



## NAPEG Life Membership Category

Members approved a change to the NAPEG Life Membership Category. The change will mean that only members who are retired will apply for Life Membership going forward. Current Life Members will remain in the category; however, beginning January 2020 Life Members will pay annual dues if they are still actively practicing their profession.

We will be contacting the current Life Members for confirmation on status whether actively practicing or retired from the profession. To improve information to the public, retired registrants will appear on the directory with "Retired" after the designation.

The changes will take some time to have policies drafted and approved. Thank you for your patience while we work out the details.

## 2019 Elections

Thank you to those who put their names forward for elections this year. We are pleased to announce that **Katrina Nokleby, P.Eng.**, is reelected to serve a three-year term. New Councillor, **Linda Ham, P.Geo.**, is also elected for a three-year term. **Philip Lewis, P.Eng.**, will serve on Council for two years, replacing **Ryan Schuler, P.Eng.**, who has moved from the Territories. The runner-up is **Cathy Corrigan, P.Eng.** who will be asked to serve if there are further vacancies. Congratulations and thank you to **Mark Cronk, P.Eng.**, who is serving as 2<sup>nd</sup> Vice President. Thank you to **Pamela Strand, P.Geo.**, who did not seek reelection. The dedication of those serving as volunteers is much appreciated.

## 2019 Annual Renewal

Please ensure that you have completed the 2019 Annual Renewal process, along with your Continuing Professional Development (CPD) Report. The 90 days grace is up on March 31, 2019. Dues paid after February 28 have been charged a late fee.

We are working with the developer to improve the reporting of CPD. Please contact the NAPEG office if you encounter issues with renewal and/or reporting of your CPD activities.

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### Events:

- Engineering and Geoscience Week 2019 was held February 23 to March 2, 2019
- NAPEG AGM - March 13, 2019
- NAPEG Awards Banquet - March 14, 2019
- Professional Development Symposium - March 14 and 15, 2019

## 2018 Finnigan Award Recipients - NWT and YT



NAPEG President Karen Costello, P.Geo. and Clare Miller (NWT Recipient)

**Clare Miller, BSch.**

PhD. Candidate, Environmental Geochemistry  
Department of Geological Sciences and Geological  
Engineering, Queen's University

Clare Miller's presentation was titled "Arsenic mobility in a changing northern climate: Implications for geochemical baselines and long-term stability of legacy contaminants in sub-Arctic lake systems".

Research area: The mineralized Archean greenstone belts of the Slave Craton, NT, have historically been productive mining districts and with prospects for future development. In the Tundra Mine region, As concentrations in lakes are elevated from the operation of historic gold mines as well as the natural weathering of mineralized bedrock. Over the late-Holocene period two notable regional warming events have been documented in this region. This study area provides a setting to assess the influence of climate warming events on both geochemical baselines and mining-impacted sediment.

Outcomes and benefits: Temperatures in Canada's north are continuing to rise. Reconstructing the response of As to late-Holocene warming cycles may provide an analog of future climate change on mobility of As and provide a tool to predict future geochemical change in modern environments. This is important for interpretation of metal(loid) concentrations in modern-day sediments, especially in areas disturbed by mining activities. The results of this study aim to improve environmental monitoring and remediation strategies for northern metal mines. Through the integration of analytical science and Traditional Ecological Knowledge, this study aims to fill information gaps necessary to monitor cumulative impacts of climate change and provide a holistic perspective of the implications of climate change on northern ecosystems and communities.

Poster Title: "Magmatic and metallogenic framework for Late Cretaceous magmatism in west-central Yukon"



**Melissa Friend, GIT**

MSc Candidate  
Mineral Deposit Research Unit  
The University of British Columbia

Melissa's research involves assessing the fertility, tectonic drivers, and structural control of Cretaceous magmatic rocks, which are progenitors for porphyry, skarn, and epithermal styles of mineralization. Recent studies have improved geochronological constraints on Cretaceous magmatism in the Dawson Range; however, the petrogenetic and geochemical attributes of the causative intrusions have not been extensively researched.

Consequently, there is a need to systematically examine these magmatic suites in terms of their compositional, geochronological, and lithogeochemical characteristics. Specific goals for the study are outlined and include: 1) establish the character, temporal and spatial distribution of Late Cretaceous magmatic units; 2) assess the structural framework of the Big Creek fault corridor and its control on magmatism; 3) identify the source and controls of fertile magmas; 4) constrain the tectonic and magmatic model that accounts for this significant metallogenic episode and how petrogenesis is a key to ore genesis. Methods that will be carried out to achieve the goals include: field mapping, sampling and characterization, petrography, HF staining, whole rock and trace element analysis, analysis of redox conditions, radiogenic isotopic analysis, U-Pb dating of zircon and zircon trace element analysis. Models developed for Cretaceous magmatism will allow for the comparison between the different pulses of magmatism and elucidate their fertility as mineralizing agents. The new geologic and metallogenic data generated from this research will provide the current and future mineral exploration industry in Yukon with improved frameworks upon which to base exploration decisions. In addition, the close collaboration with the YGS provides an unprecedented opportunity to contribute to building an integrated magmatic, tectonic, and metallogenic framework that will allow data to be accessible to the public. Results will also benefit the Canadian economy by promoting exploration in northern Canada and assist in making effective land use decisions.

*I would like to thank NAPEG for selecting me as the recipient of the 2018 Finnigan Northern Award for Yukon. I am honoured to be granted this award and I am excited to carry on Dr. Finnigan's legacy of geoscientific field work and exploration in the North. It is a great privilege to share with others my contributions to the understanding of metallogeny in the Dawson Range.*

## Registration Changes - January & February 2019

Note: Registration is not complete until fees are paid in full.

### Members-in-Training

Brett J. Kelly, EIT  
Katherine E. Raymond, GIT

### Members

Nicolas Malard, P.Eng.  
Jason D. Mauchan, P.Eng.  
Michael R. Otto, P.Eng.  
Nathaniel R. Tam, P.Eng.  
Robert F. Tuerke, P.Eng.

### Life Member

Michael Burns, P.Eng.

### Licensees

Robin N. Adair, P.Geo.  
Nedim Alca, P.Eng.  
Christopher W. Annan, P.Geo.  
Laureano Becerra Ayala, P.Eng.  
Mario Bergeron, P.Eng.  
Colin M.G. Birnie, P.Geo.  
Kyle G.J. Boudreau, P.Eng.  
Laya M. Bou-Karem, P.Eng.  
Bryan D. Boutilier, P.Eng.  
Matthew J. Bowen, P.Eng.  
Sylvain Caron, P.Eng.  
Michael B. Carriere, P.Eng.  
Jeffrey A. Cassoff, P.Eng.  
Sylvain J.R. Cloutier, P.Eng.  
Trevor H. Cooke, P.Eng.  
Eliza Daniela, P.Geo.  
Manash K. Datta, P.Eng.  
Tyler A. Davidson, P.Eng.  
Damiebi Denni-Fiberesima, P.Eng.  
Dominic Fleming, P.Geo.  
Steven L. Foley, P.Geo.  
Francis Fortin, P.Eng.  
Etienne Giroux, P.Eng.  
Jeremy A. Green, P.Eng.  
Michel Y. Gregoire, P.Eng., P.Geo.  
David Grinchpoun, P.Eng.  
James M. Gunn, P.Eng.  
Katrin I. Habel, Ph.D., P.Eng.  
Colin A. Hardie, P.Eng.  
Andrew D. Henderson, P.Eng.  
R. Laurie Henderson, P.Eng.  
Tomas Hrdina, P.Eng.  
Wayne P. Kershaw, P.Eng.  
Martin J. Kopchia, P.Eng.  
John B. Kurylo, P.Eng.  
Bradley A. Lawrence, P.Eng.  
Philippe Lemire, P.Eng.  
Etienne Letourneau, P.Eng.  
Michael E. Levy, P.Eng.  
John S. MacKenzie, P.Eng.  
Reuben J. Makohoniuk, P.Eng.  
Pier-Eric McDonald, P.Eng.

Kyle R. MacIntyre, P.Eng.  
Marco A. Mejia, P.Eng.  
Alexander J. Melindy, P.Eng.  
Andrew C. Middleton, P.Eng.  
Amgad L.I. Mikhael, P.Eng.  
Mario A. Morales, P.Eng.  
Vincent Nadeau-Benoit, P.Geo.  
Olajide O. Ojo-Olajire, P.Eng.  
Wayne A. Ormshaw, P.Eng.  
Colin W. Partridge, P.Eng.  
Shayne J. Paul, P.Eng.  
Glen A. Peace, P.Eng.  
Benjamin Petticrew, P.Geo.  
Benjamin F. Powell, P.Eng.  
Dennis F. Reade, P.Geo.  
Darcy L. Robinson, P.Eng.  
Jonathan Servais, P.Geo.  
Khadar Ali Shaik, P.Eng.  
Gary M. Smordin, P.Eng.  
Ryan C. Swain, P.Eng.  
Foon P.J. Tam, P.Eng.  
Jonathon J.L. Taylor, P.Eng.  
Jean-Pierre Tchouta, P.Eng.  
Rene J. Thibault, P.Eng.  
Joanna W.Y. Ting, P.Eng.  
Lowell Wade, P.Eng., P.Geo.  
John H. Walther, P.Geo.  
Bo Yin, P.Eng.

### Change from Non-Practicing to Active

Peter A. Little, P.Eng.  
Mark Tarkalam, P.Eng.  
Steven F. Versteegen, P.Eng.

### Change from Active to Non-Practicing

Georges A. Belcourt, P.Geo.  
Evert Bos, P.Eng.  
Lyle R. Boudreau, P.Eng.  
Eric Anthony Erpenbeck, P.Eng.  
Kevin P. Fitzpatrick, P.Eng.  
Vincent R.J.G. Gagnon, P.Eng.  
Carl E. Hentschel, P.Eng.  
Jun An Hu, P.Eng.  
Harold D. Knynsberg, P.Eng.  
Per J. Lunder, P.Eng.  
Gary N. Lustig, P.Geo.  
William P. Marsh, P.Eng.  
Binh D. Nguyen, P.Eng.  
Renato Veerasammy, P.Eng.  
Kyle J. Wilcox, P.Eng.

**Note: NAPEG Non-Practicing Category means the professionals are not currently practicing in the NT or NU. The registrants may be actively practicing in other jurisdictions.**

## Registration Changes - January & February 2019

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### **Permits to Practice**

7041829 Canada Limited o/a Harbourside Engineering Consultants  
 AEdifica inc.  
 Andrew David Henderson o/a Yedoma Environmental ATCO Electric Ltd.  
 Eagle Inspections & Engineering Inc.  
 Geominex Consultants Inc.  
 KPa Engineering Services Ltd.  
 Parjo Engineering & Environmental Sciences Ltd.  
 ProForma Engineering Limited  
 ReNu Engineering Inc.  
 RKG Consulting Services Ltd.  
 Safe Roads Engineering Inc.  
 WaterChemEng Engineering Ltd.  
 Waterline Resources Inc.  
 WSP Canada Group Limited o/a WSP Global Inc.  
 YWB Consulting Services Inc.

### **Permit Name Change**

Armtec Inc. (formerly 107684999 Canada Inc. o/a Armtec)  
  
 Nuna Logistics Partnership (formerly Nuna Logistics Limited)

Ramboll Canada Inc. (formerly Ramboll Environ Canada, Inc.)

### **Permit to Practice Cancellations (Firms)**

1840217 Ontario Ltd.  
 ADEM Engineering Inc.  
 Allan R. Nelson Engineering (1997) Inc.  
 Apex Elevator Consulting Inc.  
 Campbell & Walker Geophysics Ltd.  
 CDCD Engineering Limited  
 EMS-TECH Inc.  
 Firez Inc.  
 Gisborne Design Services Ltd.  
 K A Projects Ltd.  
 Konecranes Canada Inc.  
 Les consultants GEN + S.E.N.C.  
 MMM Group Ltd.  
 Mitchelmore Engineering Company  
 Prakash Consulting Ltd.  
 Protection Incedie Ideal  
 Prowise Engineering Inc.  
 ToodTek Inc. o/a ToddTek Consulting  
 Toromont Cat Power Systems, a division of Toromont Industries Ltd.  
 TTF Engineering Inc.  
 Vortex Fire Consulting Inc.

The *Acts* require that firms (*defined as partnerships, corporations, and associations of persons*) practicing engineering and/or geoscience in the Northwest Territories and/or Nunavut must have a Permit to Practice. The requirements concerning Permits to Practice are described in Sections 11 and 23 of the NWT Act and Sections 3 and 5 of the Nunavut Act. A sole proprietor (*who is not incorporated and not practicing through a firm*) is not required to hold a Permit to Practice.

The Permit to Practice signifies that:

- a) The firm maintains a structure that fosters professional practice;
- b) The work is carried out by skilled professionals, licensed by NAPEG, to practice in the NT/NU;
- c) The business of the firm, related to Engineering and Geoscience, is carried out in accordance with the Code of Ethics;
- d) Quality control procedures are in place to produce complete and accurate documents;
- e) The firm is professionally responsible for the integrity of all stamped documents generated in its practice.

## Registration Changes - January & February 2019

Note: Registration is not complete until fees are paid in full.

### **Member/Licensee/MIT Resignations** **(effective December 31, 2018)**

Mark E. Angus, P.Eng.  
Samantha A. Bell, EIT  
Abdelhalim Bensmaia, P.Eng.  
Tarlochan S. Bharj, P.Eng.  
Joseph Alexandre Bibeau, P.Eng.  
Masten F. Broisma, P.Eng.  
Jeffrey T. Boeckx, P.Eng.  
Allan Bronsro, P.Eng.  
Christopher J. Campbell, P.Geo.  
Michael D. Chadney, P.Eng.  
Lawrence Chan, P.Eng.  
Tommy C.M. Chan, P.Eng.  
Tomson H.S. Chan, P.Eng.  
Michael D. Chadney, P.Eng.  
Mario Chiasson, P.Eng.  
John Garnet Ching, P.Geo.  
Brooke P. Clements, P.Geo.  
Barry H. Cooke, P.Eng.  
Jean-Simon Cote, P.Eng.  
Gordon I. Davidson, P.Geo.  
Salwant S. Deepak, P.Eng.  
George L. Dolmat, P.Eng.  
Dennis R. Domenichini, P.Eng.  
Terry L. Eldridge, P.Eng.  
Jeffrey A. Fuller, P.Eng.  
John M. Gallagher, P.Eng.  
Paul Gann, P.Geo.  
Simon Germain, P.Eng.  
Leslie S. Gomm, P.Eng.  
Yassir A. Hamandi, P.Eng.  
Charles L. Hooper, P.Eng.  
Lindsay G. Hunt, P.Eng.  
Joe C. Iles, P.Eng.  
Nima Irvani, P.Eng.  
Lujun Jing, P.Eng.  
Bradley K. Johnson, P.Eng.  
Gerry A. Karst, P.Eng.  
Jack A. Keays, P.Eng.  
Daniel E. Kerr, Ph.D., P.Geo.

John B. Knight, P.Geo.  
Philippe Lapointe, P.Eng.  
Steven M.F. Lee, P.Eng.  
William Lee, P.Eng.  
David Levi, P.Eng.  
Curtis D. Louttit, P.Eng.  
Warren F.P. MacPhail, P.Eng.  
Alex B. McCardle, P.Eng.  
Kenneth A. McKirdy, P.Eng.  
Kenneth I. Mitchell, P.Geo.  
Perry Mitchelmore, P.Eng.  
Magued Nawar, P.Eng.  
Patrice N. Ndiangang, P.Eng.  
Matthew E. Obee, P.Eng.  
Real Olivier, P.Eng.  
Laurie E. Pankratow, P.Geo.  
Jason S. Pentland, P.Eng.  
Rafael Leandro Pires, P.Eng.  
Louis-Philippe Poirier, P.Eng.  
Richard A. Porter, P.Eng.  
Howard N. Procyshyn, P.Eng.  
David A. Richardson, P.Eng.  
Marie-Josse Roy, P.Eng.  
Steven M. Sather, P.Eng.  
Kamran Shahverdi, P.Eng.  
Robert J. Sharp, P.Geo.  
Kirsten Sorensen, P.Eng.  
James E. Spence, P.Eng.  
Richard H. Sutcliffe, P.Geo.  
Daniel A. Sutton, P.Eng.  
Osman Uluocak, EIT  
Douglas A. Vis, EIT  
Terry W. Vivyrka, P.Eng.  
Arthur S. Washuta, P.Eng.  
Robert A. Young, P.Eng.  
Willem G. Zantvoort, P.Geo.

### **Definitions:**

*“Professional Engineering” means any act of planning, designing, composing, measuring, evaluating, inspecting, advising, reporting, directing or supervising, or managing any of those acts, that requires the application of engineering principles.*

*“Professional Geoscience” means any act of documenting, analyzing, evaluating, interpreting or reporting on the earth’s materials or on resources, forms or processes, or managing any of those acts, that requires the application of the principles of geology, geophysics or geochemistry.*



## 2019 Engineering and Geoscience Week

Thank you to NAPEG Outreach Committee for another successful week of events, including the Annual Coding Event held on February 23, 2019 and the Annual Bridge Building Competition held on March 2, 2019.

Both events were a great success. Thanks to all those involved. The committee members include: Elaine Gillespie, P.Eng. (Chair); Sudhir Jha, P.Eng.; Franz Dziuba, P.Geo.; Delia Chesworth, P.Eng.; Karen Costello, P.Geo.; Philip Lewis, P.Eng.; Andrea Markey, P.Geo.; Melanie Williams, P.Eng.; Yuri Kinakin, P.Geo.; Doug Yokoyama, P.Eng., with staff support by Ashley Chassie. Thank you, as well, to all those volunteers who came out to the events to assist.



## Geoscience Student Awards

The Geoscience Student Awards (presented at the Annual Geoscience Forum) recognize that presenting research in public is an important step in the education of geoscientists. The awards are given to students who are presenting the results of their work in the North and who display excellence both in the quality of the work and the professionalism of the presentation.

Mike Palmer won the award for his oral presentation and Sarah Speight won for her poster. Each received a cheque for one thousand dollars. Best of luck to each of you and continued success in your studies.



*My research is focused on terrestrial and aquatic processes that control the mobility of arsenic in subarctic environments. We use a variety of techniques across the disciplines of hydrology, biogeochemistry and limnology.*

*The information generated by these studies is useful so that we can better predict the long-term fate of arsenic in northern environments.*

*Our research team values the application of science to decision-making and results from our research have been used by regulators and public health departments to fulfill their responsibilities.*

*I have been living and working in the Northwest Territories for the past 12 years and much of my work has been in collaboration with local communities and aboriginal organizations.*

Mike Palmer  
PhD Candidate  
Carleton University

DESK OF EXECUTIVE DIRECTOR /  
REGISTRAR

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**NAPEG Council**

President:	<i>Karen Costello, P.Geo., FGC</i>
1 <sup>st</sup> Vice President:	<i>Justin Hazenberg, P.Eng.</i>
2 <sup>nd</sup> Vice President:	<i>Mark Cronk, P.Eng.</i>
Past President:	<i>Sudhir Jha, P.Eng., FEC</i>
Councillors:	<i>Pamela Strand, P.Geo.</i> <i>Katrina Nokleby, P.Eng.</i> <i>Yuri Kinakin, P.Geo.</i> <i>Melanie Williams, P.Eng.</i> <i>Elaine Gillespie, P.Eng.</i> <i>Ryan Schuler, P.Eng.</i>
Appointed Public Members:	<i>Chris Hunt</i> <i>James Arreak</i>

**National Directors**

Engineers Canada Director:	<i>Terry Brookes, P.Eng., FEC</i>
Geoscientists Canada Director:	<i>Yuri Kinakin, P.Geo.</i>

**NAPEG Staff**

Executive Director/Registrar:	<i>Linda Golding, FEC/FGC (Hon.)</i>
Deputy Registrar:	<i>Mimi Kennedy-Chassie</i>
Finance and Admin:	<i>Bora Sung</i>
Registration and Admin:	<i>Ashley Chassie</i>
Professional Practice:	<i>Peter Bengts, P.Eng.</i>

**NAPEG Mission**

*In the public interest, NAPEG regulates and supports the professional practice of engineering and geoscience in the Northwest Territories and Nunavut.*

**Mei Brown and Bob Spence Memorial Scholarships**

Two \$2,000.00 scholarships are available to Northwest Territories or Nunavut students entering or attending post secondary studies leading to a degree in Engineering or Geosciences at an undergraduate level in a recognized Canadian university. Preference is given to highly motivated individuals with a strong academic background and demonstrated citizenship and leadership capabilities.

In December 2018, the Education Foundation awarded eight undergraduate scholarships. The recipients are:

Rebecca Canam; Jada Hawkins; Joshua Lee; Nancy Ngo; Zakary Newdorf; Jennifer White; Akash Yadav; and Bishal Yadav.

Congratulations and best wishes for continuing success.