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Pacific Institute for the Mathematical Sciences

PIMS MONTHLY CONNECTION | **May 2024**

Hello from PIMS

May is here and many of our PIMS member universities are preparing for summer activities, workshops, and conferences.

Opportunities Across the Network:

- **Register:** Annual Alberta Mathematics Dialog (AMD) 2024
- **Register**: Math2PowerQuantum: Quantum Computing Summer School
- **Call for New Courses:** 2024/25 PIMS Network-Wide Courses
- **Register:** 18th Canadian Workshop on Information Theory

K- 12 Education Opportunities:

- **May 11th**: Science Rendezvous
- **Register by May 14th**: Changing the Culture 2024
- **Register**: UBC Girls in Data Science Summer Camp

Upcoming Deadlines:

- **May 1st:** Deadline to apply for the 2024 CMS Summer Meeting Mini-Courses: Applied Topology: DNA Topology & Persistent Homology
- **May 10th:** Register for the Special Western Canada Linear Algebra Meeting Honouring Professor Peter Lancaster at 95
- **May 10th:** Register for the SFU Statistical Learning for Large Scale Data Conference
- **May 15th:** Deadline for graduate students and postdoctoral fellows to apply for the 2024 Math to Power Industry Workshop
- **May 30th:** Deadline to apply for the Canadian Undergraduate Math Conference 2024

PIMS NETWORK OPPORTUNITIES

Mathematics Dialog (AMD) 2024

The annual Alberta Mathematics Dialogue (AMD) is the largest annual meeting for professional mathematicians and mathematics educators in Alberta. Over two days, delegates will discuss current research, collaborate on open problems, exchange ideas on post-secondary education and share educational resources. The meeting will provide an opportunity to meet with colleagues from many of Alberta's postsecondary institutions and beyond. Topics of discussion include research, teaching, technology, funding, curriculum, and other ideas of common interest to post-secondary mathematics departments in Alberta and beyond. **Registration is free of charge**. We kindly ask you to register so that we have accurate attendance numbers.

View Conference Details

Register: Math2PowerQuantum: Quantum Computing Summer School

The Math2Power Quantum summer school on quantum computing will be held across 2 days **(May 29th and 30th)** in the lead up to the CMS Summer Meeting and is aimed at helping students in the mathematical sciences learn - through a combination of lectures and hands-on demonstrations - about the emerging fields of quantum computing and quantum information. They will also learn about the emerging field of quantum security, including quantum-safe cryptographic schemes. **Registration is now open for CMS Student members and Non-Student members**.

View Summer School Details

Apply: 2024 CMS Summer Meeting Mini-Courses: Applied Topology: DNA Topology & Persistent Homology

The CMS is organizing two mini-courses **(Applied Topology and Persistent Homology)** to add more value to meetings and make them attractive for students and researchers to attend. The mini-courses will be held on **Friday, May 31st** and will include topics suitable for graduate students, postdocs, and other interested parties. Partial funding may be available for students, postdocs, and early-career researchers to attend the Applied Topology mini-courses. To receive more information and apply for this opportunity, please **apply by May 1st** using this form for full consideration. For registration, please complete the Google form for funding above and then enrol through the CMS website.

View Courses Details

Call for New Courses: 2024/25 PIMS Network-Wide Courses

PIMS would like to hear from instructors willing to share their courses with participants at other PIMS universities. We invite proposals for graduate level courses in the mathematical sciences to take place in either term of the **2024-2025 academic year**. Students in these courses may be eligible for credit under the terms of the Western Deans Agreement (though conditions apply). This program is intended to benefit instructors by reaching a larger audience, and to benefit students by offering a deeper variety of courses. If you are interested in participating as an

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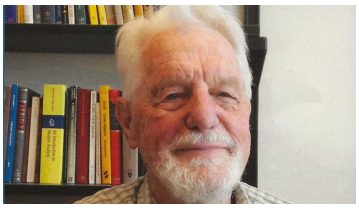


Register: Special Western Canada Linear Algebra Meeting Honouring Professor Peter Lancaster at 95

The Western Canada Linear Algebra meeting (WCLAM), is a regular series of meetings held roughly once every 2 years since 1993. This event will be a special iteration of the Western Canada Linear Algebra Meeting (WCLAM) to honour Peter Lancaster at 95. Professor Lancaster (University of Calgary) initiated the conference series and has been involved as a mentor, an organizer, a speaker and a participant in the lion's share of the fifteen previous WCLAMs. Two broad goals of the WCLAM series are to keep the community abreast of current research in this discipline in our field and to bring together well-established and early-career researchers to talk about their work in a relaxed academic setting. The WCLAM '24 will be held at the University of Calgary on **May 25th - 26th**, and the program will include three featured speakers who will each present a 1-hour plenary lecture. **To register, please email the organizer by May 10th, 2024**.

View Conference Details

Register: SFU Statistical Learning for Large Scale Data Conference

The SFU Statistical Learning for Large Scale Data conference **(June 21st, 2024)** aims to promote the presentation and discussion on the latest progress in statistical learning for large-scale data. It empowers

information available today, leading to better decision-making, improved efficiency, and the potential for groundbreaking discoveries across various domains. Postdocs and Students are encouraged to present their work during the poster session. Travel awards are available for postdocs and students who present their work. The best poster award will also be presented at the end of the conference. Please submit your poster title here. **Early bird registration is now open until May 10th, 2024**. Regular registration will run from May 10th to June 10th.

View Conference Details

Apply: M2PI 2024

PIMS is excited to offer the 2024 Math to Power Industry Workshop **(June 4th - 25th)** for graduate students and postdoctoral fellows. This workshop is geared for highly qualified trainees in the mathematical and statistical sciences, helping them to gain the industry skills needed for success in their careers. During the workshop, you will be placed on a team to solve a problem provided by an industry partner with other graduate students and postdoctoral fellows in the mathematical sciences.

Participants will:

- Build technical skills in programming and computational workflows
- Learn business skills for effective teamwork and technical report writing
- Leverage learned skills to solve industry problems

The goal of the workshop is to improve your job-readiness, especially for careers outside of academia. On June 25th, 2024 participants are invited to join us at the first **PIMS Industry Day** in Calgary. M2PI participants will receive partial travel funding to participate in this event (priority for travel funding will be given to participants from PIMS Universities). Teams will present the outcomes of their work at this event, and you will have the opportunity to build your network and

View M2PI Website

Register: Canadian Undergraduate Math Conference 2024

The Canadian Undergraduate Mathematics Conference (CUMC) is a week-long conference from the **8th to 12th of July**, specifically aimed at undergraduates who are interested in mathematics. This year, it is being hosted at the University of British Columbia. Throughout the week, you will get the chance to watch presentations prepared by other undergraduates on a topic of their interests (whether that be their own research or just on topics not typically covered in an undergraduate curriculum) as well as present your own if you would like. There will also be keynote speakers who are active mathematicians, as well as plenty of social events where you can meet young mathematicians from across the country, including a barbeque social, coffee chats with graduate students, and a banquet. **Early bird registration is open to any undergraduates interested until the end of May 2024**.

View Conference Details

Register: 18th Canadian Workshop on Information Theory

The 2024 Canadian Workshop on Information Theory (CWIT 2024) will take place at the University of British Columbia, Vancouver, BC, from **June 2nd -5th, 2024**. This will be the 18th bi-annual Canadian Workshop on Information Theory. Similar to previous events, the event is designed to provide

abroad, with opportunities to learn from senior lecturers in the field who will present tutorials and keynote lectures; participate in a stimulating and inviting forum of scientists; present their own work, already published or in early stages, for feedback and potential collaboration; and deepen their connections with the community. **Student and non-student registration for the 2024 CWIT is now open**.

View Workshop Details

EDUCATION OPPORTUNITIES

Science Rendezvous 2024

Science Rendezvous is a FREE festival that takes science, technology, engineering, art, and math (STEAM) research and innovation out of the lab and onto the street. This fun and educational event for all ages will be on **May 11th, 2024** from 10 AM to 3 PM PST. See the UBC Science Rendezvous page for activities taking place at UBC.

Please see the Science Rendezvous website for more details about the Science Rendezvous program and the UBC Science Rendezvous site for activities which will be taking place at UBC.

Changing the Culture 2024

The annual Changing the Culture Conference, organized and sponsored by the Pacific Institute for the Mathematical Sciences, brings together mathematicians, mathematics educators and school teachers from all levels to work together towards narrowing the gap between mathematicians and teachers of mathematics, and between those who do

This year's event will take place on **May 17th at SFU-Vancouver at Harbour Centre**. As in past years, registration for this event is free, but we ask you to complete the registration on this page. **Please register by Tuesday, May 14th**.

Register: UBC Girls in Data Science Summer Camp

The Girls in Data Science Camp this summer is an excellent opportunity for students to explore the world of data science and statistics, and apply their knowledge on real data sets with the support of experienced mentors in the field. The camp will be held **July 8th - 10th** on UBC's Vancouver campus from 10 AM - 3 PM PST. Participants should be in grades 8-12 and identify as a girl or other gender minority. You can register using this Google form. **Registration is free** and participants will be provided with lunch each day. Please note that limited spots are available.

View Summer Camp Details

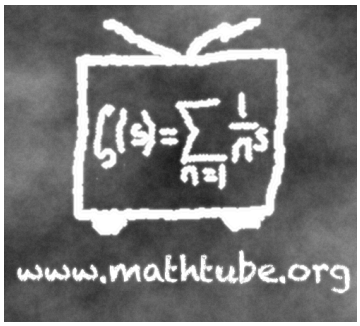
View our calendars for more meetings and events

Scientific Events

Education Events

Industrial Events

Missed a Lecture? Go to Mathtube.Org



Proceedings for the PIMS-ACTS event series that took place this summer are now available for viewing!

Since 1996, PIMS has collected and maintained an archive of videos and lecture notes covering many areas of the mathematical sciences. If you missed any of the PIMS PDF Colloquium Lectures, visit www.mathtube.org to see these and other archives.

Read our feature stories on Medium.

PIMS is happy to share our stories and short interviews with members of the PIMS Community. We are currently featuring our 2022 PDF Cohort as they speak at the PDF Seminar Series. Do you have an interesting profile from the PIMS Community that we should highlight? Let us know!

ABOUT PIMS

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. Our mandate is to promote research in and applications of the mathematical sciences, to facilitate the training of highly qualified personnel, to create an equitable, diverse and inclusive community, to enrich public awareness of and education in the mathematical sciences, and to create mathematical partnerships with similar organizations in other countries in the Pacific Rim. PIMS funds Collaborative Research Groups, Post-Doctoral Fellowships, and individual events on a competitive basis.

We Want to Hear from You

Share your feedback on this month's newsletter and tell us what stories and news you would like to hear more of.

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