GAC-MAC 2026

St. John's
Newfoundland & Labrador

May 25-28

Joint Annual Meeting



From Shore to Core

PROGRAM 2026

GEOLOGICAL ASSOCIATION OF CANADA
ASSOCIATION GÉOLOGIQUE DU CANADA

MINERALOGICAL ASSOCIATION OF CANADA
ASSOCIATION MINÉRALOGIQUE DU CANADA

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IMDEX™ ST. JOHN'S

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Welcome to GAC MAC 2026

On behalf of the local organizing committee, we welcome you to the 2026 Joint annual Meeting of the Geological Association of Canada (GAC®) and Mineralogical Association of Canada (MAC). This is the first time GAC MAC has been held in St. John's since 2012, and we are delighted to host the meeting again. This year's meeting is being held at the St. John's Convention Centre in the heart of this historic city. We hope that you have the opportunity to explore our beautiful city, rich culture, and rugged landscapes that our province has to offer.

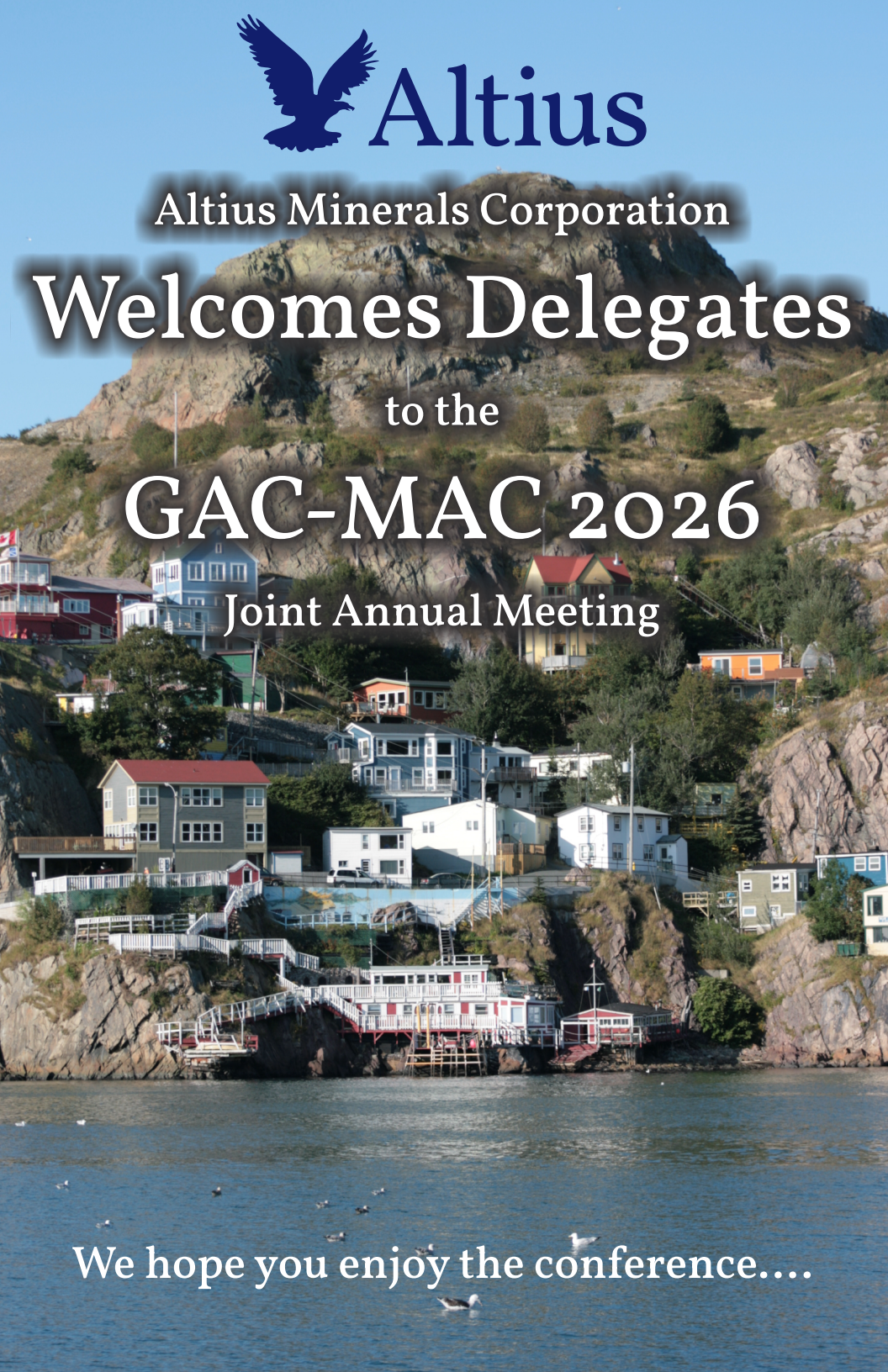
The motto of this year's meeting, From Shore to Core, reflects the diverse geological heritage and abundant natural resources with which Newfoundland and Labrador is endowed. We have an extensive scientific program covering all aspects of geoscience and are delighted that you have chosen to attend our meeting, present your geoscience research, exchange ideas and foster new collaborations here in St. John's. We are especially proud of the strong student participation in this meeting and our outreach program, which includes a geology workshop for Grade 7 teachers who will bring these resources back to their classrooms. Given the numerous challenges facing our planet, it is vital to foster in the next generation a love and knowledge of geoscience and its inevitable role in solving current and future issues of global relevance.

Newfoundland and Labrador boasts world-class, diverse geology featuring 3.8-billion-year-old rocks, ancient Appalachian mountain remnants, and some of the earliest evidence of complex life. We have ten pre- and post-meeting fieldtrips going to all corners of Newfoundland, which provide an opportunity for participants to experience this geological heritage for themselves, learn about how this "Rock" in the Atlantic has influenced our understanding of how continents collide, the diverse range of mineral deposits that form during these processes, and of course to experience the spectacular scenery. The only thing we can't guarantee is the weather! We also have two short courses and 5 workshops before and after the meeting, where participants will be trained in the latest scientific advancements by a range of experts in their fields. Thanks to all the organizers of these events.

GAC MAC 2026 would not have been possible without the support of our host associations GAC® and MAC, and especially Karen Dawe and Cathryn Nadjiwon. Thanks again to all our sponsors and exhibitors: Be sure to check out their booths in the main hall beside the poster. We thank all the staff at St. John's Convention Centre and Canadian AV for making this event possible, and to all the student volunteers who have generously donated their time and enthusiasm to this event. Finally, a big thanks to our LOC, without whom we would not have been able to have made this event happen. You have all put in countless volunteer hours into organizing this event at short notice, and we couldn't have asked for a better crew to steer GAC MAC 2026 safely into port.

Once again, welcome to St. John's. We look forward to connecting with you, discussing ideas, and enjoying all this province has to offer. Enjoy the meeting!

James Conliffe and Philippe Belley (co-chairs)


Altius
Altius Minerals Corporation
Welcomes Delegates
to the
GAC-MAC 2026
Joint Annual Meeting
We hope you enjoy the conference....



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The Geological Association of Canada
and the Mineralogical Association of Canada
Joint Annual Meeting 2026

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VALE



GEOLOGICAL ASSOCIATION OF CANADA
ASSOCIATION GÉOLOGIQUE DU CANADA

The Geological Association of Canada (GAC ®) is a national multidisciplinary geoscience organization. Its academic, industrial, and government members come from all areas of Earth Science. The Association promotes and offers opportunities for the discussion and dissemination of geological knowledge. The GAC® makes significant contributions to the promotion and development of the geological sciences in Canada through publications, awards, conferences, meetings, and exhibitions. It's journal, Geosciences Canada, welcomes technical papers of broad interest.

MINERALOGICAL ASSOCIATION OF CANADA
ASSOCIATION MINÉRALOGIQUE DU CANADA

The Mineralogical Association of Canada (MAC) is a non-profit scientific organization that promotes and advances the knowledge of mineralogy and the allied disciplines of crystallography, petrology, geochemistry, and mineral deposits. Through meetings, short courses, publications, and sponsored symposia, the Association provides a forum for the presentation and dissemination of current knowledge and advances to the worldwide community of earth scientists. Its journal is The Canadian Mineralogist.

Local Organizing Committee

GAC-MAC Co-Chairs:	James Conliffe (GSNL) and Philippe Belley (MUN)
Secretary:	Diane Skipton (GSNL)
Finance Chair:	Sara Jenkins
Technical Program Committee:	Zsuzsanna Magyarosi (GSNL), Luke Beranek (MUN) and Mike Babechuk (MUN)
Fieldtrip and Short Course Committee:	Dave Lowe (MUN), Donnelly Archibald (StFX) and Celeste Cunningham (StFX)
Safety Officer:	Nancy Normore
Publications Committee:	Andrew Kerr (Geoscience Canada), Alison Leitch (MUN) and Phil McCausland (UWO)
Sponsorship Committee:	Rod Smith (Altius)
Promotions Committee:	Megan Reardon (GSNL), Zach Adam (GSNL), Ivan Yip (GSNL) and Sarah Hashmi (GSNL)
Outreach:	Kasey Stone
Social Committee:	Kiersty Malay (MUN/StFX) and Sarah Hashmi
Registration Committee:	Marina Schofield (GSNL)
Technical Services Committee:	Daniela Mendoza Marin (GSNL)
Exhibits:	Shawn Duquet
Accommodations:	Krista Reddy (GNL)
Student Volunteers:	Natasha Miller

GSNL Geological Survey of Newfoundland and Labrador, Department of Energy and Mines
MUN Memorial University of Newfoundland
StFX St. Francis Xavier University

Land Acknowledgment

We acknowledge that the lands on which the City of St. John's are situated are in the traditional territories of diverse Indigenous groups, and we acknowledge with respect the diverse histories and cultures of the Beothuk, Mi'kmaq, Innu, and Inuit of this province.

Delegate Information

GAC MAC 2026 is hosted at the St. John's Convention Centre which is located at 101 New Gower Street, St. John's. For over twenty years, the St. John's Convention Centre has been the premier choice for events large and small. Located in the heart of downtown St. John's, Newfoundland and Labrador, our Convention Centre boasts 47,000 square feet of divisible meeting space, and plenty of old-world charm, in this historic city by the sea.

REGISTRATION

The Registration Desk will be open during the following hours:

Monday, May 25th: SJCC Foyer, 15:00 – 19:00

Tuesday to Thursday, May 26-28: SJCC Foyer, 8:00 – 16:00

On-site registration will be done on Fourwaves, there will be a computer and assistance available if needed. Name badges are required to access conference and exhibit rooms. Please wear them at all times.

PARKING

SJCC does not offer parking onsite. However there is onstreet parking and nearby parking garages:

Cabot Place - Underground Parking (entrance on Barters Hill)

Threefiftyone Indigo Lot: 351 Water Street parking

Parking is available at the Delta Hotel for guests of the hotel.

PRESENTATIONS

- Oral presentation slots are limited to 20 minutes: 15 minutes of presentation with 5 minutes of questions. Presenters will be cut off if they exceed the 20 minutes
- Widescreen format (16:9) is recommended for presentations. Acceptable file formats are .ppt, .pptx, or .pdf.



Delegate Information

- Presenters are expected to upload their presentations in the speaker-ready room (Wishingwell) prior to the start of their session.
  - Please do not try uploading your presentation during your session
  - If you are in the first morning presentation bracket, please upload your presentation the day before
  - If you are in the afternoon, please upload your presentation by noon that day
  - Please label your presentation with your last name, session number, and start time (e.g. Smith_SS04_1040)

POSTERS

- Poster presentations will take place over the two days, with posters up for both poster sessions.
- Each poster will be assigned a location that will be communicated to each presenter.
- Please make sure that your poster is up by Tuesday at 12 pm, and taken down on Thursday by 12 pm.
- Tacks will be provided.
- It is recommended that you be by your poster to present and answer questions during both afternoon poster sessions.
- Student poster prizes will be announced at the end of the poster session on Wednesday afternoon.
- Posters must fit a 4 foot x 8 foot poster board.

CHAIRS

- Chairs are expected to be present for the entire duration of their special or general session, even if it is split across multiple time blocks or days.
- Chairs should show up to their session slightly early to identify and provide instructions to speakers.
- Chairs should remind attendees of the entrances and exits of their room for emergencies purposes.
- Chairs are responsible for keeping their session on time, introducing the speakers, and moderating the question-and-answer period.
- Chairs should remind attendees of any posters associated with their session.

MEALS

On the footsteps of Water Street:

- Boston Pizza across the road on Water Street
- Connected to Delta Hotel via Pedway
- Tim Hortons, 2nd Floor, Cabot Place, accessed through Pedways
- Newfoundland Embassy outside main entrance of Convention Centre
- Many more



Accommodations

1. Alt Hotel
2. Bannerman Park Suites
3. Cantwell House
4. Courtyard by Marriott
5. Delta St. John's
6. DoubleTree Harbourview
7. Dvele Inn
8. Duckworth Hotel
9. Georgestown Inn
10. Hilton Garden Inn
11. Inn by Mallard Cottage
12. JAG Boutique Hotel
13. Monastery Hotel
14. Murray Premises Hotel
15. The Postmaster's House
16. Quayside Quidi Vidi
17. Sheraton Hotel Newfoundland

Attractions

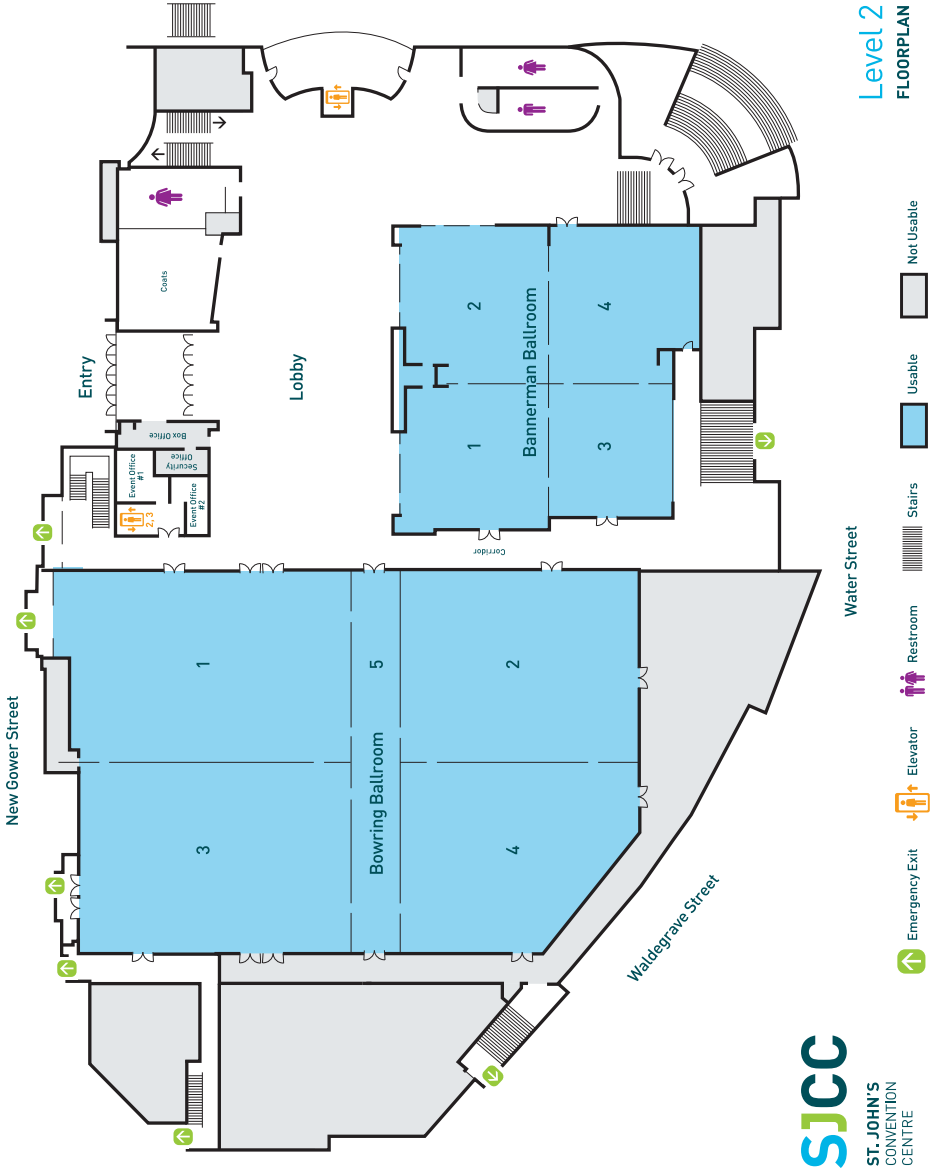
1. Bannerman Park
2. Battery Neighbourhood
3. City Hall
4. Colonial Building
5. Commissariat Provincial Historic Site
6. Crow's Nest
7. Emera Innovation Exchange
8. Fort Amherst
9. George Street
10. Government House
11. Harbourside Park
12. Johnson Geo Centre
13. Mary Brown's Centre
14. National War Memorial
15. NL Pharmacy Museum
16. Newman Wine Vault
17. Piers, Boat Tours
18. Quidi Vidi Artisan Studios
19. Railway Coastal Museum
20. The Rooms
21. Signal Hill National Historic Site
22. St. John's Convention Centre
23. Terry Fox Memorial

Services

- Visitor Information Centre
- C Church/Cathedral
- G Grocery
- P Pharmacy
- H Hospital

DESTINATION ST. JOHN'S
colourful encounters

St. John's Convention Centre





SJCC
ST. JOHN'S CONVENTION CENTRE

Emergency Exit · Elevator · Restroom · Stairs · Usable · Not Usable

Level 3
FLOORPLAN

ST. JOHN'S CONVENTION CENTRE

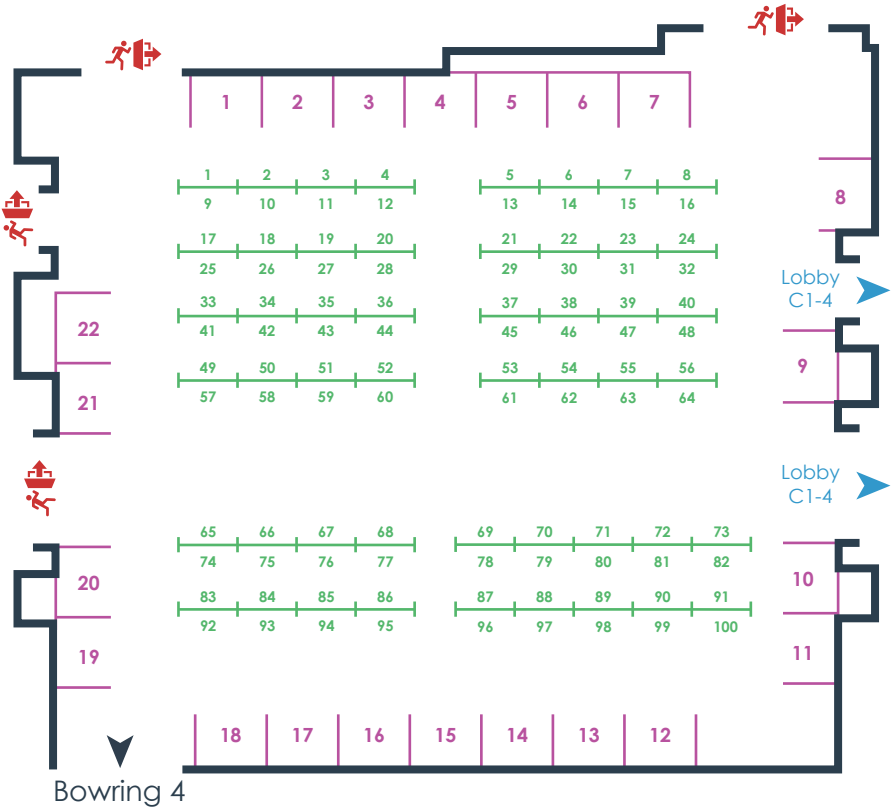
Posters and Exhibitors

Table	Exhibitor
T-1	Canadian Geoparks Network
T-2	College of the North Atlantic
T-3	Geoscience Laboratory - Ontario Geological Survey
T-4	Government of Newfoundland and Labrador
T-5	Geological Association of Canada
T-6	Mineralogical Association of Canada
T-7	Yukon Geological Survey and Yukon University
T-8	
T-9	Memorial University of Newfoundland and Labrador - Earth Sciences Department
T-10	PEGNL
T-11	Activation Laboratories Ltd. (ActLabs)
T-12	Imdex Limited
T-13	Isomass Scientific
T-14	MSALABS
T-15	Titjaluk Logistics
T-16	Proto Manufacturing
T-17	ODM
T-18	Malvern Panalytical/SciAps
T-19	FireFly Metals
T-20	
T-21	Vale Canada
T-22	Altius

Table	Exhibitor
C-1, 2	Christine Koch
C-3	Trinity Rocks
C-4	Avalon Amethyst

SEE PG. 71 - 77 FOR FULL LISTING OF POSTER PRESENTATIONS

Posters and Exhibitors





GAC-MAC Awards

Geological Association of Canada Awards

Logan Medal — 2026



Dr. Robert Andrew Creaser

Awarded for the groundbreaking application of the rhenium–osmium isotope system and other isotopic methods to transform our understanding of mineral deposits, crustal evolution, sedimentary systems, and the co-evolution of life and environment through time.

Dr. Robert A. Creaser, FRSC, is a professor and former Tier I Canada Research Chair in the Department of Earth and Atmospheric Sciences at the University of Alberta. He is internationally recognized for pioneering the application of rhenium–osmium (Re–Os) isotope geochemistry.

Professor Creaser developed analytical approaches, including the use of negative thermal ionization mass spectrometry, that enabled precise and accurate Re–Os geochronology and osmium isotopic tracing. These advances allowed the dating of previously undatable geological materials and provided new insights into crustal and Earth surface processes.

He led the development of numerous applications of the Re–Os isotope system, including sulfide geochronology to constrain the timing of mineralization and identify sources of ore-forming fluids, graphite geochronology to investigate controls on critical mineral formation, and the dating of hydrocarbon deposits and black shales. These studies contributed to improved geological timescale calibration and new constraints on major Earth system events.

His work has also used seawater osmium isotopes to link large igneous province magmatism to climate change, oceanic anoxic events, and mass extinctions, and has clarified the geochemical behaviour of osmium in subduction zones.
Beyond his Re–Os research, Professor Creaser has applied other radiogenic isotope systems and geochemical approaches to mineral deposits, crustal and mantle evolution, and magmatic processes.

Through his mentorship, he has trained numerous scientists now active in academia, government, and industry. His sustained contributions have established Canada as a leader in isotope geochemistry and Earth science research.

J. Willis Ambrose Medal — 2026

Dr. Kathryn Bethune

Awarded for her outstanding service and dedication to the Canadian Earth science community, the training of students at all levels, and her research in structural and tectonic geology that has contributed to advancing Earth science in Canada.

Dr. Kathryn Bethune is a Professor of Precambrian Geology at the University of Regina whose research has advanced understanding of the structural and tectonic evolution



of the Canadian Shield, particularly the Rae craton.

Her work has provided important insights into Paleoproterozoic orogens, including the Taltson and Grenville systems, as well as uranium mineralization in the Athabasca Basin.

Over more than 25 years, Dr. Bethune has demonstrated sustained and dedicated service to the Canadian Earth science community at institutional, provincial, and national levels. Within the Geological Association of Canada, she has served as Vice-President, President, and Past President, and has contributed as a councillor for the Canadian Tectonics Group.

She has also contributed to scientific publishing as an Associate Editor for the Canadian Journal of Earth Sciences and Precambrian Research, and has served on national research evaluation panels, including those of the Natural Sciences and Engineering Research Council of Canada.

A defining aspect of her career is her mentorship of undergraduate and graduate students and postdoctoral researchers, many of whom now contribute across academia, government, and industry.

Her sustained leadership, service, and commitment to training have had a lasting and significant impact on the Canadian Earth science community.

W.W. Hutchison Medal — 2026

Dr. Benjamin Tutolo



Awarded for his innovative contributions to geochemistry and for advancing understanding of habitable environments and carbon dioxide removal processes relevant to climate change mitigation.

Dr. Benjamin Tutolo is an Associate Professor in the Department of Earth, Energy, and Environment at the University of Calgary and a Canadian leader in geochemistry whose research bridges Earth and planetary systems.

His work on high-temperature geochemical reactions at mid-ocean ridges has advanced understanding of processes that sustain habitable environments on Earth and potentially on Mars.

Dr. Tutolo has also made significant contributions to climate science through research on mineral carbonation and carbon dioxide removal. His work has led to widely adopted advancements that improve our understanding of how geochemical reactions can be used for climate change mitigation. He has developed innovative laboratory

techniques that challenge long-standing assumptions about reaction kinetics particularly in the formation of clay minerals, enabling more accurate characterization of geochemical processes.

To support the broader scientific community, he co-developed a free, open-source software package for predicting geochemical processes, which is already influencing research internationally.

Dr. Tutolo is an active leader in the scientific community, including serving as Chair of the Ocean Networks Canada Ocean Observatory Council and as a member of NASA's Mars Science Laboratory Curiosity Rover Team.

His work combines fundamental geochemical research with applications that address key challenges related to planetary habitability and climate change.

E.R. Ward Neale Medal — 2026

Dr. William (Bill) Pearson



Awarded for his sustained leadership in geoscience education and outreach, and for his significant contributions to public communication of Earth science in Canada.

Dr. William (Bill) Pearson is an economic geologist with over five decades of experience and a leader in geoscience education and outreach.

He is the driving force behind geoscienceinfo.com, where he has led the development of a wide range of accessible educational resources, including GeoHikes, GeoWalks, GeoRoutes, and GeoPaddles, enabling the public to explore local geology through both virtual and in-person experiences.

Through collaborations with conservation organizations such as the Bruce Trail Conservancy, Niagara Peninsula Conservation Authority, and the Niagara GeoPark, he has expanded community engagement and access to geoscience knowledge.

Dr. Pearson has also supported the development of educational resources for younger audiences, including the creation of a dedicated Kids Zone and the development of the illustrated children's book Rocky the Raccoon Explores the Niagara Escarpment, aimed at promoting geoscience literacy.

He has played a key role in professional organizations, including serving as the inaugural President of the Association of Geoscientists of Ontario and contributing to the formation of the Canadian Council of Professional Geoscientists. He also founded and chairs the APGO Education Foundation.

Dr. Pearson's sustained leadership has supported the development of accessible geoscience communication tools and fostered engagement between geoscientists and the public, contributing to increased awareness of Canada's geological heritage.

Eric Mountjoy Exchange Award — 2026



Lütfi Ersay

Awarded for research on the metamorphic evolution and associated graphite mineralization in the Grenville Province of southwestern Quebec.

Lütfi Ersay is a doctoral researcher at the Institut national de la recherche scientifique (INRS) whose work focuses on the metamorphic evolution and flake graphite mineralization of the Grenville Province in southwestern Quebec.

His research integrates petrochronology, geochemistry, and phase equilibrium modelling to investigate high-grade metamorphism and the processes controlling graphite formation and distribution. His work examines graphite occurrences within migmatitic rocks and their relationship to partial melting and fluid remobilization.

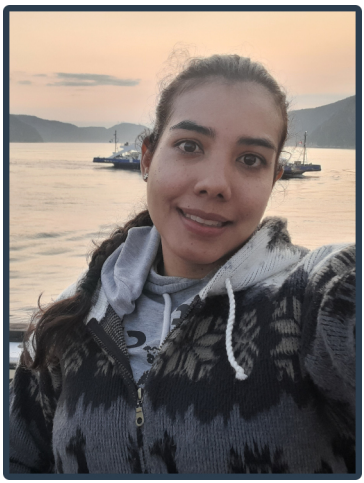
Through detailed petrochronological analysis, including U–Pb dating of monazite and planned Lu–Hf garnet studies, his research seeks to better constrain the timing, duration, and conditions of orogenic events and their relationship to graphite mineralization.

His results suggest a potentially prolonged metamorphic history rather than discrete events, contributing to improved understanding of Grenvillian tectonics and high-grade metamorphic processes.

The proposed research exchange will provide access to specialized analytical facilities required for in-situ petrochronological analyses and will support the acquisition of new data central to the objectives of the project.

His work contributes to advancing knowledge of high-grade metamorphism and graphite mineralization in the Grenville Province.

Eric Mountjoy Exchange Award — 2026



Maria Alejandra Taborda Ortiz

Awarded for her research on carbon capture and storage and for a proposed exchange that will enhance understanding of CO_2–rock–fluid interactions in geological storage systems.

Maria Alejandra Taborda Ortiz is a Master's student at the Institut national de la recherche scientifique (INRS), where her research focuses on carbon capture and storage (CCS) and the geochemical and thermohydraulic processes associated with CO_2 injection in subsurface environments.

Her work investigates how CO_2 sequestration in deep geological formations modifies the physical and chemical properties of reservoir rocks and formation brines, including permeability, porosity, and thermal conductivity. These properties are influenced by interactions between CO_2, brine, and the rock matrix, which are central to her experimental research.

Her project involves CO_2 injection experiments in sedimentary rocks to better understand CO_2–brine–rock interactions and their physical, chemical, and thermal effects. This work aims to improve understanding of the evolution of reservoir properties during geological storage and to assess risks associated with fluid migration, loss of confinement, and reservoir degradation.

The proposed research exchange at the Petroleum Technology Research Centre (PTRC) will provide access to field-scale observations from major CCS projects such as Aquistore and Weyburn–Midale. Through this visit, she will be able to compare her experimental results with field data obtained under real injection conditions, including monitoring data from geophysical, geochemical, and petrophysical methods.

The exchange will also provide opportunities to gain practical insights into CO_2 storage operations, integrated capture and storage systems, and enhanced oil recovery technologies, as well as to engage directly with specialists in the field.

This experience will support the interpretation of her experimental results and contribute to strengthening collaboration between INRS and PTRC, advancing research on geological CO_2 storage in the context of energy transition and climate change mitigation.

Mineral Deposits Division Awards

2026 Harvey Gross Medalist

Dr. Bertrand Rottier

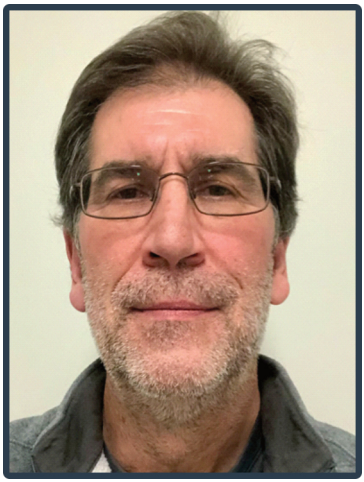


Bertrand Rottier has been a professor at Université Laval (Canada) since 2019. He holds degrees in geological engineering and an MSc from the LaSalle Polytechnical Institute in France (2012), as well as a PhD from the University of Geneva, Switzerland (2017). In 2019, one of his publications received the *Best Paper Award* from the Society for Geology Applied to Mineral Deposits (SGA), recognizing the most outstanding article published in *Mineralium Deposita* in 2017–2018. In 2024, he was awarded the Waldemar Lindgren Award by the Society of Economic Geologists (SEG).

His current research focuses on regional- to deposit-scale studies of a wide range of commodities (Au, Cu, Zn, REE, graphite) with the aim of improving the identification of metal-endowed areas. He also develops fertility and vectoring tools based on mineral chemistry for various deposit types.

2026 Duncan R Derry Award

Dr. Jan Peter



Dr. Jan Peter s a recently retired research scientist at the Geological Survey of Canada in Ottawa, with whom he remains affiliated. He received his B.Sc. (Hons.) in Geology from the University of British Columbia in 1983 and his M.Sc. and Ph.D. in Geology from the University of Toronto in 1986 and 1991, respectively. Prior to joining the staff of the GSC in 1994, he held a Natural Sciences and Engineering Research Council of Canada (NSERC) postdoctoral fellowship at the GSC.

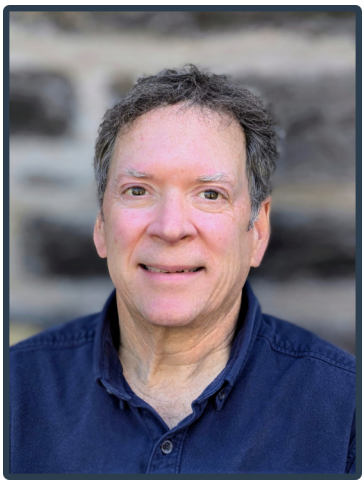
He specializes in the study of metallic mineral deposits, together with exploration methods and techniques for their discovery. His research is broadly centered on deposits in volcanic and sedimentary settings and focused on: modern seafloor hydrothermal sulfides off the west coast of Canada; volcanogenic massive sulfides in the Appalachians, Slave, and Cordillera; sediment-hosted lead-zinc in the northern Cordillera; and metalliferous black shales in Cordillera. This work benefited from the strong collaboration between government, academia, and industry participants.

Dr. Peter has published over 130 peer-reviewed papers and reports. He co-led a 6-year UNESCO International Geological Correlation Programme Project on the global comparison of volcanic-hosted massive sulfide districts. He was a key science leader for the GSC's highly successful and long-running Targeted Geoscience Initiative Program. Peter is an adjunct professor in the Department of Geological Sciences and Geological Engineering at Queen's University, Kingston, and was previously an adjunct professor at Laurentian University, Sudbury, and at the University of Toronto, Toronto, where he co-supervised graduate students and contributed to graduate course teaching.

MINERALOGICAL ASSOCIATION OF CANADA AWARDS

The Peacock Medal

Dr. Lee A. Groat



Dr. Lee A. Groat graduated from Queen's University with a B.Sc. (Honours, Geology) in 1982 and from the University of Manitoba with a Ph.D. in 1988. From 1988 to 1989 he was a NATO Postdoctoral Fellow at Cambridge University.

Professor Groat has been a faculty member at the University of British Columbia since 1989. In 2002 he was awarded the Killam Prize for Excellence in Teaching, and since 2007 he has been Director of the Integrated Sciences specialization, which enables students to create custom degree programs.

Professor Groat's main research interests are the geology of critical elements, gem deposits, and the crystal chemistry of minerals. He has published approximately 200 papers in peer-reviewed scientific journals.

From 2001 to 2006 Prof. Groat was Editor of American Mineralogist. From 2012 to 2022 he was Editor of The Canadian Mineralogist. From 2007 until 2021 Prof. Groat was Chair of the Commission on Gem Materials of the International Mineralogical Association.

In 2003 Prof. Groat was elected a Fellow of the Mineralogical Society of America, and in 2009 the new mineral groatite, NaCaMn2+2(PO4)[PO3(OH)]2, was named in his honor. In 2019 he was awarded the Leonard G. Berry medal for distinguished service to the Mineralogical Association of Canada.

Professor Groat is an Independent Director of multiple companies in the exploration and technology spheres and a partner in a private consulting company.

The Berry Medal

Dr. Andrew Conly



Dr. Andrew Conly's interest in geology began thanks to a serendipitous course in high school and led him to complete an HBSc (1993) and MSc (1996) at Carleton University.

Through Wayne Goodfellow (Geological Survey of Canada), he participated in two oceanographic expeditions to the Juan de Fuca Ridge, experiences that ultimately brought him to the University of Toronto, where he earned his PhD in 2003 under the supervision of Steve Scott.

Following his doctoral studies, Dr. Conly joined the Department of Geology at Lakehead University, where he is currently Associate Professor and Chair. His research has expanded from an initial focus on sediment-hosted base metal deposits to include experimental mineralogy and petrology, pit lake remediation, and, most recently, the geology and mineralogy of graphite deposits.

Dr. Conly has made significant contributions through professional service. He has served twice as Chair of the Mineral Deposits Division of the Geological Association of Canada and has held leadership roles including Academia Representative on NRCan's Steering Committee on Chromite Research and Development, Regional Vice-President of the Society for Geology Applied to Mineral Deposits, Director of the CIM Geological Society, and Chair of CCCESD.

Since 2010, he has been actively involved with the Mineralogical Association of Canada, serving as Councillor (2010–2013), on Hawley Medal, student travel and research grant, and scholarship selection committees, and as a member of the Executive from 2018 to 2024, culminating in his term as President during the COVID-19 pandemic.

His service to MAC has been inspired by past Berry Medalists Iain Samson, Pierrette Tremblay, and Andy McDonald, as well as by the dedication of MAC's Executive, Council, and staff.

The Hawley Medal

The Hawley Medal is awarded to Mary G. Macquistan, Lee A. Groat, Ronald C. Peterson and Catriona M. Breasley for the best paper published in the Canadian Journal of Mineralogy and Petrology (CJMP) in 2025 and entitled "*Paragenesis of barium silicate mineralization in Devonian strata at the Gun occurrence, Yukon Territory, Canada*".

Mary G. Macquistan

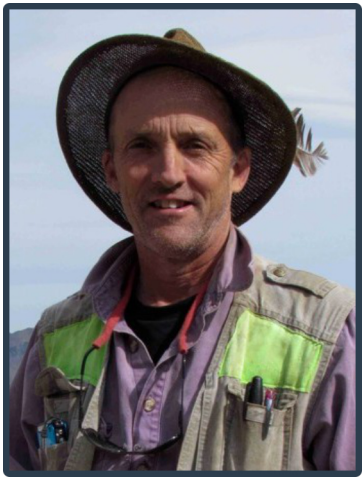


Mary G. Macquistan holds an Honours BSc, Specialization Geology and Minor in Mathematics from the University of Ottawa, for which she was awarded the 2021 faculty plaque.

She then completed a Master of Science in Geological Sciences at the University of British Columbia in 2024. Her MSc research focussed on the paragenesis and mineral diversity of the Gun occurrence in Yukon Territory. This work has led to the publication of two papers (with a third in progress) and the discovery and characterization of two new barium minerals: ronpetersonite and raudseppite.

Following her MSc, Mary has worked in mineral exploration on mapping programs in northern BC and with the Yukon Geological Survey.

Dr. Ron Peterson



Dr. Ron Peterson (H.BSc, Western,1974, Digitizing Debye Scherrer powder films, supervisor J. Starkey), (MSc. McGill, 1977 Crystal structure of sulfate scapolite, supervisor R.F. Martin), (PhD. Virginia Polytechnic Institute and State University, 1980, Modelling of bonding electron distribution in aluminosilicate polymorphs, supervisor G.V.Gibbs).

Ron is an Emeritus Professor in the Department of Geological Sciences and Geological Engineering at Queen's University. Ron specializes in X-ray and neutron diffraction using both powders and single crystals. A wide variety of mineralogical problems have been investigated by laboratory and field-based observations These include order/disorder behaviour in spinels, quantitative analysis of mineral mixtures with Rietveld refinement of powder data and the crystal chemical study of metal sulfates which occur in mine waste.

In 1999 Ron designed and built 500 teaching kits to help grade 4 teachers present the geology requirements of the science and technology curriculum of the Province of Ontario. The kit weighs 10 Kg and has 43 rocks, minerals and fossils as well as teaching guides and worksheets for 6 weeks of study and was distributed across the province. Ron was the Director of Continuing and Distance Studies for Queen's University and designed and offered science enrichment programs for primary and secondary students in the Kingston area.

Recently Ron investigated the occurrence in nature of hydrated magnesium sulfate minerals. During field studies he described the new mineral cranswickite $MgSO_4$-$4H_2O$ from northern Chile. During experimental study of hydrated magnesium sulfate stability, the conditions of formation of $MgSO_4$-$11H_2O$ was determined and the prediction of where the mineral might be found on Earth lead to the discovery of the new mineral meridianiite in a frozen lake in British Columbia. The mineral is named after the locality on Mars where the NASA rover Opportunity found evidence of hydrated magnesium sulfate. The mineral ronpetersonite was described by Mary Macquistan at the Gun claim deposit as part of the larger study which is the subject of the Hawley Award winning paper.

Ron loves to play hockey and is spending retirement enjoying the company of his family and making furniture.

Dr. Catriona M. Breasley



Dr. Catriona M. Breasley is a Project Geologist at Equity Exploration Ltd., where she works on a variety of mineral exploration projects across Canada. She is currently managing a multi-rig lithium pegmatite exploration project in the Northwest Territories.

She received her MSc.Geology in Earth Sciences from the University of St Andrews, Scotland in 2021. She completed her PhD in Geological Sciences at the University of British Columbia in 2025, where her research focused on the formation, textures, and geochemical evolution of lithium mineralization in Canadian pegmatites, including the Tanco pegmatite in Manitoba and the Prof pegmatite in British Columbia. During her time at the University of British Columbia, she was awarded several competitive international scholarships and awards.

Her research combines mineralogical, geochemical, and advanced imaging techniques to better understand the processes that form critical element deposits and their implications for mineral exploration and ore processing. She has authored numerous peer-reviewed publications on pegmatite geochemistry and mineralogy.

The Pinch Medal

Colonel (Ret.) Quintin Wight, CD, MA



His 37-year career in the RCAF took Quintin to many localities in which he could find mineral specimens to add to a growing collection. He began writing about minerals in 1966, and has since published over 200 articles and reviews on mineral-related subjects. He began to work in mineral photomicrography in 1973, and has given more than 205 presentations to groups across North America, and in England, Belgium, Italy, Switzerland, Tanzania, and New Zealand.

Inducted to the *Micromounters' Hall of Fame* in 1990, he now coordinates that organization on behalf of the Baltimore Mineral Society. He also conducted an annual gathering of specialists in microscopic minerals at the Rochester Mineralogical Symposium from 2000 until the RMS demise in 2019. His book, *The Complete Book of Micromounting*, was published in 1993, and the mineral quintinite was named in his honour in 1992.

MAC 2026 Emerging Scientist

Dr. Brendan Van Dyck



Dr. Brendan Van Dyck is an Associate Professor in the Department of Earth and Environmental Sciences at the University of British Columbia's Okanagan campus. He received his PhD from the University of Oxford in 2016 and subsequently held an 1851 Research Fellowship at the University of Cambridge (2016–2017). He was appointed Assistant Professor at Simon Fraser University in 2017, where he served until 2020, before joining the University of British Columbia in 2021.

His research focuses on the chemical and physical processes operating within metamorphic and plutonic crust. By combining elements of materials science, petrology, and solid-state chemistry, Dr. Van Dyck strives to develop new approaches for interpreting the rock record. His group studies topics ranging from reaction kinetics and stress-distribution during regional tectonics to the bioavailability and geochemical cycling of life-essential elements. Their approach integrates thermodynamics, field observations, and analyses of mineral microstructure and crystallography to examine how crustal processes evolve over geological timescales. Dr. Van Dyck and his group employ a range of analytical techniques —including scanning electron microscopy with electron backscatter diffraction (SEM-EBSD), transmission electron microscopy (TEM), micro-X-ray fluorescence (microXRF), and cathodoluminescence (CL)—alongside petrological and chemical modelling to gain new insights into petrological processes.

Field Trips

PRE-CONFERENCE

FT-01 **Trans-island Appalachian fieldtrip**
Organizers: Cees van Staal, Alana Hinchey, Alex Zagorevski
Dates: May 20 - May 25

FT-02 **Heart of Gold: Queensway, Hammerdown-Whisker Valley, and Valentine gold projects of central Newfoundland**
Organizers: Ian Honsberger, Hamish Sandeman
Dates: May 21 - May 25

FT-03 **Structure and petrochronology of the Dover Fault and Wing Pond Shear Zone**
Organizers: Eric Thiessen
Dates: May 24 - May 25

FT-04 **Neoproterozoic epithermal systems of the northeastern Avalon Peninsula, Newfoundland**
Organizers: Greg Sparkes
Date: May 25th

FT-05 **Geoheritage of St. John's: One-Day Walking Tour**
Organizers: Ivan Yip, Louis Yun
Date: May 25th

POST-CONFERENCE

FT-06 **A tale of three basins: Geology of the Bonavista Peninsula, Avalon Zone, Newfoundland**
Organizers: Andrea Mills, Nicolás Gómez, David Lowe, Chidera Vincent Ikechukwu, Duncan McIlroy, Noah Slaney
Dates: May 29 - June 1

FT-07 **Volcanogenic Massive Sulfide Deposits of Newfoundland**
Organizers: Stefanie Brueckner, Marina Schofield, Konrad Chrzastowski, Crispin Pike
Dates: May 28 - June 1

FT-08 **Alkaline and Peralkaline Systems and Associated Mineralization in the Western Avalon Zone**
Organizers: Zsuzsanna Magyarosi, David Lentz
Dates: May 29 - May 31

FT-09 **Elmastukwek - the Bay of Islands region: Arcs, ophiolites, and a continental margin in the Cabox Aspiring Geopark**
Organizers: John W.F. Waldron, Jean H Bédard, Paul Wylezol, Doug Reusch, Martin Schwangler, Mark Coleman, Azam Soltanmohammadi
Dates: May 29 - June 2

FT-11 **Avalon Amethyst & historic La Manche Mines field trip**
Organizers: Jason White
Date: May 29th

Short Courses and Workshops

Short Courses

SC-01 **Surficial geochemistry and indicator minerals methods in mineral exploration**
Organizers: Sarah Hashmi, Roger Paulen, Jessey Rice, Alexandre Voinot, Lyndsay Moore
Dates: May 24 - May 25

SC-02 **Mineralogical Association of Canada Short Course on Peralkaline Rocks and Associated Mineral Deposits**
Organizers: Anton Chakhmouradian, Zsuzsanna Magyarosi
Sponsored by: Mineralogical Association of Canada
Dates: May 24 - May 25

Workshops

W-02 **Metamorphic petrology: Challenges, opportunities, and our path forward**
Organizers: Jillian Kendrick, Aphrodite Indares, Chris Yakymchuk, Antoine Godet
Dates: May 29 - May 30

W-03 **Hyperspectral Analysis and Data Interpretation for Geological Materials**
Organizers: Michel Rosener, Steve King, Dave Browning, Derek Wilton, Janelle Skeard
Date: May 25th

W-06 **Quantitative chemical mapping with XMapTools: Workflows for EPMA, SEM and LA-ICP-MS**
Organizers: Pierre Lanari, Renee Tamblyn
Date: May 25th

W-07 **X-Ray Absorption Spectroscopy (XAS) A Molecular Level and Nano to Sub Nano Scale Element Specific Local Structural Approach in Geochemistry, Environmental, and Other Research**
Organizers: Ning Chen
Date: May 25th



Special Events

Public Outreach Event

Geoscience Teacher Workshop
The LOC is hosting a Geoscience Teacher Workshop in collaboration with Memorial University Geophysics Outreach (MUNGO). This workshop is designed for Grade 7 Science teachers to support the Earth's Crust unit of the provincial curriculum. With support from Vale and other partners, participating teachers will receive classroom-ready materials and lab supplies to take back to their schools.

The workshop will include short presentations and hands-on demonstrations led by geoscience professionals and educators. Topics will include local geology, mineral identification, rock types, Earth systems, geoscience careers, and an introduction to the Newfoundland Geological Map in Minecraft.

Time: May 22, 8:30 am to 3:30 pm
Location: Memorial University
Our sponsor for this event is Vale Base Metals Limited

Special Events

MAC Board Meeting – *Invite Only*
Time: May 25, 8:30 am – 3:00 pm
Location: Battery Room, SJCC

GAC Board Meeting – *Invite Only*
Time: May 25, 1:00 – 4:00 pm
Location: Harbourside Room, SJCC

GAC Presidents Reception – *Invite Only*
Time: May 25, 5:00 – 6:00 pm
Location: Victoria Room, SJCC

CTG Awards Ceremony
Please join the Canadian Tectonics Group in celebrating this year's award recipients!
Dr. Shawna White - Saint Mary's University
Time: May 26, 11:40 am – 12:00 pm
Location: Bowring 4, SJCC

Geological Association of Canada Luncheon
The awards to be presented include: the Logan Medal, the W.W. Hutchison Medal, the J. Willis Ambrose Medal, the E.R. Ward Neale Medal and Eric Mountjoy Exchange Award
Time: May 26, 12:00 – 1:00 pm
Location: Victoria Room, SJCC
Cost: $75

Plenary: MAC 2026 Emerging Scientist
Patterned by nature: how crystals self-organize through epitaxial nucleation
Dr. Brendan Van Dyck – Associate Professor of Metamorphic Geology
Department of Earth and Environmental Sciences, University of British Columbia Okanagan
Time: May 26, 3:00 – 4:00 pm
Location: Bannerman 3, SJCC

MDD Annual Board Meeting
Time: May 26, 3:40 – 4:20 pm
Location: Harbourside Room, SJCC

Mineralogical Association of Canada Luncheon
The awards to be presented include: the Peacock Medal, the Young Scientist Award, and the Hawley Medal.
Time: May 27, 12:00 – 1:00 pm
Location: Victoria Room, SJCC
Cost: $75

Canadian Sedimentology Research Group Meeting
Awarding the Middleton Medal
Time: May 27, 12:00 – 1:00 pm
Location: Pippy Room, SJCC

Plenary: MDD Howard Street Robinson
Dr. A.E. (Willy) Williams-Jones
Time: May 27, 1:20 – 2:20 pm
Location: Bowring 4, SJCC

Plenary: MDD Harvey Gross Medalist
From Regional to Microscale: Tracing Over 2 Ga of Gold and Critical Metal Deposit Formation Across Québec
Dr. Bertrand Rottier, Université Laval (Canada)
Time: May 27, 3:00 – 4:00 pm
Location: Bowring 4, SJCC

NSERC Information Session
Brief overview of current affairs at NSERC, Discovery Grant (DG) results, and helpful tips when applying for a DG
Tiffany Lancaster, Program Officer for the Geosciences Evaluation Group
Time: May 27, 3:00 - 4:00 pm
Location: Pippy Room, SJCC

GAC MAC Executive Breakfast – *Invite Only*
Time: May 27, 7:00 – 8:00 am
Location: Harbourside Room, SJCC

Plenary: GAC Logan Medalist
Dr. Robert Creaser, Department of Earth and Atmospheric Sciences, University of Alberta
Time: May 28, 11:00 – 12:00 pm
Location: Bowring 4, SJCC

Mineral Deposits Division Luncheon
Time: May 28, 12:00 pm – 1:00 pm
Location: Victoria Room, SJCC
Ticketed event ($80)



Social Events

Plenary: MAC Peacock Medalist
Mineralogy from Atoms to Batholiths
Dr. Lee A. Groat
Time: May 28, 3:00 – 4:00 pm
Location: Bowring 2, SJCC

Social Events

Icebreaker – Welcome Reception
This free event kicks off our conference by bringing attendees together for an evening of conversation, connection, and community. Join colleagues old and new as we set the tone for an engaging week ahead. Each guest will receive one drink ticket (found in the delegate bag), and a selection of hors d'oeuvres will be provided throughout the evening. It's the perfect opportunity to meet fellow participants and spark early discussions. YellowBelly beer with our custom GAC-MAC logo will be available for purchase at the icebreaker.
Time: May 25, 6:00 – 10:00 pm
Location: Main Lobby, SJCC

Cost: Free! Cash bar – one complimentary drink ticket per registered delegate.
Our sponsor for this event is Altius Minerals Corp.

After Hours – YellowBelly Brewery
Not ready to call it a night? Visit YellowBelly Brewery at 288 Water Street. This is an unofficial gathering place for those who would like to keep socializing.
Time: May 25, 10:00 pm – late
Location: YellowBelly Brewery, 288 Water Street (See Social Events Map, page 31).

Student Industry Networking Event
This student-industry networking event is geared specifically towards post-secondary students studying Geoscience. Please join us for a great event including a Wooden Walls signature drink. Each guest will receive **two drink tickets**, and a selection of hors d'oeuvres will be provided throughout the evening.
Time: May 26, 6:00 – 10:00 pm
Location: Wooden Walls Distilling

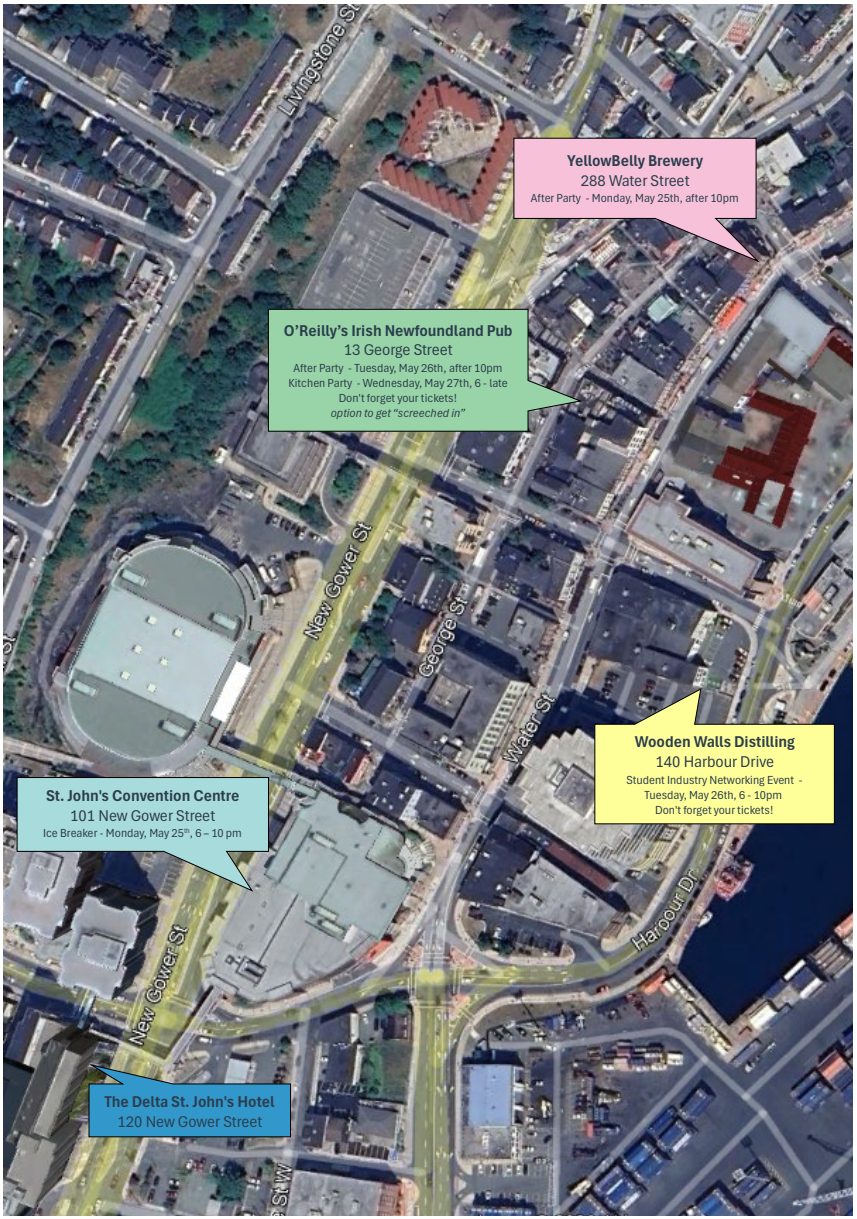
Cost: $50 (professional) $20 (student); cash bar available.
Our sponsor for this event is College of the North Atlantic (CNA)

After Hours – O'Reilly's Newfoundland Pub
Not ready to call it a night? Visit O'Reilly's Newfoundland Pub at 13 George Street. This is an unofficial gathering place for those who would like to keep socializing. George Street is one of the premier entertainment districts in North America, boasting 22 pubs, clubs and bars!
Time: May 26, 10:00 pm – late
Location: O'Reilly's Newfoundland Pub, 13 George St (See Social Events Map, page 31).

Kitchen Party
Join us for this amazing event hosted at O'Reilly's Newfoundland Pub which is sure to give all a real immersion into Newfoundland culture. Attendees have the option to get "screeched in" to become an honorary member of Newfoundland and Labrador. Each guest will receive two drink tickets, and a selection of hors d'oeuvres will be provided throughout the evening. We've created signature drinks featuring Signal Hill lemonade

and Fog vodka to give you a taste of Newfoundland! Our custom labelled YellowBelly beer will also be available for purchase. Live music by The Reels.
Time: May 27, 6:00 pm – 10:00 pm
Location: O'Reilly's Newfoundland Pub

Ticket price (professional) $75 | Student price $75 | Screech-in option (add-on) $25
Our sponsor for this event is Altius Minerals Corp.



Tuesday, May 26th

Morning at a Glance									
Time		Bowring 4		Bowring 2		Bannerman 1		Bannerman 2	
8:20	8:40	SY-03 North Atlantic	Goldie 52	SY-01 Van Staal	Valverde-Vaquero 399 **KEYNOTE**	SS-02 Heart of Gold	Rottier 42 **KEYNOTE**	SS-14 Precambrian sedimentry record	Shawwa 344
8:40	9:00		Foulger 46						Shillito 317
9:00	9:20		Geoffroy 104 **KEYNOTE**		Thiessen 139		Bertauts 122		Arnott 363
9:20	9:40				Ghantous 111		Drouillot 338		Smith 362
9:40	10:00	Coffee							
10:00	10:20	SY-03 North Atlantic	Welford 107	SY-01 Van Staal	Conliffe 327	SS-02 Heart of Gold	Webb 223	SS-14 Precambrian sedimentry record	Ikechukwu 284
10:20	10:40		Fernandez-Viejo 298		Malay 66		Sönmez 60		WITHDRAWN
10:40	11:00		Johns-Buss 65		Scorsolini 198		Haugaard 388		Pehrsson 247 **KEYNOTE**
11:00	11:20		Devries 132		Willner 183		Greenough 287		
11:20	11:40		Peace 177		O'Neill 212				
11:40	12:00	CTG Awards	White		Sandeman 219				
12:00	13:20	Lunch							

Tuesday, May 26th

Morning at a Glance

Time		Bannerman 3		Bannerman 4		Churchill		Pippy	
8:20	8:40	SS-10 Heavy and indicator mineralogy	Belley 11	GS-04 Geopyhsics	Welford 79 **KEYNOTE**	SS-15 Environmental geological record	Hoffman 319		
8:40	9:00		Flemming 372				Goonetilleke 370		
9:00	9:20		Tremblay 51		Arshian 311		Offin 288		
9:20	9:40		Wilton 415		Azad 112		Grierson 243		
9:40	10:00	Coffee							
10:00	10:20	SS-10 Heavy and indicator mineralogy	Girard 277	GS-04 Geopyhsics	Roque 116	SS-28 Geoscience Education and Communication	Dolphin 22 **KEYNOTE**	SS-06 Uranium	Pippy 75
10:20	10:40		Paulen 266		Johnson 41				Fayek 273
10:40	11:00		Coqueiro Sanches 58		Waghorn 70		Voss 148		Wang 268
11:00	11:20		Wilton 414		Leitch 365		Cuthbertson 124		Chi 144
11:20	11:40		Moore 411				Onstad 184		Adlakha 94
11:40	12:00		Lutfi 186						
12:00	13:20	Lunch							

Tuesday, May 26th

Afternoon at a Glance									
Time		Bowring 4		Bowring 2		Bannerman 1		Bannerman 2	
13:20	13:40	SY-03 North Atlantic	Foulger 253	SY-01 Van Staal	van Staal 6 **KEYNOTE**	SS-02 Heart of Gold	McLeish 228	SS-05 Innovative geochronology	Laflamme 345
13:40	14:00		Meyer 234 **KEYNOTE**				Markham 387		McFarlane 366
14:00	14:20				Skipton 170		Ariza-Benavides 202		Godet 57
14:20	14:40		Arnason 136		Hinchey 307		Honsberger 162		
14:40	15:00	Coffee							
15:00	15:20	SY-03 North Atlantic	Ziska 19	SY-01 Van Staal	Zagorevski 352	SS-02 Heart of Gold	Oeur 172	SS-05 Innovative geochronology	Chatterjee 131
15:20	15:40		Anderson 8		van Rooyen 361		Kontak 367		Enkelmann 89
15:40	16:00		Frazer 244		Naulot 330	MDD	Annual Meeting		Scheffler 347
16:00	16:20		Chalmers 145		DeWolfe 24				
16:20	18:00	Poster Sessions							

Tuesday, May 26th

Afternoon at a Glance								
Time		Bannerman 3		Bannerman 4		Churchill		Pippy	
13:20	13:40	SS-13 Quaternary ice sheet	Rice 149	GS-08 Mineralogy and crystallography	Rodriguez Duran 17	SS-29 Communication Practice	Cuthbertson 125	GS-02 Environmental geoscience	Turtle 231
13:40	14:00		Paulen 265		Sánchez-Muñoz 105		Johnson 77		Ziegler 245
14:00	14:20		Sarim 99		Sánchez-Muñoz 102		Cubley 269		Samaradiwakara 321
14:20	14:40						Conroy 133		Lankoande 252
14:40	15:00	Coffee							
15:00	15:20	Plenary	MAC Emerging Scientist Dyck			SS-29 Communication Practice	Hymers 395	GS-02 Environmental geoscience	Phillips 59
15:20	15:40						Leslie 29		Lewis 78
15:40	16:00						Hodge 216		Kerr 185
16:00	16:20								
16:20	18:00	Poster Sessions							

Wednesday, May 27th

Morning at a Glance								
Time		Bowring 4		Bowring 2		Bannerman 1		Bannerman 2
8:20	8:40	SY-03 North Atlantic	McCausland 375	SY-01 Van Staal	Wang 283 **KEYNOTE**	SS-03 Pegmatites	Martins 391 **KEYNOTE**	SS-32 Canada's Amazing Geoparks	Rainbird 420
8:40	9:00		Koptev 165						Dick 196
9:00	9:20		McNutt 135		Schulmann 191		Archibald 61		Rule 110
9:20	9:40		Foulger 424		Llana-Fúnez 334		Groat 379		Grant 194
9:40	10:00	Coffee							
10:00	10:20	SS-21 Large Igneous Provinces	Ernst 305 **KEYNOTE**	SY-01 Van Staal	Li 313	SS-03 Pegmatites	van Hinsberg 294	SS-32Canada's Amazing Geoparks	Grant 373
10:20	10:40				Lin 197		Lussier 358		Stimson 357
10:40	11:00		Bonnell 69		Bethune 349		Alves 230		Kerr 398
11:00	11:20		Larsen 16		Tollefson 86		Cardenas-Vera 140		Schwangler 62
11:20	11:40		Shellnutt 4		McClelland 242				Waldron 68 **KEYNOTE**
11:40	12:00								
12:00	13:20	Lunch							

Wednesday, May 27th

Morning at a Glance									
Time		Bannerman 3		Bannerman 4		Churchill		Pippy	
8:20	8:40	SS-04 Mineral Deposits	Hildebrand 409	SS-26 Grenvillian - Martignole	Gervais 299	GS-03 Geochemistry	Yun 325	SS-16 Carbonates	Dalrymple 394 **KEYNOTE**
8:40	9:00		Ciazela 255 **KEYNOTE**		Bédard 33 **KEYNOTE**		Ortiz-Chaparro 339		
9:00	9:20						Awolayo 386		Pinon 350
9:20	9:40		Thalenhorst 15		Brunelli 138		Hilliard 300		Bradley 304
9:40	10:00	Coffee							
10:00	10:20	SS-04 Mineral Deposits	Hanley 141	SS-26 Grenvillian - Martignole	Harris 71	SS-09 Strategic partnerships	Percival 206	SS-16 Carbonates	Matheson 167
10:20	10:40		Piercey 193		Pingitore 280		Elliott 385		Petersen 227
10:40	11:00		Sati 343		Blereau 272		Deriaz 159		Edinger 109
11:00	11:20		Howes 407		Ersay 129		Williams 2		MacDonald 218
11:20	11:40		Brueckner 402		Strowbridge 261				Poduska 54
11:40	12:00		Boehme 208						
12:00	13:20	Lunch							

Wednesday, May 27th

Afternoon at a Glance									
Time		Bowring 4		Bowring 2		Bannerman 1		Bannerman 2	
13:20	13:40	Plenary	MDD Howard Street Robinson Williams-Jones	SY-02 Linnemann	Murphy 182 **KEYNOTE**	SS-03 Pegmatites	WITHDRAWN Santos 303	SS-18 Methods in palaeontology	Moysiuk 21
13:40	14:00						Smith 364		Snider 13
14:00	14:20				Barr 190		Pedreira Pérez 356		Thompson 382
14:20	14:40				Mills 289		Gomes 263		
14:40	15:00	Coffee							
15:00	15:20	Plenary	MDD Harvey Gross Medalist Rottier	SY-02 Linnemann	Thompson 14	SS-03 Pegmatites	Ngoran 360	SS-18 Methods in palaeontology	Brink 332
15:20	15:40				Alvaro 36		Rahabi 302		Kaczmarska 9
15:40	16:00				Mills 271		Lambiv Dzemua 419		
16:00	16:20				Gómez 418				
16:20	18:00	Poster Sessions							

Wednesday, May 27th

Afternoon at a Glance							
Time		**Bannerman 3**		**Bannerman 4**		**Churchill**	**Pippy**
13:20	13:40	SS-22 Baragar	Scoates 335 **KEYNOTE**	SS-07 Hyperspectral	Ojala 217		
13:40	14:00				Wilton 417		
14:00	14:20		Williamson 146		Kondrasovas 241		
14:20	14:40		Baker 220				
14:40	15:00	Coffee					
15:00	15:20	SS-22 Baragar	El Bilali 310	SS-07 Hyperspectral	Rosener 406		NSERC / Information Session
15:20	15:40		Bédard 35		Skeard 328		
15:40	16:00		Ernst 309				
16:00	16:20		O'Driscoll 425				
16:20	18:00	Poster Sessions					

Thursday, May 28th

Morning at a Glance									
Time		Bowring 4		Bowring 2		Bannerman 1		Bannerman 2	
8:20	8:40	SY-04 Precambrian Earth Systems	Eglington 260 **KEYNOTE**	SY-02 Linnemann	Gärtner 73	SS-01 Alka to peralkaine intrusive	Kjarsgaard 413 **KEYNOTE**	GS-12 Sedimentology and stratigraphy	Bhattacharya 39 **KEYNOTE**
8:40	9:00				Pierce 383				
9:00	9:20		Leung 322		Álvaro 37		Kerr 393		Furlong 381
9:20	9:40		Galley 174		Lowe 181		Finch 422		Durkin 292
9:40	10:00	Coffee							
10:00	10:20	SY-04 Precambrian Earth Systems	Diekrup 336	SY-02 Linnemann	Zieger-Hofmann 93	SS-01 Alka to peralkaine intrusive	Magyarosi 164	GS-12 Sedimentology and stratigraphy	Iturralde 158
10:20	10:40		O'Neil 178 **KEYNOTE**		Boateng-Dwomoh 1		Vasyukova 211		Cunningham 354
10:40	11:00				Collett 31		Hanley 154		Matheson 168
11:00	11:20	Plenary	GAC Logan Medalist Creaser		Gomez 176		Yousefi 200		Dick 195
11:20	11:40				Ovtcharova 215		Kontak 376		Dauphinee 150
11:40	12:00				Narbonne 421				Harris 40
12:00	13:20	Lunch							

Thursday, May 28th

Morning at a Glance								
Time		Bannerman 3		Bannerman 4		Churchill		Pippy	
8:20	8:40	SS-23 Bédard	Wakabayashi 156 **KEYNOTE**	SS-25 Metamorphic petrology	Dyck 267	SS-12 Applied geochemistry	Babechuk 281 **KEYNOTE**		
8:40	9:00				Kinney 128			SS-24 Geo- and thermochron	Pinto 103
9:00	9:20		Tremblay 118		Yakymchuk 151		Amor 203		Skipton 173 **KEYNOTE**
9:20	9:40		Mérit 92		Vanardois 95		Heasman 171		
9:40	10:00	Coffee							
10:00	10:20	SS-23 Bédard	Coleman 291	SS-25 Metamorphic petrology	Lanari 91	SS-12 Applied geochemistry	Bodnar 249	SS-24 Geo- and thermochron	Crook 63
10:20	10:40		Bédard 34		Hartmeier 88		Campbell 323		Therriault 82
10:40	11:00		Santos 224		Musiyachenko 157		Ross 340		Enkelmann 90
11:00	11:20		Brunelli 137		Couëslan 48		Mloszewski 155		Roy 53
11:20	11:40				Moynihan 423		Slater 188		Kim 254
11:40	12:00						Voinot 38		
12:00	13:20	Lunch							

Thursday, May 28th

Afternoon at a Glance								
Time		Bowring 4		Bowring 2		Bannerman 1		Bannerman 2	
13:20	13:40	SY-04 Precambrian Earth Systems	Partin 226 **KEYNOTE**	SY-02 Linnemann	Zieger 43	SS-01 Alka to peralkaine intrusive	Naber 314	GS-06 Igneous and metamorphic geology	Belanger 256
13:40	14:00				Tarkyth 204		Pingitore 279		Kaur 410
14:00	14:20		Wu 83		Mende 346		Martins 392		Crouzal 353
14:20	14:40		He 30		Linnemann 368		Yang 101		Roy 187
14:40	15:00	Coffee							
15:00	15:20	SY-04 Precambrian Earth Systems	Jouvent 320	Plenary	MAC Peacock Medalist Groat	SS-01 Alka to peralkaine intrusive	Chakhmouradian 405		
15:20	15:40		Haugaard 389				Lentz 275		
15:40	16:00		Geoffroy 412						
16:00	16:20		Hinchey 306						
16:20	18:00	Poster Sessions							

Thursday, May 28th

Afternoon at a Glance									
Time		Bannerman 3		Bannerman 4		Churchill		Pippy	
13:20	13:40	SS-23 Bédard	Paz Jaramillo 23	SS-25 Metamorphic petrology	Jamieson 160	GS-01 Economic geology	Groulier 257 **KEYNOTE**	SS-19 Ediacaran and Paleozoic	Hoffman 318
13:40	14:00		Ceuleneer 27		Rehm 134				Martínez-Benítez 87
14:00	14:20		Henry 26		Bendimerad 192		Harris 130		Cuggy 5
14:20	14:40				George 222		Pinet 50		
14:40	15:00	Coffee							
15:00	15:20			SS-25 Metamorphic petrology	Kendrick 276	GS-01 Economic geology	Barrera Cortes 295	SS-19 Ediacaran and Paleozoic	Sproat 189
15:20	15:40				Cox 333		Krampert 119		Jobbins 20
15:40	16:00						Dentelbeck 44		Scott 199
16:00	16:20						Galley 238		
16:20	18:00	Poster Sessions							

TUESDAY, MAY 26

SY-03 The North Atlantic Realm: Evolution, Tectonics and Structure
8:20 - 9:40 - Bowring 4
Chairs: Gillian R. Foulger, Raymond Goldie, Alexander L. Peace, J. Kim Welford

8:20	Raymond Goldie	Welcome to 'The North Atlantic Realm: Evolution, Tectonics and Structure'	52
8:40	Gillian R. Foulger	Crust of the North Atlantic Realm	46
9:00	Laurent Geoffroy	The complex history and nature of the northeast Atlantic **KEYNOTE**	104

SY-01 From ocean opening to terminal collisions: celebrating Cees van Staal's contributions to decoding the tectonic evolution of accretionary orogens
8:20 - 9:40 - Bowring 2
Chairs: Alana M. Hinchey, Alex Zagorevski, Gabriel Santos, Ludovico Scorsolini, Diane Skipton

8:20	P. Valverde-Vaquero	The northern Caribbean arc, Hispanola: an analogue for the Taconic evolution of the Dunnage Zone oceanic island arc complexes? **KEYNOTE**	399
9:00	Eric Thiessen	Metasedimentary lower-crustal xenoliths in Ganderia preserve evidence for Acadian ultrahigh-temperature metamorphism	139
9:20	Sam N. Ghantous	Age and kinematics of Acadian multi-phase deformation, Dover Fault, Newfoundland	111

SS-02 Heart of Gold: the settings and processes of gold deposits
8:20 - 9:40 - Bannerman 1
Chairs: Ian Honsberger, Hamish Sandeman, Crystal Laflamme

8:20	Bertrand Rottier	Mineral textures in orogenic gold systems: Still more to learn **KEYNOTE**	42
9:00	Maxime Bertauts	Polyphase evolution of orogenic gold systems revealed by in situ pyrite fluid inclusions and textures	122
9:20	Valentin Drouillot	Mineralogical and chemical evolution of the alteration haloes of the Triangle orogenic gold deposit	338

SS-14 Precambrian systems gleaned from the sedimentary record
8:20 - 9:40 - Bannerman 2
Chairs: Nabil Shawwa, Camille Partin, Jade Lockie

8:20	Nabil A. Shawwa	Was the third interval of Huronian glaciation global scale? Insights from the sedimentological record of the Gowganda Formation	344
8:40	Anthony Shillito	Deposition of the Paleoproterozoic Loaf Formation, Belcher Group, Canada: Implications for time in the rock record and the Trans-Hudson orogen	317

9:00	Bill Arnott	Testing deep-marine sequence stratigraphic models using the Neoproterozoic Windermere Supergroup turbidite system in western Canada	363
9:20	Richard Smith	From upper to mid slope: hydraulic controls on channel-levee evolution in the Neoproterozoic Isaac Formation, Windermere Supergroup, western Canada	362

SS-10 Heavy minerals and indicator mineralogy: From source to sink
8:20 - 9:40 - Bannerman 3
Chairs: Philippe Belley, Sarah Hashmi, Jessey Rice, Alexandre Voinot, Lyndsay Moore

8:20	Philippe Belley	Provenance of sapphires at Rock Creek (Montana): How heavy mineral analysis solved a 130-year-old mystery	11
8:40	Roberta L. Flemming	MicroXRD and in situ XRD as exploration tools - with emphasis on kimberlite indicator minerals	372
9:00	Jonathan Tremblay	Automated zirconology using scanning electron microscopy (BSE, CL, and EDS) for high-throughput grain selection	51
9:20	Derek Wilton	Using automated SEM (SEM-MLA) techniques to quantify indicator minerals in tills aiding in the discovery of hidden ore deposits in glaciated terrains	415

GS-04 Geophysics
8:20 - 9:40 - Bannerman 4
Chairs: Alison Leitch and Colin Farquharson

8:20	J. Kim Welford	Passive Array for Critical Minerals on the Island of Newfoundland (PACMIN) project **KEYNOTE**	79
9:00	Marzieh Arshian	Integrated magnetic interpretation for depth and geometry analysis of the Harp Lake Intrusive Suite, Labrador	311
9:20	Ayda Azad	Deep learning for seismic fault interpretation with uncertainty information	112

SS-15 Episodes of environmental upheaval in the geological record
8:20 - 9:40 - Churchill
Chairs: Ricardo L Silva, Paul Durkin

8:20	Paul F. Hoffman	On Ice Ages and climate change over three billion years	319
8:40	Muditha Goonetilleke	Hysteresis evidence for non-steady state carbon cycling during the Early and Middle Jurassic	370
9:00	Sasha Offin	How the Late Devonian expansion of forests impacted shallow marine communities	288
9:20	Holly Grierson	Reconstructing oceanic deoxygenation during the Toarcian oceanic anoxic event using thallium isotopes: a regional study	243

SY-03 The North Atlantic Realm: Evolution, Tectonics and Structure
10:00 - 11:40 - Bowring 4
Chairs: Gillian R. Foulger, Raymond Goldie, Alexander L. Peace, J. Kim Welford

10:00	J. Kim Welford	Characterizing continental ribbons, their origins, and their impact on rifting within the southern North Atlantic realm	107
10:20	Gabriela Fernandez-Viejo	The western Bay of Biscay; ASTRACAN project results on the structure and late evolution of a failed Atlantic arm and subduction system	298
10:40	Emily Johns-Buss	New insights on inherited fault reactivation during Mesozoic development of the Newfoundland and West Iberia conjugate rift margins	65
11:00	Justiina T.S. Devries	Tectono-structural framework and evolution of the southwestern Grand Banks, Newfoundland, Canada: Implications for an offshore carbon sequestration feasibility assessment	132
11:20	Alexander Peace	Tithonian rift-related magmatism in Newfoundland: Structural inheritance, timing, and implications for North Atlantic rifting	177

SY-01 From ocean opening to terminal collisions: celebrating Cees van Staal's contributions to decoding the tectonic evolution of accretionary orogens - 10:00 - 12:00 - Bowring 2
Chairs: Alana M. Hinchey, Alex Zagorevski, Gabriel Santos, Ludovico Scorsolini, Diane Skipton

10:00	James Conliffe	The Cinq Cerf Inlier: A fragment of composite Ganderia in southern Newfoundland	327
10:20	Kiersty M. Malay	The petrogenesis of Devonian peraluminous plutons in southwestern Newfoundland	66
10:40	Ludovico G. Scorsolini	From deposition to mantle depths: Neoproterozoic sedimentation and UHP metamorphism in the Baie Verte Margin, Newfoundland, and links to the Grampian terrane	198
11:00	Arne P. Willner	Metamorphic evolution of non-eclogitic assemblages in the lower plate of a collisional wedge at the Baie Verte Line, West Newfoundland, Canada	183
11:20	Maria O'Neill	Ediacaran magmatism in southern Newfoundland, Canada	212
11:40	Hamish A. I. Sandeman	Aeromagnetic, stratigraphic, structural, geochronological and lithogeochemical data question the veracity of the defining characteristics of the Dog Bay Line in northeast Newfoundland	219

SS-02 Heart of Gold: the settings and processes of gold deposits
10:00 - 11:20 - Bannerman 1
Chairs: Ian Honsberger, Hamish Sandeman, Crystal Laflamme

10:00	Shane Webb	Gold mineralization along the Larder Lake-Cadillac Break (Abitibi Greenstone Belt): Constraints on the timing of emplacement and fluid sources	223

10:20	Şafak Utku Sönmez	Temporal constraints on auriferous fluid activity along the Destor-Porcupine Fault Zone, southern Abitibi Greenstone Belt, Canada	60
10:40	Rasmus Haugaard	Electrical resistivity and geochronology of the Hope Bay greenstone belt and Bathurst Block	388
11:00	John D. Greenough	The trace and minor element "fingerprints" of gold from ancient, Al Maraziq mines in Yemen and Middle East gold artifacts encompassing the time of fabled King Solomon and the Queen of Sheba.	287

SS-14 Precambrian systems gleaned from the sedimentary record
10:00 - 11:00 - Bannerman 2
Chairs: Nabil Shawwa, Camille Partin, Jade Lockie

10:00	Chidera V. Ikechukwu	On the post-Gaskiers stratal evolution, redbed sedimentation, and new occurrences of Ediacaran macrofossils from the Musgravetown Supergroup, northwestern Bonavista Peninsula, Avalon Zone, Newfoundland.	284
10:20	WITHDRAWN Sally Pehrsson	Defining the missing margins of the Snowbird Orogen: new detrital geochronology and stratigraphy from Rae and Hearne volcano-sedimentary sequences **KEYNOTE**	247

SS-10 Heavy minerals and indicator mineralogy: From source to sink
10:00 - 12:00 - Bannerman 3
Chairs: Philippe Belley, Sarah Hashmi, Jessey Rice, Alexandre Voinot, Lyndsay Moore

10:00	Réjean Girard	Anomaly thresholds for indicator minerals: From guts to probabilities!	277
10:20	Roger Paulen	Geometry of indicator mineral and till geochemistry dispersal fans from the Brazil Lake lithium-cesium-tantalum pegmatites, southwest Nova Scotia	266
10:40	Willian Valentin Coqueiro Sanches	Trace-element mineral chemistry of bedrock and till from the Cu-PGE Marathon Deposit, northwestern Ontario	58
11:00	Derek Wilton	Long range (ca. 145 km) indicator mineral quantification in till-covered regions; the case of gittinsite down-ice from the Strange Lake REE deposit, Labrador-Quebéc	414
11:20	Lyndsay Moore	Volcanic stratigraphy and pyrite chemistry of the Horne-Quémont volcanogenic massive sulfide system, Abitibi greenstone belt, Québec, Canada	411
11:40	Wasiq Lutfi	Vectoring towards different styles of mineralization in an orogenic gold district using gold grain geochemistry and PLS-DA: Evidence from the Meadowbank district, Nunavut	186

GS-04 Geophysics
10:00 - 11:20 - Bannerman 4
Chairs: Alison Leitch and Colin Farquharson

10:00	Ben Roque	Automation of potential carbon storage reservoir identification using density based semi-supervised machine learning	116
10:20	Alexis Johnson	CO2 storage potential in the Whale and South Whale basins	41
10:40	Kate Waghorn	Characterization of sediment transport systems in the Jeanne d'Arc Basin	70
11:00	Alison M. Leitch	Searching for the White Bird	365

SS-28 Academic Research on Geoscience Education and Communication: De-silo-ing The Literature and Methodologies 10:00 - 11:40 - Churchill
Chairs: Courtney Onstad, B.D. Voss

10:00	Glenn Dolphin	Presenting settled science does not provide the royal road to learning: A critical look at undergraduate geoscience topic sequencing **KEYNOTE**	22
10:40	B.D. Voss	Playing with "Practitioner's Wisdom": an update aimed towards removing barriers to geoscience participation and persistence	148
11:00	Jennifer P. Cuthbertson	Reworking field schools based on geoscience education research	124
11:20	Courtney Onstad	What shapes geoscience communication practice? Perspectives from Canadian professionals	184

SS-06 The Next Wave of Yellowcake: Exploring Untapped Uranium Resources 10:00 - 11:40 - Pippy
Chairs: Erin Adlakha, Mostafa Fayek, Guoxiang Chi

10:00	Ryan Pippy	Mineral paragenesis and implications for timing of mineralization at the Lac Cinquante U deposit, Nunavut	75
10:20	Mostafa Fayek	Are precursor uranium deposits necessary for the formation of high-grade unconformity-related uranium deposits?	273
10:40	Yumeng Wang	Hyperacidic oxidizing brines as a key control on the formation of world-class, high-grade unconformity-related uranium deposits in the Athabasca Basin (Canada)	268
11:00	Guoxiang Chi	A mineralogical and geochemical study of "worm rocks" in unconformity-related uranium deposits in the Athabasca Basin and implications for ore genesis	144
11:20	Erin Adlakha	Revisiting the uranium metallogenesis of the eastern Appalachians: New perspectives on old data from Nova Scotia, Canada	94

SY-03 ***The North Atlantic Realm: Evolution, Tectonics and Structure***
13:20 – 14:40 - Bowring 4
Chairs: Gillian R. Foulger, Raymond Goldie, Alexander L. Peace, J. Kim Welford

13:20	Gillian R. Foulger	Crustal structure of the Greenland-Iceland-Faroe Ridge	253
13:40	Romain Meyer	Peraluminous melts signal crustal anatexis in the North Atlantic Realm **KEYNOTE**	234
14:20	Knutur Arnason	The enigmatic deep conductive layer in the Iceland crust, electromagnetics complementary to seismics	136

SY-01 ***From ocean opening to terminal collisions: celebrating Cees van Staal's contributions to decoding the tectonic evolution of accretionary orogens***
13:20 – 14:40 - Bowring 2
Chairs: Alana M. Hinchey, Alex Zagorevski, Gabriel Santos, Ludovico Scorsolini, Diane Skipton

13:20	Cees van Staal	Musings concerning defining orogenies and the use of Wilson cycles **KEYNOTE**	6
14:00	Diane Skipton	Investigating Appalachian tectonic reworking of Proterozoic basement in the Long Range Inlier, western Newfoundland	170
14:20	Alana M. Hinchey	Reassessing the age and tectonic affinity of metasedimentary sequences in the Long Range Inlier, Western Newfoundland	307

SS-02 ***Heart of Gold: the settings and processes of gold deposits***
13:20 – 14:40 - Bannerman 1
Chairs: Ian Honsberger, Hamish Sandeman, Crystal Laflamme

13:20	Duncan F. McLeish	The electrochemical flocculation of colloidal gold by semiconductive p-type pyrite: a novel ore forming mechanism for bonanza-type hydrothermal gold deposits	228
13:40	Keaton Markham	Deciphering the post-Grenvillian geological history in the Long Range Inlier, West Newfoundland: implications on gold mineralization	387
14:00	Gabriel Ariza-Benavides	The Whisker Valley Au-Te prospect: An alkalic-type epithermal gold prospect in the Baie Verte Peninsula, Newfoundland, Canada	202
14:20	Ian W. Honsberger	The gold district of east-central Newfoundland: geology, structure, and the evolution of a basin	162

SS-05 ***Innovative geochronology focused on ore system evolution and orogenesis***
13:20 – 14:20 - Bannerman 2
Chairs: Tania Martins, Christopher R. M. McFarlane, Dawn Kellett, Jamie Cutts

13:20	Crystal Laflamme	The timing of orogenic gold emplacement constrained by xenotime geochronology: developments and future directions	345
13:40	Chris McFarlane	A multi-chronometer geochronological framework for metamorphism and magmatism in the Bird River Greenstone Belt, Manitoba	366

14:00	Antoine Godet	Duration of Neoarchean S-type magmatism: implications for crustal evolution and rare metal pegmatite formation	57

SS-13 From the ice sheet core to the ice sheet shore: updates on Quaternary ice sheet investigations
13:20 – 14:20 - Bannerman 3
Chairs: Jessey Rice, Andrea Marich, Jennifer Organ, Sarah Hashmi

13:20	Jessey Rice	Timing and geometry of Laurentide Ice Sheet retreat along the Labrador coast	149
13:40	Roger Paulen	Microsedimentological models applied to subglacial till formation and mineral dispersal trains	265
14:00	Muhammad Sarim	Quaternary reorganization of the Indonesian Throughflow and its influence on regional sea level and monsoon dymanics	99

GS-08 Mineralogy and crystallography
13:20 – 14:20 - Bannerman 4
Chairs: Philippe Belley

13:20	Ivan Rodriguez Duran	Advances in quantitative X-ray diffraction for mineralogical fingerprinting and domain classification in complex ore systems	17
13:40	Luis Sánchez-Muñoz	Nuclear magnetic resonance mineralogy of plagioclases	105
14:00	Luis Sánchez-Muñoz	Mineral features of labradorite from Nain, Labrador (Canada)	102

SS-29 Geoscience Education and Communication Practice: What works? What's new
13:20 – 14:40 - Churchill
Chairs: Lesley Hymers, Beth McLarty Halfkenny

13:20	Jennifer P. Cuthbertson	Towards truth and reconciliation through communication: Description of a new course for geo- and non-geology majors	125
13:40	Alexis Johnson	Building geological maps and models in Minecraft for use in early education	77
14:00	Joel F. Cubley	Yukon virtual geology: Digital field experiences in Canada's North	269
14:20	Tara Conroy	Building collections and community through nature exchange programs	133

GS-02 Environmental geoscience
13:20 – 14:40 - Pippy
Chairs: Samantha Turtle, Kaitlyn Kerr

13:20	Samantha Turtle	Tracing plant, fungal, and bacterial inputs to inform boreal forest soil climate feedbacks	231
13:40	Susan E. Ziegler	Hydrologic timing matters: How climate change may impact soil carbon mobilization and stores in humid boreal forest landscapes	245

14:00	Sisara Samaradiwakara	Topographically controlled deposition and mobility of metal contaminants around a Pb smelter	321
14:20	Faridah Alexandra Lankoande	Geochemical stability assessment of weathered acid-generating tailings	252

SY-03 The North Atlantic Realm: Evolution, Tectonics and Structure
15:00 - 16:20 - Bowring 4
Chairs: Gillian R. Foulger, Raymond Goldie, Alexander L. Peace, J. Kim Welford

15:00	Heri Ziska	Variations in geochemical signatures and volcanic intensity controlled by converging rifts crossing variably stretched continental crust; Faroe Islands, NE Atlantic	19
15:20	Melissa Anderson	A remote-predictive geological mapping approach to unraveling the recent tectono-magmatic evolution of the southern Reykjanes Ridge, North Atlantic	8
15:40	William Frazer	Thick underplating and the buoyancy of the Bermuda swell	244
16:00	James Chalmers	Stratigraphic evidence for rising plumes - around the North Atlantic in the Maastrichtian.	145

SY-01 From ocean opening to terminal collisions: celebrating Cees van Staal's contributions to decoding the tectonic evolution of accretionary orogens
15:00 - 16:20 - Bowring 2
Chairs: Alana M. Hinchey, Alex Zagorevski, Gabriel Santos, Ludovico Scorsolini, Diane Skipton

15:00	Alex Zagorevski	Evaluating continuity of subduction in the Iapetus	352
15:20	Deanne van Rooyen	Transpressional and transtensional cryptic sutures and terrane boundaries in the Nova Scotia segment of the Appalachian orogen.	361
15:40	Rémi Naulot	Nature and timing of Siluro-Devonian magmatism and copper mineralization in the Gaspé Peninsula (Québec Appalachians)	330
16:00	Michelle DeWolfe	The Penobscot Arc in Maine: Evidence of incipient rifting, backarc development and VMS formation within the Cambrian Castine Volcanics	24

SS-02 Heart of Gold: the settings and processes of gold deposits
15:00 - 15:40 - Bannerman 1
Chairs: Ian Honsberger, Hamish Sandeman, Crystal Laflamme

15:00	Arielle Oeur	Regional metamorphism of clastic sedimentary and gabbroic host rocks to orogenic gold mineralization, east-central Newfoundland	172
15:20	Daniel J. Kontak	An amphibolite-facies hosted intrusion-associated gold setting recording retrogression and rapid exhumation in the Meguma terrane, Nova Scotia	367

SS-05 Innovative geochronology focused on ore system evolution and orogenesis
15:00 - 16:00 - Bannerman 2
Chairs: Tania Martins, Christopher R. M. McFarlane, Dawn Kellett, Jamie Cutts

15:00	Sreejita Chatterjee	Petrology and geochronology of ore zone assemblages from the Niobec Mine, St. Honoré carbonatite, Quebec	131
15:20	Eva Enkelmann	Cenozoic exhumation and fault reactivation in the southern Canadian Cordillera	89
15:40	Johannes Scheffler	Reevaluating the age and longevity of seafloor hydrothermal systems	347

SS-29 Geoscience Education and Communication Practice: What works? What's new
15:00 - 16:00 - Churchill
Chairs: Lesley Hymers, Beth McLarty Halfkenny

15:00	Lesley Hymers	The Science Communication Career Test Drive Program - developing a talent pipeline of science communication professionals.	395
15:20	Louise Leslie	Designing a rock identification mat for multiple audiences	29
15:40	Joanna Hodge	Geologists in national parks: Geoscience outreach at Pukaskwa and Fundy National Parks.	216

GS-02 Environmental geoscience
15:00 - 16:00 - Pippy
Chairs: Samantha Turtle, Kaitlyn Kerr

15:00	Logan Phillips	Investigating zero-valent iron and biochar for decreasing the mobility of arsenic and mercury in a gold-mine-tailings-impacted wetland	59
15:20	David M. Lewis	Long-term effectiveness of reactive amendment treatment for lowering mobile arsenic and methylmercury in legacy tailing-impacted wetland sediments under changing redox conditions	78
15:40	Kaitlyn Kerr	Investigating downstream contaminant transport from a legacy tailing impacted wetland site and the sediment erosion protection effect of a thin reactive amendment and protective capping (TRaP) application	185

WEDNESDAY, MAY 27

SY-03 The North Atlantic Realm: Evolution, Tectonics and Structure
8:20 - 9:40 - Bowring 4
Chairs: Gillian R. Foulger, Raymond Goldie, Alexander L. Peace, J. Kim Welford

8:20	Phil J.A. McCausland	New paleomagnetic results from the 148 Ma Notre Dame Bay Magmatic Province, Newfoundland, indicate moderate Jurassic apparent polar wander for North America	375
8:40	Egor Koptev	Mesozoic intraplate magmatism of the Superior province reflects Arctic - North Atlantic tectonic evolution	165
9:00	Stephen R. McNutt	Comparison of earthquake swarms in volcanic and tectonic areas of the crust around the western North Atlantic margin	135
9:20	Gillian Foulger	The North Atlantic Realm - Discussion & future work	424

SY-01 From ocean opening to terminal collisions: celebrating Cees van Staal's contributions to decoding the tectonic evolution of accretionary orogens - 8:20 - 9:40 - Bowring 2
Chairs: Alana M. Hinchey, Alex Zagorevski, Gabriel Santos, Ludovico Scorsolini, Diane Skipton

8:20	Lijun Wang	A multi-mineral detrital U-Pb and trace element provenance investigation of the Taconic, Salinic and Acadian foredeeps in the northern Appalachians of Newfoundland **KEYNOTE**	283
9:00	Karel Schulmann	The role of interior-ocean Wilson cycles in Pangea assembly: Implications for supercontinent formation	191
9:20	Sergio Llana-Fúnez	Upper crustal signature using ambient noise tomography in polyorogenic NW Iberian crust (Variscan-Alpine)	334

SS-03 Pegmatites: Origins, Geological Archive, Strategic Resources and their Case Studies
8:20 - 9:40 - Bannerman 1
Chairs: Rocío Pedreira Pérez, Stéphane De Souza, Kiersty Malay, Vincent van Hinsberger, Giles Ngoran

8:20	Tania Martins	Pegmatite petrogenesis, a retrospect and looking into future research avenues **KEYNOTE**	391
9:00	Donnelly B. Archibald	Recent discoveries of lithium-cesium-tantalum (LCT) pegmatite dykes in the Canadian Appalachians	61
9:20	Lee A. Groat	Origin of the Revelstoke Pegmatite Field in British Columbia, Canada	379

SS-32 Canada's Amazing Geoparks
8:20 - 9:40 - Bannerman 2
Chairs: Robert Rainbird, John Waldron, Eileen van der Flier Keller, John Calder, Godfrey Nowlan, Andrew Kerr

8:20	Rob Rainbird	Introduction: The Canadian Geoparks Network	420
8:40	Daniel Dick	A general framework for mitigating visitor impacts at geoparks	196
9:00	Roy Rule	Creating a hub for research, industry, education, and culture in Tumbler Ridge UNESCO Global Geopark, British Columbia	110
9:20	Caleb Grant	Building capacity through collaboration: empowering local businesses in the Cliffs of Fundy UNESCO Global Geopark	194

SS-04 Mineralization, Remobilisation and Supergene Processes impacting Grade and Tonnage of Mineral Deposits
8:20 - 9:40 - Bannerman 3
Chairs: Stefanie Brueckner, Stephen Piercey, Jacob Hanley, Crystal Laflamme

8:20	Alan Hildebrand	Tungsten and tin producing districts geographically correlate with marine sedimentary Phosphorite-containing stratigraphy	409
8:40	Jakub Ciazela	A plate-tectonic framework for predicting porphyry copper deposit formation **KEYNOTE**	255
9:20	Henrik Thalenhorst	Supergene enrichment at the Teghout Cu-Mo porphyry deposit, Armenia: did it make an economic difference?	15

SS-26 Grenvillian-age orogens and the evolution of Rodinia: a session in honour of Jacques Martignole
8:20 - 9:40 - Bannerman 4
Chairs: Aphrodite Indares, Azam Soltanmohammadi, Susan Strowbridge

8:20	Félix Gervais	Jacques Martignole, or the state-of-the-art approach to understanding the Grenville Orogen	299
8:40	Jean H. Bédard	The Proterozoic anorthosite problem revisited **KEYNOTE**	33
9:20	Daniele Brunelli	Nelsonitic melts beyond continents: evidence from the oceanic lower crust	138

GS-03 Geochemistry
8:20 - 9:40 - Churchill
Chairs: Jia-wei (Louis) Yun, Miguel Ortiz-Chaparro, Sasha Offin

8:20	Jia-wei Louis Yun	A geochemical survey of clay-sized fluvial sediment eroded from contrasting lithologic terranes of Newfoundland	325
8:40	Miguel Ortiz-Chaparro	Paleoenvironment of late Neoproterozoic volcanic and hydrothermal activity in the Avalon Zone of Newfoundland: insights from volcanic-sedimentary interactions	339

9:00	Adedapo N. Awolayo	Evaluation of the North Mountain Basalt for carbon mineralization in Atlantic Canada	386
9:20	John Michael Hilliard	Comparative geochemical and facies analysis of sediment cores from Coronation and North Pangnirtung fjords, Baffin Island - How deglaciation may affect ecosystem services related to carbon sequestration	300

SS-16 Carbonates: They're hot and they're cold, they're young and they're old, they're beige and they're greyed, they're born and not made
8:20 - 9:40 - Pippy
Chairs: Hilary Corlett, Nikole Bingham-Koslowski, Evan Edinger

8:20	Robert W. Dalrymple	What can the modern tell us about facies stacking patterns in peritidal carbonate successions **KEYNOTE**	394
9:00	Héloïse Pinon	Refining the timing of the Late Ordovician sediment deposition in southern Québec and Ontario using K-bentonite tephrochronology	350
9:20	George Bradley	When halite freezes time: Preserved diagenesis of the Dawson Bay Formation	304

SS-21 Large igneous provinces: the bigger picture
10:00 - 11:40 - Bowring 4
Chairs: Steven Denyszyn, J. Gregory Shellnutt

10:00	Richard E. Ernst	Frontiers in Large Igneous Province (LIP) research **KEYNOTE**	305
10:40	Jayme Bonnell	Expanding a Paleoarchean Large Igneous Province: Geochemistry and geochronology of the Kelly LIP, East Pilbara	69
11:00	Rune B. Larsen	The Seiland Igneous Province, Norway: Role of volatiles in the emplacement of ultrabasic fertile melts and the formation and disruption of deep-crustal ore deposits	16
11:20	J. Gregory Shellnutt	Zircon geochronology and Hf isotopes of the silicic Panjal Traps: a window into the Himalayan basement rocks of the Pangea Megasequence	4

SY-01 From ocean opening to terminal collisions: celebrating Cees van Staal's contributions to decoding the tectonic evolution of accretionary orogens - 10:00 - 11:40 - Bowring 2
Chairs: Alana M. Hinchey, Alex Zagorevski, Gabriel Santos, Ludovico Scorsolini, Diane Skipton

10:00	Wenxuan Li	Tectono-metamorphic and magmatic evolution during Permian terrane accretion along a ductile shear zone, Southern Beishan Orogenic Collage, Central Asian Orogenic Belt, NW China	313
10:20	Shoufa Lin	Geological evolution of the southern Beishan orogen, Central Asian Orogenic Belt (NW China): results of a collaborative mapping project with Cees van Staal	197
10:40	Kathryn M. Bethune	Tectonic evolution of the southern Rae craton: crustal growth by accretionary processes from the late Neoarchean through early-middle Paleoproterozoic	349

11:00	Kyle Tollefson	Stepwise metamorphism and accretion of UHP rocks in the northern Canadian Cordillera?	86
11:20	William C. McClelland	The regional significance of the Porcupine fault system, Yukon and Alaska	242

SS-03 Pegmatites: Origins, Geological Archive, Strategic Resources and their Case Studies
10:00- 11:20 - Bannerman 1
Chairs: Rocío Pedreira Pérez, Stéphane De Souza, Kiersty Malay, Vincent van Hinsberger, Giles Ngoran

10:00	Vincent van Hinsberg	Elucidating tourmaline trace element systematics to understand Li-pegmatite systems.	294
10:20	Aaron J. Lussier	Tourmaline from the Li-bearing Leduc pegmatite in the Grenville Province, Mont Laurier Terrane - a complex post-crystallization history	358
10:40	Pedro Alves	Two distinct events of pegmatite formation in the Lac Jacques pegmatite swarm, central Grenville Province (Lac-Saint-Jean region, Québec): Implications for rare-metal mineralization (REE-Nb-Th-U) in Grenvillian anatectic pegmatites	230
11:00	Alan Cardenas-Vera	Comparison of petrochronological characteristics from the P-Patch and Karpinka Lake pegmatites, northern Saskatchewan: what can they tell us about U and REE mineralization in the region?	140

SS-32 Canada's Amazing Geoparks
10:00 - 12:00 - Bannerman 2
Chairs: Robert Rainbird, John Waldron, Eileen van der Flier Keller, John Calder, Godfrey Nowlan, Andrew Kerr

10:00	Caleb J. Grant	New fossil discoveries from the Carboniferous Parrsboro Formation at McKay Head, Nova Scotia: revisiting a historic fossil site in the Cliffs of Fundy UNESCO Global Geopark	373
10:20	Matthew Stimson	Filling in "Romer's Gap". A stroll through geological time from 350 million years ago in the Stonehammer UNESCO Global Geopark: The roll New Brunswick fossil footprints play in our understanding of the evolution of vertebrate life on land	357
10:40	Andrew Kerr	Discovery GeoPark, eastern Newfoundland: A complex geological storyline explained for non-specialists	398
11:00	Martin Schwangler	Making a geological map for the Cabox Aspiring Geopark, Newfoundland: Merging disjointed source maps	62
11:20	John W.F. Waldron	Cabox Aspiring Geopark, western Newfoundland: an unparalleled opportunity to bring tectonics to a general audience **KEYNOTE**	68

SS-04 Mineralization, Remobilisation and Supergene Processes impacting Grade and Tonnage of Mineral Deposits
10:00 - 12:00 Bannerman 3
Chairs: Stefanie Brueckner, Stephen Piercey, Jacob Hanley, Crystal Laflamme

10:00	Jacob Hanley	Epithermal Au-Cu-As-Sb-Hg mineralization in the Northeast Cobequid Highlands, Nova Scotia: evidence for incursion of evaporated seawater into an active hydrothermal mineralizing system in the Late Devonian-Early Carboniferous	141
10:20	Stephen Piercey	Controls on grade and tonnage in volcanogenic massive sulfide (VMS) deposits	193
10:40	Manju Sati	Preliminary mineralogy and trace-element systematics of ore lenses at the Lalor VMS deposit Manitoba, Canada: implications for ore-forming processes	343
11:00	Allison C. Howes	Thallium and lead isotope systematics of exhalative iron formations from the Bathurst Mining Camp, NB	407
11:20	Stefanie M. Brueckner	Characterizing the bimodal-mafic host rocks of (semi-)massive sulfide mineralization at the Neo-Archean Homer Lake prospect, Northwest Territories	402
11:40	Wieland H. Boehme	Timing of gold mineralization at the LP deformation zone of the Archean Great Bear deposit: metamorphosed vs. metamorphogenic	208

SS-26 Grenvillian-age orogens and the evolution of Rodinia: a session in honour of Jacques Martignole
10:00 - 11:40 - Bannerman 4
Chairs: Aphrodite Indares, Azam Soltanmohammadi, Susan Strowbridge

10:00	Lyal B. Harris	Tectonic implications of upper mantle and mid- to deep-crustal features in the Grenville Province portrayed in satellite gravity and aeromagnetic depth slices	71
10:20	Federico Pingitore	Apatite-titanite-zircon geochronology and magmatic sources of the Rivière Noire Intrusive Suite: new insights on the pre-Grenvillian magmatism from REE-rich ultramafic rocks in the Central Grenville Province	280
10:40	Eleanore Blereau	Large-scale zircon geochronology of Western Grenville metasedimentary rocks - a synthesis	272
11:00	Lütfi Ersay	Metamorphic history of the Matawinie graphite deposit, southern Grenville Province, Quebec	129
11:20	Susan Strowbridge	Tonian magmatism in the Grenville Province: exploring links to the opening of the Asgard Sea	261

SS-09 How strategic partnerships are key for success in critical minerals research
10:00 - 11:40 - Churchill
Chairs: Camille Partin, Tania Martins, Eimear Deady

10:00	Jeanne B. Percival	Draft exploration guide using reflectance spectroscopy for critical minerals	206

10:20	Holly A.L. Elliott	Geomodels and exploration indicators for poorly understood REE pegmatites in Saskatchewan	385
10:40	Julie Deriaz	CanmetMINING's Mining Value from Waste program: Advancing tailings characterization, resource recovery, and driving a national collaborative approach to tailings reprocessing	159
11:00	Henry Williams	Helium production and exploration in Alberta - potential for expansion and secure supply of a Canadian critical mineral	2

SS-16 Carbonates: They're hot and they're cold, they're young and they're old, they're beige and they're greyed, they're born and not made
10:00 - 11:40 - Pippy
Chairs: Hilary Corlett, Nikole Bingham-Koslowski, Evan Edinger

10:00	Edward (Ted) J. Matheson	A Paleozoic microbial sea in the basal Windsor Group of Cape Breton	167
10:20	Emma Petersen	Investigating carbonate precipitation in ultramafic-hosted springs for CO2 storage	227
10:40	Evan Edinger	Ocean acidification in the Canadian Arctic and northern Labrador Sea and implications for arctic marine life in space and time	109
11:00	Kathryn MacDonald	Benthic foraminiferal indices indicate recent shifts in nutrient levels along Abu Dhabi's coastline	218
11:20	Kristin M. Poduska	Mitigating ocean acidification with alkalinity: roles for mineral chemistry	54

SY-02 Evolving perspectives on Neoproterozoic-Palaeozoic reconstructions of northern Gondwana, Baltica, and adjacent areas: A celebration of the career of Ulf Linnemann
13:20 - 14:40 - Bowring
Chairs: Andrea Mills, Sandra Barr, Andreas Gärtner, Susan Johnson, Deanne van Rooyen, Chris White

13:20	J. Brendan Murphy	Neoproterozoic evolution of Avalonia and related terranes: a geodynamic approach **KEYNOTE**	182
14:00	Sandra M. Barr	Reconstructing West Avalonia in the northern Appalachian orogen	190
14:20	Andrea Mills	New insights into the geology of the Burin Peninsula, Newfoundland, and implications for correlation with Avalonian terrane assemblages in the Canadian Maritimes	271

SS-03 Pegmatites: Origins, Geological Archive, Strategic Resources and their Case Studies
13:20 - 14:40 - Bannerman 1
Chairs: Rocío Pedreira Pérez, Stéphane De Souza, Kiersty Malay, Vincent van Hinsberger, Giles Ngoran

13:20	WITHDRAWN Ana Cláudia Santos	Advances in understanding REE-bearing pegmatites across the Wollaston Domain, Northern Saskatchewan	303

13:40	Darren L. Smith	The Shaakichiuwaanaan LCT pegmatite deposit - a geological overview	364
14:00	Rocío Pedreira Pérez	Tempos of LCT pegmatite emplacement at the Galaxy deposit (Superior Province, Quebec) as determined by structural analysis and CA-LA-ICP-MS zircon geochronology	356
14:20	Juliette Gomes	A new tool for locating Li-reserves: high helium isotope anomalies from 6Li	263

SS-18 Methods in palaeontology
13:20 - 14:20 - Bannerman 2
Chairs: Melina Jobbins

13:20	Joseph Moysiuk	Shedding new light on the Ordovician Cat Head Lagerstätte (Manitoba) through Indigenous community-led field work	21
13:40	Urgon J.T. Snider	Small carbonaceous fossils from the Ordovician carbonate platforms in northern Manitoba	13
14:00	Mira Thompson	Construction of a new biostratigraphic framework for megaherbivorous dinosaurs for the Dinosaur Park Formation using bentonite correlation and detailed fluvial stratigraphy	382

SS-22 Exploring the Magmatic Framework of Continental Large Igneous Provinces and their Ni-Cu-PGE Prospectivity: A Special Session Honouring the Contributions of W.R.A. Baragar
13:20 - 14:20
Chairs: Marie-Claude Williamson, Brian O'Driscoll, Simon Jowitt

13:20	James S. Scoates	Perspectives on the magmatic framework of the Mackenzie Large Igneous Province **KEYNOTE**	335
14:00	Marie-Claude Williamson	Revisiting the origin, mode of emplacement and economic potential of the Coppermine River Group, Mackenzie Large Igneous Province (Nunavut, Canada)	146
14:20	Don R. Baker	Low sulphur concentrations in the Mackenzie Dykes and Coppermine River basalts based upon sulphur in clinopyroxene	220

SS-07 Hyperspectral Analysis of Geological Materials – Shining light on an exciting new technology for mineral identification
13:20 - 14:20 Bannerman 4
Chairs: Derek Wilton

13:20	V. Juhani Ojala	Application of hyperspectral drill core scanning to map alteration zones: Example from the Helmi gold deposit, the Central Lapland Greenstone Belt, Finland	217
13:40	Derek Wilton	Hyperspectral scanning of drill core from the Strange Lake deposit, Labrador: the Nd absorption band as a proxy for REE mineralization	417
14:00	Halina Kondrasovas	Multi-dataset integration of hyperspectral core scanning	241

SY-02 Evolving perspectives on Neoproterozoic-Palaeozoic reconstructions of northern Gondwana, Baltica, and adjacent areas: A celebration of the career of Ulf Linnemann
15:00 - 16:20- Bowring 2
Chairs: Andrea Mills, Sandra Barr, Andreas Gärtner, Susan Johnson, Deanne van Rooyen, Chris White

15:00	Margaret D. Thompson	Tectonostratigraphy of southeastern New England, USA: Affinities within and beyond West Avalonia	14
15:20	J. Javier Álvaro	The Avalonian arc-to-rift transition hidden in Fortune Bay, Newfoundland	36
15:40	Andrea Mills	A tale of three basins: summary of the geological evolution of the Bonavista Peninsula, Avalon Zone, Newfoundland	289
16:00	Nicolas Gómez	Sediment provenance during the Gaskiers Glaciation (Newfoundland): Insights from multi-proxy detrital U-Pb geochronology	418

SS-03 Pegmatites: Origins, Geological Archive, Strategic Resources and their Case Studies
15:00 - 16:00 - Bannerman 1
Chairs: Rocío Pedreira Pérez, Stéphane De Souza, Kiersty Malay, Vincent van Hinsberger, Giles Ngoran

15:00	Gilles Ngoran	Gamma-ray spectrometry and its application to pegmatite prospecting: case study of the Yellowknife and Aylmer Lake pegmatite fields, Slave Craton Northwest Territories, Canada	360
15:20	ZaneAldeen Rahabi	Re-equilibration of pollucite at the Tanco pegmatite, southeastern Manitoba: insights from K-feldspar inclusions and pollucite-quartz symplectites	302
15:40	Gideon Lambiv Dzemua	The Slave Province LCT pegmatites: Occurrence and rare metals mineralization	419

SS-18 Methods in palaeontology
15:00 - 15:40 - Bannerman 2
Chairs: Melina Jobbins

15:00	Kirstin Brink	Pathologies and colour banding in Cretaceous marine reptile teeth	332
15:20	Irena Kaczmarska	New insights into diversity of the pennate diatoms from the Late Cretaceous Central Arctic Ocean	9

SS-22 Exploring the Magmatic Framework of Continental Large Igneous Provinces and their Ni-Cu-PGE Prospectivity: A Special Session Honouring the Contributions of W.R.A. Baragar
13:20 - 14:20 - Bannerman 3
Chairs: Marie-Claude Williamson, Brian O'Driscoll, Simon Jowitt

15:00	Hafida El Bilali	Mineralized chonolith conduits: Insights from Venusian sinuous rilles as potential analogues	310

15:20	Jean H. Bédard	The Neoproterozoic Natkusiak flood basalts and related Franklin Sills, Victoria Island, Arctic Canada	35
15:40	Richard E. Ernst	Novel exploration strategies for a wide range of commodity types (including orthomagmatic, hydrothermal, sediment-hosted, orogenic/subduction related) using the plumes/LIPs paradigm	309
16:00	Brian O'Driscoll	Chromitite petrogenesis in the Muskox Layered Intrusion, Canada	425

SS-07 Hyperspectral Analysis of Geological Materials – Shining light on an exciting new technology for mineral identification
15:00 - 15:40 Bannerman 4
Chairs: Derek Wilton

15:00	Michel Rosener	Design and automated detection of multimodal calibration targets for drill core imaging spectrometry	406
15:20	Janelle Skeard	Building spectral capacity: Workforce and regional development implications of hyperspectral imaging in mineral exploration	328

THURSDAY, MAY 28

SY-04 Precambrian Earth Systems: Crustal Growth, Climate Shifts, and Biogeochemical Cycles
8:20 - 9:40 - Bowring 4
Chairs: Alana Hinchey, David Diekrup, Sally Pehrson, Antoin Godet, Brendan Dyck

8:20	Bruce Eglington	Visualisation and constraints on palaeo-evolution of Earth systems: including a call for improved compilation of geoscience information **KEYNOTE**	260
9:00	Eunice Chit Yan Leung	How to build continental crust: Tracing the emplacement of Archean TTG gneisses using field relationships and microstructural signatures	322
9:20	Christopher Galley	Mapping an Archean Moho, analysis of the Superior Province's "tectonic scars" as resolved through gravity modelling	174

SY-02 Evolving perspectives on Neoproterozoic-Palaeozoic reconstructions of northern Gondwana, Baltica, and adjacent areas: A celebration of the career of Ulf Linnemann
8:20 - 9:40 - Bowring 2
Chairs: Andrea Mills, Sandra Barr, Andreas Gärtner, Susan Johnson, Deanne van Rooyen, Chris White

8:20	Andreas Gärtner	Potential origins and Neoproterozoic-Palaeozoic palaeogeography of some peri-Gondwana terranes	73
8:40	James Pierce	Paleogeographic constraints on West Africa during the late Ediacaran: Do you have a moment to talk about GAD?	383

9:00	J. Javier Álvaro	The Cadomian accretionary orogen in the Iberian Peninsula	37
9:20	David Lowe	A "sed-strat" perspective on West Avalonian climate conformity and tectonic divergence from the Gaskiers Glaciation to the Avalonian orogeny	181

SS-01 Alkaline to peralkaline intrusive, subvolcanic, and volcanic magmatic systems: analysis of sources to mineralizing processes
8:20 - 9:40 - Bannerman 1
Chairs: David Lentz, Zsuzsanna Magyarosi, Anton Chakhmouradian

8:20	Bruce Kjarsgaard	Carbonatites: magmas, melts, fluids, and mineralization **KEYNOTE**	413
9:00	Andrew Kerr	The other side of Strange Lake: Historical aspects and future considerations	393
9:20	Adrian Finch	Rare Earth Mobilisation in Roof Zones of Alkaline Igneous Intrusions	422

GS-12 Sedimentology and stratigraphy
8:20 - 9:40 - Bannerman 2
Chairs: David Lowe, Brette Harris, Noah Slaney

8:20	Janok P. Bhattacharya	Distinguishing tectonic versus eustatic controls on high frequency (sub million year) stratigraphic sequences in the Cretaceous foreland basins of North America **KEYNOTE**	39
9:00	Carolyn M. Furlong	Paleoenvironmental reconstruction of an arid coastline of western Pangea: Case study of arid deltaic systems from the Lower Triassic Montney Formation, Alberta, Canada	381
9:20	Paul Durkin	Paleoenvironmental reconstructions of Late Cretaceous rivers within a tephrostratigraphic framework, Dinosaur Park Formation, Alberta	292

SS-23 Tracing the Lifecycle of Oceanic Crust and Ophiolites: From Formation to Subduction — A Session in Honour of Jean H. Bédard
8:20 - 9:40 - Bannerman 3
Chairs: Azam Soltanmohammadi, Mark Coleman, Gabriel Dos Santos, Alana Hinchey, Brian O'Driscoll

8:20	John Wakabayashi	Formational and emplacement environments of ophiolites and their importance in relating ophiolites to orogenic processes **KEYNOTE**	156
9:00	Alain Tremblay	The suturing problem of far-travelled ophiolites - examples from the Albanian Dinarides and Canadian Appalachians	118
9:20	Louise Mérit	Interplay between metamorphic reaction and fluid-assisted deformation in controlling subduction dynamics: the Newfoundland basal ophiolite	92

SS-25 New perspectives in metamorphic petrology
8:20 - 9:40 - Bannerman 4
Chairs: Jillian Kendrick, Aphrodite Indares, Antoine Godet, Ludovico Scorsolini

8:20	Brendan V. Dyck	Anchored or adrift? Kinetic controls on salt crystal nucleation	267

9:00	Carson Kinney	The phosphorus face-off: Modeling resource competition and the finite budget of accessory minerals	128
9:20	Chris Yakymchuk	Petrological modelling with trace elements - how far is too far?	151
9:40	Jonas Vanardois	Mineral composition is all you need - thermobarometric inversion using Gibbs free energy minimisation	95

SS-12 Applied geochemistry
8:20 - 9:40 - Churchill
Chairs: Alexandre Voinot, James Kidder

8:20	Michael G. Babechuk	Better living through modern trace-element geochemistry **KEYNOTE**	281
9:00	Stephen Amor	Covert signatures, missing signatures, and untested anomalies revealed by new analyses of Labrador lake sediments	203
9:20	Drew Heasman	Statistical reasoning and decision-making under uncertainty in geoscience	171

SS-24 Timing is everything: tracking deep-mantle to Earth-surface processes with geo- and thermochronology
8:40 - 9:40 - Pippy
Chairs: Luke Beranek, Emily Johns-Buss, Eva Enkelmann

8:40	Taís F. Pinto	Influence of basement structures on the burial and exhumation histories of the Western Canada Sedimentary Basin and Canadian Shield, Northwest Territories	103
9:00	Diane Skipton	Cretaceous evolution of the Selwyn fold belt in central Yukon: insights from structural mapping, in situ white mica 40Ar/39Ar dating and Raman thermometry **KEYNOTE**	173

SY-04 Precambrian Earth Systems: Crustal Growth, Climate Shifts, and Biogeochemical Cycles
10:00 - 11:00 - Bowring 4
Chairs: Alana Hinchey, David Diekrup, Sally Pehrson, Antoin Godet, Brendan Dyck

10:00	David Diekrup	Magmatic evolution of the Mesoarchean Florence Lake Group: Geochemical constraints and implications for crustal growth in the Hopedale Block, Labrador	336
10:20	Jonathan O'Neil	Geological ancestry of the northeastern Canadian Shield: A window into Hadean crust and mantle evolution **KEYNOTE**	178

SY-02 Evolving perspectives on Neoproterozoic-Palaeozoic reconstructions of northern Gondwana, Baltica, and adjacent areas: A celebration of the career of Ulf Linnemann
10:00 - 12:00 - Bowring 2
Chairs: Andrea Mills, Sandra Barr, Andreas Gärtner, Susan Johnson, Deanne van Rooyen, Chris White

10:00	Mandy Zieger-Hofmann	Sedimentary patterns and provenance of the Rosenhof Member (Nama Group, S Namibia)	93

10:20	Leslie Boateng-Dwomoh	Detrital zircon geochronology and tectonic setting of the Silurian to early Devonian Rockville Notch Group in the western Meguma terrane, Nova Scotia, Canada	1
10:40	Stephen Collett	Detrital zircon geochronology of Devonian strata at the eastern margin of the Bohemian Massif	31
11:00	Nicolas Gomez	Ediacaran basin evolution and unroofing of the Avalon Zone, Newfoundland: constraints from detrital zircon U-Pb geochronology and Lu-Hf isotopes	176
11:20	Maria Ovtcharova	Reconstructing the depositional evolution of the Ediacaran Nama Group, Namibia, via high-precision zircon U-Pb geochronology	215
11:40	Guy M. Narbonne	The Oldest Ediacaran Fossils in Newfoundland	421

SS-01 Alkaline to peralkaline intrusive, subvolcanic, and volcanic magmatic systems: analysis of sources to mineralizing processes
10:00 - 11:40 - Bannerman 1
Chairs: David Lentz, Zsuzsanna Magyarosi, Anton Chakhmouradian

10:00	Zsuzsanna Magyarosi	Allanite: a window into the evolution of REE mineralization in alkaline-silicate igneous systems	164
10:20	Olga Vasyukova	A pyrochlore factory generated by carbonatitic magma-gneiss interaction and alkaline silicate melt production	211
10:40	Jacob Hanley	Classification of refractory Au-Co-Ni-As-Sb-Bi mineralization associated with the peralkaline Deloro Pluton, Ontario, Canada: a fresh look at the first gold district in the Canadian Shield	154
11:00	Fazilat Yousefi	Petrogenesis and geodynamic settings of alkaline bimodal igneous suites in New Brunswick, Canada: implications for associated mineralization	200
11:20	Daniel J. Kontak	Tracking the imprint of late-stage magmatic fluids in an A-type F-rich hypersolvus intrusive setting: The Late Devonian St. Lawrence Granite, Newfoundland	376

GS-12 Sedimentology and stratigraphy
10:00 - 12:00 - Bannerman 2
Chairs: David Lowe, Brette Harris, Noah Slaney

10:00	Jorge Iturralde	Tectonostratigraphic evolution and clastic provenance of the Cambrian-Ordovician Cow Head Group, Humber Zone, western Newfoundland	158
10:20	Celeste M. Cunningham	Mineralogy of polymetallic metasedimentary rocks of the Cambrian Goldenville Group and significance for critical mineral exploration	354
10:40	Edward (Ted) J. Matheson	Are they seismites? Evaluating soft-sediment deformation in the Mabou Group	168
11:00	Daniel Dick	Niagara Escarpment erosion quantification using UAV-LiDAR	195

11:20	Morgan Dauphinee	Characterization of South Mara and Avondale members offshore Newfoundland and assessment of their CO2 storage potential	150
11:40	Brette S. Harris	Characterization of siderite and diagenetic processes in the Mesozoic Jeanne d'Arc Basin, offshore Newfoundland, Canada	40

SS-23 Tracing the Lifecycle of Oceanic Crust and Ophiolites: From Formation to Subduction — A Session in Honour of Jean H. Bédard
10:00 - 11:20 - Bannerman 3
Chairs: Azam Soltanmohammadi, Mark Coleman, Gabriel Dos Santos, Alana Hinchey, Brian O'Driscoll

10:00	Mark Coleman	Arc volcanism, plutonism and slab breakoff recorded in the Coastal Complex, Bay of Islands, western Newfoundland	291
10:20	Jean H. Bédard	Spinel-rich feldspathic peridotites formed by hybridization between boninitic sills and tholeiitic host gabbros in the Bay of Islands ophiolite	34
10:40	Gabriel Santos	Dunitization of depleted mantle peridotite during subduction initiation in the Penobscot back-arc basin: evidence from the Great Bend Complex, central Newfoundland	224
11:00	Daniele Brunelli	Melt diversity, alkaline melts, and the deep-time memory of the convecting mantle	137

SS-25 New perspectives in metamorphic petrology
10:00 - 11:40 - Bannerman 4
Chairs: Jillian Kendrick, Aphrodite Indares, Antoine Godet, Ludovico Scorsolini

10:00	Pierre Lanari	Need for speed - how quickly can metamorphic minerals grow in nature?	91
10:20	Philip Hartmeier	Fill the gaps in the natural record - Phase equilibrium enhanced machine-learning for petrological applications	88
10:40	Kira A. Musiyachenko	Lu-Hf garnet geochronometry at extreme conditions: insights from the cratonic mantle	157
11:00	Chris Couëslan	Juxtaposition of high T-low P and Barrovian-style metamorphic zones along the eastern margin of the Thompson Nickel Belt, Manitoba	48
11:20	David Moynihan	Polymetamorphism of the Hyland River area, northern Canadian Cordillera and constraints on the timescales of low-pressure metamorphism	423

SS-12 Applied geochemistry
10:00 - 12:00 - Churchill
Chairs: Alexandre Voinot, James Kidder

10:00	Matthew M. Bodnar	Catchment analysis applied to regional lake sediment geochemistry, watershed dynamics as a control of geochemical signal in northern Manitoba, NTS 064J/K	249

10:20	Heather Campbell	Unsupervised classification of till geochemical data to detect elemental contributions from bedrock and geochemical anomalies from mineral deposits; case studies from the Burin and northern Avalon Peninsulas	323
10:40	Martin Ross	Till provenance and dispersal analysis using statistics and machine learning techniques: Implications for mineral exploration	340
11:00	Aleksandra Mloszewski	Biosignatures from microbes and trees reveal lithium dynamics in natural watersheds	155
11:20	Greg Slater	Differentiating microbial biogeochemical cycling of modern versus petroleum carbon sources during oil sands tailings reclamation	188
11:40	Alexandre Voinot	Heavy metal storytelling: What U, Mo, and Tl isotopes reveal about U ore forming processes	38

SS-24 Timing is everything: tracking deep-mantle to Earth-surface processes with geo- and thermochronology
10:00 - 11:40 - Pippy
Chairs: Luke Beranek, Emily Johns-Buss, Eva Enkelmann

10:00	Connor Crook	New in situ U-Pb monazite geochronology bearing on the timing of deformation and metamorphism within the Tazin River shear zone, Hill Island Lake area, southern Taltson orogen, Northwest Territories	63
10:20	Isabelle Therriault	Evidence for a regional 1.75 Ga thermal-tectonic event recorded in the Ungava orogen, Nunavik, northern Québec	82
10:40	Eva Enkelmann	Laser-ablation based multi-method dating provides new avenues for basin studies	90
11:00	Shreya Roy	The structural evolution of the South Tibetan Detachment System, Nar Valley, central-Nepal Himalaya: insights from microstructures and in situ geochronology	53
11:20	Taehwan Kim	"Detrital" zircons in sensu stricto eclogite from the Ross orogen, Antarctica	254

SY-04 Precambrian Earth Systems: Crustal Growth, Climate Shifts, and Biogeochemical Cycles
13:20 - 14:40 - Bowring 4
Chairs: Alana Hinchey, David Diekrup, Sally Pehrson, Antoin Godet, Brendan Dyck

13:20	Camille Partin	Envisaged paleotopography of the Rae and other surrounding cratons: perspectives from Paleoproterozoic sedimentary basins and their paleoenvironments **KEYNOTE**	226
14:00	Qihang Wu	Synchronous vertical and horizontal tectonism shaping the Neoarchean crustal architecture: Insights from 3D numerical modeling of the Superior Craton	83
14:20	Xin He	Neoarchean non-plate to plate tectonic regime transition evidenced in the central Superior Craton	30

SY-02 Evolving perspectives on Neoproterozoic-Palaeozoic reconstructions of northern Gondwana, Baltica, and adjacent areas: A celebration of the career of Ulf Linnemann
13:20 - 14:40 - Bowring 2
Chairs: Andrea Mills, Sandra Barr, Andreas Gärtner, Susan Johnson, Deanne van Rooyen, Chris White

13:20	Johannes Zieger	The Permo-Carboniferous Graissessac-Lodève Basin (France) - new insights into Variscan exhumation processes revealed by detrital zircon and apatite	43
13:40	Dene Tarkyth	A new plate reconstruction for the Neoproterozoic Arabian Nubian Shield	204
14:00	Katja Mende	The Late Variscan geological history of Northern Germany - Results of modern zircon analyses on drill core samples from the Loissin 1/70 borehole	346
14:20	Ulf Linnemann	Linking Avalonian-Cadomian and Alleghanian-Variscan orogenic processes of the Appalachians with Gondwanan Europe: Many thanks to Atlantic Canada!	368

SS-01 Alkaline to peralkaline intrusive, subvolcanic, and volcanic magmatic systems: analysis of sources to mineralizing processes
13:20 - 14:40 - Bannerman 1
Chairs: David Lentz, Zsuzsanna Magyarosi, Anton Chakhmouradian

13:20	Tiera Naber	Alkaline-silicate and carbonatite complexes in the Canadian Cordillera: investigating temporal and spatial gaps, and metallogenic potential in the Yukon	314
13:40	Federico Pingitore	REE-enrichment in alkaline ultramafic cumulates: new insights on the carbonatite-ultramafic rock paradox from the Riviere Noire clinopyroxenite, Grenville Province, Québec	279
14:00	Tania Martins	Magmatic evolution from the Paleoproterozoic fluorite-bearing Thorsteinson A-type granite, northern Manitoba: insights into petrogenesis	392
14:20	Xue-Ming (Eric) Yang	Are there any alkaline granitoids in the Paleoproterozoic Lynn Lake greenstone belt, northwestern Manitoba?	101

GS-06 Igneous and metamorphic geology
13:20 - 14:40 - Bannerman 2
Chairs: Donnelly Archibald

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13:20	Pierre-Arthur Groulier	The Archean Troilus Au-Cu-Ag deposit: a metamorphosed magmatic-hydrothermal/VMS system (Quebec, Canada) **KEYNOTE**	257
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