

# Free Science\* Events

## November 2016

\*and applied-science



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

### Tuesday, November 1

#### **Liquid Cinema 360 VR. TorontoVR.**

Come and listen to Thomas Wallner speak about his new product Liquid Cinema, a revolutionary software product that allows the creation and distribution of highly sophisticated immersive 360 virtual reality based cinema experiences.

Time & location: 7 PM  
Globacore Headquarters, 90 Fraser Ave.

Registration required: <http://www.meetup.com/TorontoVR/events/234151877/>

#### **Object Calisthenics in PHP. GTA PHP User Group.**

Speaker: Guilherme Blanco. Object Calisthenics are exercises that can be practiced with the object to reach better code quality. This talk introduces the golden rules and how they can increase their code quality to its excellence, leading to readable, testable and maintainable code.

Time & location: 7 – 9 PM  
Demac Media (HQ), Suite 600, 211 Yonge St.

Registration required: <http://www.meetup.com/GTA-PHP-User-Group-Toronto/events/235099765/>

#### **Patterns in Numbers and Nature. 2016 Fields Medal Symposium. University of Toronto. The Fields Institute for Research in Mathematics Sciences.**

Speaker: Manjul Bhargava, Princeton University.

Time & location: 7 – 9 PM  
Isabel Bader Theatre, 93 Charles St. West

Registration required: <https://www.eventbrite.ca/e/public-opening-lecture-of-the-fields-medal-symposium-tickets-26445504215>

For more information: [http://www.fields.utoronto.ca/sites/default/files/2016%20Public%20Opening\\_2.pdf](http://www.fields.utoronto.ca/sites/default/files/2016%20Public%20Opening_2.pdf)

### Wednesday, November 2

#### **A Pain in the Neck: The Role of the Humanities Scholar in the Time of Environmental Crisis. University of Toronto. School of the Environment.**

Speaker: Andrea Most, University of Toronto. "A Pain in the Neck" is a research project in the environmental humanities about the link between stories we tell about our bodies and those we tell about the Earth. At the core of the project is an inquiry about individual life stories that expands into an existential question about our species.

Time & location: 4:10 – 5:30 PM  
Earth Sciences Building, Basement, Room 149, 5 Bancroft Ave.

For more information: <http://www.environment.utoronto.ca/SeminarSeries/EnvironmentSeminarSeries/A%20Pain.aspx>

#### **Forecasting Ontario's Weather. Royal Astronomical Society of Canada – Toronto Centre.**

Speaker: Geoff Coulson, Environment Canada. The speaker will discuss the various technologies available to the forecasters of the Ontario Storm Prediction Centre and the challenges that forecasting different types of weather can pose. The internet has made a lot of weather information freely available. He will touch on some useful websites/apps that can allow amateur meteorologist stay one step ahead of the weather.

Time & location: 7:30 – 9:30 PM  
Ontario Science Centre, 770 Don Mills Rd.

For more information: <http://rascto.ca/content/speakers-night-16>

### Thursday, November 3

#### **Pickling Workshop. Bernard Betel Centre.**

Learn how to pickle vegetables. This will be a hands-on demonstration.

Time & location: 1:30 – 2:30 PM  
Bernard Betel Centre, Synagogue, 1003 Steeles Ave. West

Registration required: Call (416) 225-2112 ext. 130

For more information: <http://www.betelcentre.org/event/pickling-workshop>

***A Decade After “The Day After Tomorrow”: Our Current Understanding of The Ocean’s Role in Climate.* 2016 J. Tuzo Wilson Lecture. University of Toronto. Dept. of Physics.**

Speaker: Dr. Susan Lozier, Duke University. In this talk, the speaker will discuss our current understanding of the ocean’s overturning circulation, its role in our global climate and what we currently do and do not understand about the mechanisms controlling its temporal change.

Time & location: 8 PM  
Isabel Bader Theatre, 93 Charles St. West

For more information: <http://www.physics.utoronto.ca/news-and-events/special-events/lectures/tuzo-wilson/wilson-lecture-2016>

***Nature, Destroyer of Worlds.* University of Toronto AstroTours.**

Speaker: Alysa Obertas, University of Toronto. Throughout its 4.5 billion year history, life on Earth has been threatened by cataclysmic events such as extreme volcanic eruptions and asteroid impacts which have caused mass extinction of species. While events like these can dramatically alter the face of the Earth, the planet still remains. In this talk, the speaker will discuss some of the incredible ways that nature can destroy planets. Enjoy a planetarium show after the lecture (registration required).

Time & location: 8 PM  
McLennan Physical Laboratories, Room MP203, 60 St. George St.

Registration for planetarium show: <https://www.eventbrite.ca/e/november-3rd-2016-uoft-astrotour-planetarium-shows-tickets-28596800801>

For more information: [http://www.astro.utoronto.ca/astrotours/?page\\_id=392](http://www.astro.utoronto.ca/astrotours/?page_id=392)

## Friday, November 4

***Chornobyl 30 Years After: Energy, Environment, Policy.* University of Toronto. Munk School of Global Affairs.**

Speakers: David Marples, University of Alberta, Tim Mousseau, University of South Carolina & Alexander Belyakov, Certified Sustainability Professional. The explosion at the Chornobyl Nuclear Power Plant on April 26, 1986 continues to have serious economic, social and biological consequences for the inhabitants of the affected territories and beyond. To commemorate the 30<sup>th</sup> anniversary of the disaster, scholars will discuss issues such as the future nuclear energy in Ukraine, the impact of radiation on wildlife in Chornobyl’s exclusion zone and the management of displaced people.

Time & location: 2:30 – 5:30 PM  
Munk School of Global Affairs, North House, Room 108N, 1 Devonshire Pl.

Registration required: <http://munkschool.utoronto.ca/event/19865/register/>

For more information: <http://munkschool.utoronto.ca/event/19865/>

***Astronomy on Tap T.O.* University of Toronto. Dunlap Institute for Astronomy and Astrophysics.**

For ages 19+. An evening of pints, astronomy news, mind-expanding talks from University of Toronto astronomers and special guest speakers from the OSIRIS-REx asteroid and ExoMars missions.

Time & location: 7:30 PM  
The Great Hall, 1087 Queen St. West

For more information: <http://www.dunlap.utoronto.ca/events/astronomy-on-tap-t-o-5/>

## Saturday, November 5

***Pruning Workshop.* Etobicoke Master Gardeners.**

Learn about the importance of pruning, proper pruning techniques, get tips on what to prune when, talk about some of the common tools used for pruning and find out how to care for them. Bring your favourite secateurs (pruner), if you want to practice a cut or two.

Time & location: 10 – 11:30 AM  
Humber Arboretum, Centre for Urban Ecology, 205 Humber College Blvd.

Registration required: [http://www.humberarboretum.on.ca/event-reg.php?event=EMG\\_Pruning\\_Workshop](http://www.humberarboretum.on.ca/event-reg.php?event=EMG_Pruning_Workshop)

For more information: <http://www.humberarboretum.on.ca/events.php#pruning>

## Sunday, November 6

***Geological Wonders and Origins.* Sunday Walking Tours. High Park Nature.**

Frank Remiz, writer, researcher and student of geology, unearths the secrets of the park’s topography and geological history. Walks may go on wooded trails, so please wear appropriate clothing and footwear.

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

For more information: <http://www.highparknature.org/wiki/wiki.php?n=Explore.WalkingTours>

***EcoFair at the Barns.***

A family oriented event that informs and inspires people to make greener choices in their homes and communities. Learn about green initiatives and achievements in our neighbourhoods and city, explore

new ideas and share green tips and tricks. There will be exhibitors, hands-on activities, an opportunity to test drive an electric car and much more.

Time & location: 11 AM – 4 PM  
Artscape Wychwood Barns, 601 Christie St.

For more information: <https://ecofairtoronto.org/>

**Password Security: Recent Threats, Defenses and Research. Royal Canadian Institute for the Advancement of Science.**

Speaker: Dr. Julie Thorpe, University of Ontario Institute of Technology. This talk will raise awareness of the threats to passwords, strategies you can use to help protect yourself and the research at UOIT to improve password security and usability.

Time & location: 2 – 3:30 PM  
Medical Sciences Building, Macleod Auditorium, 1 King's College Circle

Registration required: <https://www.eventbrite.ca/e/password-security-recent-threats-defenses-and-research-tickets-28349762904>

For more information: <http://rciscience.ca/fall-2016-rciscience-talks/>

**Toronto's Urban Bird Programs. Toronto Field Naturalists.**

Emily Rondel will describe Bird Studies Canada's programs and how citizens can participate in bird counts and surveys.

Time & location: 2:30 PM  
Emmanuel College, Room 001, 75 Queens Park

For more information: <http://www.torontofieldnaturalists.org/v-lectures.htm>

## Tuesday, November 8

**Estimating Sources and Sinks of Carbon Using Atmospheric Observations: The Role of CO2 Predictability. University of Toronto. The Centre for Global Change Science.**

Speaker: Saroja Polavarapu, Environment Canada.

Time & location: 4:10 PM  
Bahen Centre for Information Technology, Room BA1210, 40 St. George St.

For more information: [http://www.cgcs.utoronto.ca/Series/Distinguished\\_Lecturer\\_Series\\_2016-2017\\_.htm](http://www.cgcs.utoronto.ca/Series/Distinguished_Lecturer_Series_2016-2017_.htm)

## Wednesday, November 9

**Communicating Climate Sciences and Engaging the General Public in the Process – The Climanosco Initiative. University of Toronto. School of the Environment.**

Speaker: Michel Bourqui, President and Founder of Climanosco, Zurich.

Time & location: 4:10 – 5:30 PM  
Earth Sciences Building, Basement, Room 149, 5 Bancroft Ave.

For more information: <http://www.environment.utoronto.ca/SeminarSeries/EnvironmentSeminarSeries/Communicating.aspx>

## Thursday, November 10

**Across the Lifespan: Emerging Mechanisms and Targets to Treat Mental Illness. 2016 Campbell Family Mental Health Research Symposium. Centre for Addiction and Mental Health.**

Featuring internationally renowned speakers presenting advances in the neuroscience of mental illness and addictions.

Time & location: 9 – 4 PM  
Munk School of Global Affairs, 1 Devonshire Pl.

Registration required: <https://www.eventbrite.ca/e/2016-camh-campbell-family-mental-health-research-symposium-registration-26039791718?aff=ehomecard#tickets>

For more information: [http://www.camh.ca/en/research/news\\_and\\_publications/events/Pages/campbell-symposium.aspx](http://www.camh.ca/en/research/news_and_publications/events/Pages/campbell-symposium.aspx)

**Social Networks and the Elderly: An Overview of Their Value and Techniques to Engage Them. University of Toronto. The Institute for Life Course and Aging.**

Speaker: Alexandra Peckham, University of Toronto. Please feel free to bring your lunch with you.

Time & location: 12:30 – 1:30 PM  
The Institute for Life Course and Aging, 4<sup>th</sup> Floor Classroom, 263 McCaul St.

Registration required: Email [aging@utoronto.ca](mailto:aging@utoronto.ca)

For more information: [http://www.grandparentfamily.com/wp-content/uploads/2013/01/2016-17\\_Institute\\_Seminar\\_Brochure.pdf](http://www.grandparentfamily.com/wp-content/uploads/2013/01/2016-17_Institute_Seminar_Brochure.pdf)

**Strategies to Live Better and Longer. Bernard Betel Centre.**

Join a wellness specialist to learn more about our bodies and how to live well.

Time & location: 1:30 – 2:30 PM  
Bernard Betel Centre, Synagogue, 1003 Steeles Ave. West

For more information: <http://www.betelcentre.org/event/strategies-live-better-and-longer>

## **Introduction to Python for Data Science. Big Data University.**

Learn about Python from a beginner level, including basic syntax, creating custom functions, sequences and reading in data.

Time & location: 6:30 – 8:30 PM  
Lighthouse Labs, 46 Spadina Ave.

Registration required: [https://bigdatauniversity.com/blog/event/introduction-python-data-science/?instance\\_id=195](https://bigdatauniversity.com/blog/event/introduction-python-data-science/?instance_id=195)

## **Saturday, November 12**

### ***Bird Walk. Citizens Concerned About the Future of the Etobicoke Waterfront.***

Leader: Don Burton.

Time & location: 9 – 11 AM  
Humber Bay Park.  
Meet in the main parking lot (map: <https://goo.gl/Th4vqi>)

For more information: [http://www.ccfew.org/html/bird\\_walks.html](http://www.ccfew.org/html/bird_walks.html)

## **Sunday, November 13**

### ***Migration, Hibernation & Adaptation. Downsview Park Nature Connection.***

Explore how animals, insects and plants survive as the days grow shorter and colder.

Time & location: 2 – 4 PM  
Downsview Park, Discovery Centre, 70 Canuck Ave.

Registration required: <https://www.eventbrite.ca/e/downsview-park-nature-connection-migration-hibernation-adaptation-tickets-28612350310>

## **Tuesday, November 15**

### ***Ambivalence, Psychiatric Care and Public History at the Lakeshore Grounds Interpretive Centre. York University. Science and Technology Studies.***

Speaker: Ben Mitchell, York University. In 1979, the Lakeshore Psychiatric Hospital in South Etobicoke closed its doors after almost a hundred years of operation. The rationale given for the closure was that it would open up funds for more humane community centred care. However, the Lakeshore Hospital was already considered to be an effective example of just this sort of care, and the promised funds that officials said were going to be returned to the community were never forthcoming. In the early 2000s, community groups pushed for the establishment of an interpretive centre that would not only preserve and promote the history of the hospital grounds, but would use its history to advocate for issues relevant to mental health, indigenous communities, the environment, as well as education. Light lunch will be provided.

Time & location: 12:30 – 2 PM  
York University, Norman Bethune College, Room 203, 170 Campus Walk

For more information: <http://www.yorku.ca/sts/undergraduate/seminars.html#Ben>

## **Wednesday, November 16**

### ***Social and Biological Mechanisms Underlying the Relationship Between Dietary Patterns and Incident 2 Diabetes: A Comparative Study. University of Toronto. Munk School of Global Affairs.***

Speaker: Christopher Tait, University of Toronto. Type 2 diabetes is a major health issue in Canada, with a prevalence that continues to grow despite billions invested towards treatment and prevention. About 90% of new cases are due to a small number of lifestyle factors including poor diet and inadequate physical activity. The study involves identifying the extent to which various mediating pathways explain the association between dietary patterns and type 2 diabetes risk.

Time & location: 10 AM – 12 PM  
Munk School of Global Affairs, North House, Room 108N, 1 Devonshire Pl.

Registration required: <http://munkschool.utoronto.ca/event/20286/register/>

For more information: <http://munkschool.utoronto.ca/event/20286/>

### ***ExploreTech Toronto Meetup.***

There will be two talks at this meetup. Jumana Bahrainwala will be speaking on “Search: How Do You Think About Building Large Scale Search for a Website?” The speaker will talk about building a search engine for large datasets and why this matters.

Samuel Bamgboye will presenting on “Test Drive Development”. Learning how to correctly apply TDD is one of the most effective ways of delivering better quality software applications.

Time & location: 6:30 PM  
Shopify, 4<sup>th</sup> Floor, 80 Spadina Ave.

Registration required: <http://www.meetup.com/ExploreTech-Toronto/events/234759615/>

## **Thursday, November 17**

### ***Tips and Exercises for Arthritis. Bernard Betel Centre.***

Join neck and back specialists to learn more about how to deal with the pain of arthritis.

Time & location: 1:30 – 2:30 PM  
Bernard Betel Centre, Synagogue, 1003 Steeles Ave. West

For more information: <http://www.betelcentre.org/event/tips-and-exercises-arthritis>



## Tuesday, November 22

### **Sea-Level Rise: Antarctica's Ways of Losing Ice. University of Toronto. The Centre for Global Change Science.**

Speaker: Anders Levermann, Potsdam Institute.

Time & location: 4:10 PM

Bahen Centre for Information Technology, Room BA1210, 40 St. George St.

For more information: [http://www.cgcs.utoronto.ca/Series/Distinguished\\_Lecturer\\_Series\\_2016-2017\\_.htm](http://www.cgcs.utoronto.ca/Series/Distinguished_Lecturer_Series_2016-2017_.htm)

## Wednesday, November 23

### **Genome Engineering and Its Applications Including Legal and Ethical Issues. York University. York Centre for Public Policy and Law.**

Speaker: Dr. Ronald E. Pearlman, York University. Recent advances in molecular biology focused on genome science leading to the ability to precisely manipulate and edit genomes, has been a spectacular advance in the life sciences and is a revolution in biomedical science with profound applications and implications in areas of science including medicine, biotechnology, plant and animal science. The speaker will discuss the scientific foundation of the technology and introduce some of its applications, as well as discuss legal and ethical implications for the use of the technology.

Time & location: 12 – 1:30 PM

York University, Osgoode Hall Law School, Room 1005, The Moot Court, 4700 Keele St.

Registration required: Email [janstedman@osgoode.yorku.ca](mailto:janstedman@osgoode.yorku.ca)

For more information: <http://ycppl.info.yorku.ca/2016/09/upcoming-event-genome-engineering-and-its-applications-including-legal-and-ethical-issues/>

### **What Fate for Swidden Agriculture under Land Constraint in Tropical Forests? Lessons from a Long-Term Study in an Amazonian Peasant Community. University of Toronto. School of the Environment.**

Speaker: Oliver T. Coomes, McGill University.

Time & location: 4:10 – 5:30 PM

Earth Sciences Building, Basement, Room 149, 5 Bancroft Ave.

For more information: <http://www.environment.utoronto.ca/SeminarSeries/EnvironmentSeminarSeries/What.aspx>

## Thursday, November 24

### **Allergies and Food Sensitivities. Bernard Betel Centre.**

Join a naturopathic doctor to learn about allergies and food sensitivities and how to deal with them.

Time & location: 1:30 – 2:30 PM

Bernard Betel Centre, Synagogue, 1003 Steeles Ave. West

For more information: <http://www.betelcentre.org/event/allergies-and-food-sensitivities-0>

## Saturday, November 26

### **Jim Baillie Memorial Bird Walk. Toronto Ornithological Club.**

Leader: Garth Riley. See waterfowl and learn about winter birding at this walk. Outings will take place rain or shine. May involve walking on unpaved trails that may be muddy, steep, overgrown and/or uneven. Please wear sturdy footwear and clothing, sunscreen and insect repellent appropriate to the weather/season. Bring a snack/lunch and something to drink. Please do not bring pets.

Time & location: 9 AM – 12 PM

Humber Bay Park.

Meet in the parking lot (Park Lawn Rd., south of Lakeshore Blvd. West)

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

## Sunday, November 27

### **Travelling to an Asteroid. Royal Canadian Institute for the Advancement of Science.**

Speaker: Dr. Michael Daly, York University. The OSIRIS REx spacecraft has an ambitious mission – to travel to an asteroid, land, grab some samples and return. The speaker will give an overview of what it hopes to achieve, as well as the Canadian angle.

Time & location: 2 – 3:30 PM

Medical Sciences Building, Macleod Auditorium, 1 King's College Circle

Registration required: <https://www.eventbrite.ca/e/travelling-to-an-asteroid-tickets-28540660885>

For more information: <http://rciscience.ca/fall-2016-rciscience-talks/>

### **Tree I.D. Downsview Park Nature Connection.**

Whether we realize it or not, trees are a constant presence in our everyday life. Upon close inspection, trees can reveal some of the most incredible shapes and patterns found in nature. During this program, play some forest games and learn how to identify trees in late fall and winter.

Time & location: 2 – 4 PM

Downsview Park, Discovery Centre, 70 Canuck Ave.

Registration required: <https://www.eventbrite.ca/e/downsview-park-nature-connection-tree-id-tickets-28611862852>

## Tuesday, November 29

### ***Annals of Digital Archaeology.* York University. Science and Technology Studies.**

Speaker: Zbigniew Stachniak, York University. In 1973, a Toronto-based electronics company Micro Computer Machines (MCM) announced the world's first microprocessor-powered personal computer – the MCM/70. In this talk, the speaker will discuss the MCM software recovery project at York University Computer Museum and focus on the impact of the recovered information on our understanding of the process by which personal computing paradigm was being shaped in the 1970s.

Time & location: 12:30 – 2 PM

York University, Norman Bethune College, Room 203, 170 Campus Walk

For more information: <http://www.yorku.ca/sts/undergraduate/seminars.html#Zbigniew>

### ***The (In)Fertile Valley: Alternative Medicine, Biotechnology and Life in Silicon Valley.* University of Toronto. Munk School of Global Affairs.**

Speaker: Navreet Nahal, University of Toronto. This talk will explore the ways in which biomedical knowledge surrounding reproduction is translated, mediated and contested in the context of alternative fertility clinics. The logics of healing and care that are mobilized by Traditional Chinese Medicine (TCM) healthcare practitioners and patients, as they attempt to negotiated between two systems of knowledge – Western biomedicine and TCM – to diagnoses and treat infertility will be examined.

Time & location: 4 – 5:30 PM

Munk School of Global Affairs, North House, Room 208N, 1 Devonshire Pl.

Registration required: <http://munkschool.utoronto.ca/event/21034/register/>

For more information: <http://munkschool.utoronto.ca/event/21034/>

## Wednesday, November 30

### ***Mine Waste (Mis)Management, Colonial Imaginaries and the Future of Non-Renewable Resource Extraction in British Columbia.* University of Toronto. Munk School of Global Affairs.**

Speaker: Neil Nunn, University of Toronto. Despite four major mine waste spills across Canada in just over a decade, there is little indication from public or private sectors that meaningful steps are being taken to mitigate the risk for future spills. The speaker will examine recent spills in the Central Interior British Columbia to better understand how for-profit mineral resource extraction is interwoven with concerns for health, human rights, environment justice and cultural preservation.

Time & location: 10 AM – 12 PM

Munk School of Global Affairs, North House, Room 108N, 1 Devonshire Pl.

Registration required: <http://munkschool.utoronto.ca/event/20287/register/>

For more information: <http://munkschool.utoronto.ca/event/20287/>

### ***OCD & Anxiety: Can I Reduce My Risk?* Sunnybrook Health Sciences Centre.**

An evening discussion on obsessive-compulsive disorder (OCD) and anxiety. Leading Sunnybrook experts will discuss the basics of OCD and anxiety, using genetics to understand risk and guide treatment, cognitive behavioural therapy treatment strategies and developing an integrated model of risk for mood and anxiety disorders. Free parking in Garage One.

Time & location: 6:30 – 8:30 PM

Sunnybrook Health Sciences Centre, Bayview Campus, E-Wing, Ground Floor, McLaughlin Auditorium, 2075 Bayview Ave.

Registration required: Call (416) 480-4117, email [speaker.series@sunnybrook.ca](mailto:speaker.series@sunnybrook.ca) or visit

<http://sunnybrook.ca/calendar/event.asp?e=1062&m=&page=33990>

For more information: <http://sunnybrook.ca/calendar/event.asp?e=1062&m=&page=33990>

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/>

