

NOVEMBER FREE SCIENCE* EVENTS



CONTENTS

- | | |
|-----------------|---|
| Nov. 1 | <ul style="list-style-type: none"> ➤ The Inner Universe of Quantum Materials. University of Toronto (UofT). Dept. of Physics ➤ November AstroTour. Cosmic Rays: Astrophysics at Maximum Energies. University of Toronto (U of T). Dept. of Astronomy and Astrophysics |
| Nov. 3 | <ul style="list-style-type: none"> ➤ Solar Observing. Royal Astronomical Society of Canada (RASC) – Toronto Centre ➤ Nuts about Seeds (Fall). Family Nature Walks. High Park Nature Centre |
| Nov. 4 | <ul style="list-style-type: none"> ➤ Tommy Thompson Park Bird Walks. Toronto and Region Conservation ➤ Geological Wonders and Origins Walking Tour. High Park |
| Nov. 7 | <ul style="list-style-type: none"> ➤ Recreational Astronomy Night. Royal Astronomical Society of Canada (RASC) – Toronto Centre |
| Nov. 8 | <ul style="list-style-type: none"> ➤ The ESA Gaia Mission and dark matter in the Milky Way. University of Toronto (U of T). Dept. of Physics |
| Nov. 9 | <ul style="list-style-type: none"> ➤ Astronomy on Tap T.O. Dunlap Institute for Astronomy & Astrophysics, Dept. of Astronomy & Astrophysics, and the Canadian Institute for Theoretical Astrophysics |
| Nov. 10 | <ul style="list-style-type: none"> ➤ Bird Walk. Citizens Concerned about the Future of the Etobicoke Waterfront (CCFEW) |
| Nov. 14 | <ul style="list-style-type: none"> ➤ Ethics in the City: A Human-centred Use of Technology in Cities. Centre for Ethics, University of Toronto |
| Nov. 15 | <ul style="list-style-type: none"> ➤ ELLICSR Kitchen. UHN Princess Margaret Cancer Centre |
| Nov. 16 | <ul style="list-style-type: none"> ➤ Cannabis: An Educational Workshop. Catch The Fire Toronto |
| Nov. 18 | <ul style="list-style-type: none"> ➤ Art of the Park Walking Tour. High Park |
| Nov. 20 | <ul style="list-style-type: none"> ➤ Exoplanets and the Search for Habitable Worlds. Dept. of Physics. University of Toronto |
| Nov. 25 | <ul style="list-style-type: none"> ➤ West Toronto Lakeshore and Beyond. Toronto Ornithological Club ➤ Extreme Weather: Is it here to Stay? Royal Canadian Institute for Science (RCIScience) |
| November | <ul style="list-style-type: none"> ➤ Multi-day Events |
| November | <ul style="list-style-type: none"> ➤ Weekly Events |
| November | <ul style="list-style-type: none"> ➤ Toronto Public Library Science & Technology programs |
| November | <ul style="list-style-type: none"> ➤ Health & Wellness programs |

Free Science* Events

November 2018

*and applied-science



Please confirm the date and time of events prior to attending, as they sometimes change.

Thursday, November 1

***The Inner Universe of Quantum Materials.* University of Toronto (U of T). Dept. of Physics.**

Historically the study of physics in our local environment has led to an improved understanding of nature well beyond our planetary bounds. As a physicist who has worked in academia and industry, in this talk Premala Chandra hopes to convey her excitement for the study of quantum materials both for their application to the everyday and for their fundamental properties that may help to understand our greater Universe.

Speaker: Premala Chandra (Rutgers University)

Time & location: 4:10 – 5 PM
MP102, 60 St George Street, Toronto, ON M5S 3H8

[View Map](#)

For more information: <https://www.physics.utoronto.ca/dept-items/colloquium/event.2018-01-16.5762705981>

***November AstroTour. Cosmic Rays: Astrophysics at Maximum Energies.* University of Toronto (U of T). Dept. of Astronomy and Astrophysics.**

The U of T Astronomy public tour is a monthly event operated by the graduate students of the U of T Astronomy department. The tour features a public lecture by a member of the department on topics ranging from their research to great moments in astronomical history. Following the lecture, tour-goers can peer at the night sky through the department's balcony and dome telescopes, or watch a planetarium show run live by astronomer.

Speaker: Dr. Tova Yoast-Hull

Time & location: 8 PM
Room 102, McLennan Physical Laboratories, 60 St George Street, Toronto, ON M5S 3H8

[View Map](#)

For more information: http://www.astro.utoronto.ca/astrotours/?page_id=392

Saturday, November 3

***Solar Observing.* Royal Astronomical Society of Canada (RASC) – Toronto Centre.**

Join RASC at the Ontario Science Centre for their monthly Solar Observing on the TELUSCAPE observing pad. This is the area in front of the Science Centre's entrance.

Time & location: 10 AM – 12 PM
Ontario Science Centre, 770 Don Mills Rd, Toronto, ON M3C 1T3

[View Map](#)

For more information: <https://rascto.ca/content/solar-observing-106>

***Nuts about Seeds (Fall). Family Nature Walks.* High Park Nature Centre.**

Plants have developed many amazing strategies to spread their seeds, such as being hitchhikers, tummy travellers or wind dancers. Join High Park Nature Centre on a walk to look for seedy specimens and marvel about the variety of ways seeds can travel through High Park. This event is great for all ages.

Time & location: 1:30 - 3 PM
High Park Nature Centre, 375 Colborne Lodge Drive, Toronto, ON M6R 2Z3

[View Map](#)

For more information: <https://highparknaturecentre.com/2/demo/event/3171>

Sunday, November 4

Tommy Thompson Park Bird Walks. Toronto and Region Conservation.

Join Tommy Thompson Park birding experts to discover Toronto's globally significant important bird area. The park is an amazing spot for bird watching: 316 recorded species, including at least 55 breeding ones. The park is an important stopover during migration for many bird species that need to rest and refuel to continue their journey. Walks are typically 2 hours long, come dressed in weather appropriate clothing.

Time & location: 8 AM – 10 AM
Tommy Thompson Park, 1 Leslie Street, Toronto, ON M4M 3M2

[View Map](#)

For more information: https://tommythompsonpark.ca/event/tommy-thompson-park-bird-walks/?instance_id=145

Geological Wonders and Origins Walking Tour. High Park.

Sunday morning casual gatherings offering observations on the various elements of the park. Each walk has a different theme and is led by volunteer scientists, historians, and local naturalists who will help you understand and explore High Park's many characteristic features.

Time & location: 10:30 AM – 12 PM
Meet at the benches, across the road from the south side of Grenadier Restaurant in the middle of High Park.
200 Parkside Drive, Toronto, ON M6R 2Z3

[View Map](#)

For more information: http://www.highpark.org/event/geological-wonders-and-origins-walking-tour-3/?instance_id=31377

Wednesday, November 7

Recreational Astronomy Night. Royal Astronomical Society of Canada (RASC) – Toronto Centre.

RACS Members will present their latest projects and give tutorial and tips on astronomy topics.
Speakers: Andy Beaton - The sky this month
Denis Grey - A digital occultation camera

Time & location: 7:30 – 9:30 PM
Ontario Science Centre, 770 Don Mills Rd, Toronto, ON M3C 1T3

[View Map](#)

For more information: <https://www.rascto.ca/content/recreational-astronomy-night-57>

Thursday, November 8

The ESA Gaia Mission and dark matter in the Milky Way. University of Toronto (U of T). Dept. of Physics.

The Gaia Mission is making the most precise measurements ever made of stars. These measurements have the promise to resolve physics issues with the Solar System, stars, and the Milky Way, among others. One hope is that the Mission's kinematic measurements might give us an image of the dark matter in the Milky Way or produce results that identify the detailed physical characteristics of the dark matter particle. David Hogg from New York University will explain how the Mission works, and how it might deliver on these hopes. He will also show evidence they have already found in the data for a dark-matter substructure orbiting in the Milky Way halo.

Time & location: 4:10 – 5 PM
MP102, 60 St George Street, Toronto, ON M5S 3H8

[View Map](#)

For more information: <https://www.physics.utoronto.ca/dept-items/colloquium/event.2018-08-20.7155572401>

Friday, November 9

Astronomy on Tap T.O. Dunlap Institute for Astronomy & Astrophysics, Dept. of Astronomy & Astrophysics, and the Canadian Institute for Theoretical Astrophysics.

Enjoy fun evening of pints, astronomy news, mind-expanding talks, games, prizes, and Dunlap merchandise for sale. This is a great opportunity for public to ask their cosmic questions to the astronomers from the Dunlap Institute and the University of Toronto.

Time & location: 8 – 11 PM
The Great Hall, 1087 Queen St W, Toronto, ON M6J 1H3

[View Map](#)

For more information: <https://www.rascto.ca/content/dunlap-institute-astronomy-tap-12>

Saturday, November 10

Bird Walk. Citizens Concerned about the Future of the Etobicoke Waterfront (CCFEW).

CCFEW organizes a series of 8 to 10 bird walks through the year at Toronto waterfront parks. Winter walks are normally held at Humber Bay, while spring and fall walks are at Colonel Sam Smith Park. The walks are led by experienced birders and are free for anyone who is interested in attending.

Leader: Garth Riley

Time & location: 9 – 11 AM

[View Map](#)

Meet in the main parking lot of Humber Bay East.

For more information: http://www.ccfew.org/html/bird_walks.html

Wednesday, November 14

Ethics in the City: A Human-centred Use of Technology in Cities. Centre for Ethics. University of Toronto.

Advances in technology inevitably play a critical part in the evolution of cities. How they are absorbed, and what impacts they have are open questions. We have good examples and uncomfortable ones. The uncritical euphoria with which we embraced the internal combustion engine in the decades after World War II led to many unforeseen consequences as we reshaped the urban world around the needs of the car. As we recover from that excess, we now have a new and pressing set of challenges in the digital area. The questions for me often come down to how a 'human-centred' urbanism could be aided by technology, not be subverted by it. Can we assess potential solutions against human values and decide when to say no, not exactly, bend, inflect and choose.

Speaker: Ken Greenberg (Principal, Greenberg Consultants)

Time & location: 4 – 6 PM

[View Map](#)

Centre for Ethics, Room 200, Larkin Building, 15 Devonshire Place, Toronto, ON M5S 1H8

Registration required: <https://www.eventbrite.ca/e/ethics-in-the-city-a-human-centred-use-of-technology-in-cities-w-ken-greenberg-tickets-50559168835>

Thursday, November 15

ELLICSR Kitchen. UHN Princess Margaret Cancer Centre.

The ELLICSR Kitchen hosts a series of dynamic healthy cooking demonstrations led by Wellness Chef Jeremy Capone and Registered Dietitian Stephanie Gladman. Demonstrations feature healthy, simple and delicious recipes, special guest appearances, and tasty samples.

Time & location: 12:15 PM

[View Map](#)

Health, Wellness & Cancer Survivorship Centre, Basement, Room B PMB 130, 200 Elizabeth Street, Toronto, ON M5G 2C4

For more information: https://www.uhn.ca/PrincessMargaret/PatientsFamilies/Specialized_Program_Services/Patient_Education_Classes/Pages/ellicsr_kitchen.aspx

Friday, November 16

Cannabis: An Educational Workshop. Catch The Fire Toronto.

The workshop is aimed to help youth and parents understand the effects of weed. Attendees will learn the medical side effects of weed as well as common misleading facts about it.

This event is for parents, youth and anyone who wants to learn about weed so that they will be able to articulate them in discussions with either family or friends.

Time & location: 7:30 – 9:30 PM

[View Map](#)

School of Ministry building, 268 Attwell Drive, Etobicoke, ON M9W 5B2

For more information: <http://ctftoronto.com/cal/2018/10/19/weed-day-a-workshop-for-parents-youth>

Sunday, November 18

Art of the Park Walking Tour. High Park.

Sunday morning casual gatherings offering observations on the various elements of the park. Each walk has a different theme and is led by volunteer scientists, historians, and local naturalists who will help you understand and explore High Park's many characteristic features.

Time & location: 10:30 - 12 PM

[View Map](#)

Meet at the benches, across the road from the south side of Grenadier Restaurant in the middle of High Park.
200 Parkside Drive, Toronto, ON M6R 2Z3

For more information: http://www.highpark.org/event/art-of-the-park-walking-tour-3/?instance_id=31379

Tuesday, November 20

Exoplanets and the Search for Habitable Worlds. Department of Physics. University of Toronto

For thousands of years people have wondered, "Are there planets like Earth?" "Are such planets common?" "Do any have signs of life?" Today astronomers are poised to answer these ancient questions, having recently found thousands of planets that orbit nearby stars, called "exoplanets". Professor Sara Seager, one of the world's leading experts on this search for Earth-like planets, will share the latest advances in this revolutionary field.

Time & location: 7:30 – 9 PM

[View Map](#)

Isabel Bader Theatre, Victoria College, 93 Charles St. West, Toronto, ON M5S 2C7

For more information: <https://www.physics.utoronto.ca/news-and-events/special-events/lectures/tuzo-wilson/wilson-lecture-2018>

Sunday, November 25

West Toronto Lakeshore and Beyond. Toronto Ornithological Club.

This walk will take place, rain or shine. It may involve walking on unpaved trails that may be muddy, steep, overgrown and/or uneven. Participants should wear sturdy footwear and clothing, sunscreen and insect repellent appropriate to the weather/season. Bring a snack or lunch and something to drink. Leader: Garth Riley.

Time & location: 9 AM

[View Map](#)

Meet at the parking lot at Humber Bay Park East (located off Park Lawn Rd south of Lakeshore Boulevard West).

For more information: <http://www.torontobirding.ca/site/outings>

Extreme Weather: Is it here to Stay? Royal Canadian Institute for Science (RCIScience).

Join RCIScience for another Science Sunday where Professor Richard Peltier will show you how physics and computational methods are used to create models of our past and future climate.

Time & location: 2 – 3:30 PM

[View Map](#)

JJR Macleod Auditorium, Medical Sciences Building
1 King's College Circle, Toronto, ON M5S 1A8

Registration required: <https://www.eventbrite.ca/e/extreme-weather-is-it-here-to-stay-tickets-51489090255>

For more information: <https://www.rciscience.ca/events-1/2018/11/25/extreme-weather>

Multi-day Events

Monday, November 12 to Thursday, November 15

City Star Party (first clear night: Monday to Thursday). Royal Astronomical Society of Canada (RASC) – Toronto Centre.

Hover above the moon like an astronaut and get eye-to-eye with the planets. Find colourful stars, star clusters, bright nebulae and even another galaxy. RASC monthly City Star Party is the place to catch universe from within the city limits at Bayview Village Park.

Time & location: TBD

[View Map](#)

Bayview Village Park, 2945 Bayview Ave, Toronto, ON M2K 1E9

For more information: <https://rascto.ca/content/city-star-party-first-clear-night-monday-thursday-1>

Monday, November 12 to Friday, November 16

Meteor Showers 2018. Allan I. Carswell Observatory at York University.

Visit to view the 2018 Leonid Meteor Shower with the Allan I. Carswell Observatory Team at York University. With up to 15 meteors visible every hour, multiple telescopes available for viewing celestial objects and a constellation tour, it will be a fun, astronomy filled night.

Time & location: 8:30 - 10:30 PM

[View Map](#)

William Small Centre (top of the Arboretum), York University, 4700 Keele Street, Toronto, ON

For more information: <https://observatory.info.yorku.ca/>
<https://www.facebook.com/AllanICarswellObs/photos/a.10151038416757827/10155454965832827/>

Tuesday, November 20 to Wednesday, November 21

Focused Ultrasound: a New Frontier for Brain Therapy - Public Lecture. The Gairdner Foundation and Sunnybrook Research Institute.

The Gairdner Foundation and Sunnybrook Research Institute are co-hosting an international symposium on focused ultrasound, a breakthrough technology that could change medicine forever. This exceptional event will showcase the promise of focused ultrasound to treat brain diseases where few or no options exist, including Alzheimer's, Parkinson's, depression, ALS and cancer.

Time & location: November 20, 3 – 5 PM

[View Map](#)

November 21, 8 – 5:30 PM

Koerner Hall, TELUS Centre, 273 Bloor Street West, Toronto, ON M5S 1W2

Registration required: <https://sunnybrook.ca/research/focusedultrasound/registration.html>

For more information: <https://sunnybrook.ca/research/focusedultrasound/index.html>

Weekly Events

Wednesdays, November 7, 14, 21, and 28

Public Viewing. Allan I. Carswell Observatory. York University.

The observatory welcomes public interest and highly promotes the field of astronomy to those who are interested. The public viewing program runs all year round and is popular with the local and visiting communities. On public viewing nights, visitors are able to observe selected celestial objects in the presence of friendly staff, in addition to engaging in various on-hand presentations. The observatory is open regardless of weather conditions, even though viewing through the telescope is limited to clear skies. If it is cloudy, drop in for a slide show and a tour featuring both of our telescopes.

Time & location: 7:30 – 9:30 PM

[View Map](#)

Life Sciences Building, 6 Thompson Road, Toronto, ON

For more information: <http://observatory.info.yorku.ca/join-us-wednesday/>

There are also free programs at the **Toronto Public Library**.



- Science & Technology programs: <http://www.torontopubliclibrary.ca/programs-and-classes/categories/science-technology.jsp>
- Health & Wellness programs: <http://www.torontopubliclibrary.ca/programs-and-classes/categories/health-wellness.jsp>

Or have a look at the **What's On** program guide, available in branches.



Also, connect with us online and get the latest library news, event listings and librarian expertise at the **North York Central Library blog**: <http://torontopubliclibrary.typepad.com/north-york-central-blog/>

