

President's Preamble

I hope you all had a good winter and that 2018 is proving to be a productive and satisfying year. Now that spring is upon us there is no doubt that many GAC® members are getting ready for the field season. One important aspect of planning for field programs is ensuring that there is a robust health and safety plan in place. This should be designed to minimize risk while at the same time ensuring there are clear actions, responsibilities, team communications, reporting and follow up for any field incident that has the potential to harm field personnel. There are many examples of health and safety plans (e.g., PDAC Health and Safety Toolkit) that provide good models for plan development. I strongly encourage field program leaders to ensure that all field personnel are well protected by a strong health and safety plan to deal unexpected events.

GAC® Council has had a busy winter moving forward on a number of priorities and issues, including a winter Council meeting in February, 2018. The agenda included planning for future GAC/MAC annual conferences, a 2018 budget update, an update from the Nominations Committee for new Councillors, ratification of 2018 medal winners and updates from a number of Committees including publications, the Revenue Task Force and an RFG 2018 update.

The planning for RFG 2018 continues and the event is really taking shape! In total, 1476 abstracts have been submitted and to date over 1300 participants have registered for the conference. The past few weeks have been spent scheduling the Session presentations for all the Conference Themes (Earth, Minerals, Water, Energy, Resources & Society). This has been a huge volunteer effort with great support from the Canadian Institute of Mining, Metallurgy and Petroleum or CIM staff. The next steps will be to finalize the technical program, ensure that all the

logistical details have been sorted out, and promote participation in the conference. GAC® has had the support of a Local Organizing Committee for the Earth Theme

composed of the following individuals: Deanne van Rooyen, Liz Stock, Dave Lentz, Graham Young, James Conliffe, Catherine Hickson and David Corrigan. MAC has also participated in this group through Andy MacDonald, Paula Piilonen and Joanne Caron. Support has also been provided by GAC® Manager Karen Dawe. Many thanks to the entire group for their hard work around field trips, seeking abstract submissions and assisting with scheduling activities for the technical program. I would like particularly to acknowledge Deanne, Liz and Dave Lentz for their hard work in leading the scheduling of the Sessions for the Earth and Minerals Themes, Dène Tarkyth for her rigorous review of GAC® field trip insurance and Dan Gibson as the overall field trip coordinator for RFG and his support for GAC® field trips.

In summary, RFG 2018 has truly been a team effort from volunteers across the country. We should be proud of our collective efforts. CIM staff have also done a tremendous job at paying attention to details. Of course, the leadership of John Thompson has and will continue to be critical for the success of this event. You can do your part by registering in this extraordinary conference and participating in plenary events, panel discussions, technical sessions, social events and networking with colleagues over the entire event. I look forward to seeing you there!

Stephen Morison
President, Geological Association of Canada



GEOLOGICAL ASSOCIATION OF CANADA

The MISSION of the Geological Association of Canada is to facilitate the scientific well-being and professional development of its members, the learned discussion of geoscience in Canada, and the advancement, dissemination and wise use of geoscience in public, professional and academic life. The VISION of the GAC® is to be a multidisciplinary scientific society supportive of the entire scope of the geosciences in Canada. The GAC® aims to be a geoscience community that is knowledgeable, professionally competent and respected, whose input and advice is relevant, widely sought and utilized, and whose vital contribution to the economic prosperity and social well-being of the nation is widely acknowledged.

La MISSION de l'Association géologique du Canada est d'aider au développement scientifique et professionnel de ses membres, de favoriser les échanges géoscientifiques au Canada ainsi que de promouvoir et de diffuser l'utilisation éclairée des géosciences dans un contexte public, professionnel et académique. La VISION de l'AGC® est de faire connaître une communauté géoscientifique de grand savoir, dont les compétences professionnelles sont respectées, dont les suggestions et les avis sont pertinents, recherchés et utiles, et dont la contribution largement reconnue est considérée comme vitale pour la prospérité économique et le bien-être de la nation.

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National Awards / Prix nationaux

Logan Medal

W. W. Hutchison Medal

E. R. Ward Neale Medal

J. Willis Ambrose Medal

Eric Mountjoy Exchange Award

Student Awards / Prix étudiants

Mary-Claire Ward Geoscience Award

Jerôme H. Remick Poster Awards

Eric Mountjoy Exchange Award

GAC®-PDAC Logan Student Prize

Prix Section and / et Division Awards

AQUEST—

Certificat d'excellence de l'AQUEST

Canadian Geomorphology Research Group—

J. Ross Mackay Award, Olav Slaymaker Awards

Geophysics Division—

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Canadian Sedimentology Research Group—

Middleton Medal

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Mineral Deposits Division—

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Julian Boldy Certificate Awards

Paleontology Division—

Elkanah Billings Medal, Pikaia Award

Precambrian Division / Mineral Deposits Division —

Howard Street Robinson Medal

Canadian Tectonics Group—

Jack Henderson Prize for Best Thesis, Ph.D. and M.Sc.

Volcanology and Igneous Petrology Division—

Career Achievement Award, Léopold Gélinas Medal

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GEOLOG (ISSN 0227-3713; 1712-3747) is the quarterly newsmagazine of the Geological Association of Canada, St. John's, Newfoundland and Labrador. *GEOLOG* is published for the benefit of GAC® members and its content reflects the diversity of the organization. News items and short articles on topics of potential interest to the membership including public geoscience awareness are encouraged. Also encouraged are communications promoting interaction among academic, industry and government sectors. *GEOLOG* accepts and publishes contributions in both of Canada's official languages. Opinions expressed herein are those of the writers and do not necessarily represent the official positions of the GAC®. *GEOLOG* is one of several forums provided by the GAC® for scientists worldwide.

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GEOLOG (ISSN 0227-3713; 1712-3747) est le bulletin trimestriel de l'Association Géologique du Canada, à St. Jean, Terre-Neuve-et-Labrador. *GEOLOG* s'adresse aux membres de l'AGC® et son contenu reflète le caractère polyvalent de cette organisation. Nous invitons la soumission de nouvelles et articles courts pouvant intéresser les membres, incluant les thèmes de sensibilisation du public aux sciences de la Terre. Les articles suscitant des échanges d'opinions et d'informations entre les secteurs académique, industriel et gouvernementaux sont également la bienvenue. *GEOLOG* accepte et publie les articles dans les deux langues officielles du Canada. Les idées sont celles des auteurs et ne représentent pas nécessairement la position officielle de l'AGC®. *GEOLOG* n'est qu'un des nombreux forums offerts par l'AGC® aux scientifiques à travers le monde.

ABONNEMENT: L'abonnement à *GEOLOG* est un des privilèges dont bénéficient les membres de l'AGC®. On peut se procurer un formulaire d'adhésion par courrier ou par fax en communiquant avec l'Association Géologique du Canada.

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Contributions for next issue

Please send items for the next issue of *GEOLOG* by e-mail to Alwynne.Beaudoin@gov.ab.ca on or before **June 1 2018**.



The GAC® book counter being ably staffed by volunteer Elizabeth Andrews at PDAC in March 2018.

Photo: Karen Dawe

GeoFact: Feb 08 1790: Gideon Mantell, the avocational palaeontologist who first described Iguanodon, was born in Lewes, Sussex, England.

Milestones, Memories, and Tributes

Robert W. Hodder 1932-2017

It is with sadness that we announce the passing of Dr. Robert W. Hodder, on March 26 2017 at the age of 84. Bob was a long-time GAC® member, having joined in 1968.



Born in Ottawa, he graduated from Queen's University and received his Ph.D. from the University of California, Berkeley. A field geologist in both the private and academic sectors, he was appointed professor in the Geology Department at the University of Western Ontario, London, in 1970. He served as department chair from 1982-1990. He continued to serve as professor emeritus from 1993 and inspired a generation of students who are now leaders in the field.

Bob was an outdoor enthusiast and global traveller who remained active and curious until his final days. He will be sorely missed by all who knew him.

John Shaw 1943-2018

We are sad to report the death of Dr. John Shaw on March 9 2018 in Edmonton at the age of 74. John was born in Glasgow, Scotland, and raised in Leeds, England. He attended Reading University, England, before becoming a professor of geography in Canada at the University of Alberta and Queen's University. Well known as a glacial geomorphologist, he had a distinguished career as a teacher, mentor, and researcher.

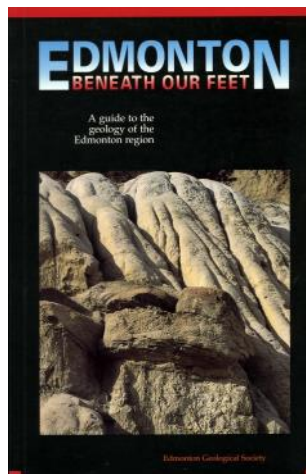


Leib Wolofsky 1928-2018

We announce with sadness the death of Dr. Leib Wolofsky in St. Catharines, Ontario, at the age of 90. Born in Montreal, Leib was a renowned consulting geologist of hydro-electric dams for Acres Engineering and the World Bank.

He earned a Ph.D. from McGill University. His work took him and his wife, Sheila, all over the world—Colombia, Kenya, Ghana, West Pakistan, Guatemala, Laos, Taiwan, Thailand and Afghanistan—where they made many enduring friendships, funding higher education for numerous families in developing countries. After settling in Niagara-on-the-Lake in the 1960s, Leib and Sheila were active members of the Niagara-on-the-Lake chapter of Amnesty International.

Leib was a member of the Association of Engineering Technology, Association of Geoscientists for International Development, Association of Canadian Geotechnicians, Canadian Institute of Mining and Metallurgy, the Geological Association of Canada, International Association of Engineering Technology, Tunnelling Association of Canada and Association of Geoscientists of Ontario. Leib became a member of GAC® in 1965.



Edmonton Beneath Our Feet, published by the Edmonton Geological Society in 1993, was one of the many publications to which John Shaw contributed. This volume continues to be a useful resource for anyone interested in Edmonton's geology and landscapes.

Events and Happenings

Atlantic Geoscience Society (AGS) Annual Colloquium and Annual General Meeting 2018

The 44th Colloquium and Annual General Meeting were held at the Holiday Inn, Truro, Nova Scotia, on February 2 to 3, 2018. The organizers, Rob Raeside and Chris White with help from numerous student volunteers, facilitated an excellent meeting. Over 200 registered participants enjoyed a full and diverse program pushing the boundaries of geoscience in all its branches.

This year's Colloquium kicked off Friday morning with two well-attended, day-long workshops: (1) Your Career and Public Reporting - A QP short course for students (and others) by Amy Tizzard and sponsored by Geoscientists Nova Scotia and (2) Subsurface Methods - how to use and interpret drill-hole data and other subsurface data for both industry and academia by Robin Adair, outgoing president of the AGS. For those not fortunate enough to attend the short course, the afternoon was filled with meetings pertaining to AGS business and the upcoming 2022 GAC-MAC meeting in beautiful Halifax, Nova Scotia. Poster displays started late Friday afternoon and remained available to view until late Saturday afternoon. Three concurrent oral sessions ran Friday evening: (1) Rocks, Maps, and

Tectonic Models; (2) Advances in Assessing Arctic Geohazards; and (3) a General Session on Igneous rocks, Mineralogy and Mineral Deposits.

At the end of the Rocks, Maps, and Tectonic Models session, Brian Fisher, the new Director of the Nova Scotia Department of Natural Resources Geoscience and Mines Branch congratulated Drs. Sandra Barr (Acadia University) and Chris White (Nova Scotia Department of Natural Resources) for their work with the branch GIS staff to compile and integrate previous field work and detailed bedrock geological mapping on Cape Breton Island, Nova Scotia from the last 25-30 years. This work produced one 1:220 000 scale overview map and twenty-five 1:50 000 scale bedrock maps. The digital product consists of 52 032 outcrops, 24 723 associated structures, and 1857 geological polygons representing 352 geological units. It also includes 1,121 mineral occurrences, 6,368 drillholes and 49 named coals seams.

Saturday's events started early with several concurrent sessions including: Records of Environmental Change from the Atlantic Provinces and Beyond; Basin-forming Processes during Supercontinent Assembly: New insights from the Devonian-Permian Record of Atlantic Canada; The Meguma Terrane: its place in the Appalachian Orogen and Beyond; Paleontology and



Drs. Sandra Barr and Chris White standing in front of the new geology map of Cape Breton Island, Nova Scotia.
All photos courtesy Anthony Chu, Acadia University



Winners of student awards at the Colloquium (left to right): Matthew Stimson (St. Mary's University); Kate Woods (Dalhousie University); Max Chipman (Acadia University); Taylor Ducharme (University of Ottawa); and Steven Rossiter (University of New Brunswick).



AGS President Lynn Dafoe (left) presenting Nikole Bingham-Koslowski (GSC-Atlantic) with the Nelly Koziel Award.

Sedimentology in the Maritimes and Beyond; AGS Outreach Innovations: Past, Present and Future; Methane Emissions from Legacy Fossil Fuel Sites in the Maritimes; Petroleum Geoscience on the Atlantic Margin; and a General Session on Techniques in Earth Science.

Saturday evening was the Awards Banquet and Social where following dinner several prestigious AGS awards were presented in recognition of worthy student presentations and professional accomplishments.

The **Rob Raeside Award** for best undergraduate student poster went to Taylor Ducharme (University of Ottawa) and his co-authors David Schneider and Mark Coleman for their poster "Resolving episodes of deformation and hydrothermal quartz precipitation in the Amalgamated Break fault, Abitibi Subprovince, Ontario from microstructural and SEM-CL analyses."

The **Graham Williams Award** for best graduate student poster went to Steven Rossiter (University of New Brunswick) and his co-author Bruce Broster for their poster "Portable X-ray fluorescence analysis of terminal grade in basal till south of the Mount Pleasant deposit, New Brunswick."

The **Rupert MacNeill Award** for best undergraduate student oral presentation was split between two top talks: Max Chipman (Acadia University) and his co-authors Melissa Grey and Peir Pufahl for his talk "New insights into a brackish Carboniferous ecosystem through the coprolites of the Joggins Formation, Nova Scotia," and Kate Woods (Dalhousie University) and her co-author James Brenan for her talk "An experimental study of the effect of water on chromite saturation in komatiite."



AGS President Lynn Dafoe (left) presenting Reginald Wilson with the Distinguished Scientist Award - Gesner Medal.

The **Sandra Barr Award** for best graduate student oral presentation went to Matthew Stimson (St. Mary's University) and his co-authors Andrew MacRae, Randy Miller, Steve Hinds, Nicholas Minter and Zabrina Prescott for his talk "A review of *Kinneyia simulans*: An ichnotaxonomic approach to wrinkled microbially induced sedimentary structures from New Brunswick, Canada."

A new award was launched, the **Nelly Koziel Award**, given to a person who has recently made a significant contribution to geoscience in the Atlantic Provinces, beyond the call of duty. Nelly Koziel was the treasurer of the Atlantic Geoscience Society, and long-term administrative assistant at the Geological Survey of Canada (Atlantic) and AGS volunteer who staffed the sales table at colloquia, as well as the Nova Scotia Gem and Mineral Show and many other events. The inaugural award was made to Nikole Bingham-Koslowski of the Geological Survey of Canada (Atlantic), who ably and assumed the role of treasurer following Nelly's death last year.

The **Distinguished Scientist Award - Gesner Medal**, given to a person who developed and promoted the advancement of geoscience in the Atlantic Region in any field of geology was awarded to Reginald Wilson (retired from the New Brunswick Geological Surveys Branch).

After the awards, the guest speaker was Dr. Deanne van Rooyen (Cape Breton University) who gave an entertaining talk entitled "Folds, furs, and flies: adventures in northern research" about her exploits in northern Quebec and Labrador. This was followed by the annual AGS Kitchen Party and open mike,



Dr. Deanne van Rooyen talking about her travels in the wilds of northern Labrador.

showcasing the instrumental and voice talents of several members of the Mud Creek Boys and other AGS members.

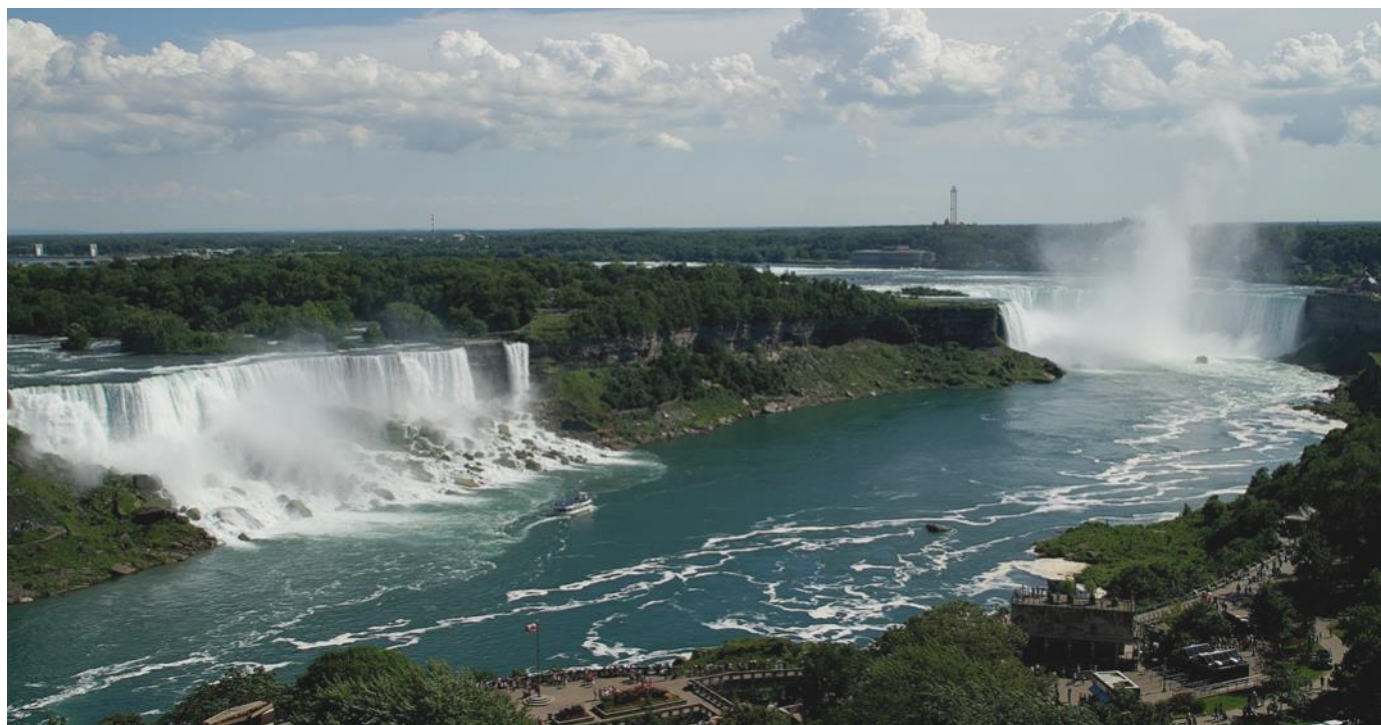
As usual the AGS colloquium was a great success keeping with the spirit of open communication and the exchange of ideas through both formal and informal group discussions. All this could not be possible



Two members of the Mud Creek Boys, Dr. Ian Spooner (L) and Dr. Peter Williams (R) with Ph.D. student Dewey Dunnington (C), serenading the crowd with an eclectic mix of old-time country and bluegrass music.

without the generous contribution from our sponsors and partners: Nova Scotia Department of Natural Resources, Nova Scotia Department of Energy, Atlantic Gold, Nova Scotia Geoscientists, Geological Association of Canada, New Brunswick Department of Energy and Resource, and Acadia University. Thanks to the organizers and all of the participants for making an outstanding weekend.

Submitted by Chris White and Rob Raeside



American, Bridal Veil, and Horseshoe Falls, viewed from the Canadian side, Niagara Falls, Ontario
Credit: Saffron Blaze, 2011. Reproduced under Creative Commons Attribution-Share Alike 3.0 Unported license from https://en.wikipedia.org/wiki/Niagara_Falls#/media/File:3Falls_Niagara.jpg. Image cropped.

Announcements

GAC®-PDAC

Logan Student Prize Winners

Congratulations to the 25 recipients of the fourth annual GAC®-PDAC Logan Student Prize.

- Heather McGuire, Acadia University
- Emily Archibald, Brock University
- Jacob VanderWal, Dalhousie University
- Teegan Ojalam, Lakehead University
- Derek Leung, Laurentian University
- Daphne Saint-Denis, McGill University
- Mitchell Davison, McMaster University
- Andrew Smith, Memorial University
- Connor Fornwald, Mount Royal University
- Carol-Anne Nicol, Simon Fraser University
- Marjorie Lapointe-Aubert, Université Laval
- Laura-Pier Perron-Desmeules, Université de Québec à Chicoutimi
- Casey Buchanan, University of Alberta
- Keagan Parry, University of British Columbia
- Sierra Collins, University of British Columbia, Okanagan
- Russell Ashton, University of Calgary
- Ethan Amyotte, University of Manitoba

- Emily Mick, University of Ottawa
- Stephanie Sawchuk, University of Regina
- Zach Pollock, University of Saskatchewan
- Sabastien Dyer, University of Toronto
- Justin Szabo, University of Victoria
- Matthew Cannon, University of Waterloo
- Maximilian Sanderling, University of Western Ontario
- Hannah Brudett, University of Windsor
- Roxanne Croxall, Vancouver Island University

The prize is awarded annually to one undergraduate student at each CCCESD-member department. The award has a monetary prize component, a one year memberships to both GAC® and PDAC, and recognition in the form of a certificate.

The selected students are expected to be academically sound, have good leadership skills (e.g., as they pertain to organizing field trips, geology club geo-events, etc.), and have done well at field school or otherwise show proficiency in field techniques. The prize recognizes students who are leaders and participate in advancing the study and application of geoscience. Students are usually in their final (i.e., graduation) year.

Association of Earth Science Editors 52nd Annual Meeting Niagara Falls, New York

The 52nd annual meeting of the Association of Earth Science Editors will take place in Niagara Falls, New York, September 26 to 29, 2018. We hope you'll join us for what promises to be a great meeting, in a spectacular setting. AESE meetings are a wonderful way to learn about earth science editing, publishing and communication. Our meetings, generally small in size, consist of two days of technical sessions and a one-day field trip, and provide an unparalleled opportunity to network with other editors, publishers, educators and others working in the earth sciences.

Niagara Falls has been a prime tourist destination since the mid-19th century. People come from around the world to see just the falls themselves. But there is so much more to explore on both the American and Canadian sides of the falls, from world class wineries, Niagara Falls State Park (providing close access to the American and Bridal Veil falls), Niagara Gorge hiking trails, and art galleries to the Schoellkopf Power Plant museum (providing easy access to the bottom of the gorge), Niagara rapids jet boat tours, Old Fort Niagara, Niagara-on-the-Lake and more. The meeting is open to anyone interested in earth science editing, publishing and outreach. Meeting information is now available on AESE's web page www.aese.org. For more information, please contact host chair, Marg Rutka (Ontario Geological Survey), marg.rutka@ontario.ca, and technical program chair, Phil Farquharson (San Diego Miramar College), philfarq@gmail.com.

Geological Association of Canada National Awards 2018

Logan Medal

The Logan Medal, the highest award of the Geological Association of Canada is presented to an individual for sustained distinguished achievement in Canadian earth science. The 2018 medal is awarded to **Barbara Sherwood Lollar**, University of Toronto.



J. Willis Ambrose Medal

The Ambrose medal, named after the first GAC® President, J. Willis Ambrose, is awarded to an individual for sustained dedicated service to the Canadian earth science community. The 2018 medal is awarded to **Peter T. Bobrowsky**, Geological Survey of Canada (Pacific).



W. W. Hutchison Medal

The W. W. Hutchison Medal is named after Dr. William W. Hutchison in recognition of his many contributions to the Geological Association of Canada and to Canadian and international geoscience. The medal is awarded to a young individual for recent exceptional advances in Canadian earth science research. The 2018 medal is awarded to **Gordon R. Osinski**, Western University.



E. R. Ward Neale Medal

The Neale Medal is named after the legendary E. R. Ward Neale. The award recognizes outstanding efforts to communicate and explain geoscience to the public through one or more of the following vehicles: public lectures, print or electronic media articles, school visits, elementary and secondary school educational materials, field trips, science fairs, and other public communications. The 2018 medal is awarded to **Mark M. Fenton**, Alberta Geological Survey.



Eric Mountjoy Exchange Award

The Eric Mountjoy Award is available to encourage the exchange of young geoscientists between Québec and other parts of Canada. The award is named after Eric Mountjoy, a distinguished Canadian professor of geology at McGill University, explorer, Fellow of the Royal Society of Canada, and recipient of the Douglas Medal of the Canadian Society of Petroleum Geologists and the Pettijohn Medal of the Society for Sedimentary Geology. The recipient of the 2018 award is **Clara Waelkens**, McGill University.

Mary-Claire Ward Geoscience Award

Eric Thiessen from Simon Fraser University is the recipient of the 2018 Mary-Claire Ward Geoscience Award. The award is given annually and honours the memory of Mary-Claire Ward who died in 2004. At the time of her death Mrs. Ward was the chair of the PDAC's geoscience committee, chairman of Watts Grifffs McQuat Ltd., and a past president of the Geological Association of Canada. She was a passionate advocate for the geosciences in Canada.

Howard Street Robinson Fund

The Robinson Fund was established in 1977 by the Geological Association of Canada, using a bequest from the estate of Howard Street Robinson. The fund is dedicated to the furtherance of scientific study of Precambrian Geology and Metal Mining by:

- sponsoring an annual Distinguished Lecturer Tour whose focus alternates between Precambrian research and economic geology (lecturer alternately chosen by the GAC®'s Precambrian and Mineral Deposits divisions)
- supporting Special Projects including publications, symposia and conferences.

Proposals for special projects on Precambrian Geology or Metal Mining should be submitted to the Robinson Fund Committee. Projects should be sponsored or organized through the GAC® or one of its Divisions or Sections. Proposals that have a wide appeal or degree of accessibility to the GAC® membership are preferred.

For further information and proposal submissions, please contact: Dr. Stephen Piercey, Chair, Robinson Fund, c/o Department of Earth Sciences, Memorial University of Newfoundland, St. John's, NL A1B 3X5 Canada, E-mail: spiercey@mun.ca



Information for Contributors

Contributions should be submitted by e-mail to Alwynne.Beaudoin@gov.ab.ca, with GEOLOG in the subject line. Contributions are welcome in either of Canada's two official languages. MS Word (.doc or .docx) is the preferred format for contribution but generic word processing (.rtf or .txt) files are also fine. Please do not submit PDF files. Up to four hi-res images may be submitted per contribution: preferred format is .jpg, RGB colour, with a minimum 300 dpi resolution at 5" x 3" size. Please ensure that images are cropped and colour-corrected, and provide a caption for each image, and an image credit line if needed. Contributors are responsible for securing permission to publish for any third-party images or images of living recognizable people. Diagrams (vector graphics) may also be submitted. Preferred format for graphics is Adobe Illustrator (.ai); make sure that the file is saved with "save text as lines" option enabled to ensure no font substitutions. Additional information on other file formats can be obtained from the Editor. Please do not embed images or graphics in your text document; images or graphics should be submitted as separate files. In your text, use a call-out in parentheses to indicate the approximate placement of each image and graphic. If files are larger than 10 mb, please contact the Editor for alternate delivery arrangements. Your contribution will be copy-edited to ensure consistent spelling and orthography and to correct any obvious typos or errors. Contributions may also be edited for clarity and length. If the Editor has questions about specific information in the text, she will contact contributors for clarification. Contribution deadlines are March 1, June 1, September 1 and December 1.

Consignes aux auteurs

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