

ASTROFEST

PLANÉTARIUM RIO TINTO ALCAN

FREE ACTIVITIES



Montréal

MAY 7, 2022



BOOTHS - 11 am to 6:30 pm

OBJECTIVE: MOON

Digital quiz for the young (and not-so-young!) about the Moon and Canada's role in future missions to explore the Moon. Come discover models and samples, chat with the CSA team and ask all kinds of questions!

Canadian space agency

Until 6 pm only

DREAM OF FLIGHT VR / VIRTUAL GAME "PASSION FOR FLIGHT"

Ready to head skyward? Put on a virtual reality headset to discover the diversity of aerospace careers. You'll also have the chance to play the "Passion for Flight" mini-game.

Cosmodôme

KIOSK OF THE FAAQ AND ITS MEMBER CLUBS

Presentation of the activities and services offered by the Fédération des astronomes amateurs du Québec and its member clubs, including the Biblioscope project, observation programs and equipment available for activities.

Fédération des astronomes amateurs du Québec

ROCKET COMPETITION

Learn about our competition rockets and then build your own tiny (or Alka-Seltzer) rocket. You'll be provided with the fuel to test it at home afterward!

McGill Rocket Team

HIGH POWER ROCKETS EXHIBITION

Presentation of high-powered, high-altitude rockets made entirely by students taking part in national and international rocketry competitions.

Oronos Polytechnique

RECOGNIZING A METEORITE

Pick out the meteorite among the ordinary rocks on display.

Planétarium Rio Tinto Alcan

SECRETS OF THE ASTROLABE

The astrolabe is an ancient astronomical instrument shrouded in mystery. In this workshop, you'll discover astrolabes and make one for yourself. You'll also learn to use this device that has such a storied past... and a future to carry on!

Pierre Paquette

NANOSATELLITE AND ROVER

Come discover two space engineering projects: the design of a nanosatellite (CubeSat) and of a Martian rover. Learn about the usefulness of these technologies and the engineering challenges of carrying out a space mission.

PolyOrbite

From 1 pm to 6 pm

INFORMATION AND ACTIVITIES TABLE

Talk to amateur astronomers and learn about activities and events in the greater Montreal area for Astronomy enthusiasts and hobbyists, including some wonderful Artemis Mission-themed events coordinated with the CSA.

RASC - Royal Astronomical Society of Canada / RASC Montreal Centre

HIGH-POWERED SOUNDING ROCKET EXHIBITION

Exhibition and presentation of Aarluk, a high-powered rocket entirely developed and built by students from Ecole de Technologie supérieure.

Club RockÉTS

INFORMATION AND ACTIVITIES TABLE

Discover the activities of your amateur astronomers club, partner of the Planétarium Rio Tinto Alcan.

Société d'astronomie du Planétarium de Montréal

CUBESAT

Come meet a group of engineering students from Université de Sherbrooke who have been participating in a Canadian Space Agency initiative since 2018 to design a CubeSat-type satellite.

SIRIUS / QMSat

From 1 pm to 5 pm

SPACE CONCORDIA'S ROCKETRY DIVISION

Space Concordia's Rocketry Division has been building bigger and better sounding rockets. They now aspire to become the first student team to build a liquid propelled rocket that will pass the Karman line (100 km of altitude) and reach space.

Space Concordia's Rocketry Division

From 11 am to 2 pm

CRAFTS - 11 am to 6:30 pm

LIFE FINDS A WAY

Draw/sculpt your own alien world or creature. Learn about extreme environments (on and off our world) and the kinds of creatures that could survive there!

AstroMcGill / McGill Space Institute

From 2 pm to 6:30 pm

POLLUX'S "STAR FINDER"

Cut out and assemble your kid-friendly star finder and take it home so you can view the actual sky and learn to pick out the main stars and constellations visible at that moment.

Cosmodôme

CREATE YOUR OWN PLANETARY SYSTEM ADVENTURE

Invent an alien planet system! Learn about the planetary systems around our Sun and other stars, then craft a short story that takes place in your own realistically designed system.

Institute for Research on Exoplanets / Discover the Universe / Centre for Research of Astrophysics in Quebec

ROCKET COMPETITION

Learn about our competition rockets and then build your own tiny (or Alka-Seltzer) rocket. You'll be provided with the fuel to test it at home afterward!

McGill Rocket Team

OBSERVATION OF THE EARTH FROM SATELLITES

Discovery table on the many services provided by satellites. You'll find out lots more from models, games and activities.

MDA

From 11 am to 4 pm

ARTEMIS MOON/MARS LANDER

Make a Lander for your astronauts, known as marshmallow-nauts. In this fun hands-on experiment, exploring the forces of gravity and motion, every lander will be given many chances to successfully land on the moon, or Mars targets.

Science Yourself! No G's about it!

From 12 pm to 2 pm

BUILD-A-MOON/ BUILD-A-PLANET

Imagine a world in space for you to live in around a distant star, or a moon in our solar system to colonize. With simple supplies, make your moon or planet into a small craft you can take home with you.

RASC - Royal Astronomical Society of Canada Montreal Centre / John Abbott College Space Club

From 2 pm to 4 pm

WORKSHOPS

11 am to 12:45 pm

WATER ROCKETS

Build your own water rocket, powered by a simple bike pump. Guaranteed splashes!

Planétarium Rio Tinto Alcan

1 pm to 1:45 pm • 3:15 pm to 4 pm •
4 pm to 4:45 pm

EGGSTRONAUT

Step into an engineer's shoes as you try to counter the effect of gravity by designing a lander for your egg. The egg represents the astronaut! If it breaks during the fall, the mission has failed! Are you up to the challenge?

SIRIUS / QMSat

2 pm to 3 pm

BUILD YOUR OWN EARTH-MOON SCALE MODEL

How big and far apart are the Earth and Moon? Find out! Build and paint your own model, then see it in augmented reality compared to the Sun.

Plateau Astro

5 pm to 6 pm

SECRETS OF THE ASTROLABE

The astrolabe is an ancient astronomical instrument shrouded in mystery. In this workshop, you'll discover astrolabes and make one for yourself. You'll also learn to use this device that has such a storied past... and a future to carry on!

Pierre Paquette

In French only

TALKS

11 am to 11:30 am

THE DOME NETWORK: SEARCHING FOR METEORITES

DOMe is a network of cameras designed to detect meteorites that enter the Earth's atmosphere and fall on Quebec soil. Check out how this network will be distributed and operated in Quebec.

Planétarium Rio Tinto Alcan

In French only

11:45 am to 12:15 pm

UN RÊVE DEVENU RÉALITÉ!

Learn about the evolution of craftsman Normand Fullum's telescope manufacturing company.

Optiques Fullum

In French only

12:30 pm to 1 pm

SATELLITES FOR CLIMATE CHANGE

Discover GHGSat, a local company that operates a fleet of high-resolution satellites and provides data on greenhouse gas (GHG) emissions from industrial sites.

GHGSat

1:15 pm to 1:45 pm

DES SATELLITES POUR LE CHANGEMENT CLIMATIQUE

Discover GHGSat, a local company that operates a fleet of high-resolution satellites and provides data on greenhouse gas (GHG) emissions from industrial sites.

GHGSat

In French only

2 pm to 3 pm

THE SCIENCE BEHIND THE WEBB TELESCOPE

The James Webb Space Telescope is now launched, deployed and ready to begin its scientific operations this summer! Come discover some of the incredible scientific projects using the Webb Telescope's data led by astronomers in Canada during this panel discussion.

Institute for Research on Exoplanets / Observatoire du Mont-Mégantic / Canadian Space Agency

In French only

3:15 pm to 4 pm

DOING THE IMPOSSIBLE, BUILDING STARSAILOR

Despite the global pandemic, Space Concordia's Rocketry Division has been able to build and test the largest rocket in Canada: StarSailor. It was equipped with the largest rocket engine ever developed and fired by students! The team plans to launch to space in late 2022.

Space Concordia Rocketry Division

4:15 pm to 4:45 pm

HOW TO GET STARTED IN CELESTIAL LANDSCAPE PHOTOGRAPHY USING A CAMERA OR YOUR PHONE

Samer from Zenderfull explains how to start shooting the starry sky using your camera or phone.

Zenderfull

In French only

5 pm to 5:30 pm

A DREAM COME TRUE!

Learn about the evolution of craftsman Normand Fullum's telescope manufacturing company.

Optiques Fullum

ALL DAY

ASTROPHOTOGRAPHY EXHIBITION

Come and discover the talent of Quebec astrophotographers with their exhibition of photographs of astronomical objects and celestial events.

BrightDot Events / Société d'astronomie de la Montérégie / RASC - Royal Astronomical Society of Canada Montreal Centre / Zenderfull

OBSERVATION OF THE SUN

Observation of the Sun thanks to adapted and safe telescopes. Admire our daytime star as you've never seen it before!

Planétarium Rio Tinto Alcan / RASC - Royal Astronomical Society of Canada Montreal Centre / Société d'astronomie du Planétarium de Montréal

The activity is cancelled in the event of cloudy skies.

EVENING

7 pm

FREE PRESENTATION

BY CANADIAN SPACE AGENCY ASTRONAUTE DAVID SAINT-JACQUES

David Saint-Jacques will speak about future lunar exploration missions.

Places are limited for this activity! However, his presentation will also be screened outdoors, weather permitting. The conference will also be broadcast on social networks.

8 pm

MUSICAL ENTERTAINMENT WITH GRÜV'N BRASS

8:30 pm to 11 pm

OBSERVATION OF THE MOON AND THE SKY THROUGH TELESCOPES

Join our amateur astronomer clubs to observe the starry sky. Photograph the Moon, pose in front of spectacular telescopes and dive into the starry sky, with the naked eye and telescopes.

Planétarium Rio Tinto Alcan / Fédération des astronomes amateurs du Québec / Société d'astronomie du Planétarium Rio Tinto Alcan / Société d'astronomie de la Montérégie / Astropoly / RockÉTS / Normand Fullum / Pierre Paquette / RASC - Royal Astronomical Society of Canada Montreal Centre / Plateau Astro

In case of cloudy weather, the activity will be cancelled. A free show will be offered inside the Planetarium Rio Tinto Alcan theaters.

THANKS TO OUR PARTNERS FOR THEIR PARTICIPATION IN THE EVENT

