

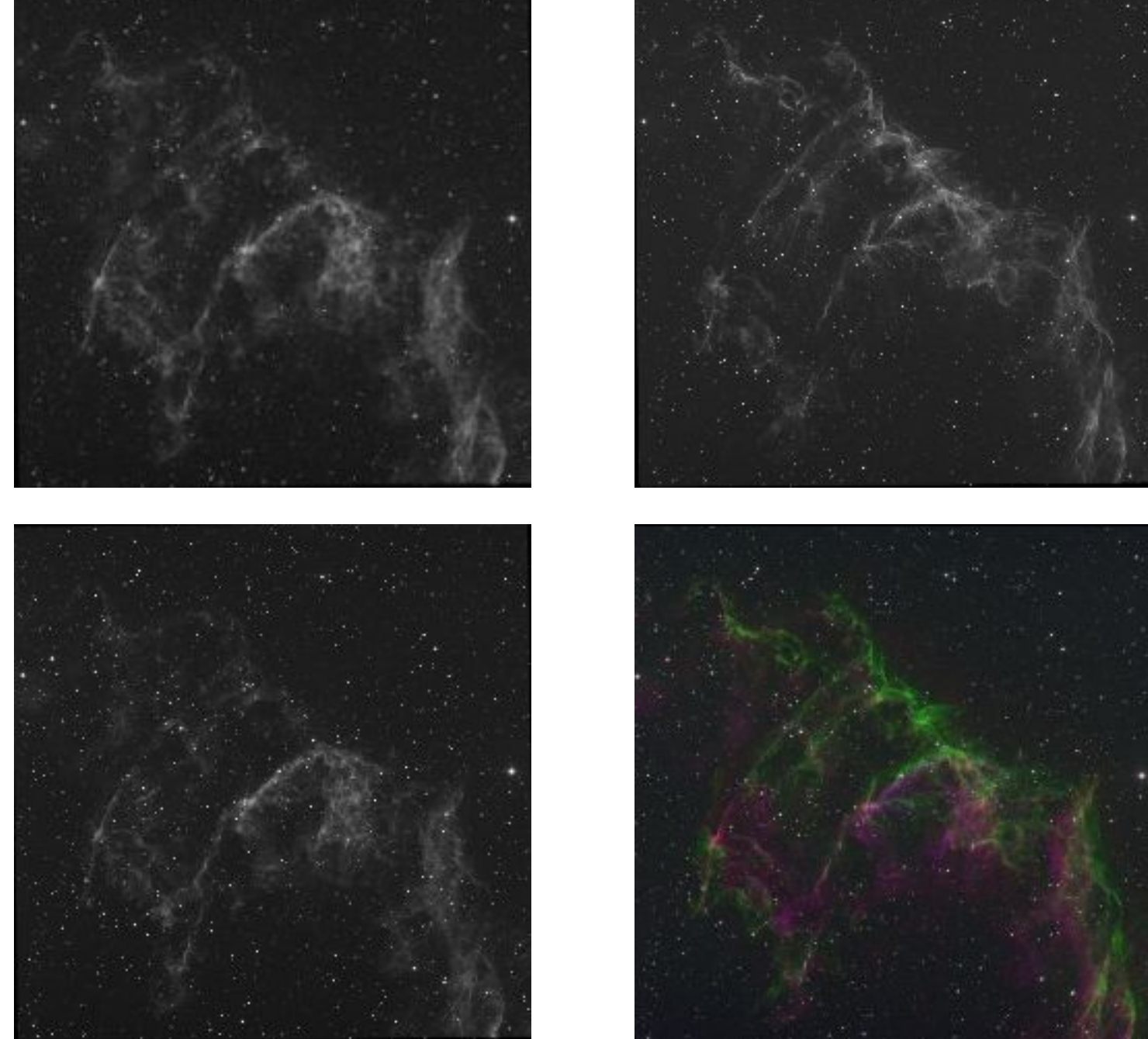
October 26 to November 1, 2020
RASC Weekly: Once in a blue moon 'blue moon' on a spooky Halloween night!

Now until October 31st
 Check out the SkyNews and RASC Robotic Telescope Image Editing Contest for October 2020, this month featuring the Veil Nebula!

Always wanted to try your hand at making beautiful space photos? Now's your chance! Enter our Astrophoto processing contest by October 31st for a chance to WIN a full year of astrophotography data from the RASC Robotic Telescope, and a RASC fanny pack!

Data and details to enter available here: <https://skynews.ca/rasc-robotic-telescope-contest-october-2020/>

If you're a beginner, make sure to download Level 3. You'll receive 3 separate files you can combine into a colourful image like the one here!



[Find out more and download files here](#)

Monday, October 26, 2020 - 20:30 to 22:00 EDT
RASC History Committee: Mars through the eyes of the RASC

This session will introduce the surviving images recording views of Mars by Society members at past oppositions. The material circumstances of the images (astronomical media and instruments used), and the non-observational factors possibly influencing what was seen at the eyepiece will be discussed. What can a considered perspective on past visions of the red planet teach us about our own observations at this opposition?

[Register for RASC History Committee: Mars through the eyes of the RASC](#)

Wednesday, October 28, 2020 - 19:30 to 21:00 EDT
Speaker's Night: Hunting Monsters in an Infant Cosmos

You're invited to RASC Toronto speaker night! In the fall through spring, we invite professional astronomers, PhD candidates, and scientists to discuss their projects and research.

Speaker's Night: Hunting Monsters in an Infant Cosmos:
 Investigating the Greatest Star Factories in the Universe (ONLINE)

[Watch Speaker's Night: Hunting Monsters in an Infant Cosmos](#)

Thursday, October 29, 2020 - 15:30 to 16:30 EDT
Session 10 of Explore the universe - Winter Observing

As we wrap up our series, we'll go over a few easy winter targets to get you started on your next season of observing. Join us to take a look at winter favourites such as Orion, Taurus, the Pleiades and the Orion Nebula. We will also take lots of time for questions in this session before sending you off on your next observing adventure!

[Join the Winter Observing - Session 10](#)

Friday, October 30, 2020 - 18:30 to 20:30 EDT
RASC Montreal Centre: Spooky Nights 2020

Calling all aliens, goblins & costumed characters...whether you're young or young-at-heart, join us to celebrate a Space-themed Halloween by Zoom with the Royal Astronomical Society of Canada (RASC) Montreal Centre and the John Abbott College (JAC) Space Club. Fun-filled activities with multi-media, a Kahoot! quiz, story-telling and crafts using mini-marshmallows and toothpicks (or raw spaghetti) will inspire kids of all ages, and space-themed costumes can be displayed on Zoom!

Meeting ID: 860 4645 4297
 Password: Spooky

[Join RASC Montreal Centre: Spooky Nights 2020](#)

Saturday, October 31, 2020 - 20:30 to 22:00 EDT
RASC Toronto Centre: Halloween Virtual Star Party

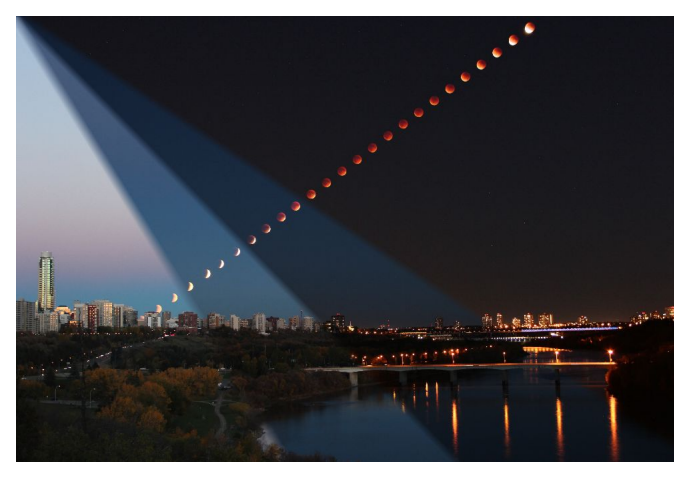
Are you ready to be bewitched? Join us for spellbinding stargazing at our Halloween Virtual Star Party! For the first time since 1944, a full Moon will light the Halloween sky. Admire this rare Halloween Blue Moon and the stars around it, discover some of the scariest places in the universe—from black holes to the Tarantula Nebula—and ask us your deep-space questions. Plus, hear from ecologist Cylita Guy, PhD, about a nocturnal animal often associated with Halloween: the bat!

[Join RASC Toronto Centre: Halloween Virtual Star Party](#)

Astro-image of the Week
Luca Vanzella

Starting this week, we are featuring winners of RASC's AstroImaging Certificate. Winners will be featured in the banner of RASC Weekly. More information on the RASC AstroImaging Certificate is available [here](#).

As seen from Edmonton AB, the Total Lunar Eclipse of 27 Sep 2015 occurred in gloriously clear skies. From the partially eclipsed Moon rising just before sunset to the end of totality in a dark sky, there were significant changes in lighting and colour. When the Moon first appeared above the skyline, the Belt of Venus and Earth's shadow were visible in the eastern sky, the buildings reflected sunset glows and the river valley showed off its autumn colours. As the partial phase of the eclipse progressed, the sky took on a light blue colour and building lights started turning on. As the total phase of eclipse began, the sky turned a deep blue, more lights turned on and the river reflected street lights. The remainder of totality was in a dark sky and the fully eclipsed Moon hung in the sky as if painted there. The extreme changes in light forced some decisions on how to represent the scene over the two-plus hours of the event in a single image, but this "time slice" composite image captures what I saw.



To see the large image, check out the [RASC AstroImaging Zenfolio page](#).

This Week for Explore the Universe Online

Monday, October 26th or Tuesday, October 27th
 Head out after sunset on Monday, October 26th or Tuesday, October 27th to catch a view of the waxing gibbous Moon! It'll set around 2:30am, so you have lots of time to see it. This is the last of the lunar phases to log for the program.

Thursday, October 29th
 It's our last session! We'll be going over some winter targets ([check them out here](#)) and will talk about how to apply for your certificate.

Saturday, October 31st
 Blue Moon on a spooky Halloween night? We wouldn't expect it any other way since we are in 2020! After the waxing gibbous on Monday, the lunar cycle will start approaching the full Moon. You might want to take a good look at the sky while wearing your scary costumes as this event happens literally once in a blue Moon!

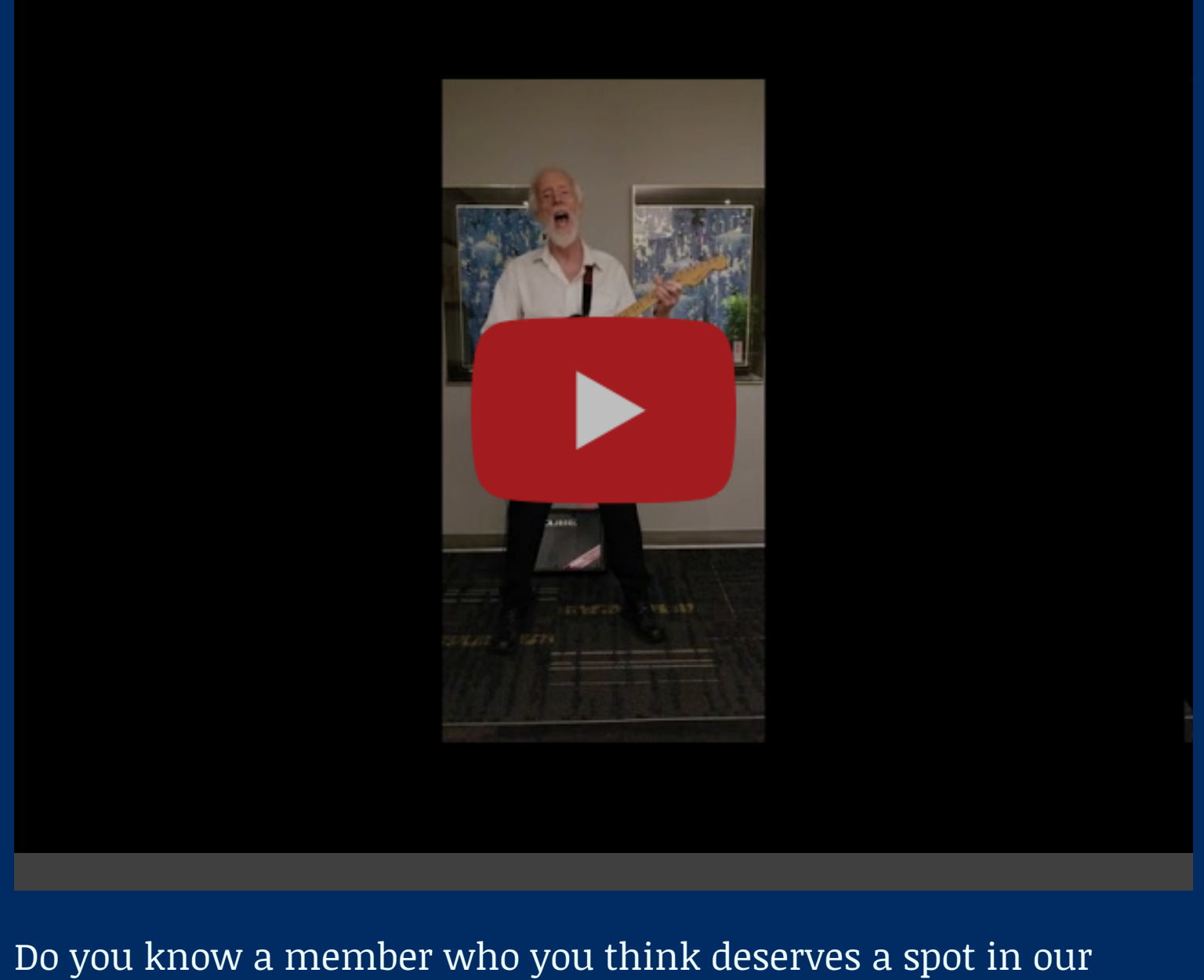
Anytime this week
 This whole week is great for observing the targets from our last session! Check out the targets and how to find them [here](#).



Missed last session? That's okay! Rewatch episode nine on our YouTube Channel. This week will be our last episode of Explore the Universe! Catch it now, or rewatch the entire series anytime on our YouTube Channel. Find out more and register for sessions [here](#)!

Member Highlights

Tom Harris from the Ottawa Centre submitted [this song](#) to RASC expressing his experience while living in Moscow during the 1950s.



Do you know a member who you think deserves a spot in our newsletter? Let us know! Email communications@rasc.ca with your submissions.