

DISCOVER

SCIENCE RENDEZVOUS KINGSTON

MAY 4 – 22, 2022

CENTRE STAGE PRESENTS

CELEBRATE THE INTERNATIONAL DAY OF ASTRONOMY

Discover Stellarium, a free virtual planetarium.



May 6, 2022 | 1 - 2:30 PM

VIRTUAL EVENT

CONNOR STONE, PhD Candidate, Queen's Observatory Coordinator

WEBINAR PRESENTATION:

Join me as we explore the night sky from home using the free software: Stellarium. In this presentation I will show you how to navigate the night sky, find nebulae, galaxies, planets, and constellations with nothing but your eyes and a pair of binoculars. The night sky is our shared backyard through space and time, see how you can learn about unique sky stories from cultures around the world. Get excited about what you can find in the night sky, there's a whole Universe up there to explore and it's free for everyone!

BIO:

Connor Stone is a PhD candidate at Queen's University studying the nature of galaxies in our Universe. Galaxies are scattered throughout the Universe and are made up of millions to trillions of stars, generally swirling around a gigantic Black Hole. His work involves analyzing thousands of galaxies with Machine Learning and Bayesian statistics to determine the fundamental patterns that govern these titans of the night sky. Connor is also the Queen's Observatory coordinator, organizing outreach programs such as open houses, virtual planetarium tours for classrooms, and the [Fast Radio Bursts](#) podcast.

REGISTER FOR THIS EVENT:

<https://may6-day-of-astronomy.eventbrite.ca>



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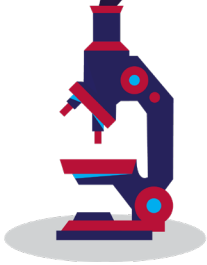
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CENTRE STAGE PRESENTS

BIRD WALK

with local ornithologists Fran Bonier and Paul Martin at City Park

May 7 & 14, 2022 | 7:00 AM

LIVE EVENT

PRESENTATION:

Participants will meet at City Park (North Side near the Court House) at 7:00 a.m.

Participants should bring binoculars and water, and expect to walk for about 2 hours, but at a nice leisurely pace with lots of stops to look at birds and chat. Fran and Paul will bring a spotting scope and some other gear to help ensure people see some cool stuff!

Registration is required for this event. Maximum number for each walk is 20.
Rain date will be May 15, 2022.

LIMITED SPACE | REGISTER FOR THIS EVENT:

<https://may7-14-bird-walk.eventbrite.ca>



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CENTRE STAGE PRESENTS

LIVE EVENT

ICE AGE WORKSHOP FOR STUDENTS

GRADES 4-6 at KFPL Central Library

May 7, 2022 | 9:30 - 11:30 AM OR 1:00 - 3:30 PM

LINDSEY CARMICHAEL, Ph.D., Scientist, Children's Author

PRESENTATION:

Once upon a time, giants walked the Earth. From beavers the size of bears to sloths the size of giraffes, to mammoths and mastodons and saber-toothed cats, Canada was home to creatures far larger — and stranger — than any living here today. To the people who lived alongside them, the Pleistocene megafauna represented danger and survival all in one hairy package.

But then something happened: the Ice Age ended, and 38 different types of mega-mammals went extinct. Luckily for us, they left their fossils behind! Those bones, teeth, and mummies help palaeontologists — and fans of the Ice Age movies! — understand what life in the Pleistocene was really like.

In this workshop, you'll learn more about Canada's Ice Age and the animals that once lived here. We'll do a hands-on experiment and several activities involving real fossils of extinct animals. All participants will take home a field notebook recording their explorations... and a fossil of their very own!

BIO:

At some point, every kid starts asking "Why?". Lindsey Carmichael never stopped. As a PhD candidate, she uncovered new reasons why arctic foxes are the coolest; as a forensic scientist, she found out why bears sometimes get away with murder. As a writer, she follows her sense of wonder to the "whys" of subjects as diverse as nature, the environment, medicine, and technology.

The award-winning author of more than 20 STEM books for children and young adults, Lindsey writes to spark her readers' curiosity and ignite their imaginations. Packed with "oh wow!" and "I never knew that!", her books reveal the process of discovery and the stories behind the science. Lindsey's workshops encourage inquiry and kindle a love of life-long learning.

Lindsey's weird and wide-ranging background is coming in handy in her new role as author and lead researcher of the Learning With Palaeontology Teaching Kits. The first Kits, on the Pleistocene Extinction, launch in 2022... and have made her wish for a baby mammoth of her very own.

lecarmichael.ca

LIMITED SPACE | REGISTER FOR THIS EVENT:

<https://may7-iceage-student-workshop.eventbrite.ca>



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CENTRE STAGE PRESENTS

YOUTH CLIMATE LAB POLICY JAM

with Jasveen Brar at KFPL Central Library

May 7, 2022 | 9am - Noon and 1 - 4pm

LIVE EVENT

JASVEEN BRAR (She/Her), **Executive Director of Youth Climate Lab**



Youth Climate Lab

WORKSHOP 1: Climate Action Youth Policy Jam (Part 1)

Policy Jam hosted by Youth Climate Lab (YCL). This session will be a dynamic space for youth to connect and learn about climate action in their local community and beyond and to explore creative solutions of youth in just and climate resilient spaces.

WORKSHOP 2: Climate Action Youth Policy Jam (Part 2)

In this workshop we will focus on the conclusion and lessons from Workshop 1 (for anyone that was unable to join) as well as focus on the power of storytelling (how to leverage their storytelling skills), discovering your potential and voice as well as how to get involved in your local community.

BIO: Jasveen (she/her) is a climate educator from the prairies. Her work centres around environmental justice, intersectional environmentalism and ensuring that youth are involved in decision-making. She holds a B.Sc. from Dalhousie University in Biology and Sustainability and has experience working in ocean conservation, polar policy and education.

Jasveen has been named a Top 30 Environmental Educator by NAAEE, Top 25 Environmentalist by Starfish and holds a Sovereign's Medal for Volunteers from the Governor General of Canada. She also serves on the Governance board for the Canadian Ocean Literacy Council.



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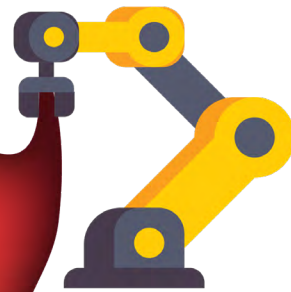
LIMITED SPACE | REGISTER FOR THIS EVENT:

<https://may7-youth-climate-jam-workshop.eventbrite.ca>

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CENTRE STAGE PRESENTS

ROBOTICS ON THE DAIRY FARM

with Jason French, DeLaval

May 10, 2022 | 1 - 2:30 PM

VIRTUAL EVENT



JASON FRENCH, VMS Solution Manager
DeLaval North America Market Area

TOPIC OF DISCUSSION:

The dairy farm has seen a lot of change when it comes to agriculture technologies over the last 100 years, and the level of speed that this is occurring is incredible. One major change is the way cows are being milked, and robotic milking is becoming a fast adopted system in farms around the world. We will look at how the milking robot operates and how the overall cow comfort in these new dairy barns is making cows live longer. We will present videos of cows being robotically milked virtual tour of a robot barn to see how these cows are living today. When you go to buy that container of milk or tub of ice cream at your local store in the future, you will then know more about how that milk product started off at the farm before it gets to your table.

BIO:

Growing up on a dairy farm in Peterborough County gave Jason French the experience and passion to continue his career in the dairy industry. His career has involved cattle breeding genetics, development of the Holstein dairy breed and now with DeLaval who manufactures milking equipment for dairy farms on a global scale. DeLaval has developed a milking robot called the VMS (Voluntary Milking System) where Jason is the Robotic Solution Manager for the North American division. His main focus is leading the strategy on how DeLaval can bring this technology to dairy farms across the continent with focus on farm labour savings and improvement of cow efficiency and welfare on the farm.

REGISTER FOR THIS EVENT:

<https://may10-robotics-dairy-farm.eventbrite.ca>



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CENTRE STAGE PRESENTS

THE STORY OF A FOSSIL

with Calla Carbone

May 11, 2022 | 1 - 2:30 PM

VIRTUAL EVENT

CALLA CARBONE, Research Assistant, Miller Museum

PRESENTATION:

From Discovery to Display: The Work of a Paleontologist – A webinar given by a paleontologist discussing their experiences working on a variety of different Canadian fossils including Ediacaran fossils from Mistaken Point (Newfoundland) and the Northwest Territories, and Cretaceous fossils from the badlands of Alberta. The paleontologist will outline all of the steps that go into a fossil discovery: prospection, collection, preparation, research, and display and will be available for questions.

BIO:

Calla Carbone completed her BSc and MSc degrees at Queen's University, specializing in paleontology. Her research took her to the Northwest Territories to study fossils of the world's oldest mobile animals, leading to her groundbreaking publication *When Life Got Smart*. She went on to work as a fossil preparator at the Royal Tyrrell Museum in Drumheller, Alberta where she was involved in fossil digs as well as in-museum work preparing fossils and creating life-size dinosaur skeletons for display at museums across Canada. Her paleontological work has taken her to several world-class Canadian fossil sites including the UNESCO World Heritage Sites at Mistaken Point (Nfld), the Burgess Shale (BC), and Dinosaur Provincial Park (AB). Calla continues to work on many geological and paleontological research projects at Queen's University and the Miller Museum.

REGISTER FOR THIS EVENT:

<https://may11-story-of-a-fossil.eventbrite.ca>



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CENTRE STAGE PRESENTS

MUSEUM IN THE CLASSROOM: WORKSHOP FOR EDUCATORS

May 12, 2022 | 3:30 - 5:00 PM

VIRTUAL EVENT

LINDSEY CARMICHAEL, PH.D.
Scientist, Children's Author, Speaker

TEACHING WITH PALAEOLOGY:

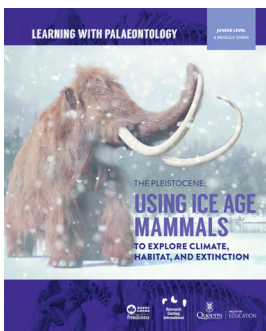
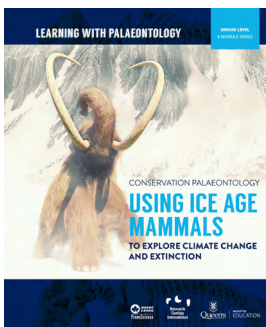
Visits to natural history museums inspire curiosity, awe, and wonder towards the natural world, motivating students to learn more about STEM. However, not all students can make these visits, either from home, or with school-sponsored field trips. Learning With Palaeontology Teaching Kits bridge this gap, bringing the museum into the classroom for the benefit of all.

Containing museum-quality artifacts, experiential learning opportunities, and curriculum-linked teaching resources, these Kits will affect positive attitudinal change, improve content knowledge, and lead to further interest, independent study or future STEM career goals for young learners. Students will explore biology, zoology, geology, chemistry, physics, and mathematics, while studying fossil casts and supporting materials. The included Teacher's Guides will help instructors transition from the "inexperienced enthusiasts" of field trip leaders to STEM content experts with comfort facilitating experiential, exploratory learning.

Junior-level and Senior-level kits on the Pleistocene Extinction launch in 2022. In this workshop, you'll discover how to bring these free resources into your classroom. You'll examine the fossils, ask questions, and attempt some of the suggested classroom activities. Information on contents, curriculum connections, and borrowing both physical and digital editions of the Kits will be provided.

REGISTER FOR THIS EVENT:

<https://may12-museum-workshop-educators.eventbrite.ca>



lecarmichael.ca



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CENTRE STAGE PRESENTS

SNOLAB VIRTUAL TOUR

Exploring new frontiers in deep underground science

May 13, 2022 | 1 - 2:30 PM EST

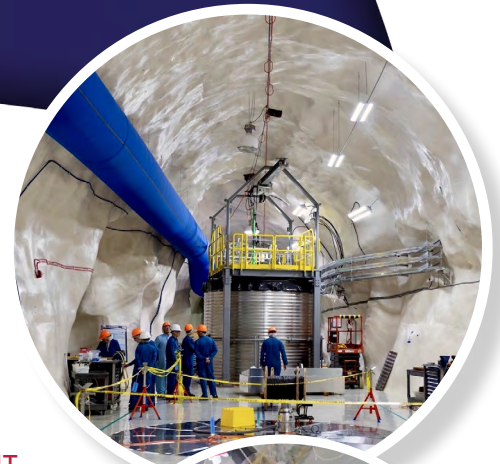
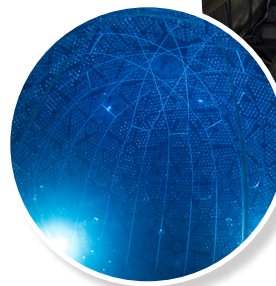
VIRTUAL EVENT

DR. ERICA CADEN, SNOLAB Research Scientist

Join the team at SNOLAB for a virtual tour of Canada's deep underground science laboratory. SNOLAB is a clean lab that is located 2km underground in an active mine. Scientists from around the world work together on huge experiment collaborations. Many experiments are focused on astroparticle physics but SNOLAB also hosts biology, geology and other types of science. Learn about the journey into the laboratory, about the science, and the people that make it happen.

REGISTER FOR THIS EVENT:

<https://may13-snolab-tour.eventbrite.ca>



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