Dennis R., *Ammonia in IRC +10216*, **73**, 300.
- Davies, John Bruce, *Axisymmetric Self-Gravitating Disks*, **73**, 297.
- De Robertis, M., *The Formation of Galaxies*, M. De Robertis & R. N. Henriksen, **73**, 306.
- Dewdney, P. E., *A Long-Wavelength Radio Survey of the Polar Cap Region*, **73**, 303.
- Fahlman, G. G., *Spectrum Variations in HD 153919 = 3U 1700-37*, G. G. Fahlman & G. A. H. Walker, **73**, 299.
- Fernie, J. D., *HR 8157: Great White Hope for Cepheid Masses?*, **73**, 304.
- Gaizauskas, V., *The Enhanced Magnetic Network in Active Solar Regions: Detection and Relationship to Chromospheric Structures*, **73**, 299.
- Glaspey, John, *A Low-Light-Level TV Viewing System for Observers*, John Glaspey & Robert Sabourin, **73**, 306.
- Gregory, P. C., *A Survey for Variable Radio Sources Along the Galactic Plane*, P. C. Gregory & A. R. Taylor, **73**, 304.
- Harrington, J. P., *IUE Observations of the Planetary Nebula NGC 7662*, J. P. Harrington, J. H. Lutz & M. J. Seaton, **73**, 305.
- Harris, Daniel E., *Old Populations of Relativistic Electrons*, **73**, 296.
- Hughes, V. A., *Radio Evidence for Mass Loss From Early-Type Stars*, V. A. Hughes, M. R. Viner & J. P. Vallée, **73**, 298.
- Innanen, K. A., *The Limiting Radii of Direct and Retrograde Satellite Orbits, with Applications to the Solar System and to Stellar Systems*, **73**, 306.
- Joncas, G., *A Search for Ap Stars in Orion, Using Narrow-Band Photometry*, G. Joncas & E. F. Borra, **73**, 302.

- Kwok, Sun, *Dust in Planetary Nebulae*, **73**, 300.
- Lake, Kayll, *Thin Spherical Shells*, **73**, 307.
- Lutz, Thomas E., *On the Accuracy of Trigonometric Parallaxes*, Thomas E. Lutz & Robert B. Hanson, **73**, 295.
- McAlary, Christopher W., *Near-Infrared Spectrophotometry of SS 433*, Christopher W. McAlary & R. A. McLaren, **73**, 303.
- McCutcheon, W. H., *The 12C/13C Ratio in Interstellar Dark Clouds*, W. H. McCutcheon, W. L. H. Shuter, R. L. Dickman & R. S. Roger, **73**, 296.
- Pritchett, Chris, *Star Formation in the Nucleus of NGC 5102*, **73**, 301.
- Racine, R., *Globular Clusters in M31 and M81*, R. Racine, M. Shara & G. Ménard, **73**, 301.
- Roger, R. S., *The Dissociation of Hydrogen Near Extended H II Regions*, **73**, 307.
- Roy, Jene-René, *Optical and Microwave Emissions of Some Major Solar Flares*, **73**, 297.
- Seaquist, E. R., *Radio and Optical Observations of SS 433*, E. R. Seaquist, R. F. Garrison, P. C. Gregory, A. R. Taylor & Patrick C. Crane, **73**, 303.
- Sreenivasan, S. R., *Evolution of Massive Stars Losing Mass and Angular Momentum: Differential Rotation and Helium Convective-Core Overshoot*, S. R. Sreenivasan & W. J. F. Wilson, **73**, 300.
- Szabo, A., *The CO Distribution Around  $\ell = 30^\circ$ ,  $b = 0^\circ$* , A. Szabo, W. L. H. Shuter & W. H. McCutcheon, **73**, 302.
- Taylor, A. R., *Preliminary Results from a Computer Reduction of the Variable-Radio-Source Survey*, A. R. Taylor & P. C. Gregory, **73**, 305.
- Turner, D. G., *Anomalous Extinction in the  $\eta$  Carinae Nebula?*, D. G. Turner & A. F. J. Moffat, **73**, 301.
- Underhill, Anne B., *An Observational HR Diagram for Early-Type Stars*, **73**, 295.
- Vallée, J. P., *IC 708 — A Head-Tail Galaxy in an Eccentric Orbit?*, J. P. Vallée, A. H. Bridle & A. S. Wilson, **73**, 303.
- Venkatesan, D., *Solar Coronal Holes and Cosmic-Ray Intensity Variations*, **73**, 298.
- Viner, M. R., *Time Variations in the Recombination-Line Spectrum of W49A*, M. R. Viner & V. A. Hughes, **73**, 296.
- Walker, G. A. H., *An “Emission” Wing Associated with the  $\lambda 6177$  Diffuse Interstellar Absorption Band?*, G. A. H. Walker & S. Yang, **73**, 304.

### 1980 Meeting at Saint Mary’s University, Halifax, Nova Scotia

- Auclair, Raymond, *Navigation vs. Astronomy*, **74**, 367.
- Bishop, Roy L., *Castle Frederick Observatory: Location and Design*, **74**, 364.
- Bradford, Henry M., *Coronal Scattering of Interplanetary-Spacecraft Radio Signals*, Henry M. Bradford & David Routledge, **74**, 358.
- Brooks, Randall C., *A Union Catalogue of Antiquarian Astronomy Books*, **74**, 367.
- Chau, W. Y., *Evolution of Low-Mass, Distorted Stars in a Very Close Binary System with the Inclusion of Gravitational-Radiation Losses*, W. Y. Chau, C. Chiosi, K. L. Chan & L. A. Nelson, **74**, 359.
- Chou, B. Ralph, *Protective Filters for Solar Observation*, **74**, 365.
- Clement, Christine M., *The Variable Stars of the Globular Cluster NGC 6284*, Christine M. Clement & Thomas R. Wells, **74**, 363.
- Cunningham, Clifford, *Apollo Asteroids*, **74**, 367.
- Delaney, Paul, *A Study of Stellar Spectra with IUE*, **74**, 355.
- Dewdney, P. E., *H I in the Region Around the Reflection Nebula NGC 1579*, P. E. Dewdney & R. S. Roger, **74**, 361.
- Edwards, Michael P., *Gear Selection, Considering Gear-Load Balancing, for Astrophotography*, **74**, 366.
- English, Darlene, *The Surface-Brightness Profiles of Six Supergiant Galaxies*, Darlene English & Gary A. Welch, **74**, 361.
- Feldman, P. A., *Radio Superflares in RS Canum Venaticorum Binaries*, **74**, 358.
- Forbes, Doug, *UBV Photometry of the Highly Reddened Open Cluster Berkeley 87*, **74**, 360.
- Gaizauskas, V., *Combined Radio-Optical Observations of Active Solar Regions Associated with the S-Component of Solar Microwave Emission*, V. Gaizauskas & K. F. Tapping, **74**, 358.
- Hickson, P., *CCD Images Obtained With the Canada-France-Hawaii Telescope*, P. Hickson, J. R. Auman, G. G. Fahlman, T. K. Menon, G. A. H. Walker, R. Johnson & T. Lester, **74**, 364.
- Hogg, Helen Sawyer, *Ninety Years of Variable Stars in Globular Clusters*, **74**, 363.
- Hube, Douglas P., *33 Tauri — A New Ellipsoidal Variable*, **74**, 365.
- Innanen, K. A., *A Driving Mechanism for Galactic Spirals*, K. A. Innanen & K. A. Papp, **74**, 362.
- Jedicke, Peter, *A Planetarium for London, Ontario*, **74**, 364.
- Kennedy, J. E., *Review of “A Letter Concerning Earthquakes”*, **74**, 364.
- Lake, Kayll, *Local Inhomogeneities in a Robertson-Walker Background*, **74**, 357.
- Legg, T. H., *The Canadian Very-Long-Baseline Array*, **74**, 363.
- Lemay, Damien, *Making a Photographic Star Altas with a 5.5-Inch Schmidt Camera*, **74**, 366.
- Levy, David H., *An Amateur Observing Program in Southern Arizona*, **74**, 366.
- MacDonnell, Martin, *A SAAD (Signal-Acquisition-Averaging-Display) System*, **74**, 365.
- McCallum, Robert G., *A Least-Squares Determination of Cepheid Maxima*, Robert G. McCallum & J. Michael Roney, **74**, 367.
- McCutcheon, W. H., *Spectral-Line Observations of the IC 5146 Region*, W. H. McCutcheon, R. S. Roger & R. L. Dickman, **74**, 362.

- Mitchell, George F., *Models of Cometary Comae*, George F. Mitchell & Michael B. Swift, **74**, 356.  
 Nelson, L. A., *Perturbation of a Binary System with the Passage of Gravitational Waves*, L. A. Nelson & W. Y. Chau, **74**, 359.  
 Papp, K. A., *Warping of Galaxies*, K. A. Papp & K. A. Innanen, **74**, 362.  
 Percy, J. R., *HR 7308: A Unique Cepheid*, J. R. Percy & N. R. Evans, **74**, 360.  
 Racine, René, *Alii-nui, Kahunas and Menehunes on Mauna Kea — A Candid Glimpse of CFHT by Its Director-to-Be*, **74**, 364.  
 Scrimger, J. Norman, *He  $\lambda$ 10830 in Planetary Nebulae*, **74**, 356.  
 Seaquist, Ernest, *SS 433 — A New Stellar Phenomenon?*, **74**, 365.  
 Taylor, A. R., *Periodic Radio Emission from LSI +61 303*, A. R. Taylor & P. C. Gregory, **74**, 358.  
 Turner, David G., *A Detailed Investigation of the R Association Containing the I<sup>d</sup>.95 Cepheid SU Cassiopeiae*, David G. Turner & Nancy Ramage Evans, **74**, 359.  
 Underhill, Anne B., *The Source of Heating in the Mantles of Early-Type Supergiants*, **74**, 356.  
 Vallée, J. P., *Evidence for Diffusion of Relativistic Electrons in the Interstellar Medium of the Elliptical Galaxy NGC 3862*, **74**, 357.  
 Varshni, Y. P., *Distance of the Double Quasar 0957 + 561*, **74**, 357.  
 Welch, Gary A., *Ultraviolet Photometry of Spiral and Irregular Galaxies with the Orbiting Astronomical Observatory*, **74**, 361.

### 1981 Meeting at the Université Laval, Québec, Québec

- Avery, L. W., *The Distribution of Emission in TMC-1 from the Strong Unidentified Line at 85339 MHz*, L. W. Avery, N. W. Broten & J. M. MacLeod, **75**, 245.  
 Batten, A. H., *Spectroscopic Observations of ADS 11579*, A. H. Batten, J. M. Fletcher, R. D. McClure, C. D. Scarfe & G. Wallerstein, **75**, 245.  
 Borra, Ermanno F., *Decaying Stellar Magnetic Fields, Magnetic Braking: Evidence From Magnetic Observations in Orion OB1*, **75**, 245.  
 Bradfield, L., *WATFAA The Automation of a Cuffey Iris Astrophotometer*, L. Bradfield & M. P. FitzGerald, **75**, 245.  
 Bradford, Henry M., *Measurements of the Coronal Spectral Broadening of Spacecraft Radio Signals and the Stellar Wind Speed*, **75**, 246.  
 Corriveau, Gilles, *Recherche d'Objets Faibles Fortement Polarises*, Gilles Corriveau, Ermanno Borra & Claude Rheault, **75**, 246.  
 Cowley, C. R., *Abundance Fluctuations in Superficially Normal A Stars*, C. R. Cowley, R. L. Sears, G. C. L. Aikman & K. Sadakane, **75**, 246.  
 Evans, Nancy Ramage, *A Search for Light-Time Effects in Binary Cepheids: AW Persei*, **75**, 247.  
 Glaspey, John, *The Open Cluster NGC 2281*, **75**, 247.  
 Halliday, Ian, *A Photometric Study of the Innisfree Meteorite Fall*, Ian Halliday, Arthur A. Griffin & Alan T. Blackwell, **75**, 47.  
 Harris, William E., *Globular Clusters and Galaxy Mergers*, **75**, 248.  
 Hellaby, Charles, *Elementary Growth Rates of Local Inhomogeneities in a Flat Robertson-Walker Background with a Relativistic Equation of State*, Charles Hellaby & Kayll Lake, **75**, 248.  
 Henriksen, R. N., *A Simple Formula for the Surface Brightness of Turbulent Radio Jets*, **75**, 248.  
 Kasper, B. L., *Real-Time Excising of Narrowband Interference in Radio Interferometry*, B. L. Kasper, F. S. Chute & D. Routledge, **75**, 249.  
 Kronberg, P. P., *M82 — A Superb Laboratory for Star Formation Bursts*, P. P. Kronberg, P. Biermann & F. R. Schwab, **75**, 49.  
 Lamontagne, R., *Etoiles Wolf-Rayet de Hautes Vitesses et Compagnon Compact*, R. Lamontagne, A. F. J. Moffat & W. Seggewis, **75**, 250.  
 McGonegal, R., *The Cepheid Period-Luminosity Relation — A New Application of Infrared Photometry*, R. McGonegal, R. A. McLaren, B. F. Madore & C. W. McAlary, **75**, 250.  
 Mitchell, George F., *A Calculation of Cometary Coma Abundances with H<sub>2</sub>O-Dominated and CO<sub>2</sub>-Dominated Volatile Mixtures*, George F. Mitchell & Michael B. Swift, **75**, 250.  
 Moffat, Anthony F. J., *Search for Wolf-Rayet Stars in External Galaxies with the CFHT*, Anthony F. J. Moffat & M. M. Shara, **75**, 250.  
 Mongeon, Jean, *Photometry of Bright Stars in the Dwarf Irregular Galaxy Leo A*, Jean Mongeon & Serge Demers, **75**, 251.  
 Percy, John R., *Pulsating Be Stars?*, **75**, 251.  
 Pinneault, Serge, *Comments on the Spectrum and Polarization of Relativistic Accretion Disks*, **75**, 251.  
 Racine, René, *Les Plus Brilliantes Etoiles de M81*, René Racine & Michael M. Shara, **75**, 251.  
 Roy, Jean-René, *Un Système d'Interférométrie à Balayage Pour L'Imagerie et la Spectrométrie*, Jean-René Roy, Robin Arsenault & Gilles Joncas, **75**, 252.  
 Taylor, A. R., *The Periodic Radio Star LSI + 61 303*, A. R. Taylor & P. C. Gregory, **75**, 252.  
 Turner, David, *The Vulpecula OB1 Complex — Some Thoughts on the Star Formation Process in a Rich Association*, **75**, 252.  
 Vallée, J. P., *Émission de Rayons-X du Gaz Thermique, Hors des Galaxies, à L'Interior des Amas de Galaxies*, J. P. Vallée & A. H. Bridle, **75**, 253.  
 Walker, G. A. H., *The Line-Profile Variations of Spica*, G. A. H. Walker, Katharine Moyles, S. Yang & G. G. Fahlman, **75**, 254.

### 1982 Meeting at the University of Toronto, Toronto, Ontario

- Arp, Halton C., *A Catalogue of Peculiar and Interacting Galaxies*, Halton C. Arp & Barry F. Madore, **76**, 315.
- Arsenault, Robin, *Un Spectrophotometre Interferentiel de Fabry-Pérot Contrôlé par Micro-Ordinateur*, Robin Arsenault, Jean-René Roy & Réjean Bisson, **76**, 315.
- Bolton, C. T., *Is V986 Ophiuchi a Tidally Driven Variable?*, C. T. Bolton & A. Fullerton, **76**, 316.
- Borra, Ermanno F., *The Liquid Mirror Telescope as a Viable Astronomical Tool*, **76**, 316.
- Campbell, B., *Precision Radial Velocities with a Hydrogen-Fluoride Absorption Cell*, B. Campbell, A. Irwin & G. A. H. Walker, **76**, 316.
- Clarke, Thomas, *A Review of the Current Status of Canadian Planetariums*, **76**, 317.
- Clayton, G. C., *The Wavelength Dependence of Interstellar Polarization in the LMC*, G. C. Clayton, P. G. Martin & I. Thompson, **76**, 317.
- Clement, Maurice J., *The Effect of Rapid Rotation on Stellar Pulsation Modes*, **76**, 317.
- Clutton-Brock, M., *The Arrow of Time in a Bouncing Universe*, **76**, 317.
- Costain, C. H., *Holographic Studies of the Algonquin 46 m Telescope*, C. H. Costain, J. L. Yen, C. J. Wu, A. W. Woodsworth, R. S. Richards, N. W. Broten & J. M. MacLeod, **76**, 317.
- De Robertis, Michael, *NGC 3516 — An Unusual Seyfert Galaxy?*, **76**, 318.
- Demers, Serge, *A Preliminary Colour-Magnitude Diagram for Leo II*, Serge Demers & William E. Harris, **76**, 318.
- Dewdney, P. E., *VLA Observations of H I Near the Ionization Boundary of the H II Region Surrounding the Early-Type Star LkH $\alpha$  101*, P. E. Dewdney & R. S. Roger, **76**, 318.
- Durand, D., *Une Etude Photographique de NGC 376, 416 et 419 Dans le Petit Nuage de Magellan*, D. Durand & E. Hardy, **76**, 319.
- Edwards, G., *A Search for Quasars at Very Faint Magnitudes*, G. Edwards, E. Borra & E. Hardy, **76**, 319.
- Fernie, J. D., *Pulsational Mode Switching in HD 161796*, **76**, 319.
- Gray, David F., *Discovery and Implications of the Dramatic Rotation Brake at G5 III*, **76**, 319.
- Heaton, K. C., *Response of the Earth to Gravitational Radiation*, **76**, 320.
- Higgs, L. A., *CO Observations of SNR G78.2+2.1*, L. A. Higgs, T. L. Landecker & R. S. Roger, **76**, 320.
- Hughes, V. A., *Early Stages of Star Formation Seen in Cep A*, V. A. Hughes & J. G. A. Wouterloot, **76**, 320.
- Joncas, Gilles, *Traitement Informatise des Interférogrammes de Fabry-Pérot: Dynamique de la Région H II S142*, Gilles Joncas & Jean-René Roy, **76**, 320.
- Joslin, Garry, *Kinematics of Carbon Stars in the Large Magellanic Clouds*, Garry Joslin & Harvey Richer, **76**, 321.
- Kronberg, P. P., *The Detection of Magnetic Fields Out to Large Redshifts*, P. P. Kronberg & J. J. Perry, **76**, 321.
- Kwok, Sun, *Effects of Mass Loss on the Formation of Planetary Nebulae*, **76**, 322.
- Lacombe, P., *On the Statistics of ZZ Ceti Stars*, P. Lacombe & G. Fontaine, **76**, 322.
- Landecker, T. L., *X-Ray Structure of the SNR G78.2+2.1*, T. L. Landecker, L. A. Higgs, R. S. Roger & F. D. Seward, **76**, 322.
- McCutcheon, W. H., *Distribution of CO in the Southern Milky Way*, W. H. McCutcheon, B. J. Robinson & J. B. Whiteoak, **76**, 322.
- McGonegal, R. J., *The Cepheid P-L-C-X Relation — A Third Parameter Emerges*, R. J. McGonegal, R. A. McLaren, B. F. Madore & C. W. McAlary, **76**, 323.
- Moffat, Anthony F. J., *The Luminous Core of 30 Doradus: Supermassive Star or Dense Star Cluster?*, **76**, 323.
- Naylor, David A., *High-Resolution Observations of Atmospheric Emission Spectra in the 20-micron Window from Mauna Kea: Comparison with Theoretical Spectra*, David A. Naylor, Rita T. Boreiko, T. Alan Clarke, R. Emery & B. Fitton, **76**, 323.
- Perley, R. A., *The Radio Jet in NGC 6251*, R. A. Perley, A. H. Bridle & A. G. Willis, **76**, 323.
- Pineault, Serge, *The Effect of an Inhomogeneous High-Energy Cut-Off on the Optically Thin Spectrum of Unresolved Synchrotron Sources*, **76**, 324.
- Purton, Chris, *M2-9; The Butterfly Nebula*, Chris Purton & Sun Kwok, **76**, 324.
- Reed, B. Cameron, *An Analytic Solution for Stellar Space Densities*, **76**, 324.
- Routledge, D., *VRO 42.05.01 — One Supernova Remnant or Two?*, D. Routledge, J. F. Vaneldik, T. L. Landecker & S. Pineault, **76**, 324.
- Roy, Jean-René, *Dynamique des Complexes H II Extragalactiques: Une Étrange Région H II Géante dans NGC 4631*, Jean-René Roy & Robin Arsenault, **76**, 325.
- Scarfe, C. D., *The Triple System of  $\pi$  Cephei*, **76**, 325.
- Scrimger, J. Norman, *The Effect of a Shock on Diffuse Interstellar Cloud Abundances*, J. Norman Scrimger & George F. Mitchell, **76**, 325.
- Turner, David, *On the Trail of New Calibrating Objects for the Cepheid Period-Luminosity Relation*, **76**, 325.
- Vallée, J. P., *Champs Magnétiques Interstellaires et Intergalactiques*, **76**, 326.

### 1983 Meeting at the University of Victoria, Victoria, British Columbia

- Batten, A. H., *Orbital Elements of 93 Leonis*, A. H. Batten, W. A. Fisher, J. M. Fletcher & G. Hill, **77**, 254.
- Broten, N. W., *A Search for a Magnetic Field Associated with a Large X-Ray Ring*, N. W. Broten, J. M. MacLeod & J. P. Vallée, **77**, 263.
- Carlberg, R. G., *The Evolution of Disk Galaxies*, R. G. Carlberg, W. L. Freedman & J. A. Sellwood, **77**, 265.

- Caswell, J. L., *Star Formation Regions — Their Galactic Distribution Assessed from New OH Maser Surveys*, J. L. Caswell & R. F. Haynes, **77**, 257.
- Dewdney, P. E., *Equilibrium Models of Neutral Atomic Zones Around H II Regions*, P. E. Dewdney & R. S. Roger, **77**, 258.
- Duncan, Martin J., *Computer Simulations of the Dynamical Evolution of Stellar Systems*, **77**, 264.
- Feldman, P. A., *Limits to Interstellar SiN*, P. A. Feldman, H. E. Matthews, M. B. Bell, G. Herzberg, S. Saito, Y. Endo & E. Hirota, **77**, 258.
- FitzGerald, M. Pim, *The Open Clusters NGC 2287 and NGC 2353*, M. Pim FitzGerald & G. L. H. Harris, **77**, 259.
- Gaizauskas, V., *Optical, Microwave and UV Imagery of a Solar Flare*, V. Gaizauskas, M. R. Kundu, E. J. Schmahl, R. A. Shine & B. E. Woodgate, **77**, 261.
- Gray, David F., *Measurements of Magnetic Fields in Late-Type Dwarfs*, **77**, 256.
- Gregory, P. C., *Precessing Jet Model for the Supernova Remnant G109.1-1.0*, P. C. Gregory & G. G. Fahlman, **77**, 260.
- Hardy, Eduardo, *Field Colour-Magnitude Diagrams in the Large Magellanic Cloud*, Eduardo Hardy & Daniel Durand, **77**, 255.
- Harris, W. E., *The Globular Cluster System in NGC 4594 (The Sombrero Galaxy)*, W. E. Harris, H. C. Harris & G. L. H. Harris, **77**, 254.
- Globular Cluster Systems in Two Field Galaxies*, W. E. Harris & D. A. Hanes, **77**, 258.
- Hesser, J. E., *NGC 5128 — The Globular Cluster System*, J. E. Hesser, H. C. Harris, S. van den Bergh & G. L. H. Harris, **77**, 259.
- The Spectroscopy of Subgiants in NGC 5139 ( $\omega$ Centauri)*, J. E. Hesser, R. A. Bell, G. L. H. Harris & R. D. Cannon, **77**, 259.
- Higgs, L. A., *Radio Observations of the Gamma-Cygni Nebula*, L. A. Higgs & T. L. Landecker, **77**, 259.
- Jewison, Michael S., *Spectropolarimetry of the Semi-Regular Variable V CVn*, Michael S. Jewison, L. A. Tomaszewski & J. D. Landstreet, **77**, 256.
- Kennedy, J. E., *Recognition of the Scientific Work of Balfour Currie and Frank Davies*, **77**, 256.
- Kuiper, E. N. Rodriguez, *On the Excitation of Water in Ori MC1*, E. N. Rodriguez Kuiper & T. B. H. Kuiper, **77**, 260.
- Kuiper, T. B. H., *183 GHz Water Line Variation in Orion*, T. B. H. Kuiper, D. F. Dickinson, M. J. Klein, P. N. Swanson & P. Zimmerman, **77**, 255.
- Kwok, Sun, *GL 618 — The Missing Link Between Red Giants and Planetary Nebulae?*, **77**, 263.
- Landecker, T. L., *A Survey of the Cygnus-X Region in the H166 $\alpha$  Recombination Line*, **77**, 264.
- Lo, W. F., *A Digital Cross-Correlation Receiver for a Synthesis Radio Telescope*, W. F. Lo, D. Routledge, J. F. Vaneldik, P. E. Dewdney & T. L. Landecker, **77**, 263.
- Marchildon, L., *Constraints on the Generalization of Lorentz Transforms to Superluminal Speeds*, L. Marchildon, A. F. Antippa & A. E. Everett, **77**, 264.
- Matthews, J. M., *A Two-Channel Astronomical Photometer*, J. M. Matthews, W. H. Wehlau & G. R. Symonds, **77**, 260.
- McClure, R. D., *CCD Photometry of NGC 2257 in the Large Magellanic Cloud*, R. D. McClure & J. E. Hesser, **77**, 258.
- McCutcheon, W. H., *CO Distribution Along the Southern Galactic Plane*, W. H. McCutcheon, B. J. Robinson, R. N. Manchester & J. B. Whiteoak, **77**, 262.
- Millward, G. G., *A Recalibration of the H $\gamma$  Absolute Magnitude Relation with High Signal-to-Noise Reticon Spectra*, G. G. Millward & G. A. H. Walker, **77**, 255.
- Morris, Steven, *The UVRI Light-Curve of FK Comae Berenices*, **77**, 264.
- Naylor, David A., *The Design of a Fourier Transform Spectrometer for High Resolution Infrared Studies of H II Regions*, David A. Naylor, John M. Hoogerdijk & Pierre F. Gauthier, **77**, 265.
- Ninkov, Zoran, *Observations of the Nuclear Region of NGC 2903*, **77**, 254.
- Percy, John R., *Photometric Variability of B and A Type Supergiants*, John R. Percy & Douglas L. Welch, **77**, 263.
- Pineault, Serge, *A New Look at Pulsar Statistics*, **77**, 257.
- Poll, J. D., *Collision-Induced Absorption in the Far Infrared Spectrum of Titan*, J. D. Poll, J. L. Hunt, D. Goorvitch & R. H. Tipping, **77**, 257.
- Purton, C. R., *Radio Brightening of HM Sagittae*, C. R. Purton, Sun Kwok & P. A. Feldman, **77**, 256.
- Reed, B. Cameron, *The Distribution of Luminous Stars at ( $l, b$ ) = (245, 0) in Puppis*, B. Cameron Reed & M. Pim FitzGerald, **77**, 265.
- Richer, Harvey B., *Deep CCD Photometry of the Globular Cluster M4*, Harvey B. Richer & Gregory G. Fahlman, **77**, 257.
- Scarfe, C. D., *The Duration of Totality in U Cephei*, C. D. Scarfe & P. A. Delaney, **77**, 260.
- Schiller, Stephen, *Photometric Analysis of the Eclipsing Binary DS Andromedae*, Stephen Schiller & E. F. Milone, **77**, 265.
- Tatum, J. B., *The Cyanogen Bands of Comet Halley*, J. B. Tatum, E. C. Campbell & John L. Climenhaga, **77**, 257.
- Taylor, A. R., *Radio Patrol of the Northern Milky Way*, A. R. Taylor & P. C. Gregory, **77**, 262.
- Turner, D. G., *The Young Open Cluster Stock 16, An Example of Star Formation in an Elephant Trunk?*, **77**, 261.
- Vallée, J. P., *Observations Spectrales et Mondelage Physique de L'Object Sharpless No. 121*, **77**, 262.
- Welch, D. L., *JHK Observations of Classical Cepheids and an Improved Calibration of the Infrared Period-Luminosity Relations*, D. L. Welch, F. Wieland, C. W. McAlary, R. McGonegal, B. F. Madore, R. A. McLaren & G. Nuegebauer, **77**, 261.

### 1984 Meeting at the National Research Council, Ottawa, Ontario

Ahern, F. J., *Digital Image Analysis for Astronomy*, **78**, 200.



- Aikman, G. C. L., *The Binary Frequency of CN Stars*, G. C. L. Aikman & R. D. McClure, **78**, 205.
- Anderson, Per H., *Microturbulence in Main Sequence Stars*, Per H. Anderson & Ian D. Cameron, **78**, 205.
- Fireball of 8 January 1984*, Per H. Anderson, Ian D. Cameron & David Weinrich, **78**, 205.
- Arsenault, Robin, *Velocity Dispersion in Giant Extragalactic H II Regions*, Robin Arsenault & Jean-René Roy, **78**, 208.
- Bastien, Pierre, *Simultaneous Photometric and Polarimetric Observations of Four T Tauri Stars*, Pierre Bastien & A. Le Van Suu, **78**, 206.
- Beltrami, H., *Non-Axisymmetric Collapse and Explosion of Rapidly Rotating Objects*, H. Beltrami & W. Y. Chau, **78**, 212.
- Bietenholz, M. F., *Is There Really a Large Scale Geometric Anisotropy in Extragalactic Radio Sources*, M. F. Bietenholz & P. P. Kronberg, **78**, 203.
- Bolton, C. T., *The Case for a National Facility for Astronomical Image Processing*, **78**, 202.
- Bridle, A. H., *Studies of Extragalactic Sources With the VLA*, **78**, 202.
- Campbell, B., *The Precision Radial-Velocity Search for Low-Mass Companions to Solar-Like Stars*, B. Campbell, G. A. H. Walker & J. Amor, **78**, 206.
- Caswell, J. L., *Galactic H II Regions and Supernova Remnants Near  $\ell = 55^\circ$* , **78**, 202.
- Chau, W. Y., *Galactic Neutrino Haloes*, W. Y. Chau, K. Lake & J. Stone, **78**, 212.
- Christian, C. A., *Progress Report on the CFH Image Processing System*, C. A. Christian & D. Crabtree, **78**, 202.
- Couture, Jean, *A Photographic Study of the Cluster of Galaxies A2052*, Jean Couture & Eduardo Hardy, **78**, 211.
- Demers, S., *NGC 3109 — Photometry of Its Bright Stars*, S. Demers, M. J. Irwin & W. E. Kunkel, **78**, 208.
- Dewdney, P. E., *Enhancements to the Deconvolution Algorithm "CLEAN"*, P. E. Dewdney, D. G. Steer & M. R. Ito, **78**, 201.
- Observations of the H II Region, S142, in H I — Line and Continuum*, P. E. Dewdney, L. A. Higgs, G. Joncas & J.-R. Roy, **78**, 208.
- Duncan, M. J., *Simulations of Galactic Cannibalism and Multiple Mergers*, **78**, 212.
- Durant, Daniel, *A Two-Dimensional Photon-Counting Camera for Low-Flux Astronomical Applications*, Daniel Durant & Eduardo Hardy, **78**, 214.
- Duric, Nebojsa, *A Theoretical Formulation of the Radio Surface-Brightness-Diameter Relation for SNR*, Nebojsa Duric & E. R. Seaquist, **78**, 209.
- Dyer, Charles C., *Image Separation Statics for Multiply Imaged Quasars*, **78**, 214.
- Forbes, Douglas, *The Molecular Cloud Associated With W50 and SS 433*, **78**, 210.
- Glaspey, J., *sdO Stars in Globular Clusters*, **78**, 208.
- Gray, D. F., *Is the Rotation of the Sun Normal?*, **78**, 203.
- Inferred Properties of Stellar Granulation*, D. F. Gray & C. G. Toner, **78**, 206.
- Grey, Mary, *Communing With the Heavens*, **78**, 214.
- Harris, W. E., *A CCD Colour-Magnitude Diagram to  $V = 25$  for the Metal-Rich Globular Cluster 47 Tuc*, W. E. Harris & J. E. Hesser, **78**, 201.
- Hayes, Jeffery J. E., *Observable Parameters Using N-Body Models of Kalnajs  $\Omega$  Disks*, Jeffery J. E. Hayes & Neil F. Comins, **78**, 212.
- Hellaby, Charles, *The Red-Shift Structure of the Big Bang in Inhomogeneous Cosmological Models*, Charles Hellaby & Kayll Lake, **78**, 213.
- Higgs, L. A., *The Nature of BG2107+49 — Galactic or Extragalactic?*, L. A. Higgs, J. P. Vallée & J. S. Albinson, **78**, 209.
- Hodgson, John H., *The Early History of the Dominion Observatories*, **78**, 200.
- Joncas, G., *Kinematics and Dynamics of the H II Region S142: The Velocity Field of the Ionized Hydrogen*, G. Joncas & J.-R. Roy, **78**, 209.
- Kennedy, J. E., *Standardization of Early Surveying Instruments*, **78**, 200.
- Kronberg, P. P., *The NRAO-AIPS Based Image-Processing Station at the University of Toronto*, **78**, 201.
- A First Look at the Engine Room in the Nucleus of an Active Galaxy*, P. P. Kronberg, R. A. Sramek & P. Biermann, **78**, 203.
- Landecker, T. L., *High-Resolution Radio Observations of the Supernova Remnants CTB 104A (G94.3-0.3) and 3C 434.1 (G94.0+1.0)*, T. L. Landecker, L. A. Higgs & R. S. Roger, **78**, 210.
- Leahy, D. A., *X-Ray Observations of the Supernova Remnant HB3*, **78**, 210.
- MacRae, Donald A., *Commemorating the Toronto Observatory of 1840*, **78**, 201.
- Michaud, G., *Diffusion-Induced Hydrogen Burning in White Dwarfs*, G. Michaud & G. Fontaine, **78**, 204.
- Millman, Peter M., *Early Canadian Observatories*, **78**, 201.
- Mitalas, R., *Unconventional  $^{12}\text{C}$  Production*, **78**, 213.
- Mitchell, George F., *Sulphur Chemistry in a Shocked Interstellar Cloud*, **78**, 210.
- Moffat, Anthony F. J., *The Latest Stage in the Evolution of a Very Massive Star*, **78**, 203.
- Naylor, David A., *Far Infrared Maps of M42 — Deconvolution By Maximum Entropy*, **78**, 211.
- Nelson, L. A., *Evolution of a Distorted Low-Mass Close Binary System Driven By Gravitational Radiation Losses: Implications for the Minimum Period of Cataclysmic Variables*, L. A. Nelson & W. Y. Chau, **78**, 213.
- Noreau, Louis, *A Detailed Study of a Peculiar Galaxy Pair Arp 205*, Louis Noreau & Philip P. Kronberg, **78**, 204.
- Parker, Eugene, *The Rapid Dissipation of Magnetic Fields With Internal Strains*, **78**, 205.
- Percy, John R., *The Quasi-Cepheid Nature of  $\rho$  Cassiopeiae*, John R. Percy & David Keith, **78**, 206.

- Pineault, Serge, *Le Disque D'Accrétion de LMC X-3*, **78**, 206.
- Pritchett, C., *Spectrophotometry of Emission Nebulae in the 5000-6000 Å Spectral Region*, C. Pritchett & C. Grillmair, **78**, 209.
- Reed, B. C., *The Stellar Distribution in Puppis*, **78**, 208.
- Robinson, B. J., *Distribution of CO in the Galaxy,  $\ell = 294^\circ$  to  $\ell = 86^\circ$* , B. J. Robinson, R. N. Manchester, J. B. Whiteoak, D. B. Sanders, N. Z. Scoville, D. P. Clemens, W. H. McCutcheon & P. M. Solomon, **78**, 211.
- Rusk, R. E., *The Polarization Properties of Compact Radio Sources*, **78**, 204.
- Seaquist, E. R., *A Radio Survey of Symbiotic Stars*, E. R. Seaquist & A. R. Taylor, **78**, 207.
- Stagg, Christopher, *Short Term Photometric Variability in Southern Be Stars*, **78**, 207.
- Taylor, A. R., *Radio Emission from Symbiotic Stars: A Binary Model*, A. R. Taylor & E. R. Seaquist, **78**, 207.
- Vallée, J. P., *Recherche Observationnelle d'une Emission Radio Fortement Polarisée d'une Intelligence Extraterrestre*, J. P. Vallée & M. Simard-Normandin, **78**, 210.
- VandenBerg, D. A., *Stellar Evolutionary Sequences and Isochrones for Intermediate-Age Star Clusters*, **78**, 213.
- Varshni, Y. P., *The Quasar 0805+046 As a Helium-Rich Shell Star*, **78**, 211.
- Welch, D. L., *Cephei Radii from Infrared Photometry*, D. L. Welch & N. R. Evans, **78**, 207.

### 1985 Meeting at the University of Toronto, Toronto, Ontario

- Aikman, G. C. L., *Near-Nucleus Activity in Six Comets*, G. C. L. Aikman, B. A. Goldberg, I. Halliday, B. A. McIntosh & A. F. Cook, **79**, 234.
- Bastien, P., *The Extreme Runaway Wolf-Rayet Binary System HD 197406: Is The Secondary a Black Hole?*, P. Bastien, L. Drissen, R. Lamontagne & A. F. J. Moffat, **79**, 231.
- Bergeron, P., *Radiative Forces, Mass Loss, and Metal Abundances in sdB Stars*, P. Bergeron, G. Michaud, F. Wesemael & G. Fontaine, **79**, 234.
- Bishop, R. L., *Free Fall: A Central but Often-Misunderstood Concept in Astronomy*, **79**, 230.
- Bois, B., *A Spectroscopic Analysis of the Eclipsing Binary V471 Tau*, B. Bois, S. W. Mochnacki & H. H. Lanning, **79**, 235.
- Bridle, Alan H., *The Three Parallel Radio Sources in the Field of 3C 130*, **79**, 232.
- Brotten, N. W., *Observations of Rotation Measure and Magnetic Field Excesses in a Cluster of Galaxies*, N. W. Brotten, J. P. Vallée & J. M. MacLeod, **79**, 235.
- Campbell, Bruce, *Strong Cyanogen Stars: The Result of Binary Coalescence?*, **79**, 232.
- Clarke, T. R., *Post-Secondary Usage of the McLaughlin Planetarium*, **79**, 230.
- Clement, C. M., *Variable Stars in the Unusual Globular Cluster NGC 2808*, C. M. Clement, B. H. E. Stekelenburg & M. L. Hazen-Liller, **79**, 235.
- Clement, Maurice J., *A Set of Basis Vectors for Variational Calculation of the Normal Modes of Rapidly Rotating Stellar Models*, **79**, 236.
- Demers, S., *Survey of Subluminous Blue Stars in the Southern Hemisphere*, S. Demers, M. J. Irwin, D. Nithakorn, F. Wesemael & G. Fontaine, **79**, 236.
- Dewdney, P. E., *H I — Line and Continuum Observations of the Cep OB3 Region*, **79**, 236.
- Duncan, Martin, *Encounters Between the Solar System and Giant Molecular Clouds*, **79**, 232.
- Feldman, P. A., *Detection of Radio Emission from UZ Lib, An FK Comae-Like Star*, **79**, 233.
- Fontaine, G., *Physical Processes in White Dwarfs: A Review*, **79**, 230.
- Fullerton, A. W., *The Early-Type Variable Star V986 Ophiuchi*, A. W. Fullerton, C. T. Bolton & G. Donald Penrod, **79**, 236.
- Garrison, R. F., *The Need for Faint MK Standard Stars*, **79**, 233.
- Gies, D. R., *The Binary Frequency of OB Runaway Stars*, D. R. Gies & C. T. Bolton, **79**, 233.
- Gray, David F., *Magnetic Fields in Cool Stars: A Universal Magnetic Constant*, **79**, 234.
- Gray, Richard O., *Is Vega a Rapid Rotator Seen Pole On?*, **79**, 237.
- Grey, Mary W., *Astronomy Activities at the National Museum of Science and Technology*, **79**, 230.
- Hesser, J. E., *CCD Photometry of the E3 Star Cluster: Evidence for Main Sequence Binaries in a Globular Cluster?*, J. E. Hesser, R. D. McClure, P. B. Stetson & L. L. Stryker, **79**, 237.
- Higgs, L. A., *Radio Observations of the H II Region S121 and Its Surroundings*, L. A. Higgs & J. P. Vallée, **79**, 237.
- Hughes, V. A., *The Protostars in Cep A*, **79**, 238.
- Jeffers, S., *On the Wavelength Dependence of Atmospheric Extinction*, S. Jeffers & T. Stiff, **79**, 238.
- Kennedy, J. E., *Instructional Materials for a Course in the History of Astronomy*, **79**, 231.
- Kim, K. T., *L-Band Polarization Observations of the Coma Cluster of Galaxies*, K. T. Kim, P. E. Dewdney, P. P. Kronberg & T. L. Landecker, **79**, 238.
- Kwok, S., *On the Energetics of High-Velocity Molecular Flows*, S. Kwok & K. Volk, **79**, 238.
- Landecker, T. L., *VRO 42.05.01 — A Supernova Remnant Interacting with the Multi-Component Interstellar Medium*, T. L. Landecker, S. Pineault, D. Routledge, C. Pritchett & J. F. Vaneldik, **79**, 240.
- Leahy, D. A., *Iron Line Emission from GX301-2*, D. A. Leahy, N. Kawai, K. Koyama, F. Makino & M. Matsuoka, **79**, 240.
- Legg, T. H., *Holographic Measurements of the ARO 46-m Telescope with Changing Zenith Angle*, T. H. Legg, L. W. Avery, H. E. Matthews & J. Vallée, **79**, 241.
- Leonard, Peter J. T., *Estimated Companion Characteristics of Some Classical Cepheids Using a Photometric Method*, Peter J. T.

- Leonard & David G. Turner, **79**, 241.
- Matthews, J. M., *HR 5156: A New Rapidly Oscillating Ap Star?*, J. M. Matthews & W. H. Wehlau, **79**, 239.
- McCall, M. L., *The Chemistry of Nova Cygni 1975*, **79**, 241.
- McCutcheon, W. H., *The Lynds 204 Complex — Magnetic Field Controlled Evolution?*, W. H. McCutcheon, F. J. Vrba, R. L. Dickman & D. P. Clemens, **79**, 239.
- McGregor, Ian G., *Before the Deluge: Getting Ready for Comet Halley*, **79**, 231.
- Millman, P. M., *D. D. O. Reminiscences, 1933-1941*, **79**, 245.
- Mochnecki, S. W., *Spectrophotometry of Contact Binary Stars: Comparison with the Praesepe Main Sequence*, **79**, 242.
- Moffat, J. W., *NY Cep (HD 217312) as a Test of Relativistic Apical Motion*, **79**, 239.
- Nelson, L. A., *On the Structure and Evolution of Very Low-Mass Stars and the Nature of VB 8B*, L. A. Nelson, S. A. Rappaport & P. C. Joss, **79**, 242.
- Noreau, Louis, *The Star-Burst in NGC 3448*, Louis Noreau & Philipp P. Kronberg, **79**, 239.
- Percy, J. R., *Resource Material for the Teaching of Astronomy*, **79**, 231.
- The Photometric Variability of  $\epsilon$  Persei: 1984 Campaign Results*, J. R. Percy & A. W. Fullerton, **79**, 242.
- Pineault, S., *The Radio Luminosity and Magnetic Field of Pulsars*, **79**, 240.
- Pritchett, C., *The Globular Cluster System Surrounding the Elliptical Galaxy NGC 3379*, C. Pritchett & S. van den Bergh, **79**, 240.
- Purton, C. R., *Search for Dwarf Irregular Galaxies in Nearby Groups*, C. R. Purton, K. A. Innanen & K. A. Papp, **79**, 246.
- Redman, R. O., *The Thermal and Density Structure of the Molecular Gas Around LkH $\alpha$  101*, **79**, 242.
- Robb, R. M., *Observations of Nova Vulpeculae 1984 No. 1*, R. M. Robb, C. D. Scarfe & L. B. G. Knee, **79**, 243.
- Roger, R. S., *The Role of the Interstellar Magnetic Field in the Expansion of the High-Latitude SNR G296.5+9.7*, R. S. Roger, D. K. Milne, M. J. Kestevan, K. J. Wellington & R. F. Haynes, **79**, 243.
- Routledge, D., *The Supernova Remnant OA 184 and Associated HI*, D. Routledge, T. L. Landecker & J. F. Vaneldik, **79**, 243.
- Rucinski, S. M., *IRAS Observations of T Tauri and Post-T Tauri Stars*, **79**, 245.
- Rusk, R. E., *A Survey of Radio Sources with Compact Cores*, **79**, 246.
- Seaquist, E. R., *New Radio Studies of Ionized Gas in M82*, E. R. Seaquist, M. B. Bell & R. C. Bignell, **79**, 246.
- Stagg, C. R., *The International Campaign on O And, KX And, KY And, LQ And and EW Lac — Preliminary Report*, C. R. Stagg, H. Bozic, A. Fullerton, W. S. Gao, Z. H. Guo, P. Harmanec, J. Horn, L. Huang, P. Koubsky, K. Pavlovski, J. R. Percy, F. Schmidt & S. Stefl, **79**, 243.
- Toner, C. G., *Rotation Velocities of Higher Luminosity-Class Stars*, C. G. Toner & David F. Gray, **79**, 244.
- Turner, D. G., *Astronomy in Nova Scotia High Schools*, **79**, 231.
- The Nature of the Long-Period Cepheids S Vulpeculae*, **79**, 247.
- Vallée, J. P., *Rapport Entre le Gaz Neutre HI et le Magnétisme dan les Galaxies Spirales*, **79**, 244.
- Vandenberg, D. A., *The Ages of Globular Clusters from Stellar Models*, **79**, 230.
- Volk, K., *Dynamical Evolution of Planetary Nebulae*, K. Volk & S. Kwok, **79**, 247.
- Wehlau, A., *The Distribution of Cepheids Among Globular Clusters*, A. Wehlau & Horace Smith, **79**, 244.

### 1986 Meeting at the Dominion Radio Astrophysical Observatory, Penticton, British Columbia

- Aaquist, O. B., *Visibility Analysis of Compact Nebulae*, O. B. Aaquist & Sun Kwok, **80**, 283.
- Bastien, P., *Detection of Circular Polarization in T Tauri Stars*, P. Bastien & R. Nadeau, **80**, 273.
- Polarization Observations of Comet P/Halley*, P. Bastien, L. Drissen, F. Ménard, N. St.-Louis & R. Nadeau, **80**, 276.
- Batten, A. H., *A Revised Spectroscopic Orbit for RR Ursae Minoris*, A. H. Batten & J. M. Fletcher, **80**, 269.
- Bohlender, David A., *Spectral Variations in the Peculiar Helium-Strong Star HD 37776*, David A. Bohlender & John D. Landstreet, **80**, 279.
- Boreiko, R. T., *Balloon-Borne Measurements of Solar Brightness Temperature and High-n Recombination Lines from Hydrogen, Magnesium, and Silicon at Far-IR Wavelengths*, R. T. Boreiko & T. A. Clarke, **80**, 275.
- Campbell, Bruce, *Towards the Detection of Sub-Stellar Mass Companions to Solar-Type Stars*, Bruce Campbell, G. A. H. Walker, S. Yang & R. Pyke, **80**, 272.
- Carlberg, R. G., *The Local Circular Velocity of the Galaxy Estimated From Plunging Disk Stars*, R. G. Carlberg & K. A. Innanen, **80**, 272.
- Chan, K. L., *Multigrid, Particle-Mesh Scheme for N-Body Simulation*, K. L. Chan, W. Y. Chau, C. Jessop, M. Jorgenson & W. D. Gruppp, **80**, 279.
- Croes, G. A., *"MAD" at DRAO*, G. A. Croes & L. A. Higgs, **80**, 282.
- Davidge, T. J., *Preliminary Results of the UBV Photometry of Selected Eclipsing Binaries in the Magellanic Clouds*, **80**, 283.
- Drissen, L., *Variability of Wolf-Rayet Stars in Linear Polarization*, L. Drissen, N. St.-Louis, C. Robert, A. F. J. Moffat & P. Bastien, **80**, 271.
- Duric, N., *Two-Epoch VLA Observations of Galactic-Plane Radio Sources*, N. Duric & P. C. Gregory, **80**, 285.
- Fernie, J. D., *The Historical Colour and Magnitude of Sirius*, **80**, 269.
- Forbes, D., *The Helium Abundance of B Stars in Young Open Clusters*, D. Forbes & E. G. Schmidt, **80**, 285.

- Galt, J. A., *Comet Halley Observations at the 1.667 GHz OH Line*, **80**, 284.
- Gill, A. G., *Simulations of Extragalactic Radio Jets*, **80**, 284.
- Goldberg, B. A., *2-D Spectrophotometry of the Near-Nucleus Regions of Comets*, B. A. Goldberg, G. C. L. Aikman, I. Halliday, B. A. McIntosh & A. F. Cook, **80**, 280.
- Gregory, P. C., *Galactic Radio Patrol: Progress and New Horizons*, **80**, 278.
- Higgs, L. A., *3C 428: A Neglected 3C Source*, L. A. Higgs & J. P. Vallée, **80**, 277.
- Hill, G. M., *The  $M_V$ - $W(H\delta)$  Relation for O, B, and A Supergiants Recalibrated with High-Signal-to-Noise Reticon Spectra*, G. M. Hill, G. A. H. Walker & S. Yang, **80**, 275.
- Hill, Robert J., *The Membership of the Scorpio-Centaurus Association*, Robert J. Hill & J. D. Landstreet, **80**, 270.
- Holmgren, D., *The Spectroscopic Orbit of V451 Ophiuchi*, **80**, 279.
- Hrivnak, B. J., *Identification of Cool IRAS Sources*, B. J. Hrivnak, Sun Kwok & B. T. Boreiko, **80**, 277.
- Hughes, V. A., *Radio Emission from FK Comae*, V. A. Hughes & B. J. McLean, **80**, 272.
- Irwin, J. A., *The NGC 3079/3073 Interacting System*, J. A. Irwin, E. R. Seaquist, N. Duric & A. R. Taylor, **80**, 285.
- Karpa, D. R., *A Wide-Band, Large-Field Correlator for the DRAO Aperture Synthesis Telescope*, D. R. Karpa, J. F. Vaneldik, D. Routledge, P. Dewdney & T. Landecker, **80**, 281.
- Kindl, E., *Isophote Photometry of Compact Groups of Galaxies*, E. Kindl, P. Hickson & R. Scharein, **80**, 281.
- Krelowski, J., *Unusual Relative Strengths of the Diffuse Interstellar Bands in Some Interstellar Dust Clouds*, J. Krelowski & G. A. H. Walker, **80**, 274.
- Kwok, Sun, *The Identification and Observations of Proto-Planetary Nebulae*, **80**, 267.
- Leahy, D. A., *X-Ray Production Mechanisms in CH Cyg*, D. A. Leahy & A. R. Taylor, **80**, 270.
- Optical and Infrared Observations of CH Cyg*, D. A. Leahy & E. F. Milone, **80**, 281.
- Leonard, Peter J. T., *Star Counts in the Open Cluster NGC 2420*, **80**, 278.
- Ménard, F., *A Polarization Outburst in the T Tauri Star UY Aurigae*, F. Ménard & P. Bastien, **80**, 273.
- Matthews, J. M., *The Rich P-Mode Pulsation Spectrum of the Rapidly Oscillating Ap Star HD 60435*, J. M. Matthews, D. W. Kurtz & W. H. Wehlau, **80**, 277.
- McCall, M. L., *A New View of the Galactic Neighbourhood*, **80**, 271.
- Milone, E. F., *The IRT and RADS-III — New Developments at the Rothney Astrophysical Observatory*, E. F. Milone, T. A. Clark, T. Emar & F. M. Babott, **80**, 269.
- Mitchell, G. F., *Chemistry in the Interstellar Gas*, **80**, 266.
- Morton, Donald C., *Interstellar Absorption Lines in the Directions of Extragalactic Objects*, Donald C. Morton & J. C. Blades, **80**, 280.
- Naylor, David A., *Search for Parent-Molecule Line-Emission from Comet Halley with a High-Resolution Astronomical Infrared Fourier-Transform Spectrometry*, David A. Naylor, Arvid A. Shultz & T. Alan Clark, **80**, 278.
- Percy, J. R., *Visual and Photoelectric Photometry of P Cygni*, J. R. Percy, A. E. Napke, M. G. Richer, P. Harmanec, J. Horn, P. Koubský, S. Kříž, H. Bozic, W. E. Clark, H. J. Landis, R. Milton, R. C. Reisenweber & E. Zsoldos, **80**, 270.
- Perley, R. A., *Magnetic Fields in Cluster Gas Surrounding Cygnus A*, R. A. Perley, J. W. Dreher & C. L. Carilli, **80**, 268.
- Pineault, S., *Planetary Life in a Wide Binary System Containing a Degenerate Star*, **80**, 268.
- Pipher, J. L., *Infrared Astronomical Imaging*, **80**, 266.
- Pritchett, C., *The Extragalactic Distance Scale — A Fresh Attack With Modern Detectors*, **80**, 266.
- Purton, C. R., *The DRAO Galactic Plane Survey*, **80**, 285.
- Robb, R., *The Climenhaga Observatory Semi-Automatic Telescope*, R. Robb, E. Ackroyd, N. Honkanen & C. Scarfe, **80**, 274.
- Robert, C., *On the Nature of the Suspected WR + Compact Binary EZ CMa*, C. Robert, L. Drissen, N. St.-Louis, A. F. J. Moffat & R. Bastien, **80**, 271.
- Roger, R. S., *The Formation of H I Dissociation Zones Around Young OB Stars Embedded in Molecular Clouds*, R. S. Roger & P. E. Dewdney, **80**, 283.
- Romalo, D., *A System for Monitoring Radio Frequency Interference*, D. Romalo, M. R. Ito, P. E. Dewdney & T. L. Landecker, **80**, 276.
- Scarfe, C. D., *A New Spectroscopic Orbit of  $\epsilon$  Hydrae A*, **80**, 274.
- Seaquist, E. R., *Evidence for Variable Mass Loss from the Symbiotic Star RX Puppis*, E. R. Seaquist & A. R. Taylor, **80**, 283.
- Shuter, W. L. H., *Comparison of 21 cm and CO Scale Lengths in the Taurus Molecular Complex*, W. L. H. Shuter, C. Klatt & R. L. Dickman, **80**, 273.
- Stiff, T., *Absolute Spectrophotometry of Be and B Stars*, T. Stiff & S. Jeffers, **80**, 286.
- Toner, C. G., *Spectral Line Asymmetries of F and G Ib-Supergiants*, C. G. Toner & David F. Gray, **80**, 284.
- Underhill, A. B., *The Implications of the Composition and Physical State of Wolf-Rayet Atmospheres*, **80**, 268.
- Vallée, J. P., *Atomic Recombination Lines of Carbon and Sulphur: Algonquin Observations and Modelling Analysis*, **80**, 275.
- VandenBerg, D. A., *The Stellar Mass Function in the Solar Neighbourhood*, **80**, 282.
- Vaneldik, J. F., *The Supernova Remnant HB3 at 408 MHz — Is It Interacting With the H II Region W3?*, J. F. Vaneldik, D. Routledge, T. L. Landecker, P. E. Dewdney & B. G. Veidt, **80**, 286.
- Volk, Kevin, *Evolution of the Infrared Spectra of Asymptotic-Giant-Branch Stars*, Kevin Volk & Sun Kwok, **80**, 267.

- Wall, W. F., *Dissociated H<sub>2</sub> Around Two Distant H II Regions*, W. F. Wall, W. H. McCutcheon, P. E. Dewdney & C. R. Purton, **80**, 275.
- Welch, D. L., *The Structure of the SMC*, D. L. Welch, R. A. McLaren, B. F. Madore & C. W. McAlary, **80**, 276.
- Yang, S., *Spectroscopic Observations of  $\delta$  Scuti Stars*, S. Yang, G. A. H. Walker & P. Bennett, **80**, 282.

### 1988 Meeting at Trent University, Peterborough, Ontario

- Anderson, M. D., *Radio Imaging of S183 — H II Region or SNR?*, M. D. Anderson, T. L. Landecker, D. Routledge & J. F. Vaneldik, **82**, 275.
- Anthony, D. M., *Spiral Wave Viscosity in Self-Gravitating Accretion Disks*, D. M. Anthony & R. G. Carlberg, **82**, 284.
- Bastien, P., *Polarimetric Evidence for Circumstellar Disks Around Young Stellar Objects*, P. Bastien & F. Ménard, **82**, 279.
- Bonnell, Ian, *Inclusion of Rotation Into a Two-Dimensional Hydrodynamic Computer Code: Tests and Preliminary Results*, Ian Bonnell & Pierre Bastien, **82**, 283.
- Borra, E. F., *Liquid-Mirror Telescopes: A Progress Report*, E. F. Borra & R. Content, **82**, 286.
- Chan, S. Josephine, *On the Origin of Carbon Stars*, S. Josephine Chan & Sun Kwok, **82**, 287.
- Clement, Maurice J., *Nonaxisymmetric Normal Modes in Rotating Upper Main Sequence Stars*, **82**, 286.
- Couture, Jean, *Spectroscopic Observations of Magnesium Absorption Gradients in Six Elliptical Galaxies*, Jean Couture & Eduardo Hardy, **82**, 277.
- Cunningham, C. C., *A Diurnally Changing Cloud on Jupiter*, **82**, 284.
- Cunningham, Clifford, *The Anomalous Brightening of 2060 Chiron in Early 1988: CCD Observations*, **82**, 286.
- Davidge, T. J., *Asymptotic Giant Branch Stars in DDO 66*, T. J. Davidge & J. Jones, **82**, 273.
- Dawson, Peter C., *LHS 209: A Cool Subdwarf of Extreme Space Velocity*, Peter C. Dawson & M. M. De Robertis, **82**, 278.
- De Robertis, M. M., *Kinematics of the Narrow-Line Region in Active Galaxies*, M. M. De Robertis & R. A. Shaw, **82**, 287.
- Dewdney, P. E., *Atomic Hydrogen Near Dissociating Stars — A Prototype*, P. E. Dewdney, R. S. Roger, W. H. McCutcheon & C. R. Purton, **82**, 276.
- Duley, W. W., *Visible and Infrared Emission Excesses and Amorphous Carbon Dust in the ISM*, **82**, 283.
- Evans, N. R., *Cepheid Binaries With Large Mass Ratios ( $m_1/m_2$ )*, **82**, 281.
- Forbes, D., *The Serpens OB2 Association — Lighting the Fire Under “Stock’s Chimney”*, **82**, 275.
- Gaetz, T. J., *An Average Charge Model for Time-Dependent Radiative Cooling*, **82**, 280.
- Gaizauskas, V., *Digital Processing of Solar Time-Lapse Photographs*, V. Gaizauskas & M. Proulx, **82**, 285.
- Galt, John, *A Search for 1.612 GHz OH Emission from IRAS Sources*, John Galt & Sun Kwok, **82**, 276.
- Garrison, R. F., *Supernova Shelton: The Spectral Sequence*, R. F. Garrison & Ian Shelton, **82**, 279.
- Groisman, G., *The Shallow Contact System Binary TY Bootis*, G. Groisman, E. F. Milone & David H. Bradstreet, **82**, 282.
- Hanes, David A., *Globular Clusters in Interacting Galaxies: NGC 1549/1553*, David A. Hanes & Terry J. Bridges, **82**, 283.
- Henriksen, R. N., *Self-Similar Spiral Density Waves*, R. N. Henriksen & C. Loken, **82**, 284.
- Hesser, J. E., *2D-FRUITI Spectroscopy of 47 Tuc Subgiants*, J. E. Hesser, G. H. Smith & R. A. Bell, **82**, 273.
- Higgs, L. A., *A New Variable Radio Source in Cygnus*, L. A. Higgs, T. L. Landecker & H. J. Wendker, **82**, 286.
- Innanen, K. A., *The Stability of Saturnian “Trojans”*, K. A. Innanen & Seppo Mikkola, **82**, 287.
- Joncas, G., *Multi-Line Observations and Analysis of the IRAS Data of the S247/5252 Gas Complex*, G. Joncas, C. Koempe, A. Beaudry & J. De La No, **82**, 274.
- Kwok, Sun, *Proto-Planetary Nebulae*, Sun Kwok, Bruce J. Hrivnak & Kevin M. Volk, **82**, 288.
- Landecker, T. L., *G65.1+0.6 — A New Supernova Remnant Detected in the DRAO Galactic Plane Survey*, T. L. Landecker & C. H. Costain, **82**, 274.
- Leahy, D. A., *Application of Polar Cap Emission Models to Observed X-Ray Pulsar Pulse Profiles*, **82**, 277.
- Matthews, J. M., *A Possible Mechanism for Exciting Pulsation in Cool Ap Stars*, **82**, 278.
- Nadeau, D., *An Infrared Camera Project*, D. Nadeau, P. Bastien, S. Demers, A. F. J. Moffat & H. K. C. Yee, **82**, 278.
- Noreau, Louis, *A New VLA Search for Cosmological HI at  $z = 3.3$* , Louis Noreau & Eduardo Hardy, **82**, 277.
- Percy, J. R., *Studies of Red Variable Stars*, J. R. Percy, E. C. Campbell, W. B. Sloan, H. J. Landis & J. A. Mattei, **82**, 282.
- Pineault, Serge, *Encounters Between Degenerate Stars and Extra-Solar Comet Clouds*, **82**, 281.
- Purton, C. R., *A Wind Blown Bubble Associated With the Wolf-Rayet Star HD 197406*, C. R. Purton, G. Dubner, V. Niemela & P. Durrell, **82**, 275.
- Reed, L. G., *A Search for Multiple Periods in Three Delta Scuti Stars*, L. G. Reed & Gary A. Welch, **82**, 282.
- Rice, J. B., *Mapping Stars by Doppler Imaging*, J. B. Rice, W. H. Wehlau & V. L. Khokhlova, **82**, 279.
- Roy, Jean-René, *Multi-Object Spectrophotometry of H II Regions in the Galaxy NGC 2997*, Jean-René Roy & Jeremy R. Walsh, **82**, 280.
- Sasselov, D. D., *Peculiar Velocity Structure in a Cepheid Atmosphere*, D. D. Sasselov, J. B. Lester & M. S. Fieldus, **82**, 281.
- Scarfe, C. D., *A New Orbit for the Double-Lined Binary HD 8997*, **82**, 274.
- Slawson, Robert W., *OB Associations in Vela at  $(\ell, b) = (268^\circ, 0^\circ)$* , Robert W. Slawson & B. Cameron Reed, **82**, 276.
- Tapping, K. F., *The Origins of the 10.7 cm Solar Flux*, K. F. Tapping & V. Gaizauskas, **82**, 280.
- Taylor, A. R., *VLA Observations of Circumnebular Neutral Hydrogen in IC 418*, A. R. Taylor, G. T. Gussie & W. M. Goss, **82**, 276.

- Turner, D. G., *A New Pulsational Radius for  $\delta$  Cephei*, **82**, 278.  
 Willis, A. G., *DRAO Observations of Supernova Remnant S147*, A. G. Willis & T. L. Landecker, **82**, 285.  
 Yee, H. K. C., *The Gravitational Lens System 2237+030*, H. K. C. Yee & M. M. De Robertis, **82**, 274.

### 1989 Meeting at the Université de Montréal, Montréal, Québec

- Aaquist, O., *Six Centimetre VLA Radio Survey of Compact Planetary Nebulae*, O. Aaquist & S. Kwok, **83**, 302.  
 Aitken, G. J. M., *Diffraction-Limited Stellar Imaging at Low Photon Rates: A Progress Report*, G. J. M. Aitken, R. Johnson & J. Meng, **83**, 303.  
 Asselin, L., *The Circumstellar Environment of Two Young Stars in Cassiopeia*, L. Asselin, F. Ménard, P. Bastien & L. Turbide, **83**, 303.  
 Bastien, P., *Linear Polarization Maps of Three Molecular Clouds*, P. Bastien, A. A. Goodman, P. C. Myers & F. Ménard, **83**, 298.  
 Beauchamp, A., *L'Étoile à Carbone Prés de L'Amas Ouvert NGC 7419*, A. Beauchamp, L. Drissen & A. F. J. Moffat, **83**, 304.  
 Binette, L., *The Spectrum of a Partially Ionized Jet*, L. Binette, A. Raga & J. Cantó, **83**, 299.  
 Blanchard, D. K., *Investigating Large-Scale Structure Using a Thin Lens Impulse Approximation in An Inhomogeneous Cosmological Model*, D. K. Blanchard & C. C. Dyer, **83**, 304.  
 Bohlender, D. A., *The Magnetic Field Geometry of the Helium Strong Star HD 37776*, D. A. Bohlender & J. D. Landstreet, **83**, 300.  
 Bonnell, Ian, *Gravitational Collapse of Rotating Axisymmetric Clouds: The Effects of the Initial Geometry*, Ian Bonnell & Pierre Bastien, **83**, 304.  
 Borra, E. F., *A Diffraction Limited f/2 1.5-metre Diameter Liquid Mirror*, E. F. Borra, R. Content, M. J. Drinkwater & S. Szapiel, **83**, 295.  
 Brassard, P., *Computation of Rotational Frequency-Splitting Carried Out to Second Order in Models of Pulsating DA White Dwarfs*, P. Brassard, F. Wesemael & G. Fontaine, **83**, 323.  
*The Settling of a Debate Over the Usefulness of Pulsations as a Probe of the Outer Layers of White Dwarfs*, P. Brassard, F. Wesemael & G. Fontaine, **83**, 324.  
*Toward An Understanding of Pulsating White Dwarfs Through Synthetic Spectrum Studies*, P. Brassard, F. Wesemael & G. Fontaine, **83**, 324.  
 Côté, P., *A Search for Period Changes in Six NGC 1866 Cepheids*, P. Côté & D. L. Welch, **83**, 305.  
 Côté, Stéphanie, *Kinematical Study and Mass Distribution of the Spiral Galaxy NGC 5585*, Stéphanie Côté, Claude Carignan & Renzo Sancisi, **83**, 305.  
 Caldwell, J. J., *Space Astrophysics Laboratory Institute for Space and Terrestrial Science*, J. J. Caldwell, S. M. Rucinski, N. R. Evans, C. C. Cunningham, R. Wagener, C. Anger, P. A. Delaney & R. N. Halthore, **83**, 326.  
 Carignan, C., *Mass Distribution in Dwarf Irregular Galaxies*, **83**, 300.  
 Chan, S. Josephine, *Evolution of Carbon Stars on the Asymptotic Giant Branch*, S. Josephine Chan & Sun Kwok, **83**, 295.  
 Charbonneau, P., *Transport Processes on the Main Sequence*, P. Charbonneau & G. Michaud, **83**, 296.  
 Chayer, P., *Radiative Levitation and the Abundances of Heavy Elements in Three Hot White Dwarfs*, P. Chayer, G. Fontaine, F. Wesemael & G. Michaud, **83**, 324.  
*Detailed Calculations of Radiative Forces on Metals in the Envelopes and Atmospheres of Hot White Dwarfs*, P. Chayer, P. Bergeron, G. Fontaine & F. Wesemael, **83**, 325.  
 Clark, T. A., *The University of Calgary IR Telescope: Present Status and Future Developments*, T. A. Clark, E. F. Milone, A. R. Taylor, D. J. I. Fry, S. M. Dougherty, D. A. Naylor, F. M. Babott, T. Emard, S. C. Griffiths, K. G. Robinson, E. Zimmer & G. Smith, **83**, 305.  
 Couture, Jean, *Interpretation of Magnesium Gradients in Elliptical Galaxies*, Jean Couture & Eduardo Hardy, **83**, 306.  
 Daou, D., *Spectroscopic Studies and Atmospheric Parameters of ZZ Ceti Stars*, D. Daou, F. Wesemael, P. Bergeron, G. Fontaine & J. B. Holberg, **83**, 306.  
 Davidge, T. J., *Two Micron Spectroscopy of the Nucleus of M32*, **83**, 301.  
 Dewdney, P. E., *An Intermediate Velocity HI Cloud Colliding With HI in the Galactic Plane*, P. E. Dewdney & C. Heiles, **83**, 326.  
 Dinshaw, N., *The RV Variations of Polaris: A Cepheid Leaving the Instability Strip*, N. Dinshaw, J. M. Matthews, G. A. H. Walker & G. Hill, **83**, 316.  
 Dougherty, S. M., *Modelling of the IR to Radio Spectra of Be Stars*, S. M. Dougherty, A. R. Taylor, T. A. Clark & L. B. F. M. Waters, **83**, 307.  
 Drinkwater, Michael, *A Search for "Missing" Dwarf Spiral Galaxies in the Virgo Cluster*, Michael Drinkwater & Eduardo Hardy, **83**, 307.  
 Drissen, L., *Etoiles Wolf-Rayet Dans les Régions H II Géantes de M33*, L. Drissen & A. F. J. Moffat, **83**, 307.  
 Duncan, Martin J., *Dynamical Instabilities in Elliptical Galaxies*, Martin J. Duncan & Harold F. Levison, **83**, 308.  
 Dupuis, J., *Episodic Accretion onto Cool White Dwarfs*, J. Dupuis, C. Pelletier, G. Fontaine & F. Wesemael, **83**, 325.  
*Simulation of the Gravitational Settling of Metals in Cool White Dwarfs*, J. Dupuis, C. Pelletier, G. Fontaine & F. Wesemael, **83**, 326.

- Evans, Nancy Remage, *Cepheid Companions? FM Aql, FN Aql, RX Aur, Y Lac, RS Ori*, Nancy Remage Evans, Laszlo Szabados & Joanna Udalska, **83**, 308.
- Search for Binary Companions of Cepheids Using IUE*, Nancy Remage Evans & Joanna Udalska, **83**, 308.
- The Orbit and Companions of the Classical Cepheid FF Aql*, Nancy Remage Evans, Douglas L. Welch & Colin D. Scarfe, **83**, 309.
- Fischer, P., *The Globular Cluster System of the Edge-On Spiral, NGC 5170*, P. Fischer, J. E. Hesser, H. C. Harris & G. D. Bothun, **83**, 313.
- The Globular Cluster System of the Edge-On Spiral Galaxy NGC 5170*, P. Fischer, J. E. Hesser, H. C. Harris & G. D. Bothun, **83**, 327.
- Gaetz, T. J., *An Improved Charge Moment Method for Time Dependent Radiative Cooling*, **83**, 309.
- Galt, J., *Variations in Polarization of the 1612 MHz OH Lines from IRAS 19566+3423*, J. Galt & Sun Kwok, **83**, 310.
- Gibson, B. K., *The 2.5m UBC/Laval Liquid Mirror Telescope (LMT)*, B. K. Gibson, P. Hickson, E. F. Borra & R. Content, **83**, 310.
- Grandchamps, A., *Détermination de la Période Orbitale du Système Binaire Variable Cataclysmique SU UMa*, A. Grandchamps & A. F. J. Moffat, **83**, 311.
- Gravel, P., *New Linear Polarization Observations of T Tauri Stars*, P. Gravel, P. Bastien & F. Ménard, **83**, 311.
- Gray, David F., *Stellar Activity is Equatorial*, **83**, 298.
- Grondin, L., *Des Étoiles Entre Les Nuages de Magellan*, L. Grondin, S. Demers & W. E. Kunkel, **83**, 311.
- Gulliver, A. F., *Automated Spectral Line Identification*, A. F. Gulliver & J. G. Stadel, **83**, 312.
- Hardy, Eduardo, *The Kinematics of the Small Magellanic Cloud From Its Field Carbon Stars*, Eduardo Hardy, Nicholas B. Suntzeff & Marc Azzopardi, **83**, 312.
- Harvey, K. L., *The 10.7 cm Flux and Solar Magnetic Activity*, K. L. Harvey & K. F. Tapping, **83**, 312.
- Hasegawa, T. I., *Observations of HCO<sup>+</sup> in B335*, T. I. Hasegawa, C. Rogers & S. S. Hayashi, **83**, 313.
- Heiligman, G. M., *Time-Variable Microwave Emission from Interstellar Ionized Helium-3*, G. M. Heiligman, T. B. H. Kuiper & D. G. York, **83**, 314.
- Higgs, L. A., *The Second DRAO Galactic-Plane Survey Field*, L. A. Higgs & G. Joncas, **83**, 313.
- Hughes, V. A., *Variable H II Regions in Cep A*, **83**, 296.
- Irwin, M. J., *Photometric Variations in the Q2237+0305 System: First Detection of a Microlensing Effect*, M. J. Irwin, R. L. Webster, P. C. Hewett, R. T. Corrigan & R. I. Jedrzejewski, **83**, 294.
- Jobin, M., *Surface Photometry, Kinematics and Mass Model of NGC 3109*, M. Jobin & C. Carignan, **83**, 314.
- Joncas, G., *A Multifrequency Study of the S187 Gas Complex*, G. Joncas, D. Durand, C. Kömpe & R. S. Roger, **83**, 297.
- Kenny, H. T., *A Radio Study of the Symbiotic Star AG Pegasi*, H. T. Kenny, A. R. Taylor & E. R. Seaquist, **83**, 314. *AG Pegasi: A Multi-Shell Radio Source*, H. T. Kenny, A. R. Taylor & E. R. Seaquist, **83**, 327.
- Landecker, T. L., *High Resolution Continuum Observations of the Cygnus-X Region at 408 and 1420 MHz*, T. L. Landecker, H. J. Wendker & L. A. Higgs, **83**, 315.
- Landry, Sylvie, *Gamma-Ray Bursts and Optical Flashes from a Neutron Star-Disk System*, Sylvie Landry & Serge Pineault, **83**, 315.
- Leahy, D. A., *A Complete High-Resolution 1420 MHz Map of the SNR G160.9+2.6 (HB9)*, D. A. Leahy & R. S. Roger, **83**, 315.
- Ménard, F., *A Study of the Polarization Caused By Scattering in Dense Circumstellar Dust Shells*, F. Ménard & P. Bastien, **83**, 299.
- Markle, Laura, *The Ellipticity of M31 Globular Clusters*, **83**, 315.
- Martin, P., *The Optical Jet of the Galaxy NGC 4258*, P. Martin, J.-R. Roy, L. Noreau & K.-Y. Lo, **83**, 300.
- Matthews, J. M., *The Unusual Variable HD 96008*, **83**, 298.
- CFHT Radial Velocity Measurements of Rapidly Oscillating Ap Stars*, J. M. Matthews, W. H. Wehlau, G. A. H. Walker & S. Yang, **83**, 302.
- Mayenfisch, P., *Étude des Populations Stellaires de M31 & M32 à L'Aide des Diagrammes Spectraux de Diagnostic dans le Blue*, P. Mayenfisch & E. Hardy, **83**, 316.
- McCutcheon, W. H., *Protostellar Candidates in a Sample of Bright Far-Infrared IRAS Sources*, W. H. McCutcheon, P. E. Dewdney, C. R. Purton & T. Sato, **83**, 299.
- Milone, E. F., *Data Acquisition at the RAO: Light Curves from the Optical and Infrared Telescopes*, E. F. Milone, T. A. Clark, R. M. Babott, D. J. I. Fry, S. C. Griffiths, J. E. Penfold, K. G. Robinson, A. R. Taylor & J. Van Leeuwen, **83**, 317.
- Mitchell, George F., *The Gas Environment of Young Stellar Objects Studied by Infrared Spectroscopy*, George F. Mitchell & Jean-Pierre Maillard, **83**, 317.
- Penfold, Jack, B, V, *I Photometry of V728 Herculis*, Jack Penfold, E. F. Milone, J. A. Van Leeuwen & R. Nelson, **83**, 318.
- Pritchet, C. J., *Globular Clusters in the cD Galaxy NGC 6166*, C. J. Pritchet & W. E. Harris, **83**, 301.
- Pritchet, Chris, *Search for Primeval Galaxies at z = 2*, Chris Pritchet & David Hartwick, **83**, 318.
- Proffitt, Charles R., *Light Element Depletion in Pre-Main Sequence Stars*, Charles R. Proffitt & Georges Michaud, **83**, 296.
- Puche, D., *The Neutral Hydrogen Distribution of the Sculptor Group Galaxies*, D. Puche & C. Carignan, **83**, 300.
- Racine, R., *CFHT Seeing and DAO High Resolution Camera*, R. Racine & R. D. McClure, **83**, 294.

- Globular Clusters and the Distance to the Galactic Centre*, R. Racine & W. E. Harris, **83**, 297.
- Redman, Russell O., *Submillimetre Spectra of Asteroids with the James Clerk Maxwell Telescope: Evidence for Particles of 100-micrometre Size in the Regolith?*, Russell O. Redman, P. A. Feldman, H. E. Matthews, I. Halliday & F. Creutzberg, **83**, 327.
- Riegler, G., *Master Directory of Astronomical Observations*, G. Riegler, J. Weiss & S. Murray, **83**, 295.
- Robert, C., *Ejection de "Blobs" dans le Vent des Étoiles Wolf-Rayet*, C. Robert, A. F. J. Moffat & L. Drissen, **83**, 318.
- Roger, R. S., *The Interaction of the Supernova Remnant HB21 With Its H I and CO Environment*, R. S. Roger, T. L. Landecker, K. Tatematsu & Y. Fukui, **83**, 318.
- Roy, Jean-René, *The Blowout of the Giant H II Region NGC 2363*, Jean-René Roy, J. Boulesteix, Gilles Joncas & B. Grundseth, **83**, 294.
- Rucinski, S. M., *Rotational-Broadening Mapping of Contact Binaries: AW and W UMa*, **83**, 302.
- VRI Photometry of the Young Open Cluster NGC 3293*, S. M. Rucinski & A. Udalski, **83**, 319.
- Sasselov, D. D., *Formaldehyde Mapping of  $\rho$  Oph B1: The Densest Cold Prestellar Core*, D. D. Sasselov & S. M. Rucinski, **83**, 319.
- Seaquist, E. R., *The Tri-University Telescope*, E. R. Seaquist, R. Racine & G. G. Fahlman, **83**, 320.
- Stagg, C. R., *The Eclipsing Binary AI Phoenicis: New Results from an Improved Light Curve Analysis Program*, C. R. Stagg & E. F. Milone, **83**, 320.
- Taylor, A. R., *A Westerbork 327 MHz Survey of the Galactic Plane*, A. R. Taylor, W. M. Goss & P. H. Coleman, **83**, 320.
- Turbide, L., *La Courbe de Rotation de Notre Galaxie à L'Extérieur de L'Orbite Solaire*, L. Turbide & A. F. J. Moffat, **83**, 320.
- Udalski, A., *The Discovery of Superhumps in the Dwarf Nova SU Ursae Majoris*, **83**, 321.
- Verhoeve, P., *High Resolution FIR Spectra of Molecular Ions of Astrophysical Significance*, P. Verhoeve, M. Versluis, E. Zwart, M. Drabbel, J. J. ter Meulen, W. L. Meerts, A. Dymanus & D. B. McLay, **83**, 316.
- Volk, K., *Monte Carlo Simulations of the Galaxy at 12  $\mu$ m*, **83**, 322.
- Walker, G. A. H., *Yellow Giants: A New Class of Variable Star?*, G. A. H. Walker, S. Yang, B. Campbell & A. Irwin, **83**, 294.
- Welch, D. L., *The Variable Star Population of NGC 1866*, D. L. Welch, P. B. Stetson, M. Mateo & B. F. Madore, **83**, 322.
- Welch, G. A., *CCD Imagery of the S0 Galaxy NGC 3998*, G. A. Welch & D. M. K. Welch, **83**, 322.
- Westra, K. L., *Magnetron Sputtering of NbN for SIS Junction Mixers*, K. L. Westra, J. F. Vaneldik, D. Routledge & M. J. Brett, **83**, 319.
- Woodsworth, Andrew, *Observations of Proto-Planetary Nebulae Exhibiting the Unidentified Feature at 21  $\mu$ m*, Andrew Woodsworth, Sun Kwok & S. Josephine Chan, **83**, 323.

#### 1990 Meeting at Mt. Royal College, the University of Calgary, Calgary, Alberta

- Aaquist, O. B., *The Seahorse Nebula, K3-35*, O. B. Aaquist & S. Kwok, **84**, 430.
- Avery, L. W., *The High-Velocity Molecular Gas in L723 — One Outflow or Two?*, L. W. Avery, S. S. Hayashi & Glenn J. White, **84**, 421.
- Baldwin, Jack A., *Physical Conditions and the Helium Abundance of the Orion Nebula*, Jack A. Baldwin, Gary J. Ferland, P. G. Martin, Michael Corbin, Steven Cota, B. M. Peterson & A. Slettebak, **84**, 425.
- Bergbusch, P. A., *BV Photometry of the Old Open Cluster NGC 2243*, P. A. Bergbusch, D. A. Vandenberg & L. Infante, **84**, 413.
- Bietenholz, N. F., *The Rotation Measure Distribution and the Magnetic Field of the Crab Nebula*, N. F. Bietenholz & P. P. Kronberg, **84**, 431.
- Bochonko, Helen, *Astronomy on Laser Video Disk*, Helen Bochonko & Richard Bochonko, **84**, 437.
- Bochonko, Richard, *Real-Time Simulation of the Glenlea Astronomical Observatory 40 cm Telescope*, **84**, 436.
- Bohlender, D. A., *The Weak Magnetic Field of Epsilon Ursae Majoris*, D. A. Bohlender & J. D. Landstreet, **84**, 422.
- Brett, M., *Towards SIS NbN Planar Array Receivers for the JCMT*, M. Brett, D. Routledge, F. Vaneldik & K. Westra, **84**, 436.
- Cameron, Ian, *Hubble Space Telescope Guide Star Catalog on a Macintosh Computer*, **84**, 436.
- Campbell, B., *Status of the Dwarf Precision Radial Velocity Project: I. Renewed Appreciation for the Data*, B. Campbell, S. Yang, A. W. Irwin & G. A. H. Walker, **84**, 411.
- Carignan, C., *H I and Mass Distribution of NGC 7793*, C. Carignan & D. Puche, **84**, 432.
- Chan, S. Josephine, *Infrared Spectra of Three Recently-Formed Carbon Stars*, S. Josephine Chan & Sun Kwok, **84**, 426.
- Clark, T. A., *Solar Limb Scans at Millimetre and Submillimetre Wavelengths with the James Clerk Maxwell Telescope*, T. A. Clark, D. A. Naylor & W. D. Duncan, **84**, 419.
- Clement, Christine, *A Search for Double-Mode RR Lyrae Stars in 22 Galactic Globular Clusters*, Christine Clement & James Nemec, **84**, 434.
- Couture, Jean, *BVI Photometry of Globular Clusters in M87, NGC 4472 and NGC 4649*, Jean Couture & William Harris, **84**, 412.
- Crabtree, Dennis, *STSDAS: HST Reduction and Analysis Software*, **84**, 435.
- Cunningham, C. C., *Galileo — NASA Mission to Jupiter — Venus Flyby*, C. C. Cunningham, J. Caldwell & Cliff Anger, **84**, 417.
- Cunningham, C. T., *Receiver Development at the Herzberg Institute of Astrophysics*, C. T. Cunningham, R. H. Hayward, J. D. Wade & M. Bell, **84**, 435.
- Dewdney, P., *H I Observations of the Young Planetary Nebula BD +30°3639*, P. Dewdney, L. Likkell, A. R. Taylor & G.



- Gussie, **84**, 427.
- Dougherty, S. M., *Search for Infrared Variability in Be Stars*, S. M. Dougherty, A. R. Taylor & T. A. Clark, **84**, 424.
- Fontaine, G., *An Adiabatic Survey of the Properties of Pulsating DA White Dwarfs*, G. Fontaine, P. Brassard, F. Wesemael & M. Tassoul, **84**, 435.
- Forbes, D., *Astronomy Education in Newfoundland*, **84**, 437.
- Frail, Dale A., *Probing the Warm Ionized Medium With Pulsars*, **84**, 415.
- Gaetz, T. J., *A Scheme for Accurate Spatial Interpolation of Ionization States*, **84**, 425.
- Green, D. A., *The Cygnus Loop at 408 MHz: Spectral Index Variations*, **84**, 416.
- Gregory, P. C., *A New Catalogue of Northern Hemisphere 5 GHz Radio Sources*, P. C. Gregory, W. K. Scott & J. J. Condon, **84**, 416.
- Gulliver, Austin F., *An Ultrahigh Signal-to-Noise Spectrophotometric Atlas of Vega*, Austin F. Gulliver & Saul J. Adelman, **84**, 418.
- Gussie, G. T., *Circumnebular Neutral Hydrogen in Planetary Nebulae*, G. T. Gussie & A. R. Taylor, **84**, 427.
- Harmanec, Petr, *Rapid Periodic Variability and Rotation of Be Stars*, **84**, 424.
- Harris, Gretchen L. H., *NGC 2287: A Binary-Rich Cluster?*, **84**, 434.
- Haslett, J. W., *Two New Position Sensors for Telescope Auto-Guiding Via Main Beam*, J. W. Haslett, R. J. Condon, W. R. Gonnason, S. Singaravelan, F. N. Trofimenkoff, E. F. Milone, F. M. Babott, T. A. Clark & A. R. Taylor, **84**, 35.
- Hesser, J. E., *Spectrum Synthesis Analysis of C and N Abundances on the Main-Sequence of 47 Tucanae*, J. E. Hesser, M. M. Briley, R. A. Bell & G. H. Smith, **84**, 433.
- Higgs, L. A., *408-MHz Radio Sources in a Field Centred on Simeis 57*, L. A. Higgs, T. L. Landecker, F. Israel & J. Bally, **84**, 430.
- Hughes, V. A., *Radio Detection of HH Objects in Cephus A West*, **84**, 414.
- Hutchings, J. B., *Lyman-FUSE: Canadian Participation in an Orbiting Telescope*, **84**, 417.
- Infante, L., *Clustering of Faint Galaxies*, L. Infante & C. Pritchett, **84**, 433.
- Irwin, A. W., *The Relative Radial Velocity of Procyon*, A. W. Irwin, B. Campbell, S. Yang, C. Goodenough & G. Walker, **84**, 418.
- Kennelly, E. J., *Nonradial Pulsations in Rapidly Rotating  $\delta$  Scuti Stars*, E. J. Kennelly, G. A. H. Walker & Jaymie M. Matthews, **84**, 422.
- Kronberg, Philipp P., *Probe of a QSO Absorption Line System Transverse to the Line of Sight at  $z = 1.95$* , Philipp P. Kronberg, Judith J. Perry & Edwin L. Zukowski, **84**, 416.
- Kwok, Sun, *Inverse P Cygni Profiles in the Post-Asymptotic Giant-Branch Star HD 56126*, Sun Kwok, B. J. Hrivnak & T. R. Geballe, **84**, 414.
- Infrared Spectroscopy with the IRAS Satellite*, Sun Kwok & Kevin Volk, **84**, 411.
- Langill, P., *Ground-Based Observations of 22 New Candidates for Proto-Planetary Nebulae*, P. Langill, Sun Kwok & B. J. Hrivnak, **84**, 426.
- Leahy, D. A., *Submillimetre Observations of Circumstellar Dust*, D. A. Leahy, S. Kwok & C. R. Marshall, **84**, 421.
- Legg, T. H., *Planar Antenna Arrays for the James Clerk Maxwell Telescope*, **84**, 422.
- Likkel, L., *Carbon Stars Associated with Oxygen-Rich Circumstellar Envelopes*, L. Likkel, C. Maizels, M. Morris & J. Kastner, **84**, 420.
- MacLeod, J. M., *The First Three Years in Submillimetre Valley*, **84**, 417.
- Marlborough, J. M., *Infrared Excess and Linear Polarization from Be Star Discs*, J. M. Marlborough & L. B. F. M. Waters, **84**, 425.
- Matthews, H. E., *Submillimetre Continuum Observations of Jovian Satellites and Asteroids with the James Clerk Maxwell Telescope*, H. E. Matthews, R. O. Redman, P. A. Feldman & I. Halliday, **84**, 420.
- Matthews, J. M., *A Definitive Period for the Be Star LQ And*, J. M. Matthews, P. Harmanec, G. A. H. Walker, S. Yang & W. H. Wehlau, **84**, 412.
- Milone, E. F., *New Developments in Eclipsing Binary Light and Radial Velocity Curve Modelling at the University of Calgary*, E. F. Milone & C. R. Stagg, **84**, 411.
- New Resource Materials for the Teaching of Ancient and Modern Astronomy*, **84**, 436.
- Moazzen-Ahmadi, N., *Spectroscopy and Interstellar Molecules*, N. Moazzen-Ahmadi, A. R. W. McKeller & T. Amano, **84**, 428.
- Naylor, D. A., *A Search for Solar Emission Lines at Sub-Millimetre Wavelengths*, D. A. Naylor, T. A. Clark, A. A. Schultz & G. R. Davis, **84**, 419.
- The Infrared Space Observatory*, **84**, 410.
- Pineault, Serge, *Gamma-Ray Bursts from Young Supernova Remnants*, **84**, 430.
- Puche, D., *The Disk Halo Conspiracy and the Nature of Dark Matter in Galaxies*, **84**, 432.
- Redman, R. O., *Continuum Observations with the James Clerk Maxwell Telescope*, **84**, 420.
- Robb, R. M., *Automatic Photoelectric Photometry at the University of Victoria*, R. M. Robb, C. D. Scarfe, E. E. Ackroyd & N. N. Honkanen, **84**, 418.
- Roger, R. S., *HI Emission and Weak Far-Infrared Cirrus Emission in a Field at the North Ecliptic Pole*, R. S. Roger, C. R. Purton & A. G. Willis, **84**, 429.
- Rogers, C., *JCMT Observations of Far-IR Emission from Dark Clouds*, C. Rogers & T. I. Hasegawa, **84**, 421.

- Routledge, D., *H I and CO Near HB3*, D. Routledge, J. F. Vaneldik, P. E. Dewdney & T. L. Landecker, **84**, 427.
- Rucinski, S. M., *The Spekt-UV Satellite*, **84**, 410.
- Scarfè, C. D., *The Spectroscopic-Speckle Triple System HR 5472*, C. D. Scarfè & D. J. Barlow, **84**, 423.
- Seaquist, E. R., *A Synchrotron Halo Around M82*, E. R. Seaquist & N. Odegard, **84**, 431.
- Stagg, C. R., *Ultraviolet Limb Darkening in the Eclipsing Binary AI Phoenicis*, C. R. Stagg, E. F. Milone, T. A. Clark & O. Kjeldseth Moe, **84**, 423.
- Tapping, K. F., *The Role of Dynamism in the S-Component*, **84**, 418.
- Taylor, A. R., *CH Cygni: A Precessing Radio Jet*, A. R. Taylor, E. R. Seaquist & S. J. Kenyon, **84**, 429.
- Turcotte, S., *Non-LTE Diatomic Molecules in Red Giant Stars*, S. Turcotte & D.O. Muchmore, **84**, 428.
- Turner, David G., *Comparison of Johnson System and Strömrgren System Photometry — How Reliable are Data Sources*, **84**, 422.
- van den Bergh, Sidney, *Supernovae and Galaxy Inclinations*, **84**, 410.
- Van Leeuwen, J. A., *Identification of Discrete Sources in the WSRT 327 MHz Galactic Plane Survey*, J. A. Van Leeuwen, A. R. Taylor, B. J. Wallace & J. E. Penfold, **84**, 431.
- VandenBerg, D. A., *A New Method for Estimating Relative Ages of Star Clusters*, D. A. VandenBerg, M. Bolte & P. B. Stetson, **84**, 412.
- Volk, K., *Models of Planetary Nebula Dust Shells*, **84**, 413.
- Walker, G. A. H., *Status of the Dwarf Precision Radial Velocity Project: II. Low Mass Companions?*, G. A. H. Walker, B. Campbell, S. Yang & A. W. Irwin, **84**, 411.
- Wallace, B. J., *Supernova Remnants in the WRST 327 MHz Galactic Plane Survey*, B. J. Wallace, A. R. Taylor & W. M. Goss, **84**, 431.
- Waters, L. B. F. M., *Discovery of Another Extremely Metal-Deficient Post-AGB Star*, L. B. F. M. Waters, C. Waelkens, H. Van Wickel & N. R. Trams, **84**, 428.
- Wehlau, W. H., *Rapid Infrared Photometry of roAp Stars: Searching for  $\ell = 2$  Modes*, W. H. Wehlau, J. M. Matthews & G. A. H. Walker, **84**, 424.
- Wilson, W. J. F., *Baade-Wesselink Analysis of the  $\delta$  Scuti Variable Star EH Librae*, W. J. F. Wilson, E. F. Milone, D. J. I. Fry, J. E. Penfold, G. Hill & K. M. Yoss, **84**, 423.
- Wing, D. L., *Surface Photometry of the Shell Galaxy NGC 2865*, D. L. Wing & G. A. Welch, **84**, 433.
- Yang, S., *Line Profile Variations of the Be Star  $\zeta$  Tau*, S. Yang, G. A. H. Walker, P. Harmanec & G. M. Hill, **84**, 424.
- Zhang, C. Y., *Spectral Energy Distribution of Compact Planetary Nebulae*, C. Y. Zhang & S. Kwok, **84**, 415.
- Zukowski, E. L. H., *The Magneto-Ionic Plasma Distribution in Extragalactic Radio Sources*, E. L. H. Zukowski & P. P. Kronberg, **84**, 432.

### 1991 Meeting at York University, Toronto, Ontario

- Anthony, David M., *Lucy Deconvolution of Hubble Space Telescope Images*, David M. Anthony, Cindy C. Cunningham & John J. Caldwell, **85**, 198.
- Arcoragi, Jean-Pierre, *Submillimetre Dust Continuum Observations with the James Clerk Maxwell Telescope of Low-Mass Protostellar IRAS Sources L1582B, L1489 and IRAS 05413-0104*, Jean-Pierre Arcoragi, Pierre Bastien, Hans Zinnecker & Harold W. Yorke, **85**, 185.
- Bastien, P., *Fragmentation of Elongated Clouds*, P. Bastien, J.-P. Arcoragi, I. Bonnell, H. Martel & W. Benz, **85**, 180.
- Beauchemin, M., *An Automated Search for Gravitational Lenses Performed on 25 Grens Plates*, M. Beauchemin & E. F. Borra, **85**, 208.
- Beech, M., *The Mass-Luminosity Relation of WR Stars*, M. Beech & R. Mitalas, **85**, 196.
- Bell, M., *Impact Broadening of Hydrogen Recombination Lines with  $\Delta n \leq 17$  in Orion and W51*, M. Bell, L. Avery, T. Moore & J. MacLeod, **85**, 200.
- Belley, J., *Global O/H Gradients in Late-Type Spiral Galaxies and Possible Bar Interaction for NGC 6946*, J. Belley & J.-R. Roy, **85**, 195.
- Binette, Luc, *Effects of Dust Mixed with Photoionized Gas*, Luc Binette, Gladis Magris & Gustavo Bruzual, **85**, 179.
- Blaes, O., *The Evolution of Neutron Star Surface Layers*, O. Blaes, R. Blanford & P. Madau, **85**, 204.
- Blurton, Craig, *Engaging Students in the Study of Astronomy Through Multimedia Software*, **85**, 159.
- Bohlender, D. A., *Variable H $\alpha$  Emission in the Helium-Strong Star  $\delta$  Orionis C*, D. A. Bohlender, G. A. H. Walker & C. T. Bolton, **85**, 202.
- Boily, E., *Statistical Analysis of Galactic H II Region Velocity Fields: A Progress Report*, E. Boily, G. Joncas & D. Durand, **85**, 212.
- Bolton, C. T., *Progress on Light Pollution Control at the David Dunlap Observatory*, **85**, 216.
- Bond, J. R., *Forming Cosmic Structure with a 17 KeV Neutrino*, **85**, 182.
- Bonnell, Ian, *Formation of Binary and Multiple Star Systems*, Ian Bonnell, Hugo Martel, Pierre Bastien, Jean-Pierre Arcoragi & Willy Benz, **85**, 196.
- Boothroyd, A. I., *Hot Bottom Envelope Burning in Asymptotic Giant Branch Stars*, A. I. Boothroyd & I.-J. Sackmann, **85**, 204.
- Borra, E. F., *Liquid Mirrors: A Progress Report*, E. F. Borra, R. Content, L. Girard, J. Gauvin, P. Hickson & B. Gibson, **85**, 188.
- Bridges, T. J., *The Globular Cluster Systems of cD Galaxies in Poor Clusters*, T. J. Bridges & D. A. Hanes, **85**, 203.

- Bridle, Alan H., *Core, Jet and Counterjet Prominence in Powerful Radio Galaxies and Quasars*, **85**, 182.
- Butterworth, S. T., *The Globular Cluster System of NGC 3842*, S. T. Butterworth & W. E. Harris, **85**, 203.
- Côté, P., *Star Counts, Blue Stragglers, and Mass Segregation in NGC 7492*, P. Côté, H. B. Richer & G. G. Fahlman, **85**, 213.
- Caldwell, J. J., *Hubble, Hubble, Toil and Trouble*, **85**, 178.
- Carignan, Claude, *The HI Content of the Local Group Dwarf Irregular Galaxy in Phoenix*, Claude Carignan & Serge Demers, **85**, 195.
- Chang, C. A., *Partially Dissociative Jump Shocks in Molecular Hydrogen*, C. A. Chang & P. G. Martin, **85**, 207.
- Chen, Haiqi, *Dynamics of the Envelopes of Be Stars in the Equatorial Plane*, Haiqi Chen, J. M. Marlborough & L. B. F. M. Waters, **85**, 189.
- Clark, T. A., *Wide-Band Solar Spectroscopy on the James Clerk Maxwell Telescope with a Polarizing Fourier Transform Spectrometer*, T. A. Clark, D. A. Naylor, G. J. Tompkins, G. R. Davis & W. D. Duncan, **85**, 190.
- Couchman, H. M. P., *Large-Scale Structure in a Low Bias Universe*, H. M. P. Couchman & R. G. Carlberg, **85**, 183.
- Crabtree, D. R., *The IUE Archive at the Canadian Astronomical Data Centre*, D. R. Crabtree, D. Durand, G. Farrell & S. Gaudet, **85**, 217.
- Crampton, D., *Searching for Gravitational Lenses*, D. Crampton, R. McClure & J. M. Fletcher, **85**, 179.
- Cunningham, Cindy C., *Evidence for Seasonal Change on Titan*, Cindy C. Cunningham, H. Peter White, John J. Caldwell & David M. Anthony, **85**, 186.
- Davidge, T. J., *Spectroscopic Gradients in the Compact Elliptical Galaxies NGC 4478 and NGC 4486B*, **85**, 195.
- Davis, G. R., *Wide-Band Planetary Spectroscopy on the James Clerk Maxwell Telescope with a Polarizing Fourier Transform Spectrometer*, G. R. Davis, D. A. Naylor, G. J. Tompkins, T. A. Clark & W. D. Duncan, **85**, 190.
- De Robertis, M. M., *A Star-Forming Region in the Gravitational Lense 2237+030*, M. M. De Robertis & H. K. C. Yee, **85**, 208.
- Delaney, P., *Automatic Telescope Control*, P. Delaney, A. Prior, A. Ebbers & A. Rana, **85**, 220.
- Delisle, S., *The Near-Infrared Spectral Gradients in Elliptical Galaxies and Bulges, and the Nature of the Na Feature Near 8200 Å*, S. Delisle & E. Hardy, **85**, 196.
- Dewdney, P. E., *Shocked Molecular Material Association with the Supernova Remnant G33.6+0.1*, P. E. Dewdney & D. A. Green, **85**, 201.
- Doyon, R., *The Montreal Infrared Camera (MONICA)*, R. Doyon, D. Nadeau, M. Riopel, A. F. J. Moffat, S. Demers, P. Bastien & H. Yee, **85**, 182.
- Duley, W. W., *Fundamental Absorption in Solids and the Wavelength Dependence of Interstellar Extinction*, W. W. Duley & D. C. B. Whittet, **85**, 200.
- Duric, N., *Radio Properties of Supernova Remnants in M33*, **85**, 179.
- Durrell, P. R., *Deep CCD Photometry of the Globular Cluster M15*, P. R. Durrell & W. E. Harris, **85**, 194.
- Evans, Nancy Remage, *New Calibrators for the Cepheid Period-Luminosity Relation*, **85**, 180.
- Feldman, P. A., *Detection of a New Submillimetre Maser Transition Toward the Supergiant VY CMa*, P. A. Feldman, H. E. Matthews, C. T. Cunningham, R. H. Hayward, J. D. Wade, T. Amano & F. Scappini, **85**, 191.
- Fich, M., *Continuum Emission at 1 μm from the Elliptical Galaxy NGC 205*, M. Fich & P. Hodge, **85**, 185.
- Fieldus, M. D., *A Survey of Non-Emission Line B Stars for Line Profile Variations*, M. D. Fieldus & C. T. Bolton, **85**, 218.
- Fischer, P., *Dynamics of the Young LMC Cluster NGC 1866*, P. Fischer, D. L. Welch, P. Côté, M. Mateo & B. F. Madore, **85**, 189.
- Forbes, Douglas, *Membership of the WR Binary V444 Cygni in the Open Cluster Berkeley 86*, **85**, 213.
- Gabuzda, D. C., *Polarization Sensitive Very Long Baseline Interferometry of BL Lacertae Objects*, D. C. Gabuzda, T. V. Cawthorne, D. H. Roberts & J. F. C. Wardle, **85**, 211.
- Gaetz, T. J., *Stability of Radiative Shocks: Nonplanar Geometries*, **85**, 207.
- Garrison, R. F., *A New CCD for the Classification Spectrograph at the University of Toronto Southern Observatory (UTSO) in Chile*, R. F. Garrison, K. W. Kamper, A. Ridder & Ian Shelton, **85**, 217.
- Goldsmith, C. G., *The Variable Star System of the Sculptor Dwarf Galaxy*, **85**, 220.
- Gray, David F., *A Technique for Precisely Measuring Stellar Temperatures*, David F. Gray & Heather L. Johanson, **85**, 183.
- Gregory, P. C., *Optimum Detection of an Unknown Periodic Signal*, **85**, 189.
- Harris, W. E., *Globular Cluster Systems in Central cD Galaxies*, W. E. Harris, C. J. Pritchett & R. D. McClure, **85**, 204.
- Hayes, Jeffrey J. E., *CCD Photometry of Multiple Galaxies in Rich Clusters*, **85**, 210.
- Heisler, C. A., *60 μm Peakers: Morphology and Nuclear Activity Explained by Interactions*, C. A. Heisler, J. P. Vader & J. A. Frogel, **85**, 181.
- Hendry, P. D., *Maximum Entropy Imaging of Contact Binaries*, P. D. Hendry & S. W. Mochnacki, **85**, 206.
- Hesser, J. E., *Ca and Mg Abundances in the Draco Dwarf Galaxy*, J. E. Hesser, M. D. Lehnert, R. A. Bell & J. B. Oke, **85**, 181.
- Hickson, P., *UBC/Laval 2.7-Metre Liquid Mirror Telescope: Status Report*, P. Hickson, B. K. Gibson, D. Hogg, E. F. Borra, R. Content & L. Girard, **85**, 218.
- Hill, G. M., *Are There Such Things As Normal A Stars?*, G. M. Hill & J. D. Landstreet, **85**, 196.
- Holland, S., *A Colour-Magnitude Study of the Distant "Second Parameter" Globular Cluster Pal 14*, S. Holland & W. E. Harris, **85**, 194.
- Hua, Xin-Min, *The Angular Dependent Reflected Spectra by Compton Scattering*, **85**, 208.
- Huang, L., *Consistency of Line Profile Variations in Different Lines of 53 Persei*, L. Huang & M. S. Fieldus, **85**, 219.

- Hughes, V. A., *The Time Dependent Radio Sources in Cepheus A*, **85**, 184.
- Hutchings, John, *Spectroscopic Science with the Hubble Space Telescope*, **85**, 178.
- Irwin, Judith A., *Warm Molecular Gas in the Nucleus of IC 342*, Judith A. Irwin & L. W. Avery, **85**, 191.
- Joncas, G., *The Dominion Radio Astrophysical Observatory Galactic Plane Survey, III: Field at  $\ell = 85^\circ$* , G. Joncas, M. Normandeau & D. A. Green, **85**, 201.
- Jylänne, E. J., *Two-Colour De-Reddening — An Automated Statistical Approach*, E. J. Jylänne, M. P. Vatter FitzGerald & G. L. H. Harris, **85**, 198.
- Kamper, K. W., *Expanded Spectrographic Capabilities of the DDO 1.88 m Telescope*, K. W. Kamper & C. T. Bolton, **85**, 218.
- Kavelaars, J. J., *Three-Colour Photometry for the Galactic Globular Cluster NGC 6517*, J. J. Kavelaars & D. A. Hanes, **85**, 194.
- Kim, S. H., *The Collimation of a Time-Dependent Stellar Wind*, S. H. Kim & A. C. Raga, **85**, 215.
- Kingsburgh, R. L., *The W0 Stars: Very Hot, Very Fast and Very Exciting*, **85**, 186.
- Klypin, A., *Density Distribution Function at the Non-Linear Stage of Evolution*, A. Klypin & L. Kofman, **85**, 209.
- Landecker, T. L., *The Proposed Radio Schmidt Telescope*, T. L. Landecker & P. E. Dewdney, **85**, 219.
- Latter, William B., *Near-Infrared Spectroscopy of Planetary and Proto-Planetary Nebulae*, William B. Latter & Douglas M. Kelly, **85**, 192.
- Lu, Wenxian, *A Triple System DI Peg*, **85**, 214.
- Martel, Hugo, *Fragmentation of Elongated, Axially Rotating Clouds*, Hugo Martel, Pierre Bastien, Jean-Pierre Arcoragi & Ian Bonnell, **85**, 197.
- Martin, P. G., *Collisional Excitation of Molecular Hydrogen by Hydrogen Atoms*, P. G. Martin & M. E. Mandy, **85**, 200.
- Martin, Pierre, *Radial Abundance Gradients in Normal and Barred Spiral Galaxies: First Results*, **85**, 181.
- Matthews, J. M., *EZ CMA: Not a Binary After All?*, J. M. Matthews, N. St.-Louis, L. Drissen, A. F. J. Moffat, V. S. Niemela & G. Koenigsberger, **85**, 214.
- McCutcheon, W. H., *Comparison of Two Star-Formation Regions in NGC 6334*, W. H. McCutcheon, T. Sato, H. E. Matthews, T. B. H. Kuiper & E. C. Sutton, **85**, 192.
- Meng, J., *Photon-Limited, High-Resolution Stellar Imaging from Triple-Correlation and Knox-Thompson Subplanes*, J. Meng & G. J. M. Aitken, **85**, 205.
- Mitalas, R., *Limits to Pressure in Outer Layers of Stars and Velocity Dispersions in Outer Regions of Stellar Systems*, **85**, 215.
- Mochnacki, S. W., *High Time Resolution Spectroscopy of MWC 560*, **85**, 206.
- Myers, S. T., *Galaxy Clustering Using the Hierarchical Peaks Approach: Predictions for ROSAT, SZ, and FIR*, S. T. Myers & J. R. Bond, **85**, 209.
- Nan, He, *Stochastic Orbits in Triaxial Elliptical Galaxies*, He Nan & Ralph E. Pudritz, **85**, 210.
- Naylor, D. A., *A Polarizing Fourier Transform Spectrometer for Intermediate Resolution Spectroscopy at Millimetre and Sub-millimetre Wavelengths with the James Clerk Maxwell Telescope*, D. A. Naylor, G. T. Tompkins, T. A. Clark, G. R. Davis & W. D. Duncan, **85**, 185.
- Percy, John R., *The Complex Photometric Variability of KX Andromedae*, John R. Percy & Li Sen, **85**, 214.
- Attracting and Training the Next Generation of Canadian Astronomers*, **85**, 221.
- Pocock, J., *Animating the Hertzsprung-Russell Diagram*, J. Pocock & M. L. McCall, **85**, 221.
- Purton, C. R., *Identifying Pre-Main Sequence Stars*, C. R. Purton, P. E. Dewdney & W. H. McCutcheon, **85**, 197.
- Quinlan, G. D., *Dynamical Limits on Dark Mass in the Outer Solar System*, G. D. Quinlan, D. Hogg & S. Tremaine, **85**, 187.
- Redman, R. O., *Space Weathering of a Non-Spherical, Rotating Body*, **85**, 193.
- Richer, Michael G., *Planetary Nebulae in NGC 3109*, Michael G. Richer & Marshall L. McCall, **85**, 220.
- Roger, R. S., *A Comparison of Observations of H I Dissociation Zones with Evolutionary Models*, R. S. Roger & P. E. Dewdney, **85**, 199.
- Rogers, Chris, *CCD Observations of Circumstellar Envelopes*, Chris Rogers & Dennis R. Crabtree, **85**, 215.
- Rouleau, F., *Shape and Clustering Effects on the Optical Properties of Amorphous Carbon*, F. Rouleau & P. G. Martin, **85**, 201.
- Routledge, D., *S183 — A Large H II Region in the Perseus Arm*, D. Routledge, M. D. Anderson, J. F. Vaneldik & T. L. Landecker, **85**, 212.
- Rucinski, S. M., *The Radio Light Curve of ER Vulpeculae*, **85**, 184.
- Sasselov, D. D., *Line Splitting in Classical Cepheids*, D. D. Sasselov, M. S. Fieldus, J. B. Lester, K. Venn & A. Raga, **85**, 202.
- Seaquist, E. R., *Observations of Symbiotic Stars at 1 mm Wavelength*, E. R. Seaquist & A. R. Taylor, **85**, 192.
- Sigut, T. A. A., *A Non-LTE Analysis of Mg II in B Stars*, **85**, 216.
- Slawson, R. W., *New UBV and H $\beta$  Photometry: Towards a Luminosity Function for the Scorpius-Centaurus OB Association*, R. W. Slawson & J. D. Landstreet, **85**, 194.
- St.-Louis, Nicole, *A Study of the High Velocity Interstellar Gas Towards Cygnus*, Nicole St.-Louis & Linda J. Smith, **85**, 188.
- Stevenson, C. C., *Ar/S in the Blue Compact Dwarf Galaxies I Zw 18 and II Zw 40*, C. C. Stevenson & M. L. McCall, **85**, 182.
- Stiff, T. D., *New Tools for Introducing Astronomy to Secondary School Students*, **85**, 221.
- Tapping, K. F., *Adaptive Potential Drops as Energy Dissipators in Solar Magnetic Structures*, **85**, 178.
- Taylor, A. R., *VLBI Observations and Models of LSI +61° 303*, A. R. Taylor & H. T. Kenny, **85**, 202.
- Tribble, P. C., *Models of the Radio Halo and Magnetic Fields in the Coma Cluster*, **85**, 211.
- Turgeon, Benoit, *Design of a Digital Filter for Ghost Removal for the Camera of the Galileo Spacecraft*, Benoit Turgeon, Cindy Cunningham & Cliff Anger, **85**, 199.

- Turner, D. G., *Detection of a Circumstellar Reddening Component in the Extinction of Late B-Type Stars*, **85**, 216.  
*Introducing the Sky to Students in Astronomy Survey Courses*, **85**, 222.
- Underhill, Anne B., *Emission Lines in O-Type Spectra: Evidence for a Two-Part Line Emitting Region*, **85**, 187.
- Vallée, J. P., *The Interface Between the H II Region and the Molecular Cloud in W40*, J. P. Vallée & J. M. MacLeod, **85**, 212.
- Volk, K., *Models of Dusty Planetary Nebulae*, **85**, 186.
- Wallace, B. J., *New Galactic Plane Supernova Remnants*, B. J. Wallace & A. R. Taylor, **85**, 188.
- Wehlau, W. H., *Distribution of Abundances of Fe, Cr, and Si on the Surfaces of  $\epsilon$  UMa and  $\theta$  Aur*, W. H. Wehlau & J. B. Rice, **85**, 205.
- Weltmann, D., *Monte-Carlo Simulation of Open Cluster Colour-Magnitude Diagrams*, D. Weltmann & M. P. Vatter FitzGerald, **85**, 199.
- West, M. J., *Superclustering at High Redshifts*, **85**, 211.
- White, H. Peter, *Near Ultraviolet Spectroscopy of Saturn with the International Ultraviolet Explorer Satellite*, H. Peter White, John Caldwell & Richard Wagener, **85**, 193.
- Widrow, L. M., *Baryogenesis and the Nature of Dark Matter*, **85**, 188.
- Wilk, Karl, *Carbon Monosulphide Observations of Sharpless 172*, Karl Wilk & Michel Fich, **85**, 193.
- Xanthopoulos, E., *Broad-Band Imaging of Isolated(?) Seyfert Galaxies*, E. Xanthopoulos & M. M. De Robertis, **85**, 220.
- Yepes, G., *Multidimensional Analysis of Non-Linear Gravitational Clustering in a Cold Dark Matter Universe*, G. Yepes, H. M. P. Couchman & R. Dominguez-Tenreiro, **85**, 210.

### 1992 Meeting at Saint Mary's University, Halifax, Nova Scotia

- Aikman, G. C. L., *Time Scale for the Onset of Mercury-Manganese Abundance Anomalies in Late B-Stars*, **86**, 293.
- Aitken, G. J. M., *Wavefront Prediction for Adaptive Astronomical Telescopes*, G. J. M. Aitken & M. B. Jorgenson, **86**, 288.
- Beckett, J., *Empirical Confirmation of the Mass Dependence for White Dwarf Luminosities*, J. Beckett & D. G. Turner, **86**, 292.
- Bishop, Roy,  *$E = mc^2$  Is Not the Secret of Stellar Energy*, **86**, 285.
- Blaes, O., *Theories of Gamma-Ray Bursts*, **86**, 276.
- Bochonko, Richard, *Binary Stars in Concrete for Visualizing Three Dimensions*, **86**, 285.
- Boggess, Nancy W., *The Cosmic Background Explorer (COBE)*, **86**, 282.
- Bond, J. R., *The Cosmic Background Radiation and Large Scale Structure*, **86**, 283.
- Brett, M., *Preliminary mm-Wave Testing of Nb and NbN-Based Mixers*, M. Brett, K. Kornelsen, D. Routledge, F. Vaneldik & B. Veidt, **86**, 289.
- Chen, H., *The Driving of Be Star Envelopes by Optically Thin Lines*, H. Chen & J. M. Marlborough, **86**, 294.
- Clark, T. A., *Total Solar Eclipse Measurement of the Height of the CO Layer in the Solar Atmosphere*, T. A. Clark, D. A. Naylor & G. J. Tompkins, **86**, 290.
- Clement, Christine, *On the Masses and Luminosities of RR Lyrae Stars in Globular Clusters*, Christine Clement & Norman Simon, **86**, 279.
- Couchman, H. M. P., *Cold Dark Matter in the Light of COBE: Simulations of a Low Bias Universe*, **86**, 284.
- Crabtree, D., *Observations of the Blue Clusters in NGC 1275*, D. Crabtree & H. Richer, **86**, 281.
- Crampton, D., *The MOS/SIS Spectrograph*, **86**, 289.
- Curry, Charles, *Nonaxisymmetric Instabilities in Magnetized Accretion Disks*, **86**, 279.
- Davidge, T. J., *Gemini Telescope Update*, **86**, 288.
- Photometry of Stars in the Outer Regions of M32*, **86**, 297.
- Fontaine, G., *White Dwarf Seismology with the Canada-France-Hawaii Telescope*, G. Fontaine, P. Brassard, P. Bergeron, F. Wesemael & G. Vauclair, **86**, 292.
- Forbes, D., *NGC 6531: No Evidence for an Age Spread*, **86**, 293.
- Gabuzda, D. C., *Is the BL Lacertae Object 1308+326 a Lensed Quasar?*, D. C. Gabuzda & R. I. Kollgaard, **86**, 281.
- Garrison, R. F., *HD 204848: A Very Weak-Lined Carbon Star*, R. F. Garrison & Erik Olsen, **86**, 278.
- A New, Old Approach to Teaching*, **86**, 285.
- Gehrels, Neil, *Early Results from the Compton Gamma Ray Observatory*, **86**, 276.
- Gray, David F., *Activity Cycles in Dwarfs:  $\sigma$  Draconis*, David F. Gray, Sallie L. Baliunas, G. W. Lockwood & Brian A. Skiff, **86**, 277.
- Gregory, P. C., *A New Method for the Detection of a Periodic Signal of Unknown Shape and Period*, **86**, 282.
- Harris, D. E., *The Megaparsec Radio Relic in Supercluster Rood 27*, D. E. Harris, C. P. Stern, A. G. Willis & P. E. Dewdney, **86**, 298.
- Harris, W. E., *The McMaster University Planetarium*, W. E. Harris & D. L. Welch, **86**, 286.
- Hughes, V. A., *Do the Radio Observations of Star Forming Regions, Identified from the IRAS Point Source Catalog, Show the Hayashi Phase?*, **86**, 280.
- Jessop, C. M., *Dynamical Instabilities and Limits on the Flatness of Elliptical Galaxies*, C. M. Jessop, H. Levison & M. J. Duncan, **86**, 298.
- Kavelaars, J. J., *Three Colour Photometry for the Galactic Globular Cluster NGC 6517*, J. J. Kavelaars & D. A. Hanes, **86**, 292.
- Kenny, H. T., *High Resolution Radio Images of Southern Symbiotic Stars*, H. T. Kenny, A. R. Taylor & A. T. Tzoumis, **86**, 295.

- Landecker, T. L., *G76.9+1.0: An Unusual Non-Thermal Source in the Galactic Plane*, T. L. Landecker, L. A. Higgs & H. J. Wendker, **86**, 296.
- Langill, P. D., *High Resolution Optical Imaging of Proto-Planetary Nebulae*, P. D. Langill, S. Kwok & B. J. Hrivnak, **86**, 295.
- Leahy, D. A., *A Demonstration Stellar Modelling Program*, D. A. Leahy & H. M. Kneppers, **86**, 288.
- Recent Progress in Understanding X-Ray Pulsators*, **86**, 276.
- Lee, Siow Wang, *A Multi-Transition CO Study of the GL 490 Outflow*, Siow Wang Lee, George F. Mitchell & Henry Matthews, **86**, 296.
- Locken, C., *Cooling Flows and Radio Jet Instabilities*, C. Locken, K. Roettiger, J. Burns, D. Clarke & M. Norman, **86**, 299.
- Marlborough, J. M., *A Potential Similarity and Difference Between Be and Shell Stars Based Upon the Continuous Energy Distribution*, J. M. Marlborough, Haiqi Chen & L. B. F. M. Waters, **86**, 294.
- Matthews, J. M., *WR 40: Coherence or Chaos?*, J. M. Matthews & A. F. J. Moffat, **86**, 278.
- Milone, E. F., *Improving Infrared Photometry: Minimizing Extinction*, E. F. Milone, C. R. Stagg & A. T. Young, **86**, 280.
- On "Challenges of Astronomy" as a Broad-Usage Teaching Tool*, E. F. Milone, T. A. Clark & S. Kwok, **86**, 287.
- Morris, Stephen, *Distance Distribution of Hyades Members*, **86**, 292.
- Nadeau, D., *First Scientific Results with MONICA*, D. Nadeau, R. Doyon & N. Rowlands, **86**, 280.
- Naylor, D. A., *Broad Band Astronomical Spectroscopy on the James Clerk Maxwell Telescope with a Polarizing Fourier Transform Spectrometer*, D. A. Naylor, N. Moazzen-Ahmadi, G. J. Tompkins, G. R. Davis, T. A. Clark, M. J. Griffin & W. D. Duncan, **86**, 289.
- Nelson, L. A., *Surface Density Limits on Brown Dwarf Detection*, L. A. Nelson, S. Rappaport & P. C. Joss, **86**, 291.
- Percy, John R., *The Royal Canadian Institute Youth Science Academy*, John R. Percy & Sara Seager, **86**, 286.
- Photometric Monitoring of Bright, Active Be Stars*, John R. Percy & Allen Attard, **86**, 294.
- Poisson, Eric, *The Internal Structure of Black Holes*, **86**, 284.
- Gravitational-Wave Astronomy*, **86**, 277.
- Price, R., *JCMT Continuum Observations of Spiral Galaxies*, R. Price & N. Duric, **86**, 281.
- Reed, L., *A New Planetarium for Nova Scotia?*, **86**, 287.
- Roger, R. S., *H I Photodissociation Zones Around Two H II Regions in Auriga, Sh 217 and Sh 219*, R. S. Roger & D. A. Leahy, **86**, 295.
- Rucinski, S. M., *SEST Observations of  $\rho$  Oph B1 at 3 mm*, S. M. Rucinski & Osmi Vilhu, **86**, 297.
- Saha, P., *Symplectic Integrators for Solar System Dynamics*, P. Saha & S. Tremaine, **86**, 291.
- Secker, Jeff, *An Analysis of Globular Cluster Luminosity Functions (GCLF) for the Virgo Giant Elliptical Galaxies*, Jeff Secker & William E. Harris, **86**, 298.
- Slawson, R. W., *The Luminosity Function of the Scorpius-Centaurus OB Association: Truncated at  $5 M_{\odot}$* , R. W. Slawson & J. D. Landstreet, **86**, 279.
- Tapping, K. F., *The Sources of the Slowly-Varying Component*, K. F. Tapping, J. D. Madden & I. E. Burke, **86**, 276.
- Turgeon, Benoît, *Ultraviolet Images of Jupiter's Aurora by the Hubble Space Telescope at the Time of the Ulysses Encounter*, Benoît Turgeon, John Caldwell & David Anthony, **86**, 290.
- Turner, D. G., *Evidence for Overtone Pulsation in the Cepheid SZ Tauri*, **86**, 293.
- Sunset Observations*, **86**, 287.
- Underhill, A. B., *Plaskett's Star (HD 47129): Curiouser and Curiouser*, **86**, 277.
- Villeneuve, B., *The Distribution and Space Density of Hot, Hydrogen-Rich Subdwarfs*, B. Villeneuve, F. Wesemael, G. Fontaine, C. Carignan & R. F. Green, **86**, 291.
- Wang, J. C. L., *Lyman  $\alpha$  Emission From Thick Clouds*, J. C. L. Wang, L. Binette, L. Zuo & G. Magris, **86**, 281.
- White, H. Peter, *Educating Canadians About Space: Students for the Exploration and Development of Space*, H. Peter White, Gabriele Ehnes-Lilly & Christine Marton, **86**, 286.
- Near Ultraviolet Investigation of the Equatorial Band of Saturn*, H. Peter White, John Caldwell & Frank d'Onofrio, **86**, 290.
- Wing, D. L., *Surface Brightness Fluctuations Using the Washington Photometric System*, **86**, 299.
- Wishnow, E. H., *The Pure Rotational Line R(0) of HD Observed in Naturally Occurring Hydrogen at  $T = 25$  K*, E. H. Wishnow, I. Ozier & H. P. Gush, **86**, 296.
- The COBRA Rocket Experiment and the Spectrum of the Cosmic Background Radiation: Future Plans*, **86**, 283.
- Young, Anne G., *Science Teaching: Creating a Common World View*, **86**, 284.
- Zingle, R., *On the Treatment of Close Approaches in the Solar System*, R. Zingle & M. J. Duncan, **86**, 291.

### 1993 Meeting at the University of Victoria and the Dominion Astrophysical Observatory, Victoria, British Columbia

- Aaquist, O. B., *The PeGASuS Project*, O. B. Aaquist, T. H. E. Biech & R. H. Nelson, **87**, 172.
- Abraham, B., *Automated Morphological Classification of Faint Galaxies*, B. Abraham, F. Valdez, H. Yee & R. Carlberg, **87**, 172.
- Aikman, G. C. L., *Astrometric Recovery and Follow-Up of Near-Earth Asteroids*, G. C. L. Aikman, J. B. Tatum & D. D. Balam, **87**, 172.
- Aitken, G. J. M., *Wavefront Prediction from Temporal and Spatial Structure*, G. J. M. Aitken & M. B. Jorgenson, **87**, 172.
- Babul, A., *Do Large-Scale Density-Velocity Correlations Test Gravity?*, A. Babul, D. H. Weinberg, A. Decal, Rakah & J. P.

- Ostriker, **87**, 173.
- Balam, D. D., *Photometry of Recently-Discovered Extragalactic Supernovae*, D. D. Balam, D. R. Zurek, F. D. A. Hartwick, R. M. Robb & G. C. L. Aikman, **87**, 173.
- Bartel, N., *The Algonquin Radio Observatory: Development of Astronomical Projects*, N. Bartel & W. H. Cannon, **87**, 174.
- Bastien, P., *The Circumstellar Environment of V376 Cas and V633 Cas: How Many Stars Are There?*, P. Bastien, F. Ménard & L. Asselin, **87**, 174.
- Bell, M. B., *New Heavy Molecules in the Envelope of IRC +10216*, M. B. Bell, L. W. Avery, J. M. MacLeod & J. K. G. Watson, **87**, 175.
- Bernardeau, F., *Density Measurement From the Large Scale Velocity Field*, **87**, 175.
- Bhavsar, S. P., *Quantifying Large-Scale Filamentary Structure in the Universe*, S. P. Bhavsar & W. C. Saslaw, **87**, 175.
- Blouin, Dominique, *The New 6.6 GHz Methanol Line Receiver for the Penticon 26 m Telescope*, Dominique Blouin, John Galt & Gerald Moriarty-Schieven, **87**, 175.
- Bochonko, Richard, *Using the SBIG ST-4 and ST-6 CCD Cameras in Undergraduate Astronomy*, Richard Bochonko, Will Christie, Ryan Diduck & Jamie Mollins, **87**, 176.
- Bohlender, D. A., *Variable H $\alpha$  Emission and Absorption in Helium-Peculiar Stars*, D. A. Bohlender, C. T. Bolton, G. M. Hill & S. J. Adelman, **87**, 176.
- Borra, E. F., *Optical Shop Tests of an f/1.2 2.5-Metre Diameter Liquid Mirror*, E. F. Borra, R. Content & L. Girard, **87**, 176.
- Brassard, P., *A New Tool for White Dwarf Seismology and an Application to the ZZ Ceti Star G 117-B15A*, P. Brassard, G. Fontaine & F. Wesemaël, **87**, 176.
- Brewer, J. P., *Late-Type Stars in M31*, J. P. Brewer, D. R. Crabtree & H. B. Richer, **87**, 177.
- Brown, Christopher F., *Declining Photometric Amplitude of the Cepheid Variable Polaris*, Christopher F. Brown & Richard Bochonko, **87**, 177.
- Bryan, Greg L., *A Hydrodynamic Code for Simulations of Large Scale Structure and Cluster Formation*, Greg L. Bryan, Michael L. Norman & James M. Stone, **87**, 177.
- Burke, Ian, *Mapping the Sun Using the DRAO Synthesis Telescope*, Ian Burke & Ken Tapping, **87**, 177.
- Burkey, J. M., *Deep Hubble Space Telescope Wide Field Camera Imaging: Evolution of the Galaxy Merger Rate*, J. M. Burkey, W. C. Keel, B. E. Franklin & R. A. Windhorst, **87**, 178.
- Côté, P., *The Dynamics of the Galactic Globular Cluster NGC 3201*, P. Côté, D. L. Welch, P. Fischer & M. J. Irwin, **87**, 181.
- Cannon, W. H., *The S2 Very Long Baseline Interferometry System*, W. H. Cannon, D. Baer, G. Feil, D. Hirasawa, R. Jakovina, P. Newby, H. Tan & R. Wietfeldt, **87**, 178.
- Carignan, C., *H I in the Dwarf Spheroidal Galaxy in Sculptor*, **87**, 179.
- Clark, T. A., *The Sky, the Moon and the Tides: An Observing Exercise for Non-Science Introductory Astronomy Classes*, T. A. Clark, E. F. Milone & W. J. F. Wilson, **87**, 179.
- Measurement of Solar Limb Extension at CO Fundamental Band Wavelengths in a Total Eclipse: Comparison With Atmospheric Model Predictions*, T. A. Clark, D. A. Naylor, G. J. Tompkins & E. H. Avrett, **87**, 179.
- Clarke, David A., *A Stable Numerical Algorithm for Multidimensional Magnetohydrodynamics*, **87**, 179.
- Clement, C. M., *The Structural Properties of the Light Curves of the IC 4182 Cepheids*, C. M. Clement & N. R. Simon, **87**, 180.
- Connors, M., *Cratering Rate of Near-Earth Asteroids*, **87**, 180.
- Educational Use of the Astronomical Data Centre's CD-ROM*, **87**, 181.
- Couture, Jean, *The Stellar Populations of M32*, Jean Couture & Eduardo Hardy, **87**, 181.
- The Giant Branch of M31 Globular Clusters*, Jean Couture, René Racine & William Harris, **87**, 182.
- Crabtree, D., *A Galactic Calibration for the Infrared Period-Luminosity Relation for Supergiant Long Period Variables*, D. Crabtree & M. Pierce, **87**, 182.
- Crampton, D., *The 1000-Galaxy Canada-France Redshift Survey*, **87**, 182.
- Craven, S. E., *Multifilter Spectrophotometry*, S. E. Craven & P. Hickson, **87**, 183.
- Davidge, T. J., *The Radial Behaviour of the 4000 Å Break in Bright Elliptical Galaxies*, **87**, 183.
- Dewdney, P. E., *H I and CO Observations of NGC 7023: Photo-Dissociation of Molecular Gas*, P. E. Dewdney, C. Rogers, Mark Heyer, Peter Barnes, R. S. Roger, Gerald Moriarty-Schieven & Göran Sandell, **87**, 183.
- Dorman, B., *Evolved Stellar Populations and the UVX Phenomenon*, B. Dorman, R. W. O'Connell & R. T. Rood, **87**, 184.
- Dougherty, S. M., *The Structure of the Circumstellar Envelope of the Be Star  $\psi$  Persei at Large Radii*, S. M. Dougherty & A. R. Taylor, **87**, 184.
- Dowler, P. D., *The Effects of Convective Overshooting on the Evolutionary Tracks of 0.9  $M_{\odot}$  to 2.6  $M_{\odot}$  Stars*, P. D. Dowler & D. A. Vandenberg, **87**, 185.
- Dubinski, J., *A Parallel N-body Tree Code*, **87**, 185.
- Dyer, Charles C., *Exact Self-Gravitating Solutions for Cosmic Strings*, Charles C. Dyer, Francine R. Marleau & Eric G. Shaver, **87**, 185.
- Eales, S. A., *High-Redshift Radio Galaxies: Old Galaxies or Protogalaxies?*, S. A. Eales & S. Rawlings, **87**, 187.
- Evans, N. R., *Experiments on Centroiding of FUSE Images*, N. R. Evans, S. M. Rucinski & C. Morbey, **87**, 186.
- Fontaine, G., *Asteroseismology With the CFHT: Constraints on the Chemical Structure of a Pulsating DA White Dwarf*, G.

- Fontaine, P. Brassard, P. Bergeron & F. Wesemaël, **87**, 186.
- Galt, John, *GLONASS Satellite Interference in Radio Astronomy Bands*, **87**, 186.
- Garnavich, P., *Polaris Revisited*, P. Garnavich, S. Yang, J. M. Matthews, G. A. H. Walker, N. Dinshaw & A. W. Irwin, **87**, 187.
- Garrison, R. F., *A New Design for Automated Guiding at the University of Toronto Southern Observatory*, R. F. Garrison, Karl W. Kamper & John Pimentel, **87**, 188.
- Geisler, D., *Metal Abundances for a Large Sample of Globular Clusters in M87 and NGC 1399*, D. Geisler, M. G. Lee, J. Forte & P. Ostrov, **87**, 187.
- Gregory, P. C., *Simultaneous X-Ray and Radio Observations of the Binary Star LSI +61° 303*, P. C. Gregory, A. R. Taylor, H. T. Kenny & G. Young, **87**, 188.
- Hasegawa, T. I., *Submillimetre Observations of CO in the W3 Core*, T. I. Hasegawa, G. F. Mitchell, H. E. Matthews & A. I. Harris, **87**, 188.
- Hickson, P., *UBC/Laval 2.7-m Liquid Mirror Telescope: First-Light*, P. Hickson, B. K. Gibson & E. F. Borra, **87**, 189.
- Hill, G. M., *What is Normal Among the A-Type Stars?*, G. M. Hill & J. D. Landstreet, **87**, 189.
- Holland, S., *The Internal Structure of the M31 Globular Cluster G302*, S. Holland, G. G. Fahlman & H. B. Richer, **87**, 190.
- Huang, Siquin, *Infall of a Satellite Onto a Disk Galaxy*, Siquin Huang & R. G. Carlberg, **87**, 190.
- Hudon, J. D., *Measurements of Faint Galaxies in the R Band*, **87**, 190.
- Hughes, V. A., *Star Formation in Molecular Clouds*, **87**, 190.
- Hutchings, J. B., *Telescope Baffle and Fine Error Sensor Design for "Lyman-FUSE"*, J. B. Hutchings & C. L. Morbey, **87**, 191.
- Infante, L., *Velocity Distributions and Luminosity Functions for Three Clusters of Galaxies at  $z \approx 0.3$* , L. Infante, M. J. Way & G. Hertling, **87**, 191.
- Johnstone, D., *Photoevaporation of Disks Around Newly Formed Stars*, D. Johnstone, D. Hollenbach & F. H. Shu, **87**, 192.
- Kwok, Sun, *The Search for Proto-Planetary Nebulae*, Sun Kwok & B. J. Hrivnak, **87**, 192.
- Laflamme, Raymond, *Angular Momentum in the Local Group*, Raymond Laflamme & A. M. Dunn, **87**, 193.
- Larson, A. M., *A Low-Amplitude Periodicity in the Radial Velocity and Chromospheric Emission of Beta Geminorum*, A. M. Larson, A. W. Irwin, S. L. S. Yang, C. Goodenough, G. A. H. Walker, H. R. Walker & D. A. Bohlender, **87**, 193.
- Leahy, D. A., *Monte-Carlo Calculation of Fluorescent Iron Line Profiles*, **87**, 194.
- Lister, M. L., *Second-Epoch, High-Resolution Observations of a Low-Redshift Radio Quasar Sample*, M. L. Lister & A. C. Gower, **87**, 194.
- Lynder, D. A., *Evolution of the Interstellar Medium in Cam OBI*, D. A. Lynder, C. R. Purton & A. C. Gower, **87**, 194.
- Martel, Hugo, *Smoothed Particle Hydrodynamics and the Simulation of Galaxy and Large-Scale Structure Formation*, Hugo Martel, Paul R. Shapiro, Jens V. Villumsen & Hyesung Kang, **87**, 195.
- Martin, B., *Using "Siderius Nuncius" in the Introductory Astronomy Course for Non-Science Majors*, **87**, 195.
- Martin, B. E., *The University of Alberta Wide-Angle CCD Imaging Camera*, B. E. Martin, C. L. Morbey, B. Arnold, D. P. Hube, D. Routledge & J. F. Vaneldik, **87**, 195.
- Matthews, J. M., *A First-Year Astronomy Laboratory Exercise Based on "off-the-shelf" Computer Software: Flexible, Fascinating, and Fun*, J. M. Matthews, P. J. Hodder & G. G. Fahlman, **87**, 196.
- Zeeman Broadening Analysis of Magnetic White Dwarfs*, J. M. Matthews, J.-F. Donati, N. Achilleas & F. Wesemael, **87**, 196.
- McCall, Marshall L., *Relative Galaxy Masses and the History of the Local Universe*, Marshall L. McCall, Mauri J. Valtonen & Kimmo A. Innanen, **87**, 197.
- McClure, R. D., *Evidence for Mergers in a Cluster at High  $z$* , R. D. McClure, M. J. Pierce & R. J. Lavery, **87**, 197.
- Meiksin, A., *Hydrodynamical Models of Ly $\alpha$  Forest Clouds*, **87**, 198.
- Merryfield, W. J., *Hydrodynamics of Semiconvection in Massive Stars*, **87**, 198.
- Milone, E. F., *H235: A Contact Binary in the Open Cluster NGC 752*, E. F. Milone, C. R. Stagg, J. McVean & B. J. Sugars, **87**, 198.
- Morbey, Christopher, *Lyman FUSE Telescope Simulator Design*, **87**, 199.
- Morris, Stephen C., *Progress in Telescope Control and Data Archiving at the Dominion Astrophysical Observatory*, Stephen C. Morris & Leslie Saddlemyer, **87**, 199.
- Naylor, D. A., *Observations of Fine Structure Line Emission from Planetary Nebulae with the Kuiper Airborne Observatory*, D. A. Naylor, B. Nisini, H. A. Smith, G. Stacey, M. J. Barlow, J.-P. Baluteau & R. J. Emery, **87**, 199.
- Nelson, Robert, *On the Damping and Excitation of Galactic Warps*, Robert Nelson & Scott Tremaine, **87**, 200.
- Neuschaefer, L., *The Limits to Galaxy and Clustering Evolutions from the Angular Two-Point Correlation Function*, **87**, 200.
- Ozard, S., *A Fast, Preliminary, Automatic Cosmic Ray Hit Filter for Single Frame Images*, **87**, 200.
- Patel, K., *The Formation of Stellar Groups in Dense Cores of Molecular Clouds*, K. Patel & R. E. Pudritz, **87**, 201.
- Penfold, Jack, *Three Simple Exercises for Observing the Motions of Heavenly Bodies*, **87**, 201.
- Peracaula, M., *VLBI Observations of the X-Ray Binary System LSI + 61° 303*, M. Peracaula, D. C. Gabuzda & A. R. Taylor, **87**, 202.
- Ratnatunga, K., *Morphology of Faint Galaxies in the Hubble Space Telescope Medium-Deep Survey*, K. Ratnatunga & R. Griffiths, **87**, 202.
- Redman, R. O., *The Complete Thermal Continuum Emission Spectrum from a Solid, Airless, Sunlit Body*, **87**, 202.



- Ren, Ue-Li, *Large Scale Structure and Cosmic Microwave Background Fluctuations in a Defect Seeded Open Universe*, Ue-Li Ren & David Spergel, **87**, 201.
- Rice, J. B., *Surface Mapping of the Ap Star 84 UMa*, J. B. Rice & W. H. Wehlau, **87**, 203.
- Rigler, M. A., *Infrared Surface Photometry of 3C 65*, M. A. Rigler & S. J. Lilly, **87**, 203.
- Robb, R. M., *Will We Go the Way of the Dinosaurs?*, **87**, 204.
- Optical Photometry of Suspected Variable Stars SAO 11965, NSV 5598 and HD 13654*, **87**, 203.
- Rodriguez-Williams, L. L., *Statistical Gravitational Lensing by Galaxy Clusters*, L. L. Rodriguez-Williams & C. J. Hogan, **87**, 204.
- Rogers, C., *High Resolution HI and IRAS Observations of the High Latitude Cloud G86.5+59.6*, C. Rogers, P. G. Martin, William T. Reach, P. E. Dewdney & Carl Heiles, **87**, 205.
- Rucinski, S. M., *Full Convection Limit for Population II Contact Binaries*, **87**, 205.
- Saha, P., *Detailed Kinematics of Five Elliptical Galaxies*, P. Saha & T. B. Williams, **87**, 206.
- Scott, W. K., *Searching for Highly Variable Radio Sources with the UBC Radio Project*, W. K. Scott & P. C. Gregory, **87**, 206.
- Seaquist, E. R., *Radio Mass Loss Rates in Symbiotic Red Giants*, **87**, 206.
- Simard, L., *Surface Brightness Fluctuation Distance to NGC 4494 and NGC 4565*, L. Simard & C. J. Pritchett, **87**, 207.
- Smecker-Hane, T., *“Active” Galaxies Found in the CNOC Cluster Redshift Survey*, T. Smecker-Hane, R. Abraham, T. Davidge, J. B. Oke, D. Crabtree, D. Crampton, D. Durand, J. Hesser, J. B. Hutchings, M. Rigler, R. Carlberg, S. Eales, H. K. C. Yee, E. Ellingson, C. J. Pritchett, F. D. A. Hartwick, D. Schade, N. Kaiser, J. R. Bond, C. Mendes de Oliveira, S. Myers, H. Couchman & M. West, **87**, 207.
- Stetson, P. B., *A New Colour-Magnitude Diagram for Giant Stars in the Carina Dwarf Spheroidal Galaxy*, P. B. Stetson, T. Smecker-Hane, J. E. Hesser & M. Lehnert, **87**, 207.
- Stone, J., *Three-Dimensional Magnetohydrodynamical Simulations of Magnetic Accretion Disks*, J. Stone & J. Hawley, **87**, 208.
- Sukumar, S., *The Radio Disk of NGC 224 (M31)*, **87**, 208.
- Sutherland, Peter, *A New Radiation Hydrodynamics Code for the Calculation of Supernovae Light Curves and Continuum Spectra*, Peter Sutherland & Xiao-he Zhang, **87**, 208.
- Syer, D., *Bookmakers’ Odds for Anisotropic Models of the Distribution of Gamma Ray Bursts on the Sky*, D. Syer & Prasenjit Saha, **87**, 209.
- Tapping, Ken, *A Model for Non-Thermal Sources in Solar Active Regions*, **87**, 209.
- Taylor, A. R., *Near-Infrared Variability of Be Stars*, A. R. Taylor & S. M. Dougherty, **87**, 210.
- Tremaine, S., *Jupiter’s Outer Satellites: Orbital Resonances and Chaos*, S. Tremaine & P. Saha, **87**, 210.
- Turner, D. G., *Berkeley 87 — Where the Unusual is Commonplace*, **87**, 210.
- Demonstrating Cluster Main-Sequence Fitting to Best Advantage*, **87**, 211.
- Underhill, Anne B., *Question: Is the Peculiar Of Star HD 108 Related to the Luminous Blue Variables?*, **87**, 211.
- Van Leeuwen, J., *The Westerbork 327 MHz Galactic Plane Survey*, J. Van Leeuwen, A. R. Taylor & W. M. Goss, **87**, 212.
- VandenBerg, D. A., *A New Grid of Pre-Main-Sequence Tracks for Population I Stars*, D. A. VandenBerg, F. J. Swenson & D. R. Alexander, **87**, 212.
- Veidt, B. G., *SIS Mixer Development at the University of Alberta*, B. G. Veidt, J. F. Vaneldik, D. Routledge, K. Kornelsen, M. J. Brett & B. Arnold, **87**, 212.
- Walker, G., *Do Giant Extra-Solar-System Planets Exist?*, G. Walker, A. Walker, A. W. Irwin, A. Larson, S. Yang & D. Bohlender, **87**, 215.
- Welch, G. A., *A Study of the Molecular Gas in the Centre of the S0 Galaxy NGC 4710*, G. A. Welch & G. F. Mitchell, **87**, 212.
- Wesemael, F., *Discovery of Two Rare White Dwarfs With Hybrid Spectra in the Montréal-Cambridge-Tololo Survey*, F. Wesemael, P. Bergeron, R. Lamontagne, G. Fontaine, A. Beauchamp & S. Demers, **87**, 213.
- West, Michael J., *Biased Globular Cluster Formation*, **87**, 215.
- Weygaert, R. van de, *Tidal Fields and the Formation of Galaxies*, R. van de Weygaert & A. Babul, **87**, 213.
- Widrow, L., *Sterile Neutrinos as Dark Matter*, **87**, 214.
- Wilson, C. D., *Physical Conditions in Molecular Clouds in M33*, C. D. Wilson, C. E. Walker & M. D. Thornley, **87**, 216.
- Wing, D. L., *Estimating the Specific Frequency of M87 Globular Clusters Using Brightness Fluctuations*, **87**, 214.
- Woods, D., *The Small-Scale Angular Correlation Function for a High-Galactic Latitude Faint Field*, D. Woods, G. G. Fahlman & H. B. Richer, **87**, 214.
- Woodsworth, A. W., *The Evolution of H $\alpha$  Emission-Line Profiles in S-Type Mira Variables*, **87**, 215.
- Yang, S., *Precise Hydrogen Fluoride Radial-Velocity Variations of Late-Type Variables*, S. Yang, A. Larson, A. W. Irwin, G. A. H. Walker & A. Walker, **87**, 216.
- Yee, H. K. C., *The CNOC Cluster Redshift Survey*, H. K. C. Yee, R. Carlberg, S. Eales, E. Ellingson, C. J. Pritchett, F. D. A. Hartwick, R. Abraham, T. Smecker-Hane, T. Davidge, J. B. Oke, D. Crabtree, D. Crampton, D. Durand, J. E. Hesser, J. B. Hutchings, M. Rigler, D. Schade, N. Kaiser, J. R. Bond, S. Myers, C. Mendes de Oliveira, H. Couchman & M. West, **87**, 216.
- Zurek, D. R., *The Red-Giant Branch of NGC 6791: An Important Constraint on Our Understanding of Metal-Rich Stellar Populations*, D. R. Zurek, D. A. VandenBerg, P. Garnavich & J. E. Hesser, **87**, 217.

## 1994 Meeting at the University of Western Ontario, London, Ontario

- Aitken, G. J. M., *Neural-Network Wavefront Predictors for Adaptive Optics*, G. J. M. Aitken & M. B. Jorgenson, **88**, 255.
- Allen, Eric J., *On Coagulation and the Stellar Mass Spectrum*, Eric J. Allen & Pierre Bastien, **88**, 256.
- Andrei, A. H., *Linking the Radio and Optical Reference Frames*, A. H. Andrei, E. G. Jilinski, S. P. Puliaev, R. V. Martins, M. Assafim, N. Bartel & M. Bietenholz, **88**, 256.
- Bartel, N., *VLBI Measurements of the Shape, Expansion and Distance of Supernova 1993J in M81*, N. Bartel, M. F. Bietenholz, M. P. Rupen, J. E. Conway, A. J. Beasley, R. A. Sramek, J. D. Romney, M. A. Titus, D. A. Graham, V. I. Altunin, D. L. Jones, A. Rius, T. Venturi, G. Umana, K. W. Weiler, S. D. Van Dyk, N. Panagia, W. H. Cannon, J. Popelar & R. J. Davis, **88**, 244.
- Bastien, P., *Submillimetre Polarization Observations of Circumstellar Disks*, P. Bastien & J. P. Vallée, **88**, 256.
- Bax, Jeff, *Another Look at the Delta Scuti Star FM Comae*, Jeff Bax, W. H. Wehlau & S. Sharpe, **88**, 257.
- Beech, Martin, *Introductory Astronomy Taught by Teleconference*, **88**, 255.
- Bietenholz, M. F., *VLBI Observations of the Compact Core of M81*, M. F. Bietenholz, N. Bartel, M. P. Rupen, J. E. Conway, A. J. Beasley, R. A. Sramek, J. D. Romney, M. A. Titus, D. A. Graham, V. I. Altunin, D. L. Jones, A. Rius, T. Venturi, G. Umana, K. W. Weiler, S. D. Van Dyk, N. Panagia, W. H. Cannon, J. Popelar & R. J. Davis, **88**, 245.
- Blake, C. C., *Variations of the He I  $\lambda 5876$  Profile in the Massive X-Ray Binary System HD 153919/4U 1700-37*, C. C. Blake, J. M. Marlborough, G. G. Fahlman & G. A. H. Walker, **88**, 257.
- Bohlender, David, *Spectrum Variability in the  $\lambda$  Boo Stars*, **88**, 257.
- Carignan, Claude, *NGC 5084: A Massive Spiral Galaxy Accreting Its Satellites*, **88**, 258.
- Chen, H., *Balmer Decrement  $D_{24}$  Studies of Be Star Envelopes*, H. Chen, A. R. Taylor, J. M. Marlborough, **88**, 258.
- Clark, T. A., *Detection of the H I  $n = 20 \rightarrow 19$  Transition in Emission in the Submillimetre Solar Spectrum*, T. A. Clark, D. A. Naylor, G. R. Davis & G. J. Tompkins, **88**, 258.
- Clement, Christine, *The Masses and Luminosities of the RR Lyrae Variables in the Globular Cluster NGC 2298*, **88**, 259.
- Davidge, T. J., *Deep J and K Imaging of Stars in the Globular Cluster M13*, T. J. Davidge & W. E. Harris, **88**, 259.
- Durrell, Patrick R., *Photometry of the Inner Halo of M31*, Patrick R. Durrell, William E. Harris & Christopher J. Pritchett, **88**, 259.
- Evans, N. R., *Resolved Companions of Classical Cepheids*, N. R. Evans & Andrzej Udalski, **88**, 260.
- Fernie, J. D., *AC Andromedae: The Missing Link Between  $\delta$  Scuti Stars and Classical Cepheids?*, **88**, 260.
- Fich, M., *The Bipolar Molecular Outflow NGC 2264G*, M. Fich & C. J. Lada, **88**, 247.
- Fleming, David E. B., *The Globular Cluster Systems of NGC 4494 and NGC 4565*, David E. B. Fleming, William E. Harris, Christopher J. Pritchett & David A. Hanes, **88**, 260.
- Forbes, Douglas, *Space and Planetary Science — A New Degree Program at Memorial?*, Douglas Forbes & Bill Iams, **88**, 255.
- Pismis 6 and the F0 Ia Supergiant HD 74180*, Douglas Forbes & Stephen Short, **88**, 260.
- Frankel, Arthur, *Science Teaching in the Secondary Schools*, **88**, 255.
- Fuller, Todd M., *Preliminary Study of Angular Separation in a Possible High Redshift Galaxy Cluster*, Todd M. Fuller & Gretchen L. H. Harris, **88**, 261.
- Gabuzda, D., *Unusual Evolution in the VLBI Structure of 0735+178*, **88**, 245.
- Gomez, M., *Filaments in the Spatial Distribution of the Pre-Main-Sequence Stars in the Taurus-Auriga Molecular Cloud*, **88**, 261.
- Gray, David F., *Stellar Activity Cycles: Complications*, **88**, 261.
- Gulliver, Austin F., *Vega: A Rapidly-Rotating Pole-On Star*, Austin F. Gulliver, Graham Hill & Saul J. Adelman, **88**, 261.
- Hajjar, Roger, *Millimetre Observations of Young Stellar Objects*, Roger Hajjar & Pierre Bastien, **88**, 262.
- Hasegawa, T. I., *Submillimetre Observations of HCO<sup>+</sup> in NGC 7538 IRS 9 and GL 490*, T. I. Hasegawa & G. F. Mitchell, **88**, 262.
- Hendry, Paul D., *Maximum Entropy Starspot Imaging of W UMa Systems, Preliminary Results*, **88**, 262.
- Hesser, James E., *Bimodal CN, CH Variations: The 47 Tucanae Main-Sequence*, James E. Hesser, M. M. Briley, R. A. Bell, M. Bolte & G. H. Smith, **88**, 263.
- Hill, G. M., *What is Normal Among the A-Type Stars*, **88**, 254.
- Holmgren, D. E., *Telluric Line Radial Velocities of Late-Type Giant Stars*, D. E. Holmgren & D. F. Gray, **88**, 263.
- Kary, D. M., *The Origin of the Trojan Asteroids?*, D. M. Kary & J. J. Lissauer, **88**, 253.
- Kim, Sang-Hee, *Can We Improve Upon "Astronomical Silicate"*, Sang-Hee Kim & P. G. Martin, **88**, 263.
- Kneppers, H. M., *Cosmological Clustering in a Gravitational N-Body Simulation*, H. M. Kneppers & H. M. P. Couchman, **88**, 264.
- Kronberg, Philip P., *A New Method for Measuring Total Galaxy Mass, Including Dark Matter Components*, Philip P. Kronberg & Charles C. Dyer, **88**, 244.
- Kwok, Sun, *Stellar Evolution on the AGB and Beyond*, **88**, 249.
- Landecker, T. L., *Radio and X-Ray Observations of the Supernova Remnant G65.2+5.7*, T. L. Landecker, A. G. Willis, W. Reich, E. Fürst & B. Aschenbach, **88**, 264.
- Leahy, D. A., *The ROSAT PSPC Spectrum of the Symbiotic Star CH Cygni*, D. A. Leahy & K. Volk, **88**, 264.
- Lee, Siow-Wang, *CO Observations of NGC 5775*, Siow-Wang Lee & Judith Irwin, **88**, 265.

- Lester, John B., *Opportunities in Near-Infrared Stellar Spectroscopy*, **88**, 248.
- MacLeod, J. M., *Detection of Extended  $J = 6 \rightarrow 5$  CO Emission From the Outflow Lobes of IRAS 04368 in Taurus*, J. M. MacLeod, Lorne W. Avery & Andy Harris, **88**, 265.
- Manset, Nadine, *Beauty and the Beast: The Polarimeter of University of Montreal*, Nadine Manset & Pierre Bastien, **88**, 265.
- Martel, Hugo, *Adaptive Smoothed Particle Hydrodynamics and the Simulation of Large-Scale Structures Formation*, Hugo Martel, Paul R. Shapiro, Jens V. Villumsen & Azita Valinia, **88**, 265.
- Martin, P. G., *Interstellar Pinball: A Sometimes Shocking Story of Excited Molecular Hydrogen*, **88**, 246.
- Polarization of the 2175 Å Extinction Feature*, **88**, 266.
- Matthews, J. M., *Opening a New Window on Ap Atmospheres*, J. M. Matthews, W. H. Wehlau, J. B. Rice & G. A. H. Walker, **88**, 51.
- Matthews, Jaymie, *Make Your Own Comet*, **88**, 255.
- McLaughlin, Dean E., *The Spatial Structure and Mass Spectrum of the Globular Cluster System of NGC 3311*, Dean E. McLaughlin, Jeff Secker, William E. Harris & Doug Geisler, **88**, 266.
- Mitalas, R., *Resonant Production of Deuterium in Primordial Nucleosynthesis*, **88**, 250.
- Mochnecki, S. W., *Magnetic Braking and Binary Star Evolution*, **88**, 248.
- Moffat, Anthony F. J., *Clumping and Mass-Loss in Hot-Star Outflows*, **88**, 251.
- Moriarty-Schieven, G. H., *Evolution of Circumprotostellar Environments*, G. H. Moriarty-Schieven, H. M. Butner, P. G. Wannura, Jocelyn Keene & M. Tamura, **88**, 249.
- Murakami, Izumi, *Dynamical Heating and Metallic Gas Supply by Elliptical Galaxies in Rich Clusters*, Izumi Murakami & Masayuki Umemura, **88**, 267.
- Murray, Norman, *Accretion Disk Winds From Active Galactic Nuclei*, Norman Murray, Scott Grossman & James Chiang, **88**, 253.
- Nelson, Robert W., *The Damping and Excitation of Galactic Warps by Dynamical Friction*, Robert W. Nelson & Scott Tremaine, **88**, 245.
- Percy, John, *Astronomical Research Opportunities for Senior High School Students*, **88**, 255.
- Piché, F., *Molecular Hydrogen Emission From Young Outflows in NGC 2264G*, F. Piché, J. L. Pipher & E. Howard, **88**, 252.
- Pinho, George P., *Laboratory Emission Spectra of Paraffins and Their Relation to Cometary Emission Between 3.3 Microns and 3.6 Microns*, George P. Pinho & Walt W. Duley, **88**, 267.
- Piskunov, N., *Surface Imaging of Stars*, **88**, 254.
- Procter, Alison I., *Population Gradients in the Globular Cluster NGC 4590*, **88**, 267.
- Redman, Russell O., *On the Capture of Satellites by a Non-Spherical, Rotating Asteroid*, **88**, 267.
- Richer, Harvey B., *Two Young Galactic Globular Clusters: Terzan 7 and Arp 2*, Harvey B. Richer, Gregory G. Fahlman, Roberto Buonanna & F. Fusi Pecci, **88**, 246.
- Roger, R. S., *A New High-Resolution Radio Image of the Cygnus Loop*, R. S. Roger & D. A. Leahy, **88**, 268.
- Rucinski, Slavek M., *Contact Binaries in Stellar Clusters*, **88**, 252.
- EUVE Observations of AB Doradus*, Slavek M. Rucinski & Stephen White, **88**, 268.
- Sasselov, Dimitar D., *Understanding the Spectrum of Helium*, **88**, 248.
- Schmidt, Bonnie, *The "Let's Talk Science" Initiative*, **88**, 255.
- Scott, Alan, *Theories of the 2175 Å Extinction Feature*, Alan Scott & W. W. Duley, **88**, 268.
- Secker, Jeff, *The Metal Abundances of Globular Clusters Around NGC 3311*, Jeff Secker, Dean E. McLaughlin, Doug Geisler & William E. Harris, **88**, 246.
- Shi, Jun, *A Search for Variable Stars in the Globular Cluster NGC 5897*, Jun Shi, G. G. Fahlman, Ian Thompson & S. M. Rucinski, **88**, 269.
- Short, Ian, *Missing Opacity in Red Giant Atmospheres*, Ian Short & John B. Lester, **88**, 269.
- Sills, Ken, *G-Modes in Varying G Cosmology*, Ken Sills & D. B. Guenther, **88**, 270.
- Sugars, Benjamin J. A., *Radial Velocity Studies of Classical Cepheids*, Benjamin J. A. Sugars & Nancy Ramage Evans, **88**, 270.
- Tapping, K. F., *Solar Microwave Emission and Coronal Structures*, **88**, 253.
- Taylor, A. R., *Infrared to Radio Studies of the Circumstellar Envelopes of Be Stars*, A. R. Taylor, H. Chen, S. M. Dougherty & L. B. F. M. Waters, **88**, 251.
- Tittley, Eric, *The Tomographic Separation of the Spectrum of Capella*, Eric Tittley, Karl Kamper & William G. Bagnuolo, **88**, 270.
- Turner, David, *Using a Laser Pointer and a Centurion Tank to Demonstrate Astronomical Objects*, **88**, 255.
- Turner, David G., *Stellar Evolution as a Real-Time Phenomena*, **88**, 270.
- Underhill, Anne B., *Notes on the Emission Lines in Seven O Stars*, **88**, 250.
- Viau, Serge, *Behaviour of Accretion Disks Around Young Stars*, Serge Viau & Pierre Bastien, **88**, 271.
- Waters, L. B. F. M., *Infrared Imaging of Dust Shells Around AGB and Post-AGB Stars: Mapping the Mass Loss History*, **88**, 249.
- Wehlau, W. H., *A High Resolution Spectropolarimeter*, W. H. Wehlau, J. B. Rice, P. Bastien, A. Moffat & K. Piskunov, **88**, 254.
- Welch, D. L., *An Independent Calibration of the Cepheid Distance Scale Using High-Precision Angular Diameters and a Near-Infrared Variant of the Barnes-Evans Method*, **88**, 247.
- Welch, G. W., *The Molecular Gas of NGC 185*, G. W. Welch & G. F. Mitchell, **88**, 271.

- Wesemael, F., *The Surface Layers of White Dwarf Stars*, **88**, 250.  
 Whippley, Partick, *Science Olympics*, **88**, 255.  
 Wilson, C. D., *In From the Edge: IC 10 at 240 kpc*, C. D. Wilson, D. L. Welch, I. N. Reid, A. Saha & J. G. Hoessel, **88**, 247.  
 Wing, David L., *Measuring Distant Globular Cluster Total Populations Using Brightness Fluctuations*, David L. Wing & Gretchen L. H. Harris, **88**, 271.  
 Wood, K., *Two New X-Ray Astronomy Missions*, **88**, 250.

### 1995 Meeting at the Dominion Radio Astrophysical Observatory, Penticton, British Columbia

- Aikman, G. C. L., *The Known Population of Near-Earth Asteroids*, **89**, 158.  
 Arnal, E. M., *The Impact of Wolf-Rayet Stars on Their Local Interstellar Medium*, **89**, 157.  
 Barkhouse, Wayne A., *The Abundance of Atomic Carbon in Outflows*, Wayne A. Barkhouse & George F. Mitchell, **89**, 173.  
 Bell, M. B., *SIS Focal-Plane Arrays for the James Clerk Maxwell Telescope*, M. B. Bell, T. H. Legg, K. Kornelsen, J. F. Vaneldik, D. Routledge & B. Veidt, **89**, 185.  
 Bohlender, D., *Isotopic Pt II Abundances in the Mercury-Manganese Star HR 7775*, D. Bohlender, M. Dworetzky & N. Crawley, **89**, 167.  
 Boyle, A., *The Scientists in School Programme*, **89**, 159.  
 Brewer, James P., *Asymptotic Giant Branch Stars and the Interstellar Matter*, James P. Brewer, Harvey B. Richer & Dennis R. Crabtree, **89**, 173.  
 Cabanac, Rémi A., *Preliminary Results of the 2.7-m UBC-Laval Liquid Mirror Telescope*, Rémi A. Cabanac, Paul Hickson, Ermanno F. Borra & Gordon A. H. Walker, **89**, 185.  
 Carignan, C., *The Total Mass of DDO 154*, C. Carignan & C. R. Purton, **89**, 170.  
 Chaboyer, Brian, *A Supergiant Supernova-Blown Bubble in NGC 1620*, Brian Chaboyer & J. Patricia Vader, **89**, 174.  
 Clement, Christine M., *A New Search for RR Lyrae Variables in the Globular Cluster M9 From CCD Observations*, **89**, 179.  
 Davidge, T. J., *Deep Near-Infrared Imaging of the Globular Cluster M22*, T. J. Davidge & W. E. Harris, **89**, 179.  
 Dawson, P. C., *Undoing Kinematic Bias in a Proper Motion Survey*, P. C. Dawson, R. G. Johnson & A. Rorabeck, **89**, 165.  
 De Robertis, M. M., *Addressing Science (I)literacy Using Fermi Questions*, **89**, 160.  
*A Continuum Search for Primeval Galaxies*, M. M. De Robertis & M. L. McCall, **89**, 170.  
 Demers, Serge, *A Newly Identified Outer Halo Globular Cluster*, Serge Demers, M. J. Irwin & W. E. Kunkel, **89**, 179.  
 Dewdney, P. E., *Canadian VLBI Correlator Signal Processing Architecture*, P. E. Dewdney, B. R. Carlson, T. A. Burgess, W. T. Petrachenko, D. D. Wellborn & R. V. Casorso, **89**, 185.  
 Ebberts, Angelic, *Astrometric VLBI Data Reduction With a Real-Time Phase-Connection Software Package*, Angelic Ebberts & Norbert Bartel, **89**, 186.  
 Forbes, D., *Hopedale, Port aux Basques, Rocky Harbour, All Around the Circle: Bringing Astronomy to Schools in Western Newfoundland and Labrador*, **89**, 160.  
 Frail, D. A., *Shock Excited Maser Emission from Supernova Remnants*, **89**, 166.  
 Galt, John, *Observations of 1.4 GHz Continuum Emission From Jupiter During Its Collision With Comet Shoemaker-Levy 9*, John Galt & Susan Watkins, **89**, 183.  
 Giacani, E. B., *A New Look at the Supernova Remnant W44*, E. B. Giacani, G. M. Dubner, P. F. Winkler, B. F. Williams, W. M. Goss, D. A. Frail & N. E. Kassim, **89**, 174.  
 Gray, A. D., *Probing the Interstellar Medium: 1420 MHz Polarimetry in the W3/4/5 Region*, A. D. Gray, T. L. Landecker, P. E. Dewdney, M. Normandeau & A. R. Taylor, **89**, 175.  
 Hanlan, Patricia C., *Does Rotation Affect X-Ray Emission in Elliptical Galaxies?*, Patricia C. Hanlan, Patricia M. Knezek & Joel N. Bregman, **89**, 170.  
 Hasegawa, T. I., *JCMT Observations of the GL 2591 Molecular Outflow*, T. I. Hasegawa & G. F. Mitchell, **89**, 173.  
 Herbig, George, *IC 349: Barnard's Merope Nebula*, **89**, 168.  
 Hill, G. M., *A Search for Wind Collisions in WR+O Binaries*, G. M. Hill, A. F. J. Moffat, N. St.-Louis & P. Bartzakos, **89**, 175.  
 Hovey, G. J., *A New Spectrometer for the DRAO Synthesis and 26-m Radio Telescopes*, G. J. Hovey, A. G. Willis, J. E. Sheehan, J. M. McKinley, R. J. Webber, R. V. Casorso, D. R. Karpas, P. E. Dewdney, T. L. Landecker & M. R. Ito, **89**, 186.  
 Hube, D., *Astronomy [in] Canada — A New Publication?*, **89**, 163.  
 Hughes, V. A., *An Investigation of the Cygnus-X Region — Is It Part of Gould's Belt*, V. A. Hughes & H. Ungerechts, **89**, 168.  
 Kary, David M., *Long-Term Capture of Comets by Jupiter*, **89**, 159.  
 Kingsburgh, Robin L., *The Discovery of H II Regions in Four Nearby Dwarf Irregular Galaxies*, Robin L. Kingsburgh & Marshall L. McCall, **89**, 171.  
 Landecker, T. L., *The Elliptical Supernova Remnant W63 (G82.2+5.3)*, T. L. Landecker, Zhang Xi-zhen, L. A. Higgs & Zheng Yi-jia, **89**, 175.  
 Leahy, D. A., *The ROSAT X-Ray Map of the Cygnus Loop*, D. A. Leahy & B. Aschenbach, **89**, 157.  
 Legg, T. H., *A Large Radio Telescope of New Design*, **89**, 166.  
 Levy, David, *A Universe for Children*, **89**, 159.  
 Lynder, David A., *IRO 2455+6034: A Newly Discovered Methanol Maser in Perseus*, David A. Lynder, John A. Galt & Seth W. Digel, **89**, 176.  
 Mandushev, Georgi I., *Deep CCD Photometry of the Galactic Globular Cluster M55*, Georgi I. Mandushev, Gregory G. Fahlman

- & Ian Thompson, **89**, 180.
- Moriarty-Schieven, G. H., *HI Photodissociation Regions Associated With O and B Stars*, G. H. Moriarty-Schieven, D. A. Leahy, T. Xie, P. G. Wannier, B.-G. Anderson, R. S. Roger & N. A. Patel, **89**, 164.
- Morris, Simon L., *X-Ray Evidence for a Hot Outflowing Wind in QSOs*, Simon L. Morris, Diana Chaytor & Ray J. Weymann, **89**, 171.
- Morton, Donald C., *Interstellar CO Absorption Lines*, **89**, 176.
- Murakami, I., *Evolution of Dwarf Galaxies in Various Environments*, I. Murakami & A. Babul, **89**, 162.
- Murray, James, *SPH Simulations of Shear Shocks*, James Murray & David Syer, **89**, 165.
- Naylor, D. A., *The Atmospheres of the Giant Planets*, D. A. Naylor & G. R. Davis, **89**, 184.
- Nelson, L. A., *On the Evolution of Binary Radio Pulsars Containing Degenerate Companions*, L. A. Nelson, T. Wood & W. Lee, **89**, 180.
- Normandeau, Magdalen, *The DRAO Galactic Plane Survey Pilot Project*, Magdalen Normandeau, A. R. Taylor & P. E. Dewdney, **89**, 177.
- Ouellette, John A., *The Nature and Evolution of Blue Stragglers*, John A. Ouellette & C. J. Pritchett, **89**, 181.
- Patton, David R., *Close Pairs of Field Galaxies in the CNOC Survey*, David R. Patton & Christopher J. Pritchett, **89**, 171.
- Perelmuter, Jean-Marc, *Thoughts on Merging Spirals Into Ellipticals*, **89**, 163.
- Pineault, S., *Galactic Rotation Curves and OB Associations*, **89**, 167.
- Pudritz, Ralph E., *Hydromagnetic Outflows and the Evolution of Molecular Clouds*, **89**, 165.
- Racine, René, *Very High Resolution Imaging With the Gemini Telescopes*, **89**, 166.
- Redman, R. O., *Maps of the Moon With the James Clerk Maxwell Telescope*, R. O. Redman, H. E. Matthews, R. Wade & G. Sandell, **89**, 184.
- Richer, M. G., *Planetary Nebulae: Their Use as a Tool to Probe the Evolution of Galaxies*, **89**, 161.
- Robb, Russell M., *Archival Hubble Space Telescope Observations of IC 4182*, Russell M. Robb, John Ouellette & Ana Larson, **89**, 161.
- Optical Observations of a Flare on the Spotted Star RE 0041+342*, **89**, 181.
- Roger, R. S., *Linear Polarization of the 1.4 GHz Emission from the Cygnus Loop*, R. S. Roger, D. A. Leahy & D. R. Ballantyne, **89**, 177.
- Rucinski, Slavek, *A Radio Survey of W Ursae Majoris-Type Systems*, **89**, 169.
- Scarfe, C. D., *The Two-Spectrum Giant Binary System Gamma Canis Majoris*, **89**, 182.
- Scott, Sandra L., *A Spectrographic Study of the Rapidly Oscillating Ap Star  $\gamma$ Equulei*, Sandra L. Scott & Jaymie M. Matthews, **89**, 182.
- Seaquist, E. R., *A Sub-Millimetre Hydrogen Recombination Line Maser in M82*, E. R. Seaquist & M. B. Bell, **89**, 172.
- Shaw, C. R., *Observations of an Intermediate Velocity Cloud in the Direction of the Globular Cluster M13*, C. R. Shaw, B. Bates, S. N. Kemp, F. P. Keenan, R. D. Davies & R. S. Roger, **89**, 178.
- Short, S., *The Luminosity and Initial Mass Function of NGC 6913*, S. Short & D. Forbes, **89**, 182.
- Simard, Luc, *Internal Kinematics of Faint Galaxies*, Luc Simard & Chris Pritchett, **89**, 172.
- Smegal, R. J., *Polarization Imaging With the DRAO Synthesis Telescope*, R. J. Smegal, T. L. Landecker, D. Routledge & J. F. Vaneldik, **89**, 186.
- Steinbring, E., *CCD Photometry of the Ellipsoidal Variable HR 4646*, **89**, 183.
- Sukumar, S., *Effects on Jupiter's Synchrotron Radio Emission Due to the Comet Shoemaker-Levy 9 Impacts*, **89**, 184.
- Tapping, K. F., *Schoolyard and Backyard Experiments in Astronomy*, **89**, 160.
- Solar Active Regions and Sources of the S-Component*, **89**, 169.
- Tielens, A. G. G. M., *Photodissociation Regions and the Heating and Cooling of the Interstellar Medium*, **89**, 163.
- Tremblay, B., *Mapping Dark Matter Around Early-Type Galaxies*, B. Tremblay, D. Merritt & T. B. Williams, **89**, 162.
- Turner, David G., *Circumstellar Contamination of the Interstellar Medium in Dynamically Well-Evolved Open Clusters*, **89**, 164.
- Astronomy Education Activities in the Halifax Area*, David G. Turner & David Lane, **89**, 160.
- Underhill, Anne B., *N III Emission Lines in Of Spectra: An Indication of Surface Magnetic Fields?*, **89**, 167.
- A New Puzzle Regarding the Diffuse Interstellar Lines*, **89**, 178.
- Veidt, B., *A Method for Integrating Josephson Effect Suppression Electromagnetics in Submillimetre Receivers*, B. Veidt, K. Kornelsen, J. F. Vaneldik, D. Routledge & M. J. Brett, **89**, 187.
- Wallace, B. J., *G74.9+1.2 — A Filled-Centre Supernova Remnant Interacting With the Interstellar Medium?*, B. J. Wallace, A. R. Taylor, T. L. Landecker & S. Pinneault, **89**, 157.
- Wang, Z. R., *The Morphology Analysis of Supernova Remnants and Their Evolution in a Multiphase Interstellar Medium*, **89**, 158.
- Wesemael, F., *A Second Look at the Optical Spectrum of the DAB White Dwarf GD 323*, F. Wesemael, P. Bergeron & E. Briand, **89**, 183.
- West, M. J., *Vagabond Globular Clusters*, **89**, 163.
- Willis, A. G., *A Source Model for AIPS++*, A. G. Willis & C. Guo, **89**, 166.
- Zingle, R. S., *A New Method of Determining the Relative Ages of Globular Clusters Using V and I Photometry*, **89**, 183.

## 1996 Meeting at Queen's University, Kingston, Ontario

- Aitken, G. J. M., *Atmospherically-Distorted Wavefronts as Filtered Fractional Brownian Motion*, G. J. M. Aitken, D. McGaughey & D. Rossille, **90**, 315.
- Balantekin, Baha, *Recent Progress in Solar and Neutrino Astrophysics*, **90**, 306.
- Barkhouse, Wayne A., *The Globular Cluster Population of Hickson Compact Group 22a (NGC 1199)*, Wayne A. Barkhouse, Michael J. West & Gregory Bothun, **90**, 309.
- Bartel, Norbert, *Multifrequency VLBI Investigations of Supernova 1993J in the Galaxy M81*, **90**, 311.
- Bastien, P., *The Circumstellar Environment of Weak-Line and Classical T Tauri Stars in the Taurus-Auriga Molecular Clouds*, P. Bastien, F. Ménard, T. Montmerle & C. Bertout, **90**, 310.
- Beauchamp, Dominique, *Étude des gradients de Mg and Fe dans le Spirales et Les Elliptiques à L'Aide de L'Imagerie avec des Filtres Interférentiels*, Dominique Beauchamp, Eduardo Hardy & Mercedes Mollá, **90**, 331.
- Bergbusch, Peter A., *CCD Photometry of the Bright Stars in the Core of NGC 362*, Peter A. Bergbusch & Ronald M. Blake, **90**, 328.
- Bertrand, J.-F., *Big Game Hunting: The Search for the Most Massive Stars*, J.-F. Bertrand, A. F. J. Moffat & N. St.-Louis, **90**, 319.
- Bietenholz, M. F., *The Spectral Index of the Crab Nebula*, M. F. Bietenholz, N. Kassim, D. A. Frail, R. A. Perley, C. Erickson & A. Hajian, **90**, 323.
- Blake, R. M., *NGC 6166 and Its Companions: An Interacting System?*, R. M. Blake & G. A. Welch, **90**, 331.
- Bohlender, D. A., *The Discovery of Nonradial Pulsations in the  $\lambda$  Bootis Star HD 111604*, D. A. Bohlender, J.-F. Gonzalez & E. J. Kennelly, **90**, 319.
- Bond, Richard, *Cosmic Background Anisotropies and Large Scale Structure: Past, Present and Future*, **90**, 309.
- Borra, E. F., *Liquid Mirrors: A Progress Report*, E. F. Borra, L. Girard, G. Moretto & G. Tremblay, **90**, 311.
- Bridges, Terry, *Kinematics and Metallicities of Globular Clusters in M104*, Terry Bridges, Dave Carter, Keith Ashman, Steve Zepf, Dave Hanes, J. J. Kavelaars & Ray Sharples, **90**, 328.
- Brueckner, Dieter W., *Allowing Students to Choose What They Wish to Learn in a General Interest Astronomy Course*, **90**, 312.
- Carlberg, R. G., *Omega From the CNO Cluster Survey*, R. G. Carlberg, H. K. C. Yee, E. Ellingson, S. Morris, R. Abraham, P. Gravel, F. D. A. Hartwick, J. E. Hesser, J. B. Hutchings, J. B. Oke, C. J. Pritchett & T. Smecker-Hane, **90**, 314.
- Casey, M. P., *Two-Dimensional Hydrodynamical Modelling of the Jet in M87*, M. P. Casey & David A. Clarke, **90**, 31.
- Chaboyer, Brian, *Improved Solar Models*, Brian Chaboyer, Sarbani Basu & J. Christensen-Dalsgaard, **90**, 306.
- Clarke, David A., *Hydrodynamical Simulations of the X-Ray Emitting Atmosphere of Cynus A*, David A. Clarke, D. E. Harris & C. L. Carilli, **90**, 315.
- Couchman, H. M. P., *Supercomputer Simulations of Cosmic Structure: Hydra and the Virgo Experiments*, H. M. P. Couchman, F. R. Pearce, P. A. Thomas, A. R. Jenkins, C. S. Frenck, J. M. Colberg & S. D. M. White, **90**, 314.
- Del Rizzo, D. A., *Astrometry of the Millisecond Pulsar B1937+21*, D. A. Del Rizzo, N. Bartel, J. F. Chandler, M. I. Ratner & I. Shapiro, **90**, 315.
- Devost, Daniel, *Découplage des Vecteurs Temps et Extinction par les Modélisation des Populations Stellaires*, **90**, 332.
- Dickinson, Terence, *The Splendor of the Universe: From Backyard Star Gazing to the Hubble Space Telescope*, **90**, 312.
- Durrell, Patrick R., *Globular Clusters in Virgo Dwarf Elliptical Galaxies*, Patrick R. Durrell, William E. Harris, Doug Geisler & Ralph Pudritz, **90**, 310.
- Dursi, L. Jonathan, *Measuring Hubble's Constant in Our Inhomogeneous Universe*, L. Jonathan Dursi, Xiangdong Shi & Larry M. Widrow, **90**, 336.
- Dutil, Yvan, *The O/H Abundance Distribution in the Large Spiral Galaxy NGC 4258*, **90**, 332.
- Ebbers, A., *VLBI Astrometry of the Compact Core of M81 With an Interactive Phase-Connection Software Package*, A. Ebbers & N. Bartel, **90**, 316.
- Ellingson, E., *An Ultra-Luminous Proto-Galaxy Candidate Discovered by the CNO Survey*, E. Ellingson, H. K. C. Yee, Jill Bechtold, R. Elston & R. G. Carlberg, **90**, 313.
- Ellis, Richard, *Hubble Space Telescope Studies of Distant Galaxies*, **90**, 313.
- English, Jayanne, *The Ionized Gas and Radio Halo of NGC 3432 (Arp 206)*, Jayanne English & Judith A. Irwin, **90**, 332.
- Erhardt, L. S., *A Cryogenic Detector for WIMP Dark Matter*, L. S. Erhardt, D. Deptuck, J. P. Harrison & L. Widrow, **90**, 336.
- Fich, Michel, *IRAS Observations of the Outer Galaxy*, Michel Fich & Susan Tereby, **90**, 333.
- Forbes, Douglas, *Another "Normal" Cluster: No Age Spread or Low-Mass Star Deficit in NGC 4103*, **90**, 329.
- Freeman, Ken, *Dark Matter In the Galaxy: News from MACHO*, **90**, 311.
- An Intergalactic HI Cloud: Preliminary Results*, Ken Freeman, Jayanne English & R. P. Norris, **90**, 333.
- Frei, B. D., *An Analytic Description of a Magnetic Field for a Superbubble*, B. D. Frei, R. N. Henriksen & J. A. Irwin, **90**, 323.
- Garrison, R. F., *Spectroscopic Monitoring of HD 49798: A Hot Subdwarf With an X-Ray Pulsating Companion*, **90**, 319.
- Giguère, D. L., *Supershells in the Spiral Galaxy M108*, D. L. Giguère & J. A. Irwin, **90**, 324.
- Godbout, Steve, *The H II Region Sharpless 269: A Morphological Study of Its Radial Velocity, Velocity Dispersion and Density Fields*, **90**, 324.
- Gray, David F., *Variation of the Solar Temperature 1978-92*, **90**, 306.
- Gregory, P. C., *Two New Radio Catalogues From the UBC Northern Hemisphere Radio Patrol Project*, P. C. Gregory & W. K.

- Scott, **90**, 316.
- Hajjar, Roger, *LkH $\alpha$  198 and MWC 1080 Revisited*, Roger Hajjar & Pierre Bastien, **90**, 324.
- Halpern, Mark, *Measuring the Anisotropy of the Cosmic Microwave Background: Results From the First Flight of BAM (the Balloon Background Anisotropy Measurement)*, **90**, 309.
- Harris, Gretchen L. H., *Creation of "Artificial" Open Clusters for IRAF Analysis in Undergraduate Courses*, Gretchen L. H. Harris & Gisèle Dagenais, **90**, 312.
- Harris, William, *Islands in the Stream: How to Understand Your Subject in Five Easy Lessons*, **90**, 309.
- Hasegawa, T. I., *CO J = 3  $\rightarrow$  2 Mapping of the GL 2591 Molecular Outflow*, T. I. Hasegawa, G. F. Mitchell & H. E. Matthews, **90**, 324.
- Hesser, J. E., *Current and Future Utilization of HIA's Telescopes in Victoria*, **90**, 316.
- Higgs, L. A., *Multi-Frequency Radio Spectral Studies of the Supernova Remnant G78.2+2.1*, L. A. Higgs, T. L. Landecker, X. Z. Zhang & Y. J. Zheng, **90**, 325.
- Hudson, Michael J., *Galaxy-Galaxy Gravitational Lensing in the Hubble Deep Field*, Michael J. Hudson & Stephen Gwyn, **90**, 308.
- Hughes, V. A., *A Study of the Star Forming Region Cepheus A*, **90**, 307.
- Irwin, Judith, *Molecular Gas in Cooling Flow Galaxies: NGC 1275 in Perseus*, Judith Irwin & Terry Bridges, **90**, 333.
- Johnstone, D., *Externally Induced Evaporation of Young Stellar Disks in Orion*, D. Johnstone, F. Shu & D. Hollenbach, **90**, 319.
- Kaisler, Denise, *Old-Halo Globular Clusters in NGC 1275*, Denise Kaisler, William E. Harris, Dennis R. Crabtree & Harvey B. Richer, **90**, 329.
- Kavelaars, J. J., *The Globular Cluster System of NGC 3115*, J. J. Kavelaars & D. A. Hanes, **90**, 329.
- Kenny, H. T., *Nebular Evolution in the Symbiotic Star AG Pegasi*, H. T. Kenny, A. R. Taylor, S. P. S. Eyres, R. J. Davis, M. F. Bode & M. Bang, **90**, 320.
- Krawchuk, Curtis A. P., *SNAP: Spreadsheet Nebular Analysis Package*, Curtis A. P. Krawchuk, Marshall L. McCall, Michael Komljenovic, Robin Kingsburgh, Michael Richer & Christopher Stevenson, **90**, 317.
- Lépine, Sébastien, *The Wolf-Rayet Star  $\gamma$  Velorum Under Close Scrutiny: Very Fine Detail of the Variations in the Broad C III  $\lambda$ 5696 Emission Line*, Sébastien Lépine, Thomas Eversberg & Anthony F. J. Moffat, **90**, 321.
- Lee, Henry, *The Environmental Impact of the Cluster Environment on Dwarf Galaxies*, Henry Lee & Marshall L. McCall, **90**, 334.
- Lee, Man Hoi, *On the Validity of the Coagulation Equation and the Nature of Runaway Growth*, **90**, 320.
- Lee, Siow-Wang, *Neutral Hydrogen in the Edge-On Spiral Galaxy NGC 3044: Global Properties and the Discovery of HI Supershells*, Siow-Wang Lee & Judith A. Irwin, **90**, 325.
- Lin, H., *The Luminosity Function of Field Galaxies in the CNOCl Redshift Survey*, H. Lin, H. K. C. Yee, R. G. Carlberg & E. Ellingson, **90**, 337.
- Loken, C., *The X-Ray Luminosity Functions and Gas Mass Functions for Poor and Rich Clusters of Galaxies*, C. Loken, J. Burns, M. Ledlow, A. Klypin, Wolfgang Voges, Greg L. Bryan, Michael L. Norman & Richard A. White, **90**, 308.
- Madushev, Georgi I., *A Photometric Study of the Globular Cluster M55*, Georgi I. Madushev, Gregory G. Fahlman, Harvey B. Richer & Ian B. Thompson, **90**, 330.
- Matthews, H. E., *Submillimetre Observations of Two Exceptional Comets*, **90**, 307.
- Matthews, J. M., *Probing the Atmospheres of Pulsating Ap Stars*, **90**, 321.
- Mattheus, Brenda C., *Casper: A Spooky Supernova Remnant-Pulsar Association?*, Brenda C. Mattheus, Russ Taylor & Bradley J. Wallace, **90**, 326.
- McCutcheon, W. H., *A Multi-Wavelength Study of the Star Forming Complex NGC 6334*, W. H. McCutcheon, H. E. Matthews, G. J. White & T. B. H. Kuiper, **90**, 321.
- McDonald, Art, *The Sudbury Neutrino Observatory*, **90**, 306.
- McLaughlin, Dean E., *A Model for the Internal Structure of Molecular Cloud Cores*, Dean E. McLaughlin & Ralph E. Pudritz, **90**, 326.
- Moriarty-Schieven, Gerald H., *The JCMT-SMA Connection*, Gerald H. Moriarty-Schieven, Russell O. Redman & Christine D. Wilson, **90**, 317.
- Patton, D. R., *Interacting Pairs of Field Galaxies in the CNOCl Redshift Survey*, D. R. Patton, C. J. Pritchett, H. K. C. Yee, R. G. Carlberg & E. Ellingson, **90**, 334.
- Percy, John R., *Science by Starlight*, John R. Percy & Janet A. Mattei, **90**, 311.
- The Universe in Your Classroom: New Developments and Resources for Teaching Astronomy in High Schools and Beyond*, **90**, 312.
- The Nature of the Period Changes in RV Tauri Stars*, John R. Percy, Michael Beuhly, Monica Milanowski & Endre Zsoldos, **90**, 322.
- Perrett, Kathryn, *The Globular Cluster Systems of Two Eridanus A Galaxies*, Kathryn Perrett, David A. Hanes, S. T. Butterworth & J. J. Kavelaars, **90**, 330.
- Pineault, Serge, *WR 134: A Wolf-Rayet Star With a Bow Shock Inside Its Ring Nebula*, **90**, 307.
- Plante, Stéphanie, *Stellar Winds of O Stars at Different Metallicities: Ultraviolet Spectroscopy*, Stéphanie Plante & Carmelle

- Robert, **90**, 322.
- Pudritz, Ralph E., *Accretion Disks Around Class 0 Protostars: The Case of VLA 1623*, Ralph E. Pudritz & Christine Wilson, **90**, 310.
- Purton, C. R., *AFGL 490-iki: A Second Outflow Object in Cam OB1*, C. R. Purton, D. A. Lyder, A. C. Gower & D. S. Belton, **90**, 326.
- Ransom, R. R., *VLBI of the Candidate Guide Star HR 5110 for NASA's Gravity Probe-B Mission*, R. R. Ransom, N. Bartel, M. F. Bietenholz, M. I. Ratner, I. I. Shapiro, D. E. Lebach & J.-F. Lestrade, **90**, 318.
- Rauch, Kevin P., *Resonant Relaxation in Stellar Systems*, Kevin P. Rauch & Scott Tremaine, **90**, 334.
- Richer, Harvey B., *HST Observations of White Dwarfs in Globular Clusters*, Harvey B. Richer, Gregory G. Fahlman, Rodrigo A. Ibata, James E. Hesser, Peter B. Stetson, William E. Harris, Don A. Vandenberg, Carlton Pryor, Howard E. Bond, Michael Bolte & Roger A. Bell, **90**, 309.
- Rorabeck, A. J., *Fourier Parameters for Beat Cepheids in the LMC: Properties of the Second Overtone*, A. J. Rorabeck, D. L. Welch, C. Alcock, R. Allsman, D. Alves, T. Axelrod, A. Becker, D. Bennett, K. Cook, K. Feeman, K. Griest, J. Guern, M. Lehner, S. Marshall, D. Minniti, B. Peterson, M. Pratt, P. Quinn, A. Rodgers, C. Stubbs & W. Sutherland, **90**, 322.
- Rucinski, Slavek, *STEDY: (STE)llar (DY)namics Satellite — Concept of an Astronomical Micro-Satellite*, Slavek Rucinski & Kieran Carroll, **90**, 318.
- Rutledge, G. A., *A New Metallicity Scale for the Galactic Globular Cluster System*, G. A. Rutledge, J. E. Hesser & P. B. Stetson, **90**, 330.
- Sawicki, M. J., *Photometric Redshifts in the Hubble Deep Field*, M. J. Sawicki, H. K. C. Yee & H. Lin, **90**, 337.
- Shi, Xiangdong, *The Proximity Effect of QSO Metal Line Absorption Systems on Lyman  $\alpha$  Forests*, **90**, 337.
- Sibille, François, *First Results from ISOCAM, the Camera of the Infrared Space Observatory*, **90**, 315.
- Simard, Luc, *Internal Kinematics of a Sample of Galaxies at  $z = 0.25-0.45$* , Luc Simard & Christopher J. Pritchett, **90**, 334.
- Squires, G., *Weak Gravitational Lensing By Galaxy Clusters*, **90**, 308.
- Steinhardt, Paul, *Cosmic Concordance/Cosmic Coincidence*, **90**, 309.
- Tapping, Ken, *Flares and Energy Dissipation in Solar Active Regions*, **90**, 322.
- Taylor, A. R., *The DRAO Galactic Plane Survey Project*, A. R. Taylor, D. Leahy, C. Carignan, N. St.-Louis, M. Fich, N. Ghazzali, J. Irwin, G. Joncas, S. Pineault, P. Martin, W. McCutcheon, D. Routledge, F. Vaneldik, P. Dewdney, S. Dougherty, J. Galt, A. Gray, L. Higgs, T. Landecker, C. Purton, R. Roger, K. Tapping, T. Willis, H. Matthews, G. Moriarty-Schieven, D. Crabtree, C. Beichman, S. Tereby, N. Duric, D. Green, C. Heiles, M. Heyer, W. Langer, D. Watson, H. Wendker & Z. Zhang, **90**, 326.
- Taylor, Christopher L., *The H I Companions of H II Galaxies and Low Surface Brightness Dwarf Galaxies*, **90**, 335.
- Tittley, Eric, *The Effect of Substructure on the Final State of Matter in an X-Ray Cluster*, Eric Tittley & H. M. P. Couchman, **90**, 337.
- Turner, David G., *Writing Science So That It Can Be Understood By All*, **90**, 313.
- The Motion of the Sun Relative to the Local Standard of Rest*, **90**, 335.
- Vallée, Jacques P., *Magnetic Eyes — Astronomy With Polarimeters at Radio and Extreme-Infrared Wavelengths*, **90**, 327.
- VanDalfsen, Marcel, *Near Infrared Surface Brightness of the Galactic Pole*, Marcel VanDalfsen & Marshall L. McCall, **90**, 336.
- Wade, G. A., *Magnetic Cartography of A and B Stars*, **90**, 323.
- Welch, G. A., *The Origin and Fate of the Interstellar Medium of NGC 205 — Clues Provided by Its Kinematics*, G. A. Welch & G. F. Mitchell, **90**, 327.
- Welty, Daniel E., *A High-Resolution Survey of Interstellar Ca II Absorption*, Daniel E. Welty, Donald C. Morton & L. M. Hobbs, **90**, 327.
- Willis, A. G., *Post Observation "Adaptive Optics" With the DRAO Synthesis Telescope*, **90**, 318.
- Wilson, Christine D., *Physical Conditions in Molecular Clouds in the Dwarf Irregular Galaxies IC 10 and NGC 6822*, Christine D. Wilson & Glen Petitpas, **90**, 328.
- Wing, David L., *Brightness Fluctuation Observations of the Globular Cluster Systems in NGC 3842 and NGC 4874*, David L. Wing & Gretchen L. H. Harris, **90**, 331.
- Yee, H. K. C., *The CNOC Cluster Redshift Survey*, **90**, 313.



# ABSTRACTS OF PAPERS PRESENTED AT THE ANNUAL GENERAL ASSEMBLY OF THE ROYAL ASTRONOMICAL SOCIETY OF CANADA (1969–1996)

## 1969 General Assembly at Montréal

- Chilton, Ken, *The Bologna, Italy, Meeting of the IUAU*, **63**, 152.  
Craig, Steven, *Solar Darkroom Techniques*, Steven Craig & Ken Hewitt-White, **63**, 152.  
Delmonico, K., *An Improved, Versatile, Inexpensive Astronomical and Chemical Spectrometer*, K. Delmonico, R. M. Kalra & Bill Walker, **63**, 152.  
Fallows, D. H., *Astronomical Manifestations in History and Scripture*, **63**, 152.  
*The Use of Closed Circuit TV in Conjunction With Amateur Astronomical Telescopes*, **63**, 152.  
Feibelman, W. A., *The Planetary Nebula in M15*, **63**, 152.  
Ketchum, Jesse, *A New Trick in Mirror Grinding*, **63**, 152.

## 1970 General Assembly at Edmonton

- Burke, M. D., *Photoelectric Observations of Lunar Occultations*, M. D. Burke, G. L. Cumming, D. P. Hube, C. C. Lin & E. H. Pinnington, NN, **64**, 9.  
Chilton, Kenneth, *Hamilton Centre's Eclipse Team and the Eclipse of March 7, 1970*, NN, **64**, 9.  
Fallows, D. H., *Comet Bennett (1969i) — Observations in March and April 1970*, NN, **64**, 9.  
Gilday, H., *Meteor Observing 1969-1970: Orientation, Objectives and Photography*, NN, **64**, 9.  
Gould, J. B., *A Home-Built Basement Planetarium*, NN, **64**, 9.  
Hodgson, G. W., *Lunar Organic Matter: Pre-Biotic Evolution?*, NN, **64**, 9.  
Howell, J., *Developments in the Field of Observing and Reduction of Lunar Occultations*, NN, **64**, 9.  
Lavery, R., *Variable Interests*, NN, **64**, 9.  
McLennan, Ian, *Planetariums I Have Known — and Nearly Loved!*, NN, **64**, 9.  
Milton, E. R., *Visible Photometry of the Aurora*, NN, **64**, 9.  
Odgers, G. J., *The 157-inch Canadian Optical Telescope*, NN, **64**, 9.  
Simon, R., *Meteor Observing 1969-1970: Results*, NN, **64**, 9.  
Sonstenes, L., *Meteor Observing 1969-1970: Systems, Problems, Etc.*, NN, **64**, 9.

## 1971 General Assembly at Hamilton

- Dodge, David, *Electrical Meteor Watch*, David Dodge & David Hurd, NN, **65**, 9.  
Gies, Douglas, *Observations of Comet Abe (1970g)*, Douglas Gies & Richard McWatters, NN, **65**, 9.  
Higgs, L. A., *The Ottawa Centre Observatory*, NN, **65**, 9.  
Tattersall, Peter, *A Photomechanical Method of Preparing Isophotal Contours*, Peter Tattersall & B. R. Chou, NN, **65**, 9.  
Thede, G. A., *A Proposal to Measure Shadow Bands Electronically*, NN, **65**, 9.  
Winder, Bob, *Some Grazing Occultation Experiences of the Niagara Falls Centre*, NN, **65**, 9.

## 1972 General Assembly at Vancouver

- Andreae, Peter, *In Praise of An 8-inch F/7 Newtonian*, NN, **66**, 13.  
Fallows, Donovan, *The Astronet — Rapid International Interchange of Astronomical Data by Amateur Radio*, NN, **66**, 13.  
Hewitt-White, Ken, *An Investigation into Meteor Rates and Shower Classifications — A Problem of Statistical Reduction and Interpretation*, NN, **66**, 13.  
Howell, F. John, *Amateur Astronomers Assist the Apollo Missions*, NN, **66**, 13.  
Kennedy, J. E., *Time and Its Measurement in Fredericton*, NN, **66**, 13.  
Lavery, Rick, *Observations of Quasi-Stellar Sources with the Ottawa Centre 16-inch Telescope*, NN, **66**, 14.  
Livingstone, J. L., *A Large Amateur Observatory for the London Area*, NN, **66**, 13.  
Muses, C., *A Note on the History of Gravitational Theory and its Observational Verification*, NN, **66**, 13.  
Shinn, B. Franklyn, *An Experiment to Determine Spacing and Direction of Travel of Shadow Bands at the Total Eclipse of the Sun, July 1972*, NN, **66**, 13.

## 1973 General Assembly at Ottawa

- Allcock, John, *The 20.5-inch Buchroeder Catadioptric Telescope of the Montreal Centre*, RASC, NN, **67**, 18.  
Andreae, Peter, *An Easy Graph for the Figure of a Telescope Mirror*, NN, **67**, 18.  
Berry, Richard, *Astronomy's Neglected Child: The Long-Focus Refractor*, NN, **67**, 18.  
Coia, Hery, *Construction of a Ritchey-Chretien Telescope*, NN, **67**, 18.  
Douglas, A. Vibert, *Al-Biruni: 793-1048*, NN, **67**, 18.

- Gada, Andreas, *Highlights of Astronomy Club Day*, NN, **67**, 18.  
 Gagnon, Roger, *Astronomy at the Summer Camp at Port au Saumon, P. Q.*, NN, **67**, 18.  
 Gaizauskas, V., *The Ottawa River Solar Observatory*, NN, **67**, 18.  
 Lossing, F. P., *Activities at North Mountain Observatory*, NN, **67**, 18.  
 Millman, Peter M., *Mars, the Old View and the New Concept, A Contrast*, NN, **67**, 18.  
 Noël de Tilly, Rolland, *An Orrery in Use in Canada Since 1835*, NN, **67**, 18.  
 Pike, Rob, *Observations of Sunspot Motions and Related Phenomena, 1972*, NN, **67**, 18.  
 Winder, G. R., *Colour Astrophotography on a Small Budget*, NN, **67**, 18.

### 1974 General Assembly at Winnipeg

- Baldwin, Marvin E., *New Elements for Some Eclipsing Binary Stars II*, NN, **68**, 22.  
 Chilton, K. E., *The Suspected Variability of HD 33162*, NN, **68**, 22.  
 Cohen, Nathan, *A Possible Correlation Between Jovian Decametric Bursts and Io Sodium Emission*, NN, **68**, 22.  
 Covington, A. E., *2800 MHz Solar Noise Observations for the Major Gradual Rise and Fall Burst of June 15, 1972*, NN, **68**, 22.  
 Ford, Clinton B., *Newly Revised Catalog of Preliminary Charts*, NN, **68**, 22.  
 Mattei, Janet Akyüz, *SS Cygni — From Discovery to Present*, NN, **68**, 22.  
 Mattei, Michael, *Animated Algol*, NN, **68**, 22.  
 Mayer, Ernest H., *Inner Sanctum Techniques with Small Telescopes*, NN, **68**, 22.  
 Newton, J. B., *Some Observations of Comet Kohoutek*, NN, **68**, 22.  
 Percy, John R., *Some Comments on Astronomical Education for the Schools and for the Public*, NN, **68**, 22.  
 Pike, Robert, *An Amateur Solar Telescope for Direct Observation*, NN, **68**, 22.  
 Reed, Glen, *Observation of the Outer Atmosphere of Saturn*, Glen Reed & F. John Howell, NN, **68**, 22.  
 Small, Bruce F., *Eight Cepheids in CAS*, NN, **68**, 22.  
 Taylor, Mary Jane, *Relationships — Waldmeier Grouping, Solar Flares*, NN, **68**, 21.  
 Weston, Edwin B., *Variable Stars as Observed in Infrared and Visual Radiation*, NN, **68**, 22.

### 1975 General Assembly at Halifax

- Brooks, Randall C., *A Suggested Experiment for Colour Astrophotography*, NN, **69**, 50.  
 Covington, A. E., *Goth Hill Radio Observatory, 1948-1971*, NN, **69**, 50.  
 Cunningham, R. M., *The Philately of Nicolaus Copernicus*, NN, **69**, 50.  
 Garrett, Christopher, *Tides, Tidal Power and Cosmology*, NN, **69**, 50.  
 Gies, Douglas R., *Astronomical Alignments of the Nine Ladies Stone Circle*, NN, **69**, 50.  
 Grey, Mary W., *Reincarnation of the 15-inch Equatorial from the Dominion Observatory to National Museum of Science and Technology*, NN, **69**, 50.  
 Howell, F. John, *Where and When Did It Fall? (The Iron Creek Meteorite)*, NN, **69**, 50.  
 Kennedy, Ed, *Astronomy 300 Years Ago — A Salute to the Greenwich Tercentenary*, NN, **69**, 50.  
 Kennedy, J. E., *Solar Eclipse Expedition of 1860 to Northern Manitoba*, NN, **69**, 50.  
 Paton, B., *Photometry for the Amateur*, B. Paton & C. Purcell, NN, **69**, 50.  
 Pike, Robert, *Image Quality in Amateur Instruments*, NN, **69**, 50.  
 Silvert, William, *Rotation of the Sun: An Elementary Science Experiment*, NN, **69**, 50.  
 Sperling, Norman, *Henry Fitz, Jr. (1808-1863)*, NN, **69**, 50.  
 Zukauskas, Walter P., *Reanalysis of W Crovi*, NN, **69**, 51.

### 1976 General Assembly at Calgary

- Bishop, R. L., *Magnitudes, Photons and the Eye*, NN, **70**, 50.  
 Bogan, L. D., *The Use of a "Flat Star Globe" or Cylindrical Astrolabe*, NN, **70**, 50.  
 Grey, Mary W., *The Film "Communing with the Heavens"*, NN, **70**, 51.  
 Jones, J. D., *Using Compass and Protractor to Locate Planets*, NN, **70**, 51.  
 Kennedy, J. E., *The Total Solar Eclipse of 1979 February 26*, NN, **70**, 51.  
 Patterson, G. N., *A Planetary and Lunar Astrophotography Exposure Guide*, NN, **70**, 49.  
 Peters, William T., *Diagonal Mirrors*, William T. Peters & Robert Pike, NN, **70**, 50.  
 Pike, R., *The Sky Brightness Programme and the Growth of Light Pollution*, NN, **70**, 50.  
 Scarfe, C. D., *Photoelectric Photometry with a Small Telescope*, NN, **70**, 51.  
 Somers, D., *Application of the Photoelectric Photometer in Amateur Astronomy*, NN, **70**, 51.  
 Teece, P., *Burnhams's Binaries: Some Historical Comments*, NN, **70**, 50.

### 1977 General Assembly at Toronto

- Bishop, Roy L., *A Nineteenth Century Nova Scotia Observatory*, NN, **71**, 52.  
*An Eighteenth Century Nova Scotia Observatory*, NN, **71**, 52.  
 Dick, R., *Photoelectric Photometry for Amateurs*, R. Dick & D. Welch, NN, **71**, 54.

- Edwards, Michael P., *An Automatic Grinding Machine*, NN, **71**, 53.  
 Gada, Andreas, *Astronomy for Campers: An Approach to Public Education in Astronomy on the Introductory Level*, NN, **71**, 53.  
 Halliday, Ian, *Recovery of the Innisfree, Alberta, Meteorite*, Ian Halliday, Alan T. Blackwell & A. A. Griffin, NN, **71**, 54.  
 Hogg, Helen Sawyer, *The Brightest Variable Stars in Globular Clusters*, Helen Sawyer Hogg & Christine Coutts-Clement, NN, **71**, 55.  
 Meier, Rolf, *Solid State Photometer*, NN, **71**, 54.  
 Newton, Jack, *Techniques for Deep-Sky Photography*, NN, **71**, 53.  
 Patterson, Gordon N., *Making a Photographic Star Atlas*, NN, **71**, 54.  
 Reber, Grote, *The Endless, Boundless, Stable Universe*, NN, **71**, 53.  
 Ryback, Peter R., *The Temiskaming Astronomical Society*, NN, **71**, 53.  
 Shore, Steven N., *The 400<sup>th</sup> Anniversary of the Comet of 1577: A Discussion of the Observations*, Steven N. Shore & Lys Anne T. Shore, NN, **71**, 52.  
 Sperling, Norman, *Cracking the Eyepiece Solar Filter Problem*, NN, **71**, 55.  
 van Zandt, R. P., *The Astronomical League*, NN, **71**, 52.

### 1978 General Assembly at Edmonton

- Beck, Doug, *Qualitative Polar Alignment of an Astronomical Telescope*, NN, **72**, 58.  
 Bishop, Roy L., *The Moon and Fundy*, NN, **72**, 58.  
 Chou, B. Ralph, *Eye Injuries and the Solar Eclipse*, NN, **72**, 60.  
 Coldwell, Lary, *Amateur Built Multi-Mirror Telescope*, NN, **72**, 58.  
 Edwards, Peter J., *A Titillating Testing Technique or Milliès-Lacroix Mirror Marvel*, NN, **72**, 58.  
 Fallows, D. H., *Performing CPR on/for the Local Astronomy Club*, NN, **72**, 59.  
 Grey, Mary, *The Canadian Solar Eclipse Expedition to Labrador, 1905*, NN, **72**, 59.  
 Hewitt-White, Ken, *Community Astronomy: A Public Astronomy Programme for BC*, NN, **72**, 59.  
 Holmes, M., *Scientific Models*, NN, **72**, 58.  
 Jedicke, Peter, *From Hess to HEAO: The History of High-Energy Astronomy*, NN, **72**, 57.  
 Jones, J. D., *Design for a Narrow-Band Solar Telescope*, NN, **72**, 59.  
 Meier, Rolf, *The Discovery of Comet Meier (1978f)*, NN, **72**, 59.  
 Musgrove, John, *The Mobile Planetarium of the Province of Alberta*, John Musgrove & Art Pederson, NN, **72**, 59.  
 Newton, Jack, *A Guide to Guiding*, NN, **72**, 58.  
 Percy, John R., *Observing Dwarf Cepheids for Fun and Profit*, John R. Percy, Robert Dick & Douglas Welch, NN, **72**, 57.

### 1979 General Assembly at London

- Brooks, Randall C., *Astronomy, Navigation and Nova Scotia in the Eighteenth Century*, NN, **73**, 62.  
 Broughton, Peter, *Flamsteed's Mysterious Star, 3 Cas*, NN, **73**, 63.  
 Edwards, Michael P., *The Construction of a Lensless Schmidt Camera or a Project Without an Objective*, NN, **73**, 62.  
 Jones, J. Don, *Very Small Computers Applied to Astronomy*, NN, **73**, 62.  
 Levy, David H., *An Astronomy Programme for Young Children*, NN, **73**, 63.  
 Morrison, Warren, *Nova Cygni 1978*, NN, **73**, 61.  
 Schieven, Gerald, *Project Zubenelgenubi 1978*, NN, **73**, 62.  
 Sperling, Norman, *Exploring Planet Earth*, NN, **73**, 63.  
 Tapping, Ken, *The Ottawa Centre's Radio Telescope*, NN, **73**, 61.  
*Radio Observations of the February 1979 Solar Eclipse*, NN, **73**, 61.  
 Wehlau, W. H., *The Canada-France-Hawaii Telescope; An Opportunity for Canadian Astronomers*, NN, **73**, 61.  
 Zukauskas, Walter, *RASCH Observations of Delta Cephei*, NN, **73**, 63.

### 1981 General Assembly at Victoria

- Aikman, Chris, *Dimensions of Asteroids 216 Kleopatra and 48 Doris from Occultation Timings*, NN, **75**, 60.  
 Batten, Alan H., *Cleveland Abbe and Otto Struve*, NN, **75**, 59.  
 Beattie, Brian, *An Account of the 6-Inch Cooke Refractor in Toronto*, NN, **75**, 59.  
 Chou, Bernt Ralph, *Eye Injuries Following the Solar Eclipse of February 1979*, NN, **75**, 59.  
 Clarke, Thomas R., *Some Activities in Communicating Astronomy at the McLaughlin Planetarium*, NN, **75**, 59.  
*A Small Collection of Antique Instruments at the McLaughlin Planetarium*, NN, **75**, 59.  
 Enwright, Leo, *An Observatory Building Project*, NN, **75**, 58.  
 Fallows, Donovan H., *Astronomical Installations in Britain — Ancient and Modern*, NN, **75**, 59.  
 Graham, Glenn, *Editing a Centre Newsletter*, NN, **75**, 60.  
 Hewitt-White, Ken, *Transporting a 12½-Inch Newtonian Telescope*, NN, **75**, 60.  
 Jedicke, Peter, *Economic Considerations for the Future of Optical Astronomy*, NN, **75**, 60.  
 Levy, David H., *The Orion Nebular Variable Stars: A Symphony of Delicacy and Brilliance*, NN, **75**, 59.

Linkletter, Richard, *The Effect of Astronomical Influence on Geological Events*, NN, **75**, 59.  
McGregor, Ian, *July's Partial Eclipse of the Moon*, NN, **75**, 60.  
Moffat, Paul, *Solid-State Imagery for the Amateur*, NN, **75**, 60.  
Newton, Jack, *A Cold Camera for Astrophotography*, NN, **75**, 60.  
Tohill, Tom, *Driving Ball-Mount Telescopes*, NN, **75**, 60.

### 1982 General Assembly at Saskatoon

Broughton, Peter, *Do You See Something I Don't See*, NN, **76**, 52.  
DuPuy, David L., *A Sturdy Lightweight Photometer*, David L. DuPuy & Randall C. Brooks, NN, **76**, 54.  
Jones, Don, *Use of a Computer in Astronomy*, NN, **76**, 53.  
Kennedy, J. E., *A Sudden Outburst of Circumferentors in Western Canada*, NN, **76**, 54.  
Majden, Edward P., *An Introduction to the IAPPP and Small Observatory Photometry*, NN, **76**, 54.  
Newton, Jack, *A Supernova in NGC 4490*, NN, **76**, 53.  
Percy, John R., *An International Professional Amateur Photometric Campaign on Be Stars*, NN, **76**, 54.  
Rutkowski, Chris, *Pico, Piton and Other Suspected Sites of L. T. P.*, NN, **76**, 53.  
Shigehisa, Osao, *On Light Variation of T Coronae Borealis at Minimum Stage*, NN, **76**, 53.  
Sperling, Norman, *The States of Astronomy*, NN, **76**, 53.  
Tardiff, Alphonse, *Some Remarks on the Design and Construction of a Solid-State Photometer for Astronomy*, NN, **76**, 54.

### 1983 General Assembly at Québec

Bergeron, Denis, *Projet de Surveillance Photographique du Ciel*, NN, **77**, 69.  
Broughton, Peter, *The First Predicted Return of Comet Halley*, NN, **77**, 69.  
Cunningham, Clifford, *Analysis of Photometric Data on Asteroids*, NN, **77**, 69.  
Darisse, Paul, *Observatoires de Québec*, NN, **77**, 70.  
Gagnon, Roger, *Taches Solaires et Planètes: Étranges Coïncidences*, NN, **77**, 70.  
Gélinas, Marc, *L'Effet Schroeter*, NN, **77**, 69.  
Kennedy, J. E., *On the French Publication "Nouveau Traité de la Sphère d'après le Système de Copernic par Demandes et Réponses"*, NN, **77**, 69.  
Iyengar, R. S., *Solar Spectral Observations at Sackville, New Brunswick*, NN, **77**, 70.  
Lallier, Jean-François, *Le Rôle de L'Ordinateur dans L'Analyse des Images Astronomiques*, NN, **77**, 70.  
Lapointe, Mario, *Etude Densitométrique de Films Activés*, NN, **77**, 69.  
Levy, David, *Sliding to the Stars at Jarnac Observatory*, NN, **77**, 70.  
Malenfant, Bernard, *2ième Festival D'Astronomie Populaire du Mt.-Mégantic*, NN, **77**, 70.  
Manseau, Real, *Les Instruments Scientifiques du Temps Passé*, NN, **77**, 70.  
Mattei, Janet, *The AAVSO — Observing and Data Bank*, NN, **77**, 70.  
Maury, Alain, *Le Contrôle Sensitométrique des Hypersensibilisations*, NN, **77**, 70.  
Mayer, Ernst, *Applications of the Out-of-Focus Method*, NN, **77**, 70.  
Millman, Peter, *The Chemistry and Physics of Comet Halley Fragments*, NN, **77**, 70.  
Morris, Charles, *The Amateur Astronomer and the International Halley Watch*, NN, **77**, 70.  
Newton, Jack, *About a New Observatory and a New 50 cm Newtonian Telescope*, NN, **77**, 70.  
Rutter, C. A., *2001: A Space Odyssey*, NN, **77**, 69.  
Ryback, Peter, *Astronomy in Senior High School*, NN, **77**, 69.  
Schwartz, David, *Establishment and Operation of the Tardis Observatory*, NN, **77**, 70.  
Stokes, David, *The Islamic Lunar Calendar*, NN, **77**, 70.  
Vallières, Jean, *Micro-Ordinateur et Astronomie*, NN, **77**, 69.  
Veilleux, Sylvain, *Reportage Photographique du Soleil*, NN, **77**, 70.  
Webb, William, *Some Constellations Featuring the Sun*, NN, **77**, 70.  
Welther, Barbara, *Antonia Maury's Over-Corrected Mass-Ratio for Beta Lyrae*, NN, **77**, 70.  
Wilson, Lee Anne, *O-C Magic*, NN, **77**, 70.

### 1985 General Assembly at Edmonton

Batten, A. H., *Erwin Finlay-Freundlich, 1885-1964*, NN, **79**, 77.  
Bishop, R. L., *Free Fall, A Central But Often Misunderstood Concept in Astronomy*, NN, **79**, 78.  
Broughton, P., *Comet Occultations*, NN, **79**, 78.  
Dodge, D., *Stargazer*, NN, **79**, 79.  
Grey, M., *Astronomy Day Activities*, NN, **79**, 79.  
Iyengar, R. S., *A New Cosmological Model of the Universe*, NN, **79**, 78.  
Kemble, L. J., *Daytime Observations of Venus at Inferior Conjunction*, NN, **79**, 78.  
Kennedy, J. E., *Media Coverage of the Solar Eclipse Expedition of 1860 to Northern Canada*, NN, **79**, 77.  
Kinstad, K., *The Daytime Fireball of March 2, 1985*, K. Kinstad, R. Folinsbee, D. Hube & D. Smith, NN, **79**, 78.

- Levy, D. H., *A Comet Search Program*, NN, **79**, 79.  
 McGregor, I., *The Origin of the Constellations: A Cosmic Puzzle*, NN, **79**, 79.  
 Parker, D., *The Organization of Satellite Centres*, NN, **79**, 79.  
 Rutkowski, C. A., *To the Moon, Alice!*, NN, **79**, 78.  
 Sperling, N., *A Textbook Case*, NN, **79**, 78.  
 van Asperen, H., *Determination of Sunspot Latitudes*, NN, **79**, 78.  
 Waldron, R., *Astronomy Education in Saskatoon Schools*, NN, **79**, 78.  
 Watson, M., *The Heavens in Colour*, NN, **79**, 79.

### 1986 General Assembly at Winnipeg

- Batten, Alan, *R. M. Petrie, 1906-1966*, NN, **80**, 70.  
 Bochonko, Richard, *A Laser Disc System for Astronomical Education*, Richard Bochonko & Prasad Gowdar, NN, **80**, 71.  
 Brown, Peter, *Forecasting Periods of Geomagnetic Activity Near Solar Minima*, NN, **80**, 70.  
 Clutton-Brock, Martin, *Oddities and Enigmas of the Solar System*, NN, **80**, 71.  
 Edberg, Stephen, *A Look Back at Comet Halley*, NN, **80**, 70.  
 Delaney, Paul, *Arizona's New "Eye in the Sky" 2.4 m McGraw-Hill Telescope*, NN, **80**, 70.  
 Kennedy, Ed, *Historical Research in Astronomy — A Progress Report on the Odell Quadrant*, NN, **80**, 71.  
 Lawless, Andrew, *Design of a Microstepping Step Motor Controller for Large Telescopes*, NN, **80**, 70.  
 Lepieszko, Ed, *Computer-Generated Starcharts in Amateur Astronomy*, Ed Lepieszko & Andy Kunz, NN, **80**, 70.  
 Levy, David, *In the Shadow of Kitt Peak*, NN, **80**, 70.  
 Rutkowski, Chris, *The Use of Astronomical Instruments for Arms Control and Verification Systems*, NN, **80**, 71.  
 Sellin, Herb, *A Conceptual Outline of a New Specific Theory of Relativity*, NN, **80**, 71.  
 Shigehisa, Osao, *Herschel Activity in Japan*, NN, **80**, 70.  
 van Asperen, Hein, *The Astronomical Position Line*, NN, **80**, 70.  
 Watson, Michael, *South of Capricorn*, NN, **80**, 71.

### 1987 General Assembly at Toronto

- Attwood, J. Randy, *ASTRONOMY TORONTO — Astronomy on Cable Television*, NN, **81**, 52.  
 Bannman, Myra J., *Women of Space*, NN, **81**, 53.  
 Bishop, Roy L., *The Tercentenary of the PRINCIPIA*, NN, **81**, 52.  
 Clarke, Thomas, *The Astrocentre of the McLaughlin Planetarium: A Look Behind the Scenes*, NN, **81**, 52.  
 Dattu, Mohammed, *Analysis of Visual and Photoelectric Observations of Rho Cassiopeiae*, NN, **81**, 52.  
 Dodson, Steve, *The Science North Solar Observatory*, NN, **81**, 53.  
 Garrison, Robert, *Supernova Shelton 1987A*, NN, **81**, 51.  
 Hladiuk, Don, *The Steen River Astrobleme*, NN, **81**, 53.  
 Ireland, James A., *The Age and Distance of h Persei*, NN, **81**, 52.  
 Iyengar, R. S., *Experimental Observations of Turbulence in Aurora*, NN, **81**, 53.  
 Jefferson, Michael, *The L. V. Powis Observatory Centre*, NN, **81**, 53.  
 Lemay, Damien, *Two Schmidt Cameras for a Group of Amateurs*, NN, **81**, 53.  
 Marschall, J. W. Stewart, *Explaining the Equation of Time*, NN, **81**, 53.  
 Percy, John R., *Adding Astronomy to the Ontario School Science Curriculum*, NN, **81**, 52.  
 Rutkowski, Christopher A., *The Demise of the Polo Park Sundial*, NN, **81**, 52.  
 Sosnkowski, Anthony, *Light Pollution — What Should We Do?*, NN, **81**, 53.

### 1989 General Assembly at Sydney

- Attwood, Randy, *The 20<sup>th</sup> Anniversary of Apollo 11*, NNB, **83**, 69.  
 Auclair, Raymond, *A Visit to Soviet Observatories/Visite au Pays de L'Etoile Rouge*, Raymond Auclair, Marc Gélinas & Jean-Pierre Urbain, NNB, **83**, 71.  
 Brooks, Randall C., *The Accuracy of Astronomical Micrometers*, NNB, **83**, 69.  
 Chou, B. Ralph, *Spectrum-Limiting Filters and the Preservation of Dark Adaptation for Astronomical Observers*, B. Ralph Chou & Tanya Litwiller, NNB, **83**, 69.  
 Dodson, Steve, *Computers, Fibre Optics and 3-D Glasses: Introducing the Sky With Science North's Starwall*, NNB, **83**, 70.  
 Donovan, Kenneth, *The Marquis de Chabert and the Louisburg Observatory in the 1750's*, NNB, **83**, 71.  
 Fahrner, Cam, *1988 Mars Observing Program*, NNB, **83**, 70.  
 Howell, F. John, *Iron Creek Meteorite #2: Canada's Heaviest Meteorite Must Be Found*, NNB, **83**, 70.  
 Hube, Douglas, *Ellipsoidal Variables — Some Recent Results*, Douglas Hube & B. E. Martin, NNB, **83**, 70.  
 Pitcairn, Douglas, *Astronomy Artwork on the Macintosh II*, NNB, **83**, 70.  
 Sabatini, Denise, *Recruitment of Disabled People into Astronomy*, NNB, **83**, 71.  
 Watson, Michael S. F., *The 1991 Solar Eclipse Expedition*, NNB **83**, 71.

Whitehorse, Mary Lou, *The Be Stars*, NNB, **83**, 71.

### 1990 General Assembly at Ottawa

Brown, Chris, *Computer-Assisted Photometry at the Glenlea Observatory*, NNB, **84**, 69.

Ceravolo, Peter, *TOMA — An Idea Whose Time Has Come*, NNB, **84**, 69.

Dodson, Steve, *Centennial Astronomy Week — A Celebration Across Canada*, NNB, **84**, 69.

George, Doug, *Amateur Astronomy in the Ottawa Area*, NNB, **84**, 69.

Hube, Douglas P., *3 Vulpeculae: A Bright New Pulsating Variable in a One-Year Binary System*, Douglas P. Hube & G. C. L. Aikman, NNB, **84**, 69.

Kennedy, J. E., *Rare Books on Astronomy*, NNB, **84**, 69.

Leonard, Peter J. T., *The Origin of the OB Runaway Stars*, NNB, **84**, 70.

McGregor, Ian G., *Reflections on a Society: The RASC As Seen Through Its Centre Newsletters*, NNB, **84**, 70.

*Getting the Last Laugh on the Stars*, NNB, **84**, 70.

Miller, Richard W., *Solar-Terrestrial Conditions Associated With the Quebec Power Disruption of March 1989*, NNB, **84**, 70.

Mortfield, Paul, *Schmidt Camera Photography*, NNB, **84**, 71.

Percy, John R., *The Photometric Variability of P Cygni — A Blue Hypergiant*, John R. Percy, Matthew Lester, Rene Plume, Wayne E. Clark, Howard J. Landis & Russell E. Milton, NNB, **84**, 71.

Roy, Frank, *Preliminary Results from the IRO Radio Interferometer 238 MHz Sky Survey*, NNB, **84**, 71.

Rutkowski, Chris, *A Study of General Public Knowledge About Astronomy*, NNB, **84**, 71.

Young, Scott, *Electronic Imaging at Glenlea Observatory*, Scott Young & Stan Runge, NNB, **84**, 72.

Yurchesyn, Joe, *Aurorae and the Power System*, NNB, **84**, 72.

### 1991 General Assembly at Vancouver

Broughton, Peter, *So How's the Book Coming Along?*, **85**, 173.

Brown, C. F., *A Joint Spectroscopic-Photometric Observing Project on the Binary Be Star  $\phi$  Persei, Part II*, **85**, 175.

Connors, Martin, *Teaching Astronomy by Distance Education*, **85**, 173.

*The "Terrestrial Maria" Hypothesis: Earth in the Context of the Inner Solar System*, **85**, 175.

Enwright, Leo, *Monitoring the Sunspots of Cycle 22*, **85**, 173.

Hicks, Terence, *Longitude from Lunar Distances*, **85**, 173.

Hladiuk, Don, *Medicine Wheels in Western Canada*, **85**, 174.

Howell, F. J., *Astronomers Capture an Asteroid*, **85**, 174.

Kennedy, J. E., *Airy Correspondence Held at the National Archives of Canada*, **85**, 175.

Lewis, Ruth, *Light Pollution: "Light" at the End of the Tunnel?*, **85**, 175.

Naiden, James R., *Computer Simulations of Mars and Stars*, **85**, 175.

Watson, Michael, *Photographing the 11 July 1991 Solar Eclipse*, **85**, 173.

Whitehorse, M. L., *A Joint Spectroscopic-Photometric Observing Project on the Binary Be Star  $\phi$  Persei, Part I*, **85**, 174.

### 1992 General Assembly at Calgary

Adamson, ShirLee, *My Twelve Years as a Rank Beginner in Astronomy*, **86**, 226.

Attwood, Randy J., *The Great Eclipse of 1991 July 11*, **86**, 227.

Connors, Martin, *An Inexpensive Planetary Research Laboratory*, **86**, 226.

*Impact Crater Floor Tilt and Tectonic Movements on Venus*, **86**, 226.

Dick, Robert S., *Evolution of Shadow Bands During the Solar Eclipse of 1991 July 11*, **86**, 226.

Himer, James Thomas, *Synopsis of the 1992 AAVSO/WGAI/AAS Workshop on CCD Imaging*, **86**, 224.

Hladiuk, Don, *Building a Backyard Observatory*, **86**, 225.

Kelly, Patrick, *Stamping Out Astronomy*, **86**, 225.

*The Move to Build a Major Planetarium in Halifax*, **86**, 226.

Lane, Dave, *The Micro Guider, A Digital Setting Circle Device*, **86**, 224.

Ling, Alister, *Visual Effects of the Mount Pinatubo Volcanic Eruption*, **86**, 225.

Lohvinenko, Todd, *Noctilucent Clouds Seen from North America*, Todd Lohvinenko & Mark Zalcik, **86**, 225.

Morris, Steven L., *Astronomy at the South Pole*, **86**, 224.

Nelson, Grace, *Teaching Astronomy to Children*, **86**, 225.

Newton, Jack B., *CCD Imaging*, **86**, 224.

Olson, Barry M., *The Oldman River Observatory: A New Observatory for Alberta*, **86**, 225.

### 1993 General Assembly at Kingston

Bishop, Roy, *Rating Binoculars for Astronomy*, **87**, 269.

Brooks, Randall, *Who Really Made the First Telescope?*, **87**, 270.

Connors, Martin, *Short Ride on a Fast Machine: Some Interesting Resonant Asteroids*, **87**, 269.

George, Doug, *Maximum Energy Deconvolution*, **87**, 270.

- Grey, Paul, *Annual Quadrantid Meteors — Reports of the 1992/93 Showers*, **87**, 268.  
 Hube, Douglas P., *The Fireballs of February 10, 1993: Cluster or Coincidence?*, Douglas P. Hube & Peter Brown, **87**, 267.  
 Lane, David, *The Earth-Centred Universe: A Sky Atlas Computer Program for Amateur Observers*, **87**, 269.  
 Lewis, Ruth, *Responsible Lighting: Worthy of Praise*, **87**, 268.  
 MacRobert, Alan M., *Monster Telescopes of the 1990's*, **87**, 268.  
 Miller, Graham, *The Irish David and Goliath*, **87**, 269.  
 Newton, Jack B., *CCD Colour Imaging*, **87**, 267.  
 Turner, David G., *Demonstrating Cluster Main-Sequence Fitting to Best Advantage*, **87**, 268.  
 Watson, Michael S. F., *The Great 1994 Annular Solar Eclipse*, **87**, 268.  
 Whitehorne, Mary Lou, *Nova Scotia Planetarium Feasibility Study: Preliminary Results*, **87**, 267.  
 Young, Scott, *The CCDs of Santa Barbara*, **87**, 269.

### 1996 General Assembly at Edmonton

- Attwood, J. Randy, *Watching Canadians Go Into Space*, **90**, 179.  
 Broughton, Peter, *The Contributions of Peter Fidler (1769-1822) to Astronomy in Alberta*, **90**, 182.  
 Ceravolo, Peter, *Hyakutake: The Motion Picture*, Peter Ceravolo, Doug George & Paul Boltwood, **90**, 183.  
 Colborne, Blair, *Developing a Viable RASC Youth Group*, **90**, 180.  
 Connors, Martin, *Chicxulub Crater on Maps*, **90**, 179.  
 Dechesne, Roland G., *So You Want Your Centre to Grow? Analysis of Club Population Dynamics — Lessons Being Learned in Calgary*, **90**, 182.  
 Enwright, Leo, *Astronomy Helps to Unravel an Age Old Mystery*, **90**, 179.  
 Hladiuk, Don, *Comet Hale-Bopp and Your Centre*, **90**, 181.  
 Kennedy, J. E., *"Then" and "Now"*, **90**, 181.  
 Ling, Alister, *Repairing the NGC and IC: A Project and an Example*, **90**, 180.  
 Sampson, Russell, *Simple Methods to Estimate Fundamental Cosmic Distances*, **90**, 182.  
 Sarty, Gordon, *Using Visual Fireball Data to Compute Trajectories and Orbits*, **90**, 180.  
 Turner, David G., *The Joy of Watching Stars Evolve*, **90**, 181.  
 Watson, Michael, *The Space-Shuttle — A Decade and a Half in Orbit*, **90**, 179.  
 Zalcik, Mark, *High Clouds, High Season*, **90**, 183