July 12 to July 18, 2021

RASC Weekly: Stellarium, Space Games, and the Circumgalactic Medium!

Monday, July 12, 2021 - 19:00 to 21:00 EDT
Stellarium introductory course - Toronto Centre (ONLINE)

Class participants will learn how to setup the software for a specific location, date, and time. They will learn how to view the simulated sky, zoom and pan, and search for and select celestial objects. Features such as gridlines, the meridian, sky settings, and red light mode will be explored. This will provide an amateur astronomer a basic overview of the Stellarium program.

FOR MEMBERS ONLY. Class sizes are limited. A waiting list is maintained for when courses are full. This training is not for the paid Stellarium app on smartphones or the Stellarium web app. NOTE THIS COURSE IS FULL! You can get on the waiting list:

Get on Stellarium Waiting list

Tuesday, July 13, 2021 - 19:30 to 21:30 EDT
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Wednesday, July 14, 2021 - 19:00 EDT
SkyNews Games in Space - Online streaming game night (out of space)

Does *Halo*'s Cortana ever remind Master Chief to stop for a sandwich? Does *Metroid*'s Samus ever take a nap? An element of humanity that is overlooked in almost every space game ever is the fact that we require regular maintenance and are burdened by our basic needs. *Out of Space* zeros in on these — and makes your friends worry about them, too.

Register for Games in Space - SkyNews

Thursday, July 15, 2021 - 21:30 to 23:30 EDT
Thursday, July 15, 2021 - 19:30 to 21:30 MDT
Fuel tank, waste dump, and recycling center: The circumgalactic medium over cosmic time - Calgary Centre

Presented by John O'Meara - RASC Calgary Centre

An introduction to the region between the galaxies we see in starlight and intergalactic space known as the circumgalactic medium, as told by the most powerful tools in astronomy.

In the last decade, the combination of observations from the Hubble Space Telescope and the largest telescopes in the world on the ground, along with state of the art simulations and theory have shown that the regions of gas surrounding galaxies, the so-called circumgalactic medium (CGM), can dominate the history of galaxy formation and evolution over billions of years. In this talk, I will introduce the CGM, show how our understanding has changed over the last few years, and will describe the powerful new tools coming online that will take the study of the CGM into the high-precision era. I will also give a brief tour of one of the most powerful observational tools we have on the ground to study the CGM today: the Keck Observatory.

Biography: John O'Meara is the Chief Scientist of the W.M. Keck Observatory, one of the most scientifically productive observatories on the planet. John is an observational astronomer and cosmologist, with interests in galaxy formation and evolution, experimental tests of Big Bang Nucleosynthesis, and federal science policy in the United States. John has a deep interest in developing future astronomical capabilities, and is a science team lead for the LUVOIR space telescope mission concept.

Passcode: 211771

Join The circumgalactic medium over cosmic time

Friday, July 16, 2021 - 21:30 - 23:00 EDT
Up in the Sky - Toronto Centre DDO

Join Toronto Centre, from the comfort of your home! This program provides an illustrated one-hour presentation and discussion about what exciting celestial events to look for each season. The events and phenomena will be explained using simple language, with recommendations about how best to observe and photograph them. Only one registration per household is required. Deadline to register for this program is Friday July 16, 2021 at 3pm EDT. Prior to the start of the program, you will be emailed information on the virtual program links and any specific information relating to your program.

Register for Up in the Sky

Saturday, July 17, 2021 - 16:00 to 18:00 EDT
Quick Astrophotography Under a Light Polluted Sky - Montreal Centre

Presented by Steve Warbis - RASC Montreal Centre

Montreal is ranked the third-worst metropolis in the world for light pollution, which greatly reduces our ability to enjoy the Night Sky. If you're interested to know how to take a light-polluted image with enough hidden detail to process it into a high quality deep sky image within the space of just 5 minutes in total, then you might want to see Steve Warbis's talk 'Quick Astrophotography Under A Light-Polluted Sky'. Steve will explain and illustrate the very simple, quick and basic methods and techniques which enabled him as a relative beginner to quickly capture all the Messier Objects under very challenging sky conditions.

Join Quick Astrophotography

Creation Station Deadline Extension!

DEADLINE EXTENDED TO JULY 31! The RASC invites kids ages 5-12 to share their short stories, drawings, poems and comics about Astronomy and Space. Visit rasc.ca/creationstation for more information and to submit your creation!

Astrophotography from our Followers!

If you had a chance to observe our Instagram, you can see that we tend to share our followers' photography on our stories! Given the great talent we have been seeing, we will be displaying their work in our RASC Weekly emails! DM us or send us an email through communications@rasc.ca if you wish for your work to be displayed in the next Newsletter!

This image is by Bill Batchelor! You can find his work here:
"Taken from my backyard in Coquitlam, British Columbia, Canada with the following equipment:
Telescope: William Optics FLT98 f/6.3
Imager: ASI1600mm C
Filters: Astrodon 5nm NB Filters (Ha, OIII, SII) / Astrodon Tru-Balance 2E series LRGB
Exposure: Total Exposure times varied but all NB subs were 300s with a camera gain of 139
Software: PixInsight, SGP"