



Mineralogical Association of Canada

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MAC TRAVEL AND RESEARCH GRANT AWARDS IN 2013

MAC awarded 11 student travel and research grants in 2013 for a total of \$10,000 (2 to undergraduate students, 3 to MSc students, and 6 to PhD students). Congratulations to these deserving individuals! Excerpts of their reports follow.



Michael A. Antonelli, a master's student at the University of Maryland–College Park, travelled to the 44th Lunar and Planetary Science Conference to present his research on the anomalous sulfur isotope compositions of magmatic iron meteorite groups IC, IIAB, IIIAB, IVA, and IIIF. These anomalous compositions are indicative of inheritance from early nebular photolysis reactions between UV rays and H₂S gas. Michael

received a BSc from the University of Alberta in 2011 and has started a PhD at the University of California, Berkeley.



Thomas C. Chudy (University of British Columbia) attended the GAC-MAC meeting in Winnipeg where he presented a comparative study of regional marbles and carbonatites that share the same tectonometamorphic history. He showed that a careful examination of carbonate microtextures by a range of petrologic methods can provide important information about the magmatic and metamorphic evolution of

carbonatites in mobile belts. This is part of his PhD project on the tantalum-bearing Fir carbonatite system, east-central British Columbia.



Mallory Dalsin, an MSc student at the University of British Columbia, attended the GAC-MAC conference where she presented her research on the mineralogy of the Wicheeda Carbonatite Complex. Subsequent to this presentation she was asked to submit a paper for a special issue on critical metals in *Ore Geology Reviews*. Attending the conference allowed her to learn about similar research elsewhere, and

network with like-minded researchers.



Zach A. DiLoreto travelled to New Zealand to perform field sampling for his upcoming MSc project at the University of Windsor. He will investigate the mineralogical and biological dynamics of a bioreactor used to treat acid mine drainage at the Stockton mine, as well as determine the fate of sequestered contaminants after decommissioning. This trip allowed him to meet with professionals, scientists, and other students

at the mine, as well as consulting firms and universities.



Andrew Fagan, a PhD student at the University of British Columbia, travelled to the Scottish Universities Environmental Research Centre to determine the oxygen isotope compositions of gem corundum from 10 deposits in Greenland. He obtained $\delta^{18}\text{O}$ values ranging from 1.4‰ to 5.3‰ relative to a standard. These are some of the world's lowest $\delta^{18}\text{O}$ values recorded from gem corundum, and importantly, they expand the

known isotopic range for mafic and ultramafic host rocks.



Maryam Far Shahabi (University of Windsor) attended the GAC-MAC conference and the preconference short course Petrography of Layered Mafic Intrusions. Since her PhD project is about Cu-PGE deposits, she mostly attended the session "Magmatic Ni-Cu-PGE Deposits: Ore-Forming Processes with Implications for Exploration." Furthermore, she presented her research and the results obtained thus far.



Laura MacNeil, an undergraduate student at Queen's University, attended the GAC-MAC 2013 conference to present results on her mineralogical studies of a low-temperature, hydrothermal, barium-rich skarn deposit, Gunn Claim, Yukon Territory. She strongly recommends this conference to all undergraduate and graduate students, as the variety of topic sessions is extensive and the experience one of a kind.



Krisztina Pandur, a PhD student at the University of Saskatchewan, attended the 22nd European Current Research on Fluid Inclusions (ECROFI) meeting in Antalya, Turkey, on June 4–9, 2013. She presented results from her study of the Hoidas Lake magmatic–hydrothermal REE deposit, which focused on fluid inclusion petrography, microthermometry, and evaporate mound SEM EDS analysis. She also attended the pre-

conference short course on fluid and melt inclusions, and a postconference, 2-day field trip to western Anatolia.



Annemarie Pickersgill is currently finishing up her MSc at the University of Western Ontario. Her project is focused on examining the effects of shock metamorphism on feldspars in order to gain insight into the processes that form impact craters on Earth and other terrestrial planetary bodies, particularly the Moon. The MAC travel award allowed her to participate in the GAC-MAC annual meeting and in a field trip

to the Lake St. Martin impact structure, where she collected shock-metamorphosed feldspars.



Ann C. Timmermans, a PhD candidate at Carleton University, is investigating a complex surge of Tertiary magmatism that swept southwestward across southwestern North America. Her research tests the hypothesis that volcanic activity resulted from the shallowing and eventual rollback of the subducted Farallon plate. MAC funding made it possible to complete whole-rock stable oxygen isotope analyses,

which can provide constraints on enrichment of the magma at the source versus contamination from the crust during ascent.



Rui Wang (University of Alberta) attended the first joint scientific meeting of the Geological Society of China and the Geological Society of America. He presented his work on the subject "Magmatic and structural controls on the development of post-collisional porphyry copper deposits in Gangdese belt." After the meeting, he travelled to the Tibet plateau for fieldwork.

He visited more than 10 deposits in the 1000 km long Gangdese belt and collected numerous rock samples for his PhD project.



Société Française de Minéralogie et de Cristallographie

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FROM THE PRESIDENT



Starting in 2014, the European Union framework programme for research and innovation (Horizon 2020) will address raw materials as a main societal challenge, on the same level as climate and the environment. Minerals and materials of natural or artificial origin are thus in the core of the scientific and technical issues raised by the global management of raw-materials resources. The issues include extracting, recycling and substitution processes, the whole chain of environmental impacts, and

the necessity to reinforce the relevant research, education, training centres and networks. Mineralogical societies, and the Société française de Minéralogie et de Cristallographie in particular, need to participate in this "renaissance" of the world's interest in minerals by maintaining bridges between academic research and stakeholders of government and industry.

It is a true pleasure and great honour for me to serve the SFMC as president for the second time, during the term 2014–2015. With our two vice presidents and Council, I wish to lead the SFMC in its involvement in this renaissance challenge by reinforcing our representation in stakeholder forums and committees. In addition, we will maintain our traditional activities as an organizer and sponsor of workshops. We will pursue our support of the involvement of students in mineralogy by funding congress participation for some of them and by recognizing the best PhD theses through the Haüy-Lacroix award.

Bruno Goffé, SFMC President

SFMC ELECTION RESULTS FOR 2014–2015

SFMC members have elected a new Council for 2014–2015 (see <http://sfmc-fr.org> for details).

BOARD: Bruno Goffé (president), Bertrand Devouard (vice president), Christian Chopin (2nd vice president), Marc Blanchard (secretary), Guy Libourel (assistant secretary), Stéphanie Rossano (treasurer), Amélie Bordage (vice treasurer), Anne-Marie Boullier (bulletin editor)

COUNCILORS (2014–2017): Damien Daval, Simonpietro Di Piero, Lydéric France, Marguerite Godard, Armand Masion

COUNCILORS (2012–2015): Anne-Line Auzende, Etienne Balan, Sylvain Bernard, Mathieu Roskosz, Brigitte Zanda

AUDITORS: Jannick Ingrin, Michel Madon

The Society thanks outgoing councilors Muriel Andréani, Delphine Charpentier, Valérie Chavagnac, Alain Cheilletz, Stéphanie Duchêne and Denis Testemale for four years of dedicated service.

TRAINING DAYS: "MÉTHODES D'ANALYSE DES MINÉRAUX ET DES MATÉRIAUX"

The Society is organizing two training days, which will be held in Paris, France (Université Pierre et Marie Curie), on November 20 and 21, 2014. These days will be devoted to a review of a wide range of technical tools, and will be held in the spirit of the previous sessions in 2000, 2002, 2004 and 2010. This meeting is intended for a wide audience, including PhD students, engineers and researchers. Each invited speaker will present one or two analytical methods suitable for the study of minerals and/or fluids. The applications will be related to open questions in the Earth and planetary sciences, and will show how parameters determined at the molecular or nanometre scale can provide important constraints on our understanding of global processes.

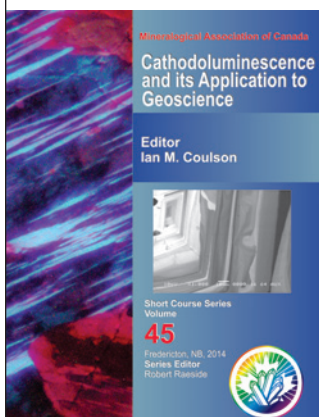
Organizing committee: Anne-Line Auzende, Étienne Balan and Marc Blanchard (contact: methodesdanalyse@sfmc-fr.org). Early registration will open on September 8.

Further information is available at <http://sfmc-fr.org>.

24^e RÉUNION DES SCIENCES DE LA TERRE

SFMC members will be conveners of five sessions during the 24^e Réunion des Sciences de la Terre, organized by the Université de Pau et des Pays de l'Adour, France, and the Société Géologique de France and held on October 27 to 31, 2014. Registration started on March 15, 2014. The meeting website is <http://rst2014-pau.sciencesconf.org>.

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