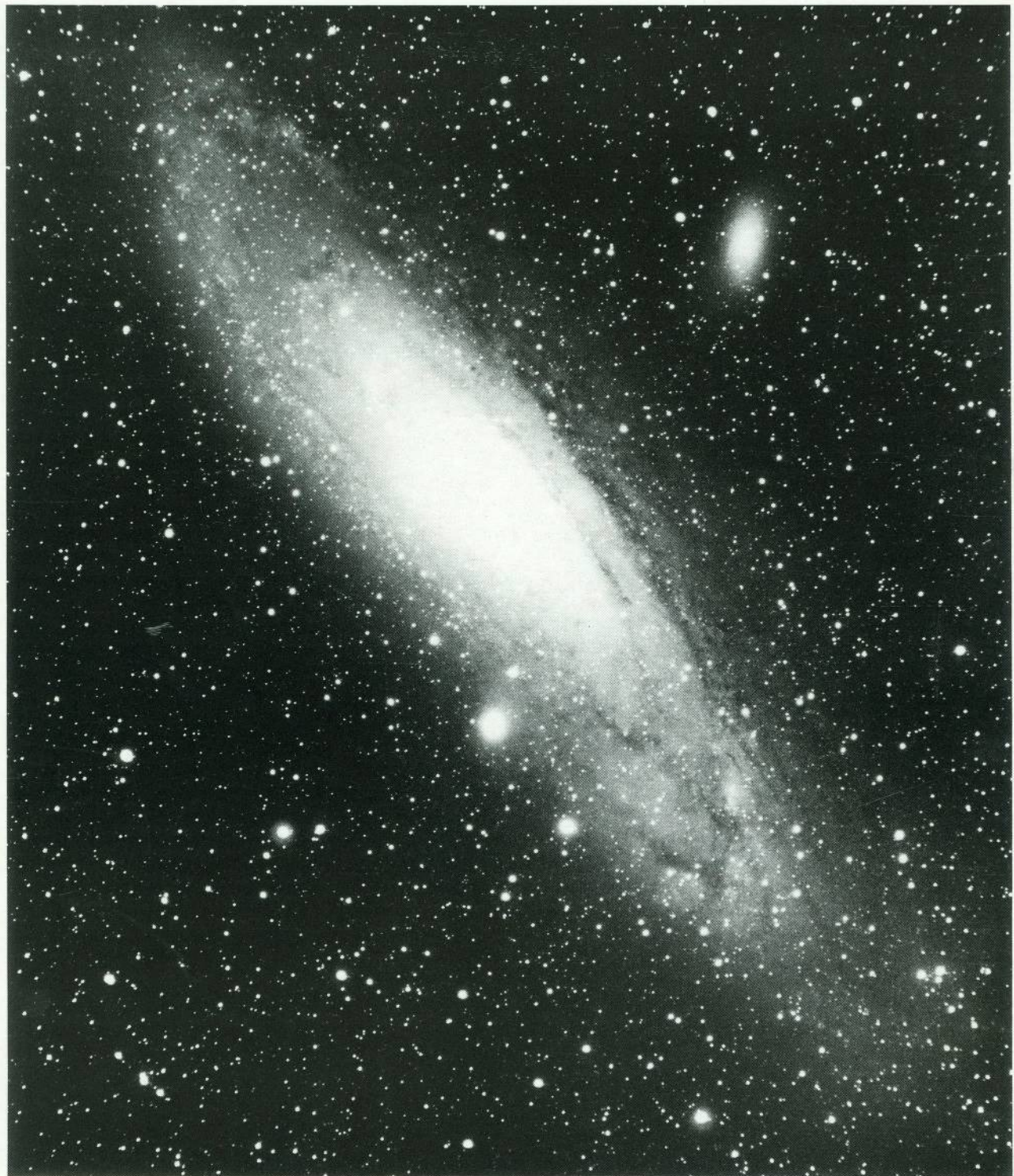




The Royal Astronomical Society of Canada
1991 General Assembly
Vancouver, British Columbia
May 17-20, 1991



**1991 General Assembly
Vancouver, British Columbia**

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WELCOME

Welcome to the 1991 General Assembly of the Royal Astronomical Society of Canada. The Vancouver Centre is proud to be hosting this year's General Assembly, especially in this, the Vancouver Centre's 60th anniversary year.

The 1991 General Assembly promises to be an exciting event. In addition to the regular G.A. sessions we have a number of special activities planned for you. In this programme you will find a description of all of the 1991 G.A. sessions and activities along with other pertinent information. This programme along with the various pieces of literature in your registration package should provide you with all the information you need to enjoy this year's event. If you have any questions, however, please do not hesitate to ask one of the members of the G.A. organizing committee. They will be wearing blue name tags so that they can be easily identified.

In addition to this programme, you should check to make sure that you have the following items:

Name Tag: Your name tag not only identifies you as a G.A. delegate or associate, but also serves as your ticket to several of the G.A. activities. Please make sure that you keep it with you at all times. The specific events that you have signed up for are listed near the bottom of your name tag. Please check to ensure that you are registered for all the events that you wish to attend. The events are:

MDAn Wine & Cheese Party/MacDonald Dettwiler Tour ('n' is a number 1,2,3... and indicates the specific tour group that you are assigned to.)

Banquet Banquet/Ruth Northcott Memorial Lecture

TRIUMF TRI-University Meson Facility Tour

BBQ Planetarium Show/Salmon Barbecue

UBC Campus Map: In your registration package you will find a UBC Campus Map. You should take a few moments and locate the following buildings on the map:

Gage Residences/Conference Centre (map location C7,D7): G.A. registration, UBC accommodation, Executive Council Meeting, observing, bus pick-up for off-site events, group photograph

SUB - (Student Union Building, map location D6,E6): meals (other than the Banquet and Salmon Barbecue)

Curtis Building (map location C6): Paper Sessions, Council Meetings, Annual General Meeting, Display Competition

Grad. Centre (Graduate Student Centre, map location C4): Banquet/Ruth Northcott Memorial Lecture

Geophysics & Astronomy (map location G4): observing, and UBC Physics and Astronomy Update

Meal Tickets: If you requested meals (other than the Banquet and Salmon Barbecue) on your registration form then you should find meal tickets in your name tag holder.

Nova: We have included the current edition of the Vancouver Centre's publication, "Nova" in your registration package. Just a little something to tell you about us.

Other brochures, maps, and pamphlets: In the registration package and at the registration desk you will find a number of brochures, maps, and pamphlets that may be of interest to you.

GENERAL INFORMATION

UBC Accommodation

Those who have requested accommodation at UBC will be housed in the Gage Residences. You can check in at the Gage Residences/Conference Centre front desk which is located in the main concourse. You can check in any time after 14:00.

Check-out time on the day you leave is 11:00. Please drop off your keys at the Conference Centre front desk.

Alcohol is permitted in the residence rooms and in the common kitchen and living room areas but is not permitted in any public area. Please be considerate of others as not everyone is a late-night owl.

Messages

If anyone needs to get in contact with you during the General Assembly, messages can be left at the Conference Centre front desk (604) 822-1010. Messages for G.A. attendees will be left on a message board in the main concourse.

Meals

The Student Union Building houses the Subway cafeteria where you can get all meals other than the Banquet and Barbecue. Subway is open from 7:00 to 19:00, seven days a week, and will accept meal tickets, cash, and credit cards.

Parking

Free parking for all G.A. attendees is available in the surface parking lots immediately surrounding the Gage Residences/Conference Centre. You can park in any of the numbered parking stalls.

THE UNIVERSITY OF BRITISH COLUMBIA

About UBC

The University of British Columbia is the third largest university in Canada and the oldest in the province. Incorporated by the provincial government in 1908, UBC admitted its first students in 1915 and moved to its present location on Point Grey in 1925.

Today UBC is one of North America's leading universities. UBC offers courses of study through 12 faculties which together administer more than 100 departments, schools, research institutes and other centres. The university has over 1800 full-time faculty and more than 5,500 staff serving an average of 119,000 students per year (40,000 in degree programs and 79,000 who attend non-credit courses). Faculty members receive more than \$90 million in research grants and contracts annually, mainly in open competition from outside of B.C.

While You are Here

The University of British Columbia is one of the most beautifully located universities in the world. While you are visiting UBC take some time to stroll around the campus and visit some of the many museums, gardens, and parks that UBC has to offer.

The Museum of Anthropology (B4 on the Campus Map) is located high on the bluffs overlooking the Strait of Georgia and is the home of one of the best collections of Northwest Coast Indian artifacts in the world.

Step into the mystique of Japan at the Nitobe Memorial Garden (C3), one of the most accurately represented Japanese gardens in the world.

Discover the UBC Botanical Garden (M3) where teaching and research gardens provide an ever widening window on the world of plants.

Treat yourself to the most interesting collection of crystal and fossil specimens in all B.C. at the M.Y. Williams Geological Museum (G4).

Wander through the temperate rain forests in the newly created Pacific Spirit Park on the University Endowment Lands (N9 and towards Vancouver).

GENERAL ASSEMBLY EVENTS

FRIDAY, MAY 17, 1991

Display Competition Set-Up

8:00 - 16:00

Curtis Building, Room 178

Delegates who are entering the Display Competition can set up their displays at this time.

Executive Council Meeting

9:30 - 11:00

Gage Residences, North Tower Committee Room

Council Meeting

13:30 - 16:30

Curtis Building, Rooms 101/102

Wine & Cheese and MacDonald Dettwiler Tour

17:15 - 21:30

Bus boards in front of Gage Residences at 17:15

This year we have combined the traditional Wine & Cheese Party with a tour of the MacDonald Dettwiler facility. Busses for this event will board at 17:15 in front of the Gage Residences/Conference Centre. Those driving on their own to this event should be at the MacDonald Dettwiler facility at 13800 Commerce Parkway in Richmond at 18:30 sharp. Commerce Parkway is accessible from #6 Road and lies between Cambie Road (the Richmond one) and Westminster Highway.

John MacDonald and J. Verne Dettwiler first met on a train as they were both heading home to Prince George from UBC, where they were both Engineering undergrads. Years later they formed MacDonald Dettwiler, starting from a small operation in John MacDonald's garage.

Today MacDonald Dettwiler is a world leader in satellite imaging and in data processing systems for resource management, surveillance, meteorology, flight control, and electronics manufacturing. The company is involved in many high-tech programs and projects such as the Space Station Service Centre, the Landsat program, the Canadian "Radar Sat" program, and Synthetic Aperture Radar (SAR) projects.

In 1989 John MacDonald was made a member of the Order of Canada in recognition of his work. In 1990 MacDonald Dettwiler was awarded the first ever B.C. Science and Technology Award for its important contribution to science and technology in B.C.

Observing

21:30 - late into the night

UBC Geophysics and Astronomy Observatory and outside Gage Residences

After the busses return from the Wine & Cheese Party, the UBC Department of Geophysics and Astronomy will be opening its observatory to G.A. attendees.

Also, the Gordon Southam Observatory will be bringing its new 25" Dobsonian and several smaller 'scopes on campus and setting them up near the Gage Residences.

SATURDAY, MAY 18, 1991**Display Competition Entries**

8:30-11:45

Curtis Building, Room 178

The Display Competition entries can be seen in the Curtis Building, room 178.

Paper Session #1

9:00 to 10:15

Curtis Building, Rooms 101/102

Peter Broughton, So How's that Book coming Along?

Leo Enright, Monitoring the Sunspots of Cycle 22

Michael S.F. Watson, Photographing the 11 July 1991 Solar Eclipse

Martin Connors, Teaching Astronomy by Distance Education

Terence Hicks, Longitude from Lunar Distances

F.J. Howell, Astronomers Capture an Asteroid

Don Haldiuk, Medicine Wheels in Western Canada

Paper Session #2

10:30 to 11:45

Curtis Building, Rooms 101/102

M.L. Whitehorne, A Joint Spectroscopic-Photometric Observing Project on the Binary Be Star PHI Persei, Part I

C.F. Brown, A Joint Spectroscopic-Photometric Observing Project on the Binary Be Star PHI Persei, Part II

Ruth Lewis, Light Pollution: "Light" at the end of the Tunnel?

Jim Naden, Computer simulation of Mars and Variable Stars

J.E. Kennedy, Airy Correspondence held at the National Archives of Canada

Martin Connors, The 'Terrestrial Maria' Hypothesis: Earth in the Context of the Inner Solar System

Louie Bernstein, Fighting Light Pollution

Group Photograph

11:45 - 12:00

In front of Gage Residence

UBC Physics and Astronomy Update

13:30 - 16:30

Meet in front of Gage Residences at 13:30

Join us for a tour of the Geophysics and Astronomy building where representatives from the Department of Physics and from the Department of Geophysics and Astronomy will be on hand to talk about what is happening at UBC in the fields of astronomy and related sciences. Some of the displays and topics that will be covered include:

- Project Gemini, the proposed 8 meter telescopes
- the Liquid Mirror Telescope
- images from Voyager
- the SBIG/ST4 Star Tracker
- precision radial velocities (searching for minor planets)
- the pulsation of Polaris
- instrumentation including the spectrograph and observing rooms
- the Galactic Radio Survey
- cosmic background radiation research

Council Meeting (if required)

15:00 - 17:00

Curtis Building, Rooms 101/102

Banquet and Ruth Northcott Memorial Lecture

18:30

Graduate Student Centre, Centre Ballroom

The banquet this year will be held in the Graduate Centre Ballroom. Cocktails will be at 18:30 with dinner following at 19:00. Following the dinner will be the annual award presentation and the Ruth Northcott Memorial Lecture.

The guest speaker for the Ruth Northcott Memorial Lecture is Canadian astronaut Bjarni Tryggvason. Mr. Tryggvason was born in Reykjavik, Iceland and grew up in Canada completing his education at the University of British Columbia. He has worked as a meteorologist with the cloud physics group at the Atmospheric Environment Service in Toronto and as a research associate at the Boundary Layer Wind Tunnel Laboratory. He has worked on several projects involving rigid and aeroelastic model studies of wind effects on structures, including the CN Tower in Toronto, the Sears building in Chicago, and the Haj Terminal in Saudi Arabia.

Bjarni joined the Low-Speed Aerodynamics Laboratory at the National Research Council in 1982 and was part of the team assembled to investigate the sinking of the Ocean Ranger oil rig. He designed and oversaw the aerodynamics tests which established the wind loads acting on the rig.

In 1983 Bjarni was chosen to be a Canadian astronaut, as a Payload Specialist. He began his training in February 1984 and was selected as a backup crew member for the "Canex-2" mission, expected to take place in 1991. Currently he is involved in the development of Canadian experiments for scientific flights on board NASA's KC-135.

Mr. Tryggvason's talk will be on "Manned Space Flight".

SUNDAY, MAY 19, 1991

Display Competition

9:00-12:30

Curtis Building, Room 178

The Display Competition entries can be seen in the Curtis Building, room 178.

Annual General Meeting

9:30-11:30

Curtis Building, Rooms 101/102

The Annual General Meeting of the Royal Astronomical Society of Canada will be held at 9:30 in rooms 101/102 of the Curtis Building.

Council Meeting

11:30-12:30

Curtis Building, Rooms 101/102

TRIUMF Tour

12:45 - 15:00

Bus boards in front of Gage Residences at 12:45

The TRI-University Meson Facility (TRIUMF) is Canada's national laboratory for subatomic physics research. It is run jointly by the University of Alberta, Simon Fraser University, the University of Victoria, and the University of British Columbia, and is funded primarily by the National Research Council.

The TRIUMF facility is one of three 'meson factories' in the world and houses the world's largest cyclotron. The giant TRIUMF cyclotron accelerates negatively-charged hydrogen ions to 75% of the speed light. Intense beams of protons are then directed out of the cyclotron. At these energies, short-lived particles called pions or pi-mesons can be created.

The particle beams generated by the cyclotron are used to probe the structure of matter and search for nature's basic building blocks and measure the fundamental forces between them.

Please note that if you are attending both the TRIUMF Tour and the Planetarium Show/Salmon Barbecue, the busses will take you from TRIUMF to the Planetarium. You will not be able to stop off at the Gage Residences, so please come prepared for both events.

Planetarium Show/Salmon Barbecue/Murphy Slide Show and Song Contest

15:00

Busses board in front of Gage Residences at 15:00

This event starts out with a special showing of the planetarium show *China Stars*. The show explores the contributions made to modern astronomical knowledge by Chinese skywatchers of long ago. Over a 1200 year period Chinese astronomers were responsible for the invention of many large-sized astronomical observing instruments, the discoveries of the precession of the Earth's axis and the proper motion of stars, and the formulation of the laws that govern solar and lunar eclipses.

Most of the information about ancient astronomy in China comes from dynastic records. Unfortunately, dynastic histories were vulnerable to destruction when a new dynasty was established. However, scholars are searching through the newly-discovered Provincial chronicles and private histories, and are finding ever-increasing numbers of astronomical references... ancient references that will likely give modern astronomers new insights into the workings of the universe.

After the show, Ken Hewitt-White, the Creative Director of the Planetarium and an R.A.S.C. member, will give us a full backstage tour of the planetarium theatre.

The Bar-B-Q will be held in the Ray Whittock Lounge on the lower level of the building.

The Murphy Slide Show and Song Contest will take place after the Salmon Barbecue in the Auditorium of the H.R. MacMillan Planetarium.

After the Murphy Slide Show and Song contest, members of the Calgary Centre will give us a sneak preview of the 1992 General Assembly.

PAPER SESSION ABSTRACTS

So How's the Book Coming Along?

*Peter Broughton
Toronto Centre*

Did you know that a book is being written to commemorate the first hundred years of our Society? Do you realize that this project entails reading one hundred years of JOURNALS and minutes, twenty years of National Newsletters, piles of Centre Newsletters, going through twelve filing cabinet drawers, consulting dozens of external sources, and then trying to make some sense of it all? Do you think the RASC deserves to have its history recorded? Are you willing to help by providing some photographs? What will the book contain? The purpose of this paper is to stimulate interest and involvement by members in this Centenary project.

Monitoring the Sunspots of Cycle 22

*Leo Enright
Kingston Centre*

After monitoring solar activity by observing sunspots with the same instrument for the last fourteen years and after making sunspot drawings and a systematic recording of Relative Sunspot Numbers for the last seven years, I have been able to observe all phases of solar activity. This includes most of Sunspot Cycle 21 which peaked in 1979-1980, the period of minimum activity reached in 1986, and the first half of Cycle 22 which, from the beginning, has been characterized by a number of surprises-- remarkable outbursts when near minimum activity was expected and periods of activity far beyond what might have been expected from previous cycles, as well as unanticipated periods of decreased activity near the time of expected maximum.

This paper (which is related to a display that may be seen in the display area) reports on some of my observations and explains my method of observing, my personal k-factor calculation for determining Relative Sunspot Number, and a few suggestions for those who wish to monitor sunspot activity.

Photographing the 11 July 1991 Solar Eclipse

*Michael Watson
Unattached member*

The great total solar eclipse of 1991 will provide an excellent opportunity to record nature's most impressive natural phenomenon photographically. The speaker, a veteran of eight solar eclipse expeditions and an experienced astrophotographer, will discuss in detail both basic and advanced techniques for eclipse photography, including equipment choice and use, films and exposures, and unusual photography ideas. The paper will be illustrated with numerous of the speaker's own photographs from previous eclipses.

Teaching Astronomy by Distance Education

Martin Connors

Edmonton Centre

The experiences of teaching an introductory course in Astronomy by distance education methods (in this case home study with telephone support and computer-based assignments) are discussed. Problems with the course materials are discussed in the light of approaches to solving them. The distance education method is presented as a valuable means of bringing a higher level of astronomical awareness to the Canadian public.

Longitude from Lunar Distances

Terence Hicks

Make simultaneous observations of the altitude of the sun, altitude of the moon, and the distance between the nearer limits of the sun and moon. Obtain Apparent altitudes and distance and correct to True altitudes. Calculate the True lunar distance. Use the lunar distance tables in the Nautical Almanac to find the GMT of observations and interpret this as the Greenwich Hour Angle of the Mean Sun (GHAMS). Use the true altitude of the sun, the latitude of the location, and the declination of the Sun to solve for the Local Hour Angle of the True Sun (LHATS). Apply the Equation of time to the Local Hour Angle of the True Sun (LHATS) to find the Local Hour Angle of the Mean Sun (LHAMS). Compare the GHAMS to LHAMS to find the longitude in time which is then converted to arc.

Astronomers Capture an Asteroid

F.J. Howell

Victoria Centre

In 1983 some 130 observers and several major observatories observed the occultation of 1 Vulpeculae by the asteroid (2) Pallas. The event was observed across the southern area of the U.S.A. and Mexico.

Some 15 observations were photo-electric timings or by video cameras. The vast number of observations have been compiled into a very good reduced image to give a very complete outline of two-thirds of the shape of the asteroid. The southern third of the asteroid was spoilt by cloud cover.

Comparison of visual and photoelectric times have permitted a detailed study of visual reaction times of observers.

All RASC observers in Canada in all Centres from coast-to-coast should be prepared to undertake a similar effort for the next prediction of this type of occultation. The writer would welcome help from Centres in setting up and coordinating such an effort.

Medicine Wheels in Western Canada

Don Haldiuk

Calgary Centre

Scattered across the Northern Plains of North America are rare aboriginal cultural features known as Medicine Wheels. The term medicine wheel refers to a variety of stone circle, spoke and cairn configurations. Some medicine wheels date back to 5500 years BP and reflect a diversity of form and size. Although poorly understood, evidence suggests these features served various religious and ceremonial functions. One function, discovered at the Bighorn medicine wheel in Montana, suggests these features may have also been used as a crude astronomical observatories. The author of this paper will explore this aspect in more detail.

A Joint Spectroscopic-Photometric Observing Project on the Binary Be Star PHI Persei, Part I

M.L. Whitehorne

Halifax Centre

Be stars are low amplitude irregular variables that display perplexing behaviour. They have been studied extensively in recent years and are slowly revealing some of their secrets. We decided to study one of these stars in some detail to see if we could observe some of the more subtle changes that occur and to look for possible correlations between the changes seen spectroscopically and photometrically.

A brief discussion of how we set up the project and selected a candidate star will be followed by a more in-depth look at the star itself and how the observations were made. Phi Per is very interesting spectroscopically with a variety of changes taking place in its spectrum over time. Certain features in the H- emission line show phase related changes while the complex structure seen in the H- and H- absorption lines also show changes but not (apparently) due to phase. Some of the changes seen in the spectral line profiles are likely a result of changes taking place within the extended circumstellar envelope that surrounds Phi Per.

A Joint Spectroscopic-Photometric Observing Project on the Binary Be Star PHI Persei, Part II

C.F. Brown

Winnipeg Centre

Over the years several models have been proposed for Phi Per based on spectroscopic observations. Most of these models predict the occurrence of periodic photometric variations. Non-periodic variations are also known to occur. During the fall and winter of 1990-91 Phi Per was observed photometrically to determine if a correlation exists between the photometry, current spectroscopy (M.L. Whitehorne) and the models.

Light Pollution: "Light" at the end of the Tunnel?

Ruth Lewis

Calgary Centre

As a natural consequence of the necessity of cutting costs, things are happening in the area of improved lighting. We can speed the process up by doing one of the following: being responsible ourselves, don't get on the soap box unless you're sure you can get down safely, writing letters of commendation whenever we observe 'the good stuff', providing information to Environmental agencies, aldermen & government leaders (explain savings), developers, etc.

Please - know the facts before getting in too deep - IDA is a first class information source. Caution should be used when dealing with the media as things don't always come out the way you thought you said them.

Computer Simulation of Mars and Variable Stars

Jim Naden

Bremerton, Washington, Unattached

Abstract not available.

Airy Correspondence held at the National Archives of Canada

J.E. Kennedy

Saskatoon Centre

The Maine-New Brunswick boundary has been surveyed frequently to follow the terms of various Treaty agreements reached between Great Britain and the United States. In 1843 the Astronomer Royal, G.B. Airy, drafted instructions for the two officers of the Royal Engineers, Captain Wm. Robinson and Lieutenant J.H. Pison, selected to undertake this survey. Prior to their departure for New Brunswick both officers spent

time at Greenwich with Airy learning the techniques required to carry out the field observations.

The Airy instructions, together with correspondence related to this boundary survey, field books and reductions of observations were, thanks to the persistent efforts of Otto Klotz, transferred to Canada in 1898 for permanent retention. It was not until 1934 that this material reached the Public Archives of Canada. A typescript of the Airy instructions and of the extensive correspondence and supplemental correspondence has been completed and turned over to the National Archives of Canada.

This valuable collection of Airy's contributions to mid-19th century astronomy and surveying will be reviewed and assessed.

The 'Terrestrial Maria' Hypothesis: Earth in the Context of the Inner Solar System

*Martin Connors
Edmonton Centre*

The interplay of impact cratering and vulcanism is examined for the members of the inner Solar System. In this context the 'Terrestrial Maria' Hypothesis (1) is examined as a possible means of resolving the impact versus volcanic explanations of catastrophes in Earth history. (1) Terrestrial Maria: The origins of Large Basalt Plateaus, Hotspot Tracks and Spreading Ridges. D. Alt, J.M. Sears, and D.W. Hyndman, *Journal of Geology*, 1988, vol. 96, p. 647-662

Fighting Light Pollution

*Louie Bernstein
Montreal Centre*
No abstract available.

DISPLAY COMPETITION ENTRIES

Combined White-light and Ha Solar telescopes using homemade Ha scope atop Caves F/4.5 RFT

*Ken Nelson
Vancouver Centre*
Category: Instrumentation/Observational - Solar system

Data and Results Obtained from Monitoring Sunspot Cycle 22 up to April 1991

*Leo Enright
Kingston Centre*
Category: Observational - Solar system

Astrophotography with a 5" Refractor

*Rajiv Gupta
Vancouver Centre*
Category: Observational - Beyond the solar system

Photographic spectra and Line Profile Scans of Variable Be Star PHI Persei

*Mary Lou Whitehorne
Halifax Centre*
Category: Observational - Beyond the solar system

MURPHY SLIDE SHOW CONTRIBUTORS

Raymond Auclair
Unattached Member

Roy Bishop
Halifax Centre

Leo Enright
Kingston Centre

Gordon Grant
Ottawa Centre

ACKNOWLEDGEMENTS

The Royal Astronomical Society of Canada, Vancouver Centre would like to thank the following organizations and individuals for their contributions and support:

The B.C. Ministry of Tourism

Dr. John MacDonald and MacDonald Dettwiler Associates

The B.C. Space Sciences Society

TRIUMF

UBC Department of Geophysics and Astronomy

UBC Department of Physics

David Vogt

The following members of the R.A.S.C. Vancouver Centre deserve honourable mention for their time and effort in organising the 1991 General Assembly:

Sally Baker

David Dodge

William Ferron

June Kirkcaldy

Barry Shanko

Glenn Skene

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THE ROYAL ASTRONOMICAL SOCIETY OF CANADA
1991 GENERAL ASSEMBLY
SCHEDULE OF EVENTS

Thursday, May 16, 1991

18:00 - 20:00 G.A. Registration - Gage Residences, Main Concourse

Friday, May 17, 1991

7:00 - 9:00 Breakfast - Student Union Building, Subway Cafeteria
8:00 - 16:00 G.A. Registration - Gage Residences, Main Concourse
8:00 - 16:00 Display Competition Set-Up - Curtis Building, Room 178
9:30 - 11:00 Executive Council Meeting - Gage Residences, North Tower Committee Room
12:00 - 13:00 Lunch - Student Union Building, Subway Cafeteria
13:30 - 16:30 Council Meeting - Curtis Building, Rooms 101/102
17:15 - 21:30 Wine & Cheese/MDA Tour - busses board in front of Gage Residences at 17:15
21:30 Observing at UBC Geophysics and Astronomy Observatory and outside Gage Residences

Saturday, May 18, 1991

7:00 - 9:00 Breakfast - Student Union Building, Subway Cafeteria
8:00 - 12:00 Registration - Gage Residences, Main Concourse
8:30 - 11:45 Display Competition Entries - Curtis Building, Room 178
9:00 - 10:15 Paper Session #1 - Curtis Building, Rooms 101/102
10:15 - 10:30 Coffee Break - Curtis Building, Lobby
10:30 - 11:45 Paper Session #2 - Curtis Building, Rooms 101/102
11:45 - 12:00 Group Photograph in front of Gage Residence
12:00 - 13:30 Lunch - Student Union Building, Subway Cafeteria
13:30 - 16:30 UBC Physics and Astronomy Update - meet in front of Gage Residences at 13:30
15:00 - 17:00 Council Meeting (if required) - Curtis Building, Rooms 101/102
18:30 Banquet/Ruth Northcott Memorial Lecture - Graduate Student Centre Ballroom

Sunday, May 19, 1991

7:00 - 9:00 Breakfast - Student Union Building, Subway Cafeteria
9:00 - 12:30 Display Competition Entries - Curtis Building, Room 178
9:30 - 11:30 Annual General Meeting - Curtis Building, Rooms 101/102
11:30 - 12:30 Council Meeting - Curtis Building, Rooms 101/102
11:30 - 12:45 Lunch - Student Union Building, Subway Cafeteria
12:45 - 15:00 TRIUMF Tour - busses board in front of Gage Residences at 12:45
15:00 Planetarium Show/Salmon BBQ/Murphy Slide Show and Song Contest - busses board in front of Gage Residences at 15:00

Monday, May 20, 1991

7:00 - 9:00 Breakfast - Student Union Building, Subway Cafeteria