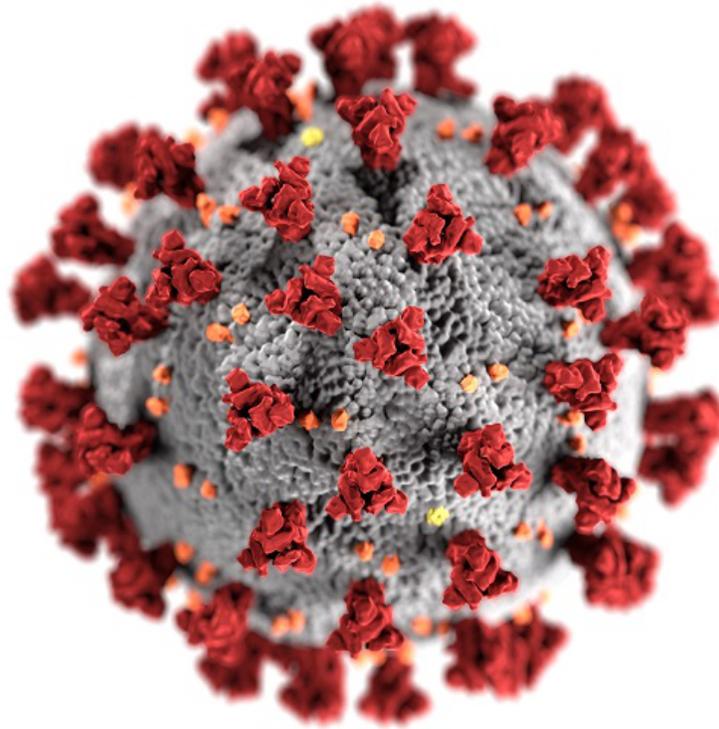


THE HAMILTON ASSOCIATION  
FOR THE ADVANCEMENT OF LITERATURE, SCIENCE AND ART  
Since 1857



Ultrastructural morphology of a coronavirus, viewed electron microscopically  
Courtesy CDC (USA) / Alissa Eckert MSMI, Dan Higgins MAMS

Free Public Lectures  
2020 – 2021

Website: [www.haalsa.org](http://www.haalsa.org)  
Facebook: Hamilton Association ~ Twitter: @HamLitSciArt  
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This season's talks are presented online via ZOOM.

For more information go to our FAQs page at: <http://haalsa.org/faqs-zoom.htm>

**Saturday, 12 Sep. 2020 at 7:30 pm**

## **Amazing Monarchs**

*by Karin Davidson-Taylor*

Monarch butterflies are instantly recognizable and inspire awe both for their beauty and for the challenges faced by the species in its life cycle and daunting migratory journeys. Our speaker looks at monarchs' particular needs, what we can do to attract and sustain them in our gardens and outdoor spaces, and how we can help scientists learn more about the multiple generations of these amazing insects. In addition, Karin plans to demonstrate how to tag a live butterfly.

Karin joined the Royal Botanical Gardens (RBG) in 2006 with 17 years' prior experience teaching both adults and children. Apart from delivering onsite programs, Karin develops and delivers interactive distance education programs across North America and globally, promoting awareness of our connection to plants and the importance of biodiversity. She has been responsible for establishing the RBG as a Canadian leader in the world of interactive videoconference-based, virtual field trips.

**Saturday, 3 Oct. 2020 at 7:30 pm**

## **'Photovoice' Strengthening Reconciliation with Indigenous Peoples through Participatory Photography**

*by Chelsea Gabel*

They say a picture is worth a thousand words. When the subject is Indigenous health and well-being, it is no surprise words can fall short when trying to explain Indigenous lived experience.

Photovoice is a research method which aims to empower participants through the use of photography and explore possibilities for change that art and images can evoke.

In this lecture we learn about Photovoice's potential for better understanding and representing Indigenous voices and community needs. The speaker moves beyond symbolic acts of reconciliation to explore innovative ways of redressing the historic treatment of Indigenous peoples. A recent Photovoice project on Indigenous elder-youth relationships will illustrate the power of this method to elicit stories among participants, draw attention to community strengths and challenges, and promote social advocacy.

Dr. Gabel holds a Canada Research Chair in Indigenous Well-Being, Community Engagement and Innovation and is an Associate Professor in the Department of Health, Aging and Society and the Indigenous Studies Program at McMaster University.

**Saturday, 7 Nov. 2020 at 7:30 pm**

## **The Mystery, Beauty, and Science of Light**

*by Kalaichelvi Saravanamuttu*

Light colours our world, inspires exquisite art and poetry, fuels plants and thereby life, powers technologies, and continues to astonish and delight scientists with its fundamental properties and extraordinary behaviour. This talk will explore some of these facets of light, highlighting how they allow us to elucidate scientific mysteries and devise unprecedented technologies.

Kalai Saravanamuttu is an Associate Professor in the Department of Chemistry and Chemical Biology, and an Associate Member of the Department of Engineering Physics at McMaster University. She leads a research group that searches for unusual behaviours of light and applies these findings to design new technologies, which are often inspired by nature.

**Saturday, 5 Dec. 2020 at 7:30 pm**

**Prisoners of Gravity**

*by Laurence Harris*

Gravity is always present. We have evolved in the constant presence of the Earth's gravitational pull. We may not realize it, but gravity is an essential influence on our behaviour and our perceptions. For example, our brains use gravity to keep us stable, guiding us as we move around, and as a reference to help judge distance. Less obviously, gravity helps us establish ownership of our own bodies.

So what happens in conditions when gravity disappears? Dr. Harris will share some fascinating experiments in unusual environments, such as deep underwater or aboard the International Space Station, and the far-reaching effects those results might have for us here on earth.

Dr. Harris is Professor of Psychology, York Research Chair in Multisensory Integration, and Director of the Centre for Vision Research at York University in Toronto.

**Our January to April, 2021, lectures will be listed in this document and on our website as soon as possible.**

**Visit our Lectures page later for an updated version of this brochure.**

<http://haalsa.org/lectures.htm>

**Executive Council, 2020 – 2021**

President	Bernadette Ryan
Past President	Vivian Lewis
Vice President	(to be appointed)
Secretary	Aurelia Shaw
Treasurer, Webmaster	David Keane
Music Award	Peter Banting
Science Fair	Anthony Petric
Social Media	Barbara Ferguson
Councillor	Karen Anderson
Councillor	Kathryn Ball
Councillor	Dawn Petsche-Wark
Councillor	Kenneth Rosenthal

*Founded as The Hamilton Scientific Association, the Hamilton Association is one of Canada's oldest non-profit cultural organizations. It has enhanced community knowledge with free public lectures since 1857.*

*The Hamilton Public Library, Royal Botanical Gardens, Hamilton Camera Club, Art Gallery of Hamilton, and McMaster University all began as sections of, or drew early support from, the Association.*

*McMaster University has very kindly granted the Association standing as an Accredited Outside Organization.*

## Our Awards Program

### Maitland Banting Silver Quill Award

- an award of up to \$250 for short fiction by teenage entrants in the Power of the Pen competition showing an excellent use of language. Details and entry forms are provided by HPL at <https://teens.hpl.ca/power-pen>

### Young Poet Award

- an award of up to \$250 for poetry by teenage entrants in the Hamilton Public Library's Power of the Pen competition showing an excellent use of language. Details and entry forms are provided by HPL at: <https://teens.hpl.ca/power-pen>

### Young Musician Award

- an award of up to \$250 for excellence in performance, with emphasis on musicianship and interpretation. Administered by the Dundas Valley Orchestra. Includes an opportunity to perform at a DVO concert. For information go to: <http://dundasvalleyorchestra.ca>

### da Vinci Science Fair Award

- an award of up to \$250 for students in the Bay Area Science and Engineering Fair. For information on BASEF go to: <https://www.basef.ca>
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Donations for membership and other purposes are always welcome.

Receipts for tax purposes are provided.

If a lecture is cancelled a notice will be posted on our website and distributed via our e-contacts list as soon as possible.

### Inquiries

905-527-0080

or

[secretary@haalsa.org](mailto:secretary@haalsa.org)