



# Pacific Institute *for the* Mathematical Sciences

PIMS MONTHLY CONNECTION | August 2019



## Hello from PIMS

We have been busy running two of our signature summer school programs. The Diversity in Math (photo above) and the Emerging Indigenous Scholars Summer Schools are both currently underway and building on the successes of previous years.

### IMPORTANT NOTICES:

1. **International Workshop Nonassociative Algebras and Geometry, Memorial University, NL, Aug 12-16.** [Learn more.](#)
2. **2019 Workshop on Variational Analysis and Optimization at UBC Okanagan, Aug 12-13.** [Register now.](#)
3. **Algebraic Geometry Seminar: Uriya First, Aug 15, UBC.** [Register now.](#)
4. **Conference on Modern Aspects of Complex Analysis and Its Applications, University of Washington, Aug 19-23.** [Register now](#) (funding available).

There are a number of fantastic events coming towards the end of this summer so please take a look at our events [calendar](#).

Sincerely,  
The PIMS Team

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## FEATURE EVENTS



[2019 Workshop on Variational Analysis and Optimization](#)

optimization. Variational analysis and optimization are central areas of science and engineering and at the heart of recent progress on machine learning and other areas. This workshop will bring together a mix of local and international, junior and senior researchers of diverse backgrounds. Optimization is one of the disciplines in the multi-disciplinary area of machine learning which also draws researchers from statistics and computer science.



**Modern Aspects of Complex Analysis and Its Applications**

**August 19-23, 2019, The University of Washington, Seattle.**

The conference is in honour of John Garnett's retirement and Don Marshall's 70th birthday and aims to foster greater interaction between the various flavours of "complex analysis," which will enhance the development of the entire field. This conference also intends to facilitate the interaction between experts and early-career mathematicians in this field



**Algebraic Geometry Seminar: Uriya First**

**Thursday, August 15 at the University of British Columbia**

Seminar topic: Involutions of the third kind

**Click below for all events | August 2019**

Scientific

Educational

Industrial

**NEWS & ANNOUNCEMENTS**



**CMS regional math camp (Alberta)**

**Jun 30-July 6, 2019, at the University of Calgary**

We welcomed 30 students from across Alberta in grades 7 - 10 for a week of math puzzles, games and (even) learning. The organizers would like to thank their industrial partner, Rublix Inc., for their gift of one Raspberry Pi computer to each student who attended the camp.

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## [PIMS-FIELDS Summer School on Algebraic Geometry in High-Energy Physics](#)

**Jun 24-28, 2019, at the University of Saskatchewan**

Participants hailed from at least 6 countries for this summer school that featured 4 mini-courses on themes concerned new trends in algebraic geometry inspired by string theory and mirror symmetry, as well as powerful tools from algebra and geometry that can be applied to theoretical high-energy physics



## [PIMS CRG Summer School: Deep Learning for Computational Mathematics](#)

**Jul 22-25, 2019, at Simon Fraser University**

The purpose of this summer school was to introduce students in applied and computational mathematics to neural networks and deep learning. It featured three days of lectures and hands-on tutorials, followed by a one-day workshop showcasing current research directions and applications, in particular, those relating to computational science and engineering.



### Scientific Grand Challenges and New Perspectives in Applied Mathematics: Ocean, Atmosphere and Climate Sciences

Jul 24-26, 2019, at the University of Victoria

This successful conference was in honour of Professor Andrew J. Majda's 70th birthday. Among a host of speakers there was also public lecture given by Gerta Keller on dinosaurs and the theories of mass extinction. Many thanks to the local organizers of the conference.

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Alex from the PIMS Emerging Indigenous Scholars Summer Camp getting hands-on time in the [UBC Institute for the Oceans and Fisheries](#) lab. He's dissecting salmon to help analyze how they're responding to change ...500 more

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### PIMS Adds Alumni Feature to LinkedIn Page

**Make connections and build your network.**

Adding the Pacific Institute for the Mathematical Sciences to the 'Education' section of your LinkedIn page will become part of the PIMS Alumni.

This will allow you and other like-minded people to connect with each other.

## MEDIA



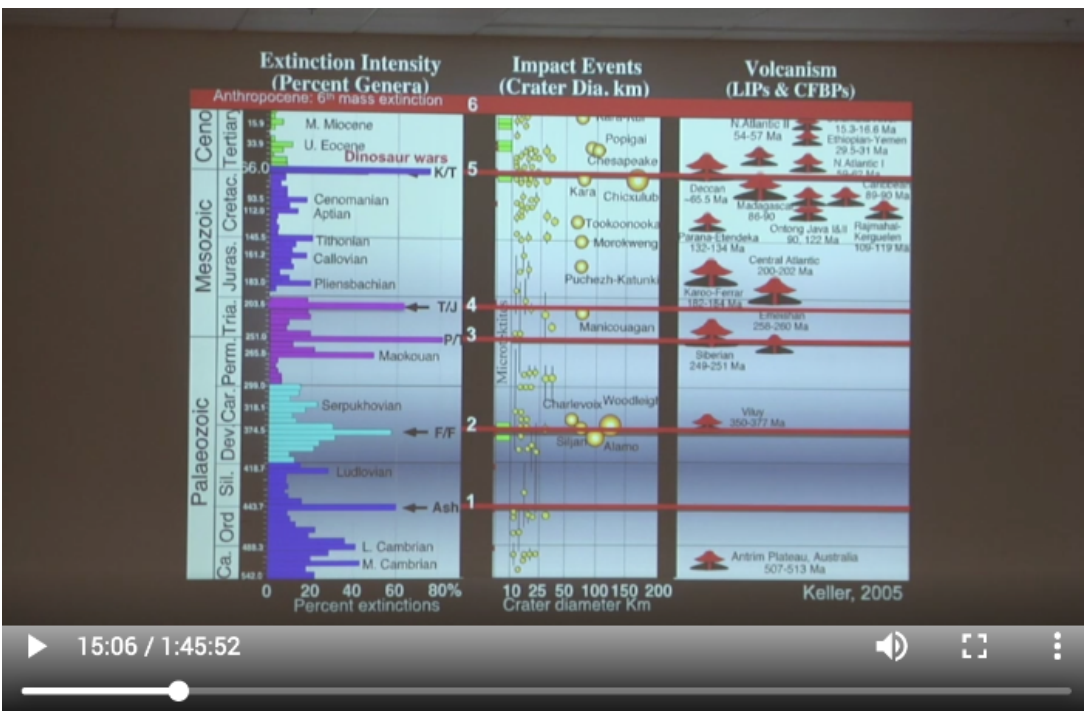
### Alejandro Aden: The Making of the Next NSERC President

Former PIMS director and the new president of the Natural Sciences and Engineering Research Council of Canada (NSERC) sat down with PIMS to discuss his life, work, and



**[Dr. Levin: Public Goods, from Biofilms to Societies](#)**

The subject of mathematical ecology is one of the oldest and most exciting in mathematical biology, and has helped in the management of natural systems and infectious diseases.



**[DINOSAUR WARS: Extinction by Asteroid or Volcanism?](#)**

This lecture highlights the four decades of the dinosaur wars, the increasing acceptance of volcanism’s catastrophic effects and likely cause of the mass extinction and the resulting ad hoc revisions to accommodate the impact theory.

The talk ends with the ongoing 6th mass extinction initiated by rapid fuel burning that is causing the most rapid climate warming in Earth’s history and ocean acidification, which is predicted to reach the 6th mass extinction in as little as 50-75 years and maximum of 250 years.

For more lectures and PIMS resources, please visit [mathtube.org](http://mathtube.org)

## PIMS COMMUNITY RECENT PUBLICATIONS

1. Choe. J., Fraser. A., “[Mean curvature in manifolds with Ricci curvature bounded from below](#)” Commentarii Mathematici Helvetici 93 (2018), no. 1, 55-69.
2. Chen. J, Yuan. Y., “[Hamiltonian stationary cones with isotropic links](#)” Math. Ann. 370 (2018), no. 1-2, 191-208.
3. Li. D.S., Xu. Y.F., Yuan. Y., “[A pointwise approach to rigidity of almost graphical self-shrinking solutions of mean curvature flows](#)” Proc. Amer. Math. Soc. 146 (2018) 3057{3061
4. Arnaud Tsopmene. P., and Stanley. D., “[Classification of homogeneous functors in manifold calculus](#)” Geometry and Topology (2018): 1-43

**The Pacific Institute for the Mathematical Sciences (PIMS)** was created in 1996 to promote **discovery, understanding and awareness** in the mathematical sciences. PIMS has expanded from the mathematics community of **Alberta** and **British Columbia** to include **Washington State, Saskatchewan** and **Manitoba**. We are proponents of mathematical **collaboration with industry, innovation in mathematics education** from K-12 to graduate level initiatives, **public outreach** and **partnerships** with similar organizations around the globe. We fund Collaborative Research Groups, Post-Doctoral Fellowships, individual events, and competitive prizes in mathematics.

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