



Canadian Mathematical Society
Société mathématique du Canada

RAPPORT ANNUEL 2024 ANNUAL REPORT



cms.math.ca



communications@cms.math.ca

TABLE OF CONTENTS

About the Canadian Mathematical Society.....	3
The President's Report.....	5
Awards & Prizes.....	6
Math Camps.....	12
Meetings.....	14
Committee Reports.....	19
Education Committee	
Endowment Grants Committee	
Equity, Diversity and Inclusiveness Committee	
Finance Committee	
International Affairs Committee	
International Prize Committee	
Invested Funds Committee	
Mathematical Competitions Committees	
Nominating Committee	
Publications Committee	
Research Committee	
Student Committee	
Women in Mathematics Committee	
Financial Overview.....	42
Grants.....	44
Donors.....	46
Sponsors.....	48

About the Canadian Mathematical Society

As of December 31, 2024

Board of Directors

*Barbara Csima (University of Waterloo), President
*David Pike (Memorial), Past President
*Tim Alderson (UNB Saint John), Director VP - Atlantic
*Alina Stancu (Concordia), Director VP - Québec
*Ilia Binder (University of Toronto), Director VP - Ontario
*Joy Morris (University of Lethbridge), Director VP - West
*Liam Watson (UBC Vancouver), Director VP - Pacific
Andrea Burgess (UNB Saint John), Director - Atlantic
Mikhail Kotchetov (Memorial), Director - Atlantic
Alexandre Girouard (Université Laval), Director - Québec
Christophe Hohlweg (UQAM), Director - Québec
Matilde Lalin (Université de Montréal), Director - Québec
Anthony Bonato (Toronto Metropolitan University), Director - Ontario
Adele Bourgeois (Tutte Institute), Director - Ontario
Spiro Karigiannis (University of Waterloo), Director - Ontario
Monica Nevins (University of Ottawa), Director - Ontario
Darja Barr (University of Manitoba), Director - West
Steven Rayan (University of Saskatchewan), Director - West
Nicolae Strungaru (MacEwan University), Director - West
Kseniya Garaschuk (University of the Fraser Valley), Director - Pacific
Gary MacGillivray (University of Victoria), Director - Pacific
Nilima Nigam (Simon Fraser University), Director - Pacific
Ludovick Bouthat (Université Laval), Director - Student

Appointed by the Board

*Barbara Csima (University of Waterloo), Chair
*David Pike (Memorial), Vice-chair
*Termeh Kousha (CMS), Corporate Secretary
*David Oakden (Retired), Treasurer

*Member of the Executive Committee

About the Canadian Mathematical Society

As of December 31, 2024

Committee Chairs

Education Committee

Miroslav Lovric (McMaster)

Endowment Grants Committee

Michael Lau (Laval)

Equity, Diversity and Inclusiveness Committee

Kseniya Garaschuk (UFV)

Fellows Selection Committee

Javad Mashreghi (Laval)

Finance Committee

Adam Clay (Manitoba)

Human Rights Committee

Vacant in 2024

International Affairs Committee

Edward Bierstone (Toronto)

International Prize Committee

Javad Mashreghi (Laval)

Invested Funds Committee

David Saunders (Waterloo)

Mathematical Competitions Committee

Dorette Pronk (Dalhousie)

Pamela Brittain (interim, Tutte Institute)

Nominating Committee

Javad Mashreghi (Laval)

Publications Committee

Patrick Ingram (York)

Reconciliation in Mathematics Committee

Edward Doolittle (First Nations)

Research Committee

Susan Cooper (Manitoba)

Student Committee

Ludovick Bouthat (Laval)

Women in Mathematics Committee

Karen Meagher (Regina)

Distinguished Awards Selection Committee

David Pike (Memorial)

Editorial Boards

Scientific Journals

Henry Kim (Toronto), Editor-in-Chief CJM

Robert McCann (Toronto), Editor-in-Chief CJM

Javad Mashreghi (Laval), Editor-in-Chief CMB

Antonio Lei (Ottawa), Editor-in-Chief CMB

CMS Notes

Robert Dawson (Saint Mary's), Editor-in-Chief

Crux Mathematicorum

Kseniya Garaschuk (UFV), Editor-in-Chief

ATOM

Edward Barbeau (Toronto), Associate Editor

Olga Fellus (Brock), Associate Editor

Peter Liljedahl (SFU), Associate Editor

CMS Books in Mathematics

Nilima Nigam (SFU), Editor-in-Chief CAIMS

Frithjof Lutscher (Ottawa), Editor-in-Chief CAIMS

Executive Office

Executive Director

Termeh Kousha

Communications Officer

Julia Bergeron

Assistant to the Executive Director

Maria Carvalho

Digital Services

Steve LaRocque

Manager, Finance and Operations

Yvette Roberts

Manager, Meetings and Membership

Sarah Watson

Project Planner

Trevor Wings

IT and Projects Assistant

Xinxin Zhao

The President's Report

Dear members of the Canadian Mathematical Society,

Mentioned in last year's report is that the CMS was engaged in negotiations with Cambridge University Press to publish a new journal, titled the Canadian Mathematical Communications. A contract was prepared during 2024 (and signed early in 2025). This new journal will serve as a venue for lengthy articles. Submissions are now being accepted, and the first papers should begin to appear in 2025.

I am pleased to note that the CMS held three successful conferences in 2024: the summer meeting in Saskatoon (SK), the winter meeting in Richmond (BC), and also an online education meeting that took place in November. In addition to the presentations given at these events, we recognized several award winners:

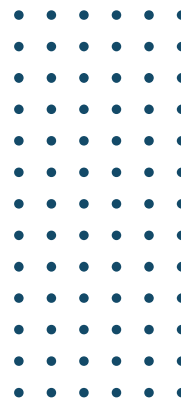
- Dr. Renate Scheidler (University of Calgary), winner of the Krieger-Nelson Prize;
- Dr. Michael Groechenig (University of Toronto), winner of the Coxeter-James Prize;
- Dr. Catherine Sulem (University of Toronto), winner of the Jeffery-Williams Prize;
- Dr. Duncan Dauvergne and Dr. Bálint Virág (University of Toronto), winners of the Cathleen Synge Morawetz Prize;
- Dr. Christopher Eagle (University of Victoria), winner of the Excellent in Teaching Award;
- Dr. David Urbanik (Institut des Hautes Études Scientifiques), winner of the CMS Blair Spearman Doctoral Prize;
- Dr. Michiya Mori (The University of Tokyo), Dr. Peter Šemrl (University of Ljubljana), Dr. David Rose, and Dr. Logan Tatham (both University of North Carolina), winners of the G. de B. Robinson Award;
- Dr. Peter Taylor (Queen's University), winner of the Graham Wright Award;
- Dr. André Boileau (UQAM), winner of the Adrien Pouliot Award.

Four people were also newly inducted as Fellows of the CMS: Dr. Sue Ann Campbell (University of Waterloo), Dr. Edward Doolittle (First Nations University of Canada), Dr. Robert Jerrard (University of Toronto), and Dr. Yael Karshon (University of Toronto).

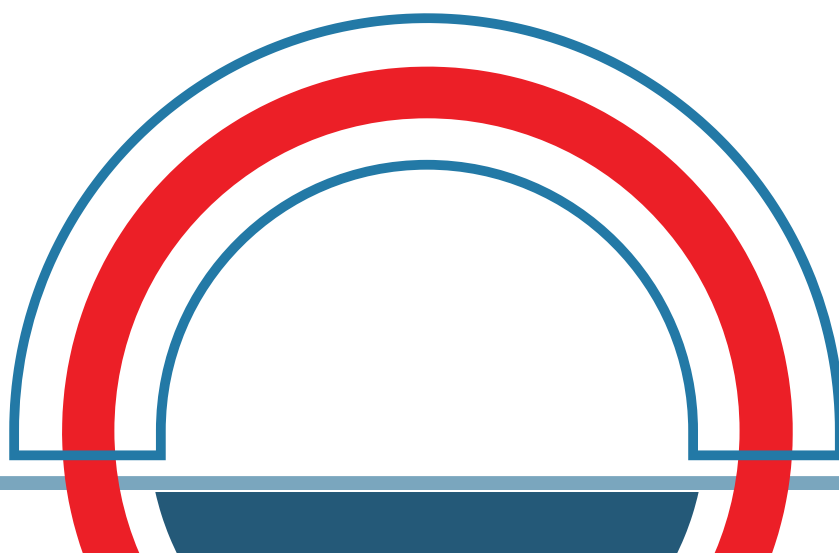
In closing this report, I want to take a moment to offer thanks to the many volunteers and staff who contribute to the ongoing success of our society. It is always a pleasure to work with all of you.



David Pike (Memorial University)
CMS Past-President



AWARDS & PRIZES



Awards & Prizes

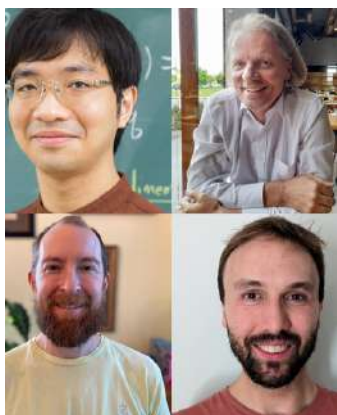
Graham Wright Award for Distinguished Service - Dr. Peter Taylor



Dr. Peter Taylor (Queen's University) has been named the recipient of the 2024 Graham Wright Award for Distinguished Service. Dr. Taylor is receiving this award in recognition of his significant contributions to the Canadian mathematical community and the CMS over five decades. Dr. Taylor is a distinguished professor with a prolific research and publication record. He has played a pivotal role in mathematics education across Canada, establishing influential organizations and initiatives such as the Canadian Mathematics Education Study

Group and the RabbitMath program. Dr. Taylor is renowned for his innovative approach to curriculum design and teacher development, and his work has profoundly impacted math education nationwide. The CMS is proud to name Dr. Peter Taylor recipient of the 2024 Graham Wright Award for Distinguished Service and celebrates Dr. Taylor's achievements and enduring commitment to mathematics.

G. de B. Robinson Award - Dr. Michiya Mori, Dr. Peter Šemrl, Dr. David Rose and Dr. Logan Tatham



The CMS has awarded the 2024 G. de B. Robinson Award to Dr. Michiya Mori (University of Tokyo) and Dr. Peter Šemrl (University of Ljubljana) for their pioneering work on operator theory, and to Dr. David E. V. Rose and Dr. Logan Tatham (University of North Carolina) for their contributions to quantum representation theory. Dr. Mori and Dr. Šemrl's paper, *Loewner's theorem for maps on operator domains*, advances the understanding of local order isomorphisms in operator theory. Dr. Rose and Dr. Tatham's paper, *On webs in quantum type C*, provides a

diagrammatic framework for quantum algebra representations. The winners bring diverse expertise: Dr. Mori specializes in operator algebra and Hilbert space operators, while Dr. Šemrl focuses on linear algebra and operator theory with connections to geometry. Dr. Rose's research spans knot theory and quantum groups, and Dr. Tatham applies quantum algebra techniques to link invariants. Congratulations to all!

Awards & Prizes

Adrien Pouliot Award - Dr. André Boileau



The CMS has awarded Dr. André Boileau (UQAM) the 2024 Adrien Pouliot Award for his exceptional contributions to mathematics education. Over his distinguished career, Dr. Boileau has revolutionized mathematics teacher training by integrating technology into teaching and designing innovative courses. At UQAM, he created and led numerous programs, including the Certificate in Computer Science Applied to Teaching and other courses aimed at enhancing mathematics education through computational tools. Dr. Boileau has authored numerous publications on the use of technology in math education and remains active in developing educational tools, such as the P5Visuel interface, a programming environment that bridges traditional and modern programming methods. Dr. André Boileau has inspired countless teachers and students in Quebec and beyond. The CMS celebrates his transformative impact on math education with this well-deserved honour.

Excellence in Teaching Award - Dr. Christopher Eagle



The CMS has awarded Dr. Christopher Eagle of the University of Victoria the 2024 Excellence in Teaching Award for his innovative teaching methods, dedication to student mentorship, and profound subject knowledge. A passionate educator, Dr. Eagle has transformed mathematics education at the University of Victoria through initiatives such as an open-source textbook with interactive exercises for his MATH 110 course, achieving impressive student outcomes. Known for his compassionate approach and open-door office hours, he fosters collaboration and individual growth among students, contributing to a significant rise in mathematics enrollment. Dr. Eagle's efforts extend beyond the classroom, mentoring undergraduate research projects that have led to publications and engaging as a speaker at student events. The CMS is proud to recognize Dr. Christopher Eagle as an outstanding educator and leader in mathematics education.

Awards & Prizes

Krieger-Nelson Prize - Dr. Renate Scheidler



The CMS has awarded the 2024 Krieger-Nelson Prize to Dr. Renate Scheidler (University of Calgary) for her groundbreaking contributions to computational and algebraic number theory. Her research focuses on algorithm design and analysis within global fields, blending math, computer science, and cryptography to develop innovative solutions for complex mathematical problems. Dr. Scheidler's prolific career includes over 60 publications in esteemed journals, leadership roles in conferences, and editorial positions, such as Co-Editor-in-Chief of *Contributions to Discrete*

Mathematics. A champion for women in mathematics, she co-founded the *Women in Numbers* Network and has mentored numerous students and postdoctoral fellows, fostering a new generation of researchers. The CMS recognizes Dr. Renate Scheidler's significant impact on the mathematical community and her leadership in advancing research and equity in mathematics, and is proud to award her with the 2024 Krieger-Nelson Prize.

Coxeter-James Prize - Dr. Michael Groechenig



The CMS has awarded the 2024 Coxeter-James Prize to Dr. Michael Groechenig (University of Toronto) for his groundbreaking contributions to arithmetic and algebraic geometry. Dr. Groechenig's work spans diverse areas, including moduli spaces, p-adic integration, K-theory, and the Geometric Langlands conjecture. He has resolved long-standing conjectures, such as validating Boalch's conjectures on Higgs bundles, substantiating Hausel and Thaddeus' equivalence of stringy Hodge numbers, and extending Simpson's and Grothendieck's

conjectures on rigid local systems. His innovative approaches often merge complex geometry with arithmetic techniques, earning widespread recognition from experts. With over 20 impactful publications and numerous prestigious grants, Dr. Groechenig has established himself as a dynamic mathematician whose work is reshaping foundational areas of math. The CMS celebrates Dr. Michael Groechenig's achievements and looks forward to his future contributions.

Awards & Prizes

Jeffery-Williams Prize - Dr. Catherine Sulem



The CMS has awarded the 2024 Jeffery-Williams Prize to Dr. Catherine Sulem (University of Toronto) for her exceptional contributions to mathematical research, particularly in nonlinear partial differential equations and fluid dynamics. Dr. Sulem's work focuses on nonlinear wave phenomena in fluids, optics, and plasma physics. She co-authored a seminal monograph on the Nonlinear Schrödinger equation and, with collaborators, developed a pivotal formulation of water-wave equations that continues to influence analysis, numerical simulations, and asymptotic models. With over 100 publications, her research has profoundly impacted both mathematics and physics. Dr. Sulem has also mentored numerous students and postdoctoral fellows. Her innovative and inspiring work has earned international recognition, including the 2019 Sonia Kovalevsky Prize lecture. The CMS celebrates Dr. Catherine Sulem's lasting impact on mathematics with this prestigious award.

CMS Blair Spearman Doctoral Prize - Dr. David Urbanik



The CMS has awarded the 2024 Blair Spearman Doctoral Prize to Dr. David Urbanik (Institut des Hautes Études Scientifiques) for his exceptional doctoral work in arithmetic geometry. Dr. Urbanik, who earned his PhD at the University of Toronto, has made groundbreaking contributions to arithmetic Hodge theory. His thesis introduces a novel connection between complex analysis and arithmetic over finite fields, proving finiteness results on arithmetic cycles with uniformity across primes. Building upon the Baldi-Klingler-Ullmo theorem, he extended its scope to arithmetic

settings, demonstrating the non-Zariski density of loci with additional algebraic cycles under mixed characteristic conditions. In addition to his thesis, Dr. Urbanik has published influential work, including an elegant resolution of period map image definitions over number fields, showcasing innovative methods like jet bundles and leveraging results from algebraic geometry and Hodge theory. The CMS celebrates Dr. David Urbanik's achievements and congratulates him on being awarded this prize.

Awards & Prizes

Cathleen Synge Morawetz Prize - Dr. Duncan Dauvergne and Dr. Bálint Virág



The CMS has awarded the 2024 Cathleen Synge Morawetz Prize to Dr. Duncan Dauvergne and Dr. Bálint Virág (University of Toronto) for their groundbreaking contributions to probability theory through their papers “The directed landscape” and “The scaling limit of the longest increasing subsequence”. Their work represents a major breakthrough in the study of planar random growth models in the Kardar-Parisi-Zhang (KPZ) universality class. In “The directed landscape”, they constructed the universal limiting object for random metrics in the KPZ class. In their subsequent paper, they established a unified framework for KPZ limits of random growth models. The CMS is proud to celebrate Dr. Dauvergne and Dr. Virág’s outstanding work with the 2024 Cathleen Synge Morawetz Prize.

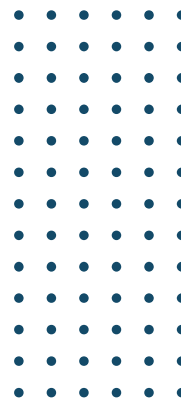
2024 Class of Fellows of the CMS



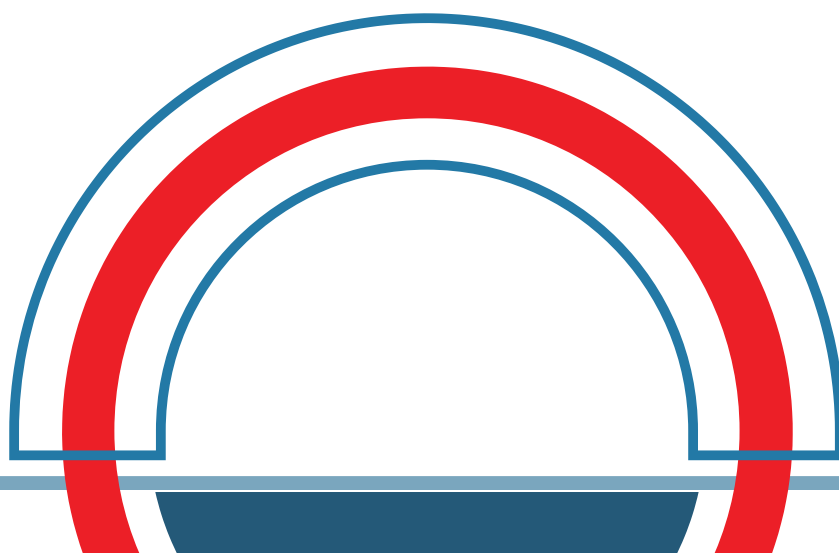
From left to right: **Dr. Sue Ann Campbell** (University of Waterloo), **Dr. Edward Doolittle** (First Nations University of Canada), **Dr. Robert Jerrard** (University of Toronto), **Dr. Yael Karshon** (University of Toronto).

The 2024 CMS Class of Fellows consists of 4 members from the Canadian mathematical community. The Fellowship recognizes CMS members who have made excellent contributions to math research, teaching, or exposition; as well as having distinguished themselves in service to Canada’s mathematical community.

Congratulations!



MATH CAMPS



Math Camps

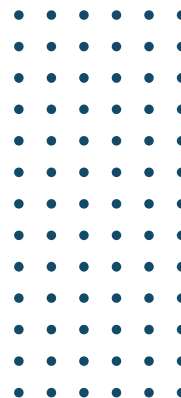
Since its inception in 2000, the CMS Math Camps program has captured the spirit of mathematics from coast to coast and has inspired young minds across the country. The program offers a unique opportunity for young Canadian students to explore a side of mathematics that is not accessible in a traditional classroom setting. Although the CMS gives local organizers the freedom to choose the topics and activities of their camps, the main goal of a typical camp is to engage students in an authentic learning environment in mathematics and its broad applications to Science, Technology and Engineering. This is achieved through stimulating presentations, hands-on activities, building projects and competitions. Students who attend the camps leave with new friends who share the same passion for the subject, new ideas to explore, and a fresh outlook on mathematics and the role it plays in our lives.

The CMS offered a total of 22 camps in 2024, welcoming a total of over 600 students. This number represents an increase since last year, reaching more young people across the country with the opportunity to participate in camps. Additionally, four specialty camps were organized, specifically designed for Black students and Indigenous students.

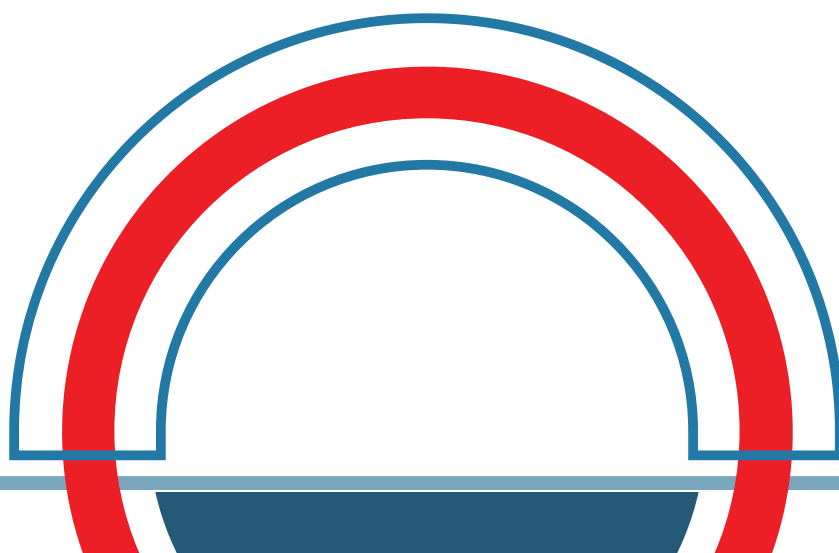
Camps in 2024 were held in St. John's (NL), Sherbrooke (QC), Québec (QC), Shippagan (NB), Fredericton (NB), Halifax (NS), Antigonish (NS), Edmonton (AB), Surrey (BC), Abbotsford (BC), Burnaby (BC), Toronto (ON), Sarnia (ON), Ottawa (ON), London (ON), and Whitehorse (YT).

Furthermore, for its second year in a row, the CMS organized a day camp in Ottawa, ON: the CMS Summer Math Camp. This camp, which was open to anyone who wished to attend, was designed to create an environment for children to develop a passion for mathematics through exciting mathematical challenges. The curriculum, meticulously developed by the CMS in collaboration with Canadian mathematicians, ensured a stimulating and supportive learning experience. In 2024, the camp welcomed 63 students. Registration sold out quickly, leaving a waitlist of approximately 50 children. The CMS plans to expand the camp to additional locations across Canada, in hopes of bringing this enriching experience to even more young mathematicians.





CMS MEETINGS



2024 CMS Summer Meeting – Saskatoon, SK

The 2024 CMS Summer Meeting, held at the University of Saskatchewan from May 31st to June 3rd, was a resounding success, bringing together over 300 mathematicians. The meeting provided numerous opportunities for attendees to network with peers and engage in a rich program of activities.

Prior to the official start of the meeting, the Pacific Institute of Mathematical Sciences (PIMS), QuanTA, and SandboxAQ hosted a two-day (May 29th-30th) Quantum Computing Summer School. This program provided over 50 students with a valuable introduction to the emerging fields of quantum computing and quantum information through lectures and hands-on demonstrations.

Over 300 mathematicians attended the 2024 CMS Summer Meeting from May 31 – June 3 at the University of Saskatchewan. Participants attended over 20 scientific sessions; three plenary lectures; three prize lectures and one public lecture over the course of the meeting. The plenary lecturers were Dr. Michael Gekhtman (University of Notre Dame), Dr. Stephanie van Willigenburg (University of British Columbia) and the education plenary lecture by Dr. Erica Walker (University of Toronto).

Three three-hour mini courses were offered on Friday, May 31, entitled *Applied Topology: DNA Topology* and *Applied Topology: Persistent Homology* with numerous organizers headed by Dr. Chris Seteros (University of Saskatchewan), and *Unveiling Infinite Symmetries*, a mini course on Algebraic Structures of Generalized Kac-Moody Type. That same day, the Student Committee of the CMS (STUDC) organized a Writing Workshop to equip graduate students with effective approaches to research.

On Friday evening, CMS hosted a full Public Lecture featuring Dr. Pamela E. Harris (University of Wisconsin - Milwaukee) who gave a talk entitled *Parking Functions: Choose your own adventure*.

The CMS Student Committee (STUDC) hosted a student social on Friday evening, featuring pizza and board games at the University of Saskatchewan which was open to all students and those wishing to network with students.

The conference officially began on Saturday morning with scientific sessions, followed by a plenary lecture by Dr. Michael Gekhtman (Notre Dame) and an Excellence in Teaching Prize lecture by Dr. Christopher Eagle (Victoria) and the CMS AGM over lunch. Saturday evening ushered in the CMS Awards Banquet which took place at Wanuskewin Heritage Park, a Provincial Heritage Property that offers a glimpse into the local indigenous culture, preservation, and celebration.

2024 CMS Summer Meeting – Saskatoon, SK (cont.)

The story of Wanuskewin is about the restoration of grasslands, the return of the bison, and the resurgence of Indigenous Plains culture. Some banquet attendees got to hoop dance with a powwow-style dancer and a First Nations singer/drummer.

On Sunday, the conference continued with scientific sessions, followed by an engaging plenary lecture by Dr. Stephanie van Willigenburg (UBC) with lots of questions going into the lunch break, and a prize lecture by Krieger Nelson Award winner Dr. Renate Scheidler (Calgary). At the end of the day the Women in Math Committee hosted a panel discussion titled Overcoming Adversity and Challenges over a dinner at the University of Saskatchewan.

On Monday morning, the conference continued with scientific sessions, followed by a plenary lecture by education plenary lecturer, Dr. Erica Walker (Toronto), and a prize lecture by Dr. Catherine Sulem (University of Toronto). The meeting concluded in the evening following scientific sessions held in the afternoon.

Overall, the 2024 CMS Summer Meeting was a great success. The CMS expresses its sincere gratitude for the tireless efforts and outstanding contributions of the Scientific Directors: Dr. Elana Kalashnikov (Waterloo), Dr. Steven Rayan (Saskatchewan), and Dr. Jacek Szmigielski (Saskatchewan). We would also like to thank Dr. Monica Nevins and Dr. Aaron Tikuisis (both University of Ottawa) for their enormous contributions to the event.



2024 CMS Winter Meeting – Vancouver, BC

Over 600 mathematicians attended the 2024 CMS Winter Meeting from November 29 to December 2 at Kwantlen Polytechnic University in Richmond, BC. This meeting was rescheduled from its original dates due to unforeseen scheduling conflicts. Participants attended over 30 scientific and education sessions; three plenary lectures; three prize lectures and one public lecture during the meeting. The plenary lecturers were Dr. Florence Glanfield (University of Alberta), Dr. Steven Rayan (University of Saskatchewan), and Dr. Trevor Wooley (Purdue University).

The CMS thanks Kwantlen Polytechnic University for their generous hospitality in providing their facilities during a busy time for both organizations. We greatly appreciate the use of their beautiful facilities.

There were three three-hour mini courses offered on Friday, November 29, including *Continuous Optimization* by Dr. Tim Hoheisel (McGill), *Logic/Set Theory* by Dr. Assaf Shani (Concordia), and *Mathematical Modelling of Traffic Flow* by Dr. Isha Dhiman (University of the Fraser Valley).

On Friday evening, the CMS hosted a Public Lecture featuring Dr. Mark Lewis (University of Victoria) who gave a talk entitled *One equation helps solve three paradoxes in the spatial ecology of predators and prey*. The talk was followed by a welcome reception at the Sheraton Vancouver Airport Hotel.

The CMS Student Committee (STUDC) hosted a student social on Friday evening giving students a chance to network. The students met in the conference hotel, the Sheraton Vancouver Airport Hotel for a social in the restaurant. Other student activities at the meeting included a writing workshop, an AARMS-CMS Student Poster Session, and a student research session.

On Saturday morning, the conference officially began at KPU with scientific sessions, followed by a plenary lecture by Dr. Florence Glanfield. Over lunch, CMS hosted a townhall with NSERC to discuss inquiries concerning the modifications to the NSERC Discovery Grant.

Saturday evening was capped off with an awards banquet in the Sheraton Vancouver Airport Hotel to celebrate excellence in mathematics by awarding the Graham Wright Award to Dr. Peter Taylor (Queen's), the Adrien Pouliot Prize to Dr. André Boileau (UQAM), the Coxeter James Prize to Dr. Michael Groechnig (Toronto), the Doctoral Prize to Dr. David Urbanik (Institut des Hautes Études Scientifiques), and the G. de B. Robinson Award to Dr. Michiya Mori (The University of Tokyo) & Dr. Peter Šemrl (University of Ljubljana), as well as Dr. David E. V. Rose & Dr. Logan Tatham (both University of North Carolina).

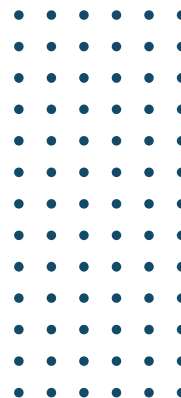
2024 CMS Winter Meeting – Vancouver, BC (cont.)

On Sunday morning, the conference continued with scientific sessions, followed by a plenary lecture by Dr. Steven Rayan and the Coxeter-James Prize Lecture given by Dr. Michael Groecheinig (University of Toronto).

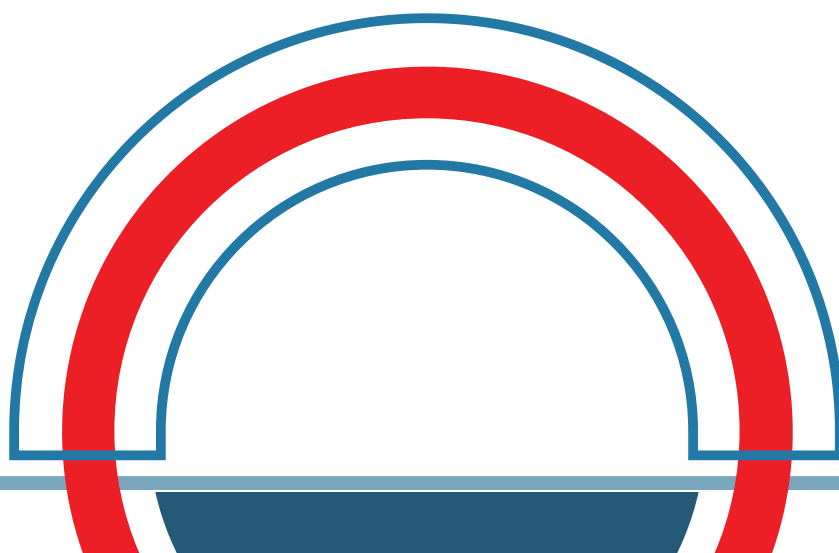
Recognizing the challenges faced by parents attending conferences, CMS organized on-site childcare for the Winter Meeting. This valuable service enabled parents to focus on their research and networking without the added stress of arranging childcare.

The CMS would like to express its gratitude to Dr. Julia Gordon (University of British Columbia), Dr. Melissa Huggan (Vancouver Island University), and Dr. Weiran Sun (Simon Fraser University) for their exceptional work as scientific directors. Their leadership and contributions ensured a seamless and successful meeting.





COMMITTEE REPORTS



Committee Reports

Education Committee

Chair: Dr. Miroslav Lovric (McMaster University)

Here are some of the key developments relating to the Education Committee in 2024:

Excellence in Teaching Award Selection Committee has been moved out of the Education Committee, to be at arm's length from the members of the Education Committee (and thus making them eligible for the Excellence in Teaching Award).

Education Materials on the CMS Website Committee members decided not to pursue their project of using CMS servers as a repository for math teaching materials.

Meetings Oversight Committee, chaired by Andie Burazin, has been in charge of organizing math education sessions at the in-person Summer and Winter CMS meetings. The Committee has completed the work on procedures and protocols for education sessions, both in-person and online. Statements about diversity and inclusion have been added to the calls for education (and also scientific) sessions.

Summer meeting (University of Saskatchewan) had one session in mathematics education, with 5 speakers. Winter meeting (Vancouver) saw a very rich program, with 4 education sessions and 35 speakers. In addition to many stimulating sessions, a highlight of the two in-person meetings were the Education plenary addresses given by Erica Walker at the Summer Meeting in Saskatchewan and by Florence Glanfield at the Winter meeting in Vancouver.

Following on the success of the first virtual meeting, the Meetings Subcommittee organized a two-day CMS Math Ed Online meeting in November 2024. Complementing the in-person mathematics education sessions, the online meeting featured plenary talks by Brent Davis (Alberta) and Robert Dawson (Saint Mary's University) and numerous presentations on a variety of themes in K-16 mathematics education.

There was an attempt to move the *Math Competitions Grants Committee* under the jurisdiction of the Mathematical Competitions Committee, but it was, unfortunately, not successful.

Committee Reports

Education Committee (cont.)

AWARDS:

The Excellence in Teaching Award recognizes sustained and distinguished contributions to the teaching of undergraduate mathematics in Canada. This year's recipient was Dr. Christopher Eagle, an Associate Teaching Professor at the Department of Mathematics and Statistics at the University of Victoria.

The Adrien Pouliot Award recognizes individuals or teams of individuals who have made significant and sustained contributions to Canadian mathematics education. This year the recipient was Dr. André Boileau (UQAM), recognized for his significant contribution to research, as evidenced by his numerous publications on the use of technology in mathematics teaching. He has also been and continues to be a regular speaker at conferences organized by the GRMS (Groupe des responsables de la mathématique au secondaire) and the AMQ (Association mathématique du Québec). Dr. Boileau remains deeply committed to exploring the possibilities offered by computers in mathematics education.

Committee Reports

Endowment Grants Committee

Chair: Dr. Michael Lau (Université Laval)

With generous funding from the CMS, the Endowment Grants Committee was able to award 2024 Endowment Grants to four excellent proposals, promoting mathematical outreach to the general public. We congratulate the grant recipients and look forward to their fine work!

Canadian Mathematics Instructors Repository
(Lauren DeDieu, University of Calgary)
\$2500

Fields Academy: Elementary Educators Program
(Pamela Brittain, University of Toronto)
\$2000

La magie des mathématiques
(Frédéric Gourdeau, Université Laval)
\$2000

Math Teacher's Enrichment Program
(Asghar Ghorbanpour, University of Western Ontario)
\$1500

Committee Reports

Equity, Diversity and Inclusiveness Committee

Chair: Dr. Kseniya Garaschuk (University of the Fraser Valley)

In 2024, EDI Committee has seen some of our key initiatives that have been in development finally come to fruition.

Demographic survey

The EDI Committee has been attempting to design and implement a survey to collect demographic data for CMS meetings since 2021. The pilot survey took place during the 2023 CMS Summer meeting in Ottawa. After several Board meetings' discussions, the final version of the survey and the process through which it is to be administered were voted in by the Board. The demographic survey is currently being implemented for the 2025 CMS Summer meeting in Quebec City. Following the online conference registration, the participant receives a link to the CMS voting system with randomly generated access code that they can use to complete the survey. Survey results are stored on the CMS servers. The aggregated data will be summarised after the conference and reported to the Board. This is the true start of a systematic data collection that will allow the EDI Committee and CMS as a whole to identify existing gaps, assess the situation, proceed with specific initiatives and policies to address these gaps, and finally use the data again to assess our progress.

EDI item in the CMS Call for Sessions

In 2024, the EDI Committee has successfully advocated for updating the Call for Sessions template to include a description of considerations made towards an equitable and inclusive session for a diverse group of participants. To support session proposers, the EDI Committee developed a short "Diversity and Inclusion Guidance for CMS Session Organizers" document. The new template was implemented starting with 2024 CMS Winter meeting. We are currently working on creating a rubric to help guide scientific directors in their evaluation of the proposals EDI component.

EDI slides for CMS meetings

We continue to provide a 3-slide bilingual presentation that CMS Office distributes to all the session organizers. The slides contain the Land Acknowledgment, CMS Code of Conduct and other relevant pieces of information (map of the conference site, link to the MOSAIC column or else). We suggest that organizers use this deck to open their sessions; we also suggest that these slides are used as the opening for prize and plenary lectures. This is now an established process that we provide this deck for all CMS meetings.

Committee Reports

Equity, Diversity and Inclusiveness Committee (cont.)

Bilingualism

We continue to find ways to ensure that CMS documentation and meetings are bilingual. For 2023 Winter Meeting in Montreal, EDI Committee supported the translation of the slides for plenary and prize lectures and, as a result, all presenters utilized both English and French slides in their presentations. This idea was strongly supported by the speakers. We hope to do the same for the 2025 Summer Meeting in Quebec City. We are also looking into ways to encourage participants to have bilingual talks, such as English oral presentation and French presentation slides.

MOSAIC column

The CMS Notes features a column dedicated to EDI issues for which the EDI Committee solicits the submissions and edits them to prepare the pieces for publication. In 2024, we only published one article. Pieces for the column are hard to write and solicit as they normally involve difficult topics and require a personal approach. We will be looking into ways to create more space for sharing of the important issues surrounding equity, diversity and inclusion.

Committee Reports

Finance Committee

Chair: Dr. Adam Clay (University of Manitoba)

The Finance Committee met on April 19 and October 21 last year, approving the 2023 year-end financials and the 2025 budget.

The 2024 budget projected a surplus of \$133k, but at the October meeting this projection was revised to 345k. This leaves The Society in a strong financial position for the start of 2025, and in fact, the 2025 budget projects a healthy surplus as well.

Math camps, and the newer initiative of day camps, continue to be on sound financial footing, with the day camps looking to be a financial success. Competitions now have significant financial support from Jane Street Capital. The COMC and the newly introduced Canada Jay and Lynx competitions enjoyed considerable success this year and may become a significant source in income in the future.

As usual, CMS meeting finances depend heavily on where the meetings are held. However, the 2025 summer meeting will be in Quebec, and the winter meeting will be in Toronto, both of which are venues that have produced financially favourable outcomes in the past. The Finance Committee recommended that the meeting rates for 2025 should be the same as 2024.

The Finance Committee also recommended this year that the editorial position for Crux should be advertised on a regular basis. This recommendation was implemented, with the recent editions of “Math Matters” containing a call for nominations for the Editor-in- Chief position with Crux.

Overall, The Society found itself in a strong financial position at the end of 2024. Since then, things have only continued to improve, and we are projecting yet another strong year in 2025.

Committee Reports

International Affairs Committee

Chair: Dr. Edward Bierstone (University of Toronto)

The International Affairs Committee (IAC) is Canada's National Committee representing our Adhering Organization to the International Mathematical Union (IMU). The National Research Council is the Adhering Organization, and the IAC is its vehicle for communication between the IMU and mathematics community.

The IMU organizes the quadrennial International Congress of Mathematicians (ICM), and promotes international cooperation in mathematics, in large part through the work of its Commissions and Committees, including the Commissions on Mathematical Education, Developing Countries and the History of Mathematics, and the Committees on Electronic Information, Women in Mathematics, and the relatively new Ad Hoc Committee on Diversity.

ICM 2026 will take place in Philadelphia, July 23-30, 2026, with the 20th IMU General Assembly to be held in New York City, July 20-21, 2026. Canada has 5 delegates to the General Assembly as a top tier Group 5 IMU member.

An ICM Speaker Nomination Committee comprising the members of the International Affairs and Research Committees was established by the CMS in Spring 2024, to compile a relatively short list of mathematical scientists working in Canada for submission to the IMU as speaker nominations for ICM 2026. Such nominations have limited impact, but may serve to remind IMU selection committees of names that may otherwise be missed. After consultation with the community through the Math Chairs, Institute Directors, and previous ICM speakers, the Speaker Nomination Committee compiled a list of 17 nominations (16 sessional and 1 plenary) that was submitted to the IMU in August 2024.

Following are the Canadian mathematical scientists who served in official organisms of the IMU in 2024:

- Christiane Rousseau (Université de Montréal), Chair of the International Day of Mathematics Governing Board;
- Matilde Lalín (Université de Montréal), member of the Committee for Women in Mathematics;
- Stephen Watt (Waterloo), member of the Ad Hoc Committee for Permissions;

Committee Reports

International Affairs Committee (cont.)

- Caroline Lajoie (UQAM), member of the International Commission on Mathematical Instruction;
- Craig Fraser (University of Toronto), ex-officio member as Past Chair of the International Commission on the History of Mathematics;
- John L. Berggren (SFU), member of ICHM.

All members of the CMS and the mathematics community are encouraged to become involved in the activities of the IMU.

Committee Reports

International Prize Committee

Chair: Dr. Javad Mashreghi (Université Laval)

The CMS International Prize Committee is a newly established entity with the mission of promoting and supporting the recognition of Canadian mathematicians through nominations for prestigious international awards or distinctions. In 2024, our primary objective was to complete the composition of the committee. We are delighted to report that this goal has been achieved. The committee now boasts representation from each region of Canada, along with an international member. Additionally, the chairs of the Education and Research Committees are part of the team to further strengthen our efforts in achieving our objectives.

Despite being in its formative stages, the committee has already made impactful contributions. As chair, I personally assisted some individuals in preparing and successfully submitting nominations. Notably, two nominations were submitted in 2024: one for the distinction of Fellow of the AMS and another for an award from the Mathematical Congress of the Americas. Furthermore, a suggestion was made for a plenary speaker at the Joint Mathematics Meetings (JMM).

To maintain confidentiality and encourage broader participation, the committee systematically refrains from disclosing the names of nominees. With a fully established team in place for 2025, we are optimistic about making significant strides in elevating the international visibility and recognition of Canadian mathematicians.

Committee Reports

Invested Funds Committee

Chair: Dr. David Saunders (University of Waterloo)

The Invested Funds Committee (IFC) met on April 18 and November 6, 2024. Representatives from TD attended the November 6 meeting to discuss the performance of the investment portfolio.

The portfolio performed well in 2024, with an overall return of 17.14%, driven by strong performance in Canadian Equity (21.60%) and Global Equity (29.83%), and modest returns in Canadian Bonds (4.05%).

At the November meeting, the IFC affirmed that the current portfolio weights be maintained: 40% in Canadian Bonds, 25% in Canadian Equity, and 35% in Global Equity.

The rate at which funds could be disbursed from the Endowment and Borwein funds while still expecting to maintain the long-term real (i.e. inflation-adjusted) values of the funds was discussed. It was agreed that the rate of 3% should be maintained for the moment, but that the committee may revisit the issue at a later meeting.

Committee Reports

Mathematical Competitions Committee

Chair: Dr. Dorette Pronk (Dalhousie University), Dr. Pamela Brittain, Interim (Fields)

The Mathematical Competitions Committee (MCC) oversees the Society's involvement in mathematics contests. The Society currently sponsors and runs five competitions: the Canadian Open Mathematics Challenge (COMC), the Canadian Mathematical Olympiad (CMO), the Canadian Junior Mathematical Olympiad (CJMO), the Canada Lynx Mathematics Competition (CLMC), and the Canada Jay Mathematical Competition (CJMC). The MCC is also responsible for Canada's participation in the Asian Pacific Mathematics Olympiad (APMO), the European Girls Math Olympiad (EGMO), the Pan-American Girls Math Olympiad (PAGMO) and the International Mathematical Olympiad (IMO) with the related training camps and oversees the CMS National Math Camp. Most of the work of the MCC is done by its four subcommittees (the COMC, CMO, EGMO and IMO Committees). Further information, including press releases, on most of the items in this report can be found through the CMS [Competitions web pages](#).

The European Girls' Mathematical Olympiad (EGMO)

The 13th European Girls Math Olympiad was held in-person at Tskaltubo, Georgia April 11-17, 2024. This was Canada's seventh year participating in EGMO.

The students on the team were:

- **Emily Ma** (Marc Garneau Collegiate Institute, North York, ON), Silver Medalist
- **Yifan (Emma) Tang** (University of Toronto Schools, Toronto, ON), Silver Medalist
- **Ruojin (Joanna) Xie** (Abbey Park High School, Oakville, ON), Bronze Medalist
- **Katrina Liu** (Canyon Crest Academy, San Diego, USA), Silver Medalist

The leader was Kate Tretiakova from the McMaster University, and the deputy leader was Kathryn Dou from MIT.

The Canadian team placed 7th out of 54 countries. The top three countries were the United States of America, Australia, and China.

The Canadian Mathematical Olympiad (CMO)

Nearly 90 Canadian students wrote the 56th Canadian Mathematical Olympiad (CMO) on March 7th, 2024. Most were invited on the basis of their performance in the most recent Canadian

Committee Reports

Mathematical Competitions Committee (cont.)

Open Mathematics Challenge or the CMO Qualifying Repêchage (a set of 8 problems posted online typically in the first half of February). By traditional arrangement, the top winners from the Alberta High School Mathematics Competition and from le Concours de l'Association Mathématique du Québec (AMQ – secondaire) are invited to write the CMO. Students that have been invited to represent Canada at the European Girls' Mathematical Olympiad (EGMO) or the Asia Pacific Mathematical Olympiad (APMO) are normally also invited. Invited participants had just one week to submit solutions.

The Repêchage was assembled by a group of volunteer experts, chaired by Dr. Pawel Pralat. Thanks are due to the members of the CMO Committee, who created and fine-tuned the problems, and graded the exams. The Matthew Brennan Award for the Best Solution to a CMO problem was awarded to Ming Yang of Brophy College Preparatory (Phoenix, AZ, USA) for his solution to problem 5.

The top score this year was 34/35, and the median score was 14/35. The following students received prizes:

- **Warren Bei** (Rockridge Secondary, West Vancouver, BC), Gold Medalist
- **Zhekai Shen** (Shanghai Foreign Language School/SISU, Shanghai, China), Silver Medalist
- **Ming Yang** (Brophy College Preparatory, Phoenix, USA), Bronze Medalist

Honourable Mentions:

- **Ryan Bai** (InGenius STEAM, San Diego, USA)
- **Emily Ma** (Marc Garneau Collegiate Institute, Toronto, ON)
- **Marvin Mao** (Bergen County Academies, Hackensack, USA)
- **Xuezhi (Jerry) Wang** (Royal St. George's College, Toronto, ON)

A full report of the 2024 CMO, including the question paper, solutions and analysis of the marking can be found on the [CMO page](#).

The Society is indebted to its sponsors and partners for the success of the CMO.

The Canadian Junior Mathematical Olympiad

This was our fifth year holding the Canadian Junior Mathematical Olympiad for top-scoring

Committee Reports

Mathematical Competitions Committee (cont.)

students in grade 10 or below who do not qualify for the CMO. The contest is written at the same time and date as the CMO. This year, 21 students wrote the contest.

The 2024 CJMO Champions are:

- **Ryan Li** (University of Toronto Schools, Toronto, ON), Gold Medalist
- **Leonardo Zhou** (University Transition Program, Vancouver, BC), Silver Medalist

No bronze medal was awarded this year.

Honourable Mentions:

- **Matthew Kutakh** (Trinity College School, Port Hope, ON)
- **Isaac Lu** (Thornhill Secondary School, Thornhill, ON)

Further details regarding the CJMO are available through the [CMO page](#).

The Asian Pacific Mathematics Olympiad (APMO)

The 36th Asian Pacific Mathematics Olympiad (APMO) was written on Monday March 11th, 2024 in North and South America, and on Tuesday March 12th, 2024 in the Western Pacific and Asia.

The 2024 Canadian APMO Team was:

- **Warren Bei** (Rockridge Secondary, West Vancouver, BC), Gold Medalist
- **Ming Yang** (Brophy College Preparatory, Phoenix, USA), Silver Medalist
- **Perry Dai** (University of Toronto Schools, Toronto, ON), Silver Medalist
- **Ryan Bai** (InGenius STEAM, San Diego, USA), Bronze Medalist
- **Marvin Mao** (Bergen County Academies, Hackensack, USA), Bronze Medalist
- **Eric Sui** (Carleton University - Math Enrichment Centre, Ottawa, ON), Bronze Medalist
- **William Zhao** (Dougherty Valley High School, San Ramon, USA), Bronze Medalist
- **Xuezhi (Jerry) Wang** (Royal St. George's College, Toronto, ON), Honourable Mention
- **Ruojin (Joanna) Xie** (Abbey Park High School, Oakville, ON), Honourable Mention
- **Robert Yang** (Walter Murray Collegiate, Saskatoon, SK), Honourable Mention

International Mathematical Olympiad (IMO)

The 65th International Mathematical Olympiad (IMO) was held in Bath, United Kingdom. The

Committee Reports

Mathematical Competitions Committee (cont.)

Leader for the Canadian team was Victor Rong of University of Toronto, the Deputy Leader was Anna Kelley of Princeton University, and Eric Shen of Harvard University was the observer. The students on the Canadian team were:

- **Ryan Bai** (Canyon Crest Academy, San Diego, USA), Silver Medalist
- **Warren Bei** (Rockridge Secondary, West Vancouver, BC), Silver Medalist
- **Emily Ma** (Marc Garneau Collegiate Institute, Toronto, ON), Bronze medalist
- **Marvin Mao** (Bergen County Academies, Hackensack, USA), Silver Medalist
- **Xuezhi (Jerry) Wang** (Royal St. George's College, Toronto, ON), Honourable Mention
- **Ming Yang** (Brophy College Preparatory, Phoenix, USA), Silver Medalist

The Canadian team placed 23rd out of 112 countries. The top three countries were the United States of America, China, and South Korea. The CMS's media release on the 2024 IMO can be found [here](#).

The Canada Lynx Mathematics Competition (CLMC)

Open to students in grades K-12 and suggested for students in grades 7-12, the Canada Lynx Mathematics Competition (CLMC) is an inclusive national math contest that provides feedback upon the completion of the exam to help develop students' skills in math. This competition was created to foster an interest in mathematics among students regardless of their skill level, to increase student confidence in their math abilities, and to present mathematics as a fun and playful subject to students. In 2024, the CLMC was available via PDF delivery.

For its second edition, over 3,000 students wrote the CLMC on October 3rd, 2024 in Canada and the Americas, and October 4th, 2024 elsewhere in the world. The median score was 39/80.

The Canada Jay Mathematical Competition (CJMC)

This open contest is based on Canadian math curriculum from grades 5 to 8 and is open to students in grades K-8. Over 3,500 students wrote the contest on November 21, 2024. The Canada Jay was offered in two formats: pdf and online. The contest was popular both in Canada and abroad. The median score for the 2024 CJMC was 36/80 with a top quartile score of 52/80, and 75 students obtained perfect scores.

The Canadian Open Mathematics Challenge (COMC)

Committee Reports

Mathematical Competitions Committee (cont.)

In 2024, the COMC was held on Wednesday, October 30th in Canada and the Americas and on Friday, October 31st elsewhere in the world. Over 6,000 students participated. The contest was again supported by a partnership of universities from across Canada.

The CMS extends a special note of thanks and appreciation to all the volunteers, at several locations across the country, who helped to mark the competition papers. This was our seventh year working with Crowdmark. In addition to its sponsors, the CMS is grateful for the support and cooperation of all members, individual donors, as well as parents, teachers, schools and school boards.

The COMC has several purposes. First and foremost, it aims to encourage students in their exploration of mathematics and problem solving. Second, the COMC provides an enrichment activity for teachers to use with their students during the fall term. Third, the COMC is used by the CMS to identify students who will write the Canadian Mathematical Olympiad and who will attend, among other events, the Winter Training Seminar and the Canada Math Camp. It is also used in the team selection for Canada's EGMO team.

In 2024, the median score for all participants of all grades and locations was 26.5/80.

As in previous years, the top awards in the 2024 COMC were given in two categories. The first category this year is Canadian-schooled students and Canadian citizens/PR-card holders at schools outside Canada. The top competitors in this category were:

- **Warren Bei** (Rockridge Secondary School, West Vancouver, BC), Gold Medalist
- **Christopher Li** (Olympiads School, North York, ON), Silver Medalist
- **Zhekai Shen** (Shanghai Foreign Language School Affiliated To Sisu, China), Silver Medalist
- **Jeremy Zhang** (Richmond Hill High School, Richmond Hill, ON), Bronze Medalist

In addition, hundreds of awards at the provincial level and at various regional and grade levels were received, and gift certificates were given out through random draws. In the International category the top competitors were:

- **Kai Ming Ou** (Guanghua Cambridge International School, China), Gold Medalist
- **Lam To** (Bergen County Academies, Hackensack, USA), Silver Medalist
- **Alex Zhan** (Basis Independent Silicon Valley Upper, San Jose, USA), Bronze Medalist

Committee Reports

Nominating Committee

Chair: Dr. Javad Mashreghi (Université Laval)

The CMS Nominating Committee plays a vital role in identifying and recruiting individuals to volunteer in support of the CMS's mission to enhance the perception and strengthen the profile of mathematics in Canada. The Committee ensures that elections for the Executive and Board of Directors adhere to the society's general operating by-laws and secures the necessary nominations to address vacancies in CMS standing committees. Additionally, the Committee periodically considers the terms of reference for all CMS standing committees to maintain alignment with the organization's objectives.

In 2024, the Nominating Committee conducted its annual Call of Interest (COI) in CMS committee membership. This year, the Committee held three rounds of discussions resulting in three distinct sets of nominations: nine, four, and twelve nominations, respectively, to fill various vacancies. Nearly all positions requiring nominations were successfully filled before the year's end, with the remaining few to be addressed at the beginning of 2025. The Committee remains committed to enhance its efficiency and to continue broadening the pool of individuals who participate in CMS committee service.

The year 2025 marks an election year, and the Nominating Committee plans to convene in mid-January to initiate the election process. As in previous years, we are deeply grateful for the invaluable support provided by the CMS office, whose efforts are crucial to the successful execution of the election.

Committee Reports

Publications Committee

Chair: Dr. Patrick Ingram (York University)

The two existing scientific publications continue to run smoothly. The CJM accepted more papers in the last year, leading to a slight increase in the publication backlog, despite the increased page counts planned over the past few years. On the other hand, CMB fell somewhat short of expectations on page count, despite a slight increase in overall submissions. This is likely due to a change in which we decreased the paper-length threshold dividing CMB and CJM, and we adjusted this threshold back again in order to address the issue. Communications in Mathematics has been launched, and papers are under review. Our publishing agreement with Cambridge University Press has been renewed.

With increased financial stability, we look forward to a more predictable future for CRUX. This publication provides a valuable service to the mathematical community. CRUX has been hindered by a perpetual one-year horizon on funding, and now that this has been lifted we are pursuing some systematic improvements, including an open call for Editor-in-Chief, with the hope of a full term agreement for renewal of the current EIC, or a new editor.

The book series continues to be productive, with three new volumes in 2024, and at least three more in development. The committee thanks Karl Dilcher and Keith Taylor for their long term of service as Editors-in-Chief. New EICs are being found, and the EICs from CAIMS have renewed their term. The new EICs will participate in a refresh of the editorial board, which was provisionally renewed for one year to facilitate the transition.

ATOM is currently on pause, and without an EIC. The Notes continue their valuable contribution of keeping the mathematical community connected and informed.

The publications committee also has a new chair. Patrick Ingram's term has ended, and Adam Van Tuyl will take over as of January 1, 2025.

Committee Reports

Research Committee

Chair: Dr. Susan Cooper (University of Manitoba)

The CMS Research Committee benefited from contributions from the following members in 2024.

Chair: Susan Cooper (Manitoba, January 2023 - December 2025)

Members:

Hans Boden (McMaster) (January 2023 - December 2025)

Maia Fraser (Ottawa) (January 2022 - June 2027)

Eyal Goren (McGill) (January 2023 - March 2025)

Melissa Huggan (Vancouver Island) (January 2024 - December 2026)

Anita Layton (Waterloo) (January 2022 - June 2027)

Tim Alderson (UNBSJ) (June 2023 - June 2025)

The Research Committee oversees the research activities of the Canadian Mathematical Society. In the past year, we played important roles in the successful 2024 CMS Summer Meeting in Saskatoon and the CMS Winter Meeting in Vancouver. We have also provided guidance in the planning for the upcoming 2025 Summer and Winter Meetings as well as the Summer 2026 Meeting. For all of these meetings, we assist the CMS in finding Scientific Directors, and participate in the process of speaker and Scientific Organizing Committee selections. At every stage, careful attention was paid to equity, diversity and inclusivity.

Moreover, we reviewed a number of extremely strong nominations and selected the winners for the Society's main research prizes – namely, the Jeffery-Williams Prize for outstanding and sustained contributions to mathematical research, the Coxeter-James Prize which recognizes outstanding research by young mathematicians, the Krieger-Nelson Prize which recognizes outstanding research by a woman or female-identifying mathematician, and the Cathleen Synge Morawetz Prize, which is awarded for outstanding research in a specific research area each year. The Committee also assisted in forming the CMS Blair Spearman Doctoral Prize Committee which manages the prize recognizing the outstanding performance by a doctoral student who graduated from a Canadian university in the preceding year.

In this past year, situations arose which highlighted to the Committee the need for some improvements in the process of the research prizes. The Committee is looking forward to forming suggestions for these improvements.

Committee Reports

Student Committee

Chair: Ludovick Bouthat (Université Laval)

Canadian Undergraduate Mathematics Conference (CUMC)

The Canadian Undergraduate Mathematics Conference (CUMC) local organizing committee, composed of students from the University of British Columbia and led by CUMC president Matthew Bull-Weizel, decided to host the conference on July 8 - 12 and delivered an excellent mathematical experience to registrants from all around the country. The Student Committee would like to thank the more than 150 students who came to the conference as well as the many keynote speakers and workshop panelists. As for CUMC 2025, the Student Committee received several very good applications and is proud to say that CUMC 2025 will be held at the University of Waterloo.

Student Activities at the 2024 CMS Summer and Winter Meetings

The Student Committee organized multiple student-oriented events during the 2024 CMS Summer and Winter Meetings. This included the usual student research talks, a poster session, a social event, and a new style of writing workshop. Attendance was excellent in every activity, especially in the winter, despite some small obstacles due to unfortunate timing.

Student Journal: Notes from the Margin

In 2024, the Student Committee continued their effort to re-establish their student journal: Notes from the Margin, after a 5 year hiatus before 2023. Both editions (summer and winter) had a really good success. The printing cost was covered by Maplesoft and the Women in Mathematics committee at the University of Waterloo. While this relationship needs to be maintained, both parties seemed enthusiastic about continuing this partnership. The plan going forward is to stick to an 8 pages journal with ~1 page articles.

Our website

We created on our website a new page compiling what we hope will be a complete list of conferences that students across the country can attend. We invite everyone to take a look, share it among students and to write to us if they notice a missing conference.

Change in Membership

In June, the Student Committee welcomed four new members (Teresa Norris, Logan Pipes,

Committee Reports

Student Committee (cont.)

Kateryna Tretiakova and Tianxu Wang) and thanked those whose terms had ended (Alexander Clow, Karen Fletcher and Alice Lacaze-Masmonteil).

Funding for student activities

During the year, we've funded the 12th Annual Canadian Statistics Student Conference (CSSC) for 200\$, the 17th edition of the Ottawa Mathematics and Statistics Conference (OMSC) 2024 (250\$), the Math to Power Her Life workshop (225\$), the Alberta Graduate Mathematics and Statistics Conference (AGMSC) 2024 (150\$), the Canadian Undergraduate Mathematics Conference (CUMC) 2024 (1000\$), and finally the Bird's Eye Conference at Toronto (175\$).

Committee Reports

Committee on Women in Mathematics

Chair: Dr. Karen Meagher (University of Regina)

Women in Math Day on-line event May 10, 2024

We hosted an on-line event for Women in Math Day. Since May 12 landed on a Sunday, we held the event on May 10. We invited established researchers: Habiba Kadiri, Lucy Campbell, Leah Keshet and Valerie Poulin to talk about their careers and experiences. Afterwards we tried to do a math craft with everyone! The event was excellently moderated by Fahimeh Bayeh, who is a student member of our committee. The zoom room had over 30 people from across Canada, below is a selection of some of the feed-back we received.

"One of the things I enjoy with WIM is how it embraces a diversity of experiences. It is truly energizing and I really enjoyed the discussions and the opportunity to meet you"

"Thank you for a wonderful panel - three of us were here for a watch party but cannot all stay for the craft!"

"Thank you for the excellent panel"

"Great panel and amazing speakers! Thank you!"

Panel at the 2024 Summer CMS Meeting



We co-organized a panel at the Summer CMS Meeting with local organizers: Madeline Berezowski, Chris Soteros, Ray Spiteri, Manuela Golban, and Juxin Liu. The event was held on the evening of Sunday June 2, we had a wonderful spread of pizza and other snacks. We heard from 4 panelists: Melanie Gibbons, Steph Van Willigenburg, Avleen Kaur, Jessi Lipoth talking about their experiences over-coming adversity. With such a topic, it was an intense discussion. Attendees learned about the importance of accommodating students with needs and how essential it is to consult with students to understand what they need to succeed. Two panelists

Committee Reports

Committee on Women in Mathematics (cont.)

spoke about their experiences with sexual harassment. Afterward several attendees spoke about how impactful this was and how they were unaware how prevalent harassment is and how profound of an effect it can have on the person targeted.

More Cute Buttons

We made some new buttons. These buttons aimed to reclaim the phrase "Girl Math" by taking it completely literally! We asked the women in our network to submit images from papers they, or other women, have written. We turned these images into buttons with the phrase "Girl Math". We received several submission and turned these into buttons. We gave these out at the CMS Panel and to the women who submitted images.



Planning an Event CMS summer meeting

We are planning to hold a lunch event at the CMS summer meeting in 2025. The planning for this is still in the early stages.

Creating a New Award for Promoting Women in Math

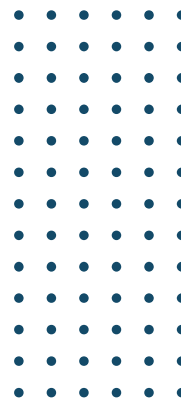
We have started planning for a biennial award to honour individuals or groups who have worked to support women in math. Our plan is to create a subcommittee for this award in the summer of 2025 and to start accepting nomination in the fall of 2025 with the plan of giving the first award in early 2026.

Planning Summer School at BIRS Okanagan

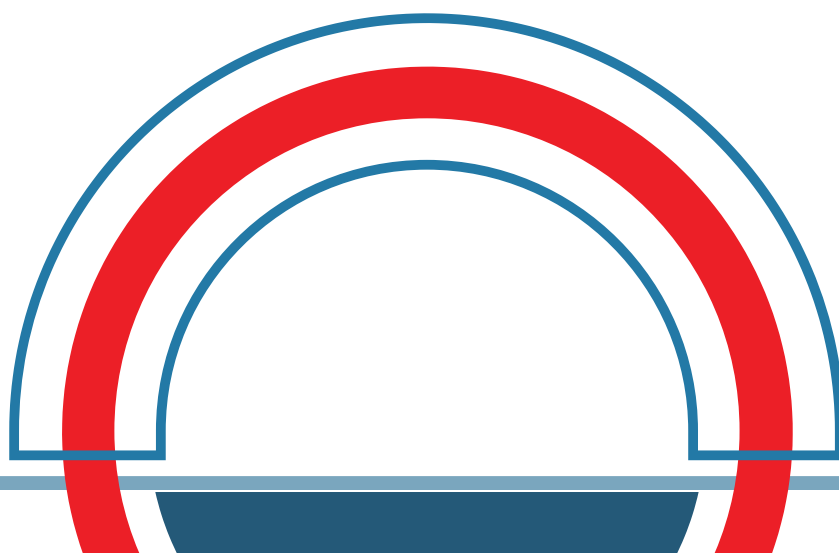
In the fall of 2024 we made an application to PIMS and the other math institutes to host the 2026 Diversity in the Mathematical Sciences Summer School. Currently the plan is host 25-30 undergraduate students at the UBC Okanagan BIRS campus for a week long summer school. The expectation is that this will be funded by the math institutes, we are currently in discussion with the institutes about funding. Our plan is to focus the academic portion on aspects of graph theory that use method learned early in most math program, such as probabilistic methods, programs, and graphs.

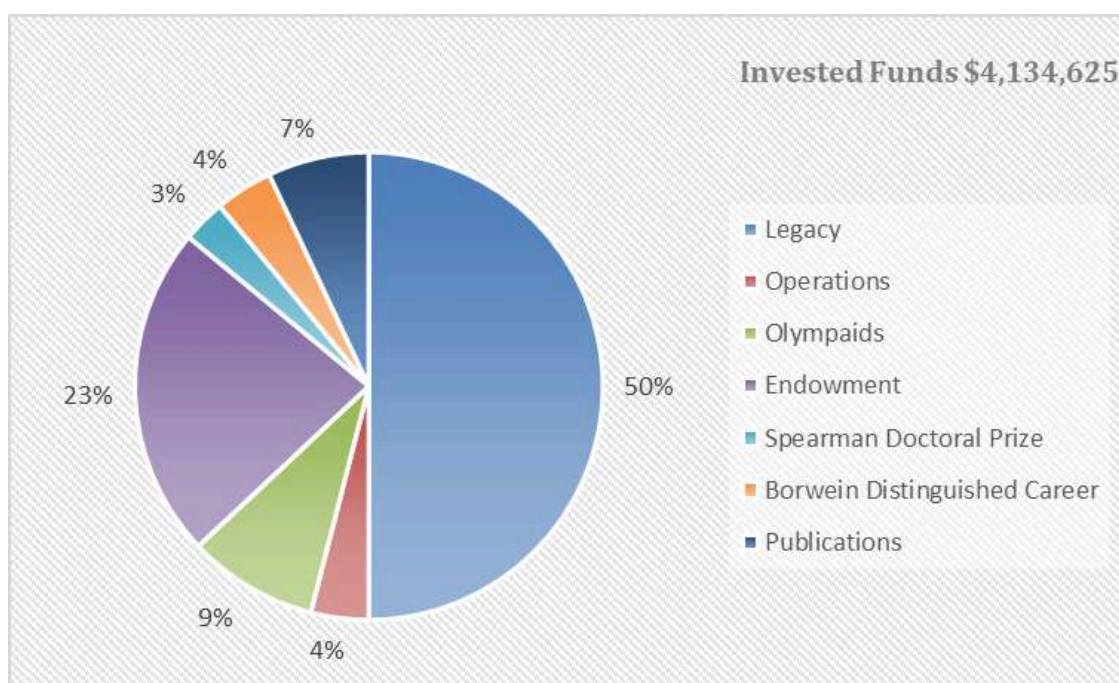
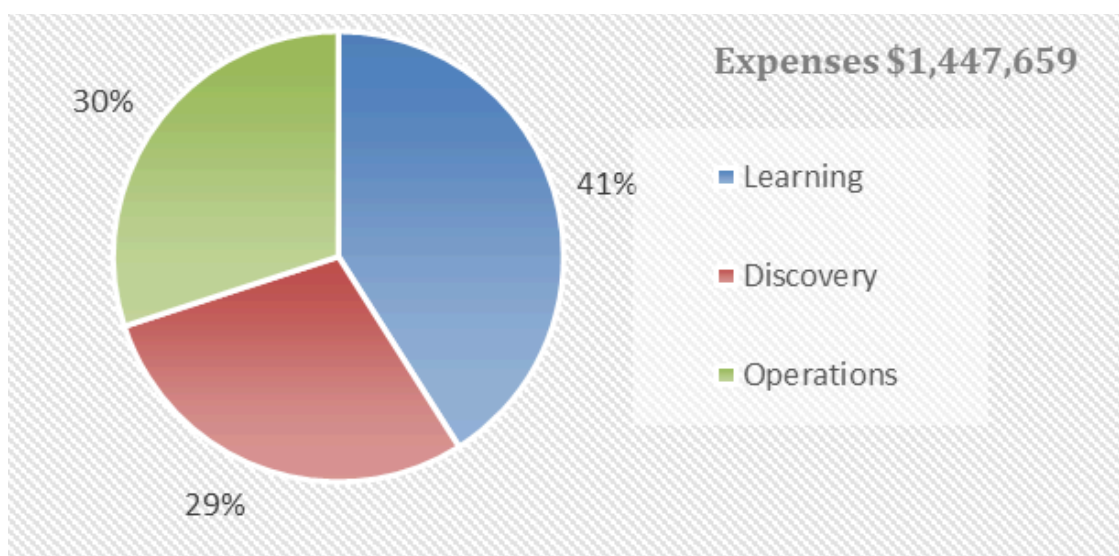
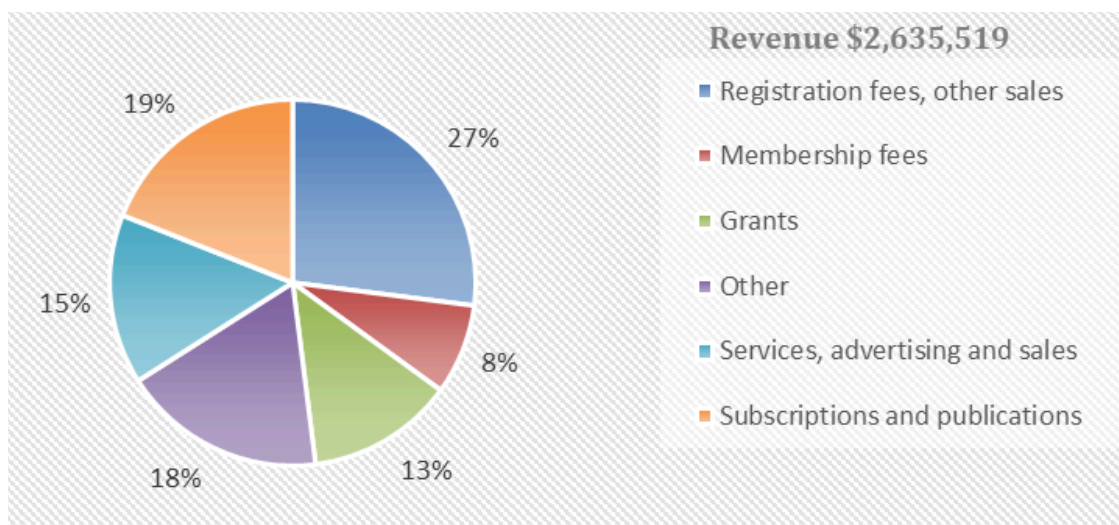
New Committee Chair

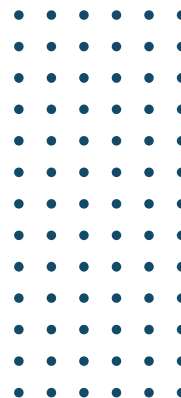
We are delighted to report that Dr. Yu-Ru Lui is now the chair of the committee.



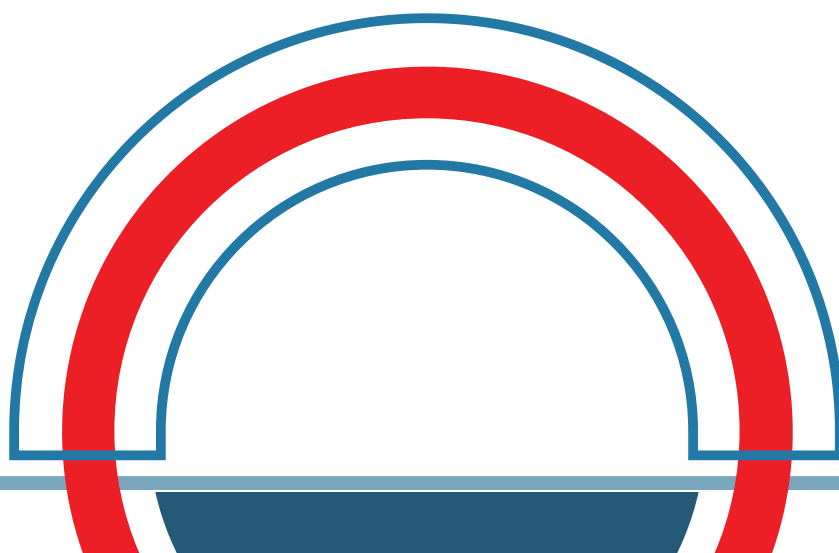
FINANCIAL OVERVIEW







GRANTS



Grants Awarded by the CMS

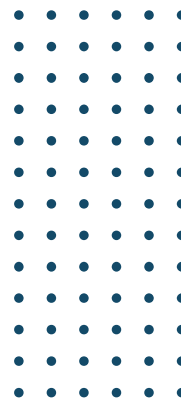
Projects that promote the discovery, learning and application of mathematics in Canada are funded through the CMS' Competitions and Endowment Grants programs. The following programs or activities received grants in 2024:

Endowment Grants

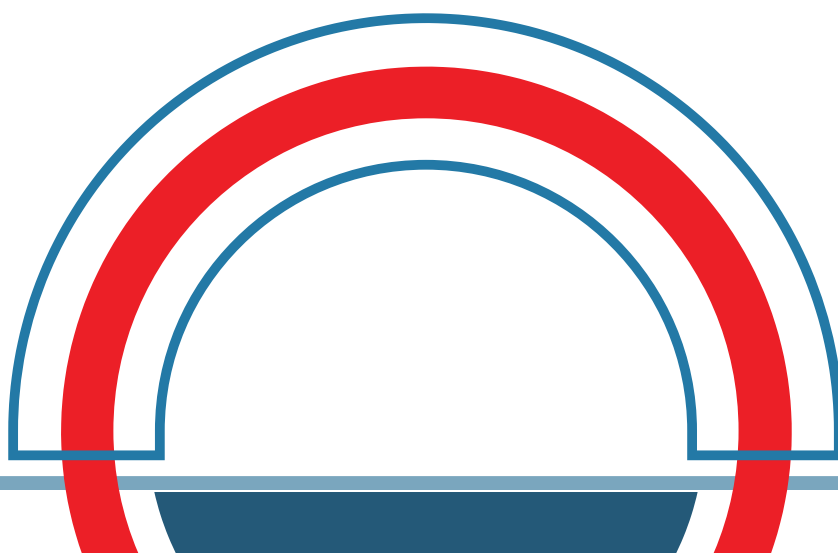
- Canadian Mathematics Instructors Repository
- Fields Academy: Elementary Educators Program
- La magie des maths
- Math Teacher's Enrichment Program

Competition Grants

- "The Nine Chapters on the Mathematical Art" Contest 2024
- 39th Annual New Brunswick Math Competition
- Alberta High School Math Competition (AHSMC)
- Association québécoise des jeux mathématiques (AQJM) - Championnat international des jeux mathématiques et logiques
- British Columbia Secondary School Mathematics Contest (Okanagan Region)
- Calgary Elementary School Math Competition (CESMC)
- Caribou Cup
- Western Math Exposition Competition



DONORS



Donors

The Canadian Mathematical Society is greatly appreciative of the financial support and encouragement received from all individual donors, including those who wish to remain anonymous.

Philanthropists [\$10,000 and more]

Barbara Keyfitz

Benefactors [\$5,000 to \$10,000]

Karl H. Dilcher

Contributors [\$2,000 to \$5,000]

Mark Brennan

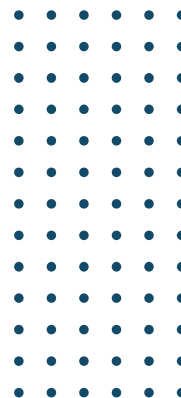
Supporters [\$500 to \$2,000]

Robert A. Adams Fund, Elena Braverman, Kenneth R. Davidson, John Chris Fisher, Arthur S. Finbow, Jacques C. Hurtubise, Monica Nevins, David J. Oakden, Christiane Rousseau, Robert E. Woodrow

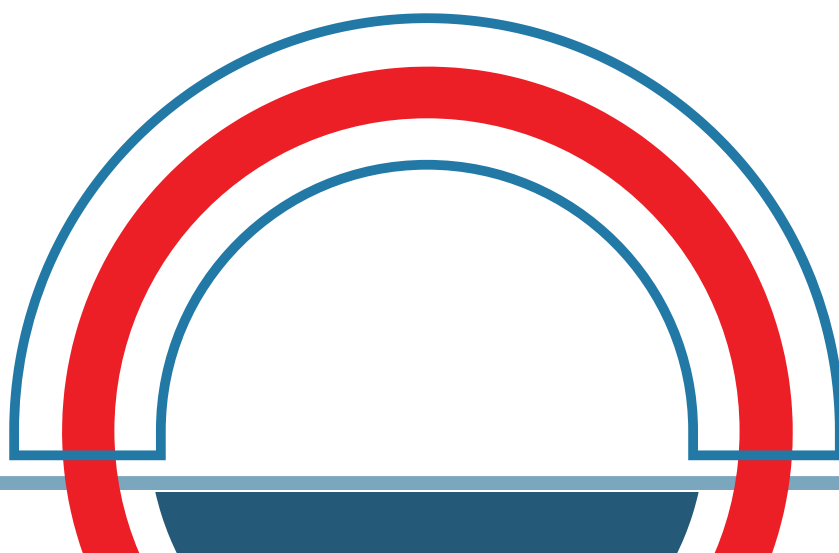
Friends [up to \$500]

Bruce N. Allison, Joseph Apaloo, Igor Babchine, David L. E. Bates, François Bergeron, David W. Boyd, Lia Bronsard, Daniel R. L. Brown, Walter Burgess, L. Lorne Campbell, Dominick J DelCasale, John D. Dixon, Michael Doob, Ana Duff, Richard D. Duncan, Leah Edelstein-Keshet, Mark N. Ellingham, Peter A. Fillmore, Peter Freyd, Alexandra R. Gall, Zhenchao Ge, Rene Girard, Edgar G. Goodaire, Mihai Halic, Jennifer Hyndman, Veselin Jungic, Margaret Karrass, Yael Karshon, Hadi Kharaghani, Askold Khovanskii, Jean-Marie De Koninck, Mikhail Kotchetov, Matilde N Lalin, William F. Langford, J. Concepcion Loredó-Osti, Jingxing Luo, Martin Légaré, Jan Minac, Robert P. Morewood, Johanna Genest Neslehova, Pierre-Olivier Parisé, Martin Pinsonnault, Harald W. Proppe, Steven Rayan, Neil Julien Ross, Patrick J. Ryan, David Ryeburn, Mark Saaltink, Thomas S. Salisbury, Bill Sands, Liliana Simion, Gord Simons, Eddy F. Smet, Cameron Sorlie, Patrick Speissegger, Jacek Szmigielski, Peter D. Taylor, Anthony C. Thompson, Jon H. Thompson, Graham P. Wright, Noriko Yui, Xiaowen Zhou





SPONSORS



Sponsors & Partners

The Canadian Mathematical Society receives support for its activities from various corporations, governments, mathematical societies, and institutions. The CMS would like to express its sincere gratitude to the following organizations for their partnership and for their generous support of the Society's programs.





📍 616 Cooper Street, Ottawa, ON K1R 5J2

☎ (613) 733-2662

✉ communications@cms.math.ca

🌐 cms.math.ca

