

40th Anniversary 1972-2012

## 40 YEARS OF SERVICE TO THE INDUSTRY

CMMF HAS BEEN ACTIVELY SUPPORTING EDUCATION AND PROMOTING THE MINERALS INDUSTRY FOR THE PAST 40 YEARS

The Canadian Mining and Metallurgical Foundation (CMMF) was established in 1972 as a charitable foundation *"to create and support a strong program of educational and charitable activities directed towards improving the contribution of the Canadian minerals industry to the progress and well-being of Canada."*

Although a separate legal entity from the Canadian Institute of Mining, Metallurgy and Petroleum (CIM), CMMF was established and continues to be funded by CIM individual members.

### Your support benefits the industry!

**Thanks to your support, over the past 40 years CMMF has helped promote the minerals industry while supporting educational programs and activities.**



Since the creation of the Foundation in 1972, CMMF has proudly supported the **CIM Distinguished Lecturers Program**. This program provides access to some of the industry's best and most engaging speakers and innovative thinkers who travel to CIM Branch and Student Chapter events across Canada. Visit

[www.cim.org/Lecturers](http://www.cim.org/Lecturers) for the list of current lecturers.

Created in 2005 and supported by CMMF since its inception, CIM's **Mining 4 Society (M4S)** is a travelling educational show with a goal of educating school groups and the general public about the impact of mining in our daily lives. A free interactive exhibition, M4S reflects the scope of all industry activities: the 4 Ms stand for Mining, Minerals, Metals and Materials. M4S features themed pavilions, with educational activities, covering a variety of sectors, such as Exploration, Processing, Sustainability, Safety, and Land Surveying. Visit [www.m4society.com](http://www.m4society.com) for more information.



Since 1997, the Foundation has supported Prospectors and Developers Association of Canada (PDAC) **Mining Matters**, a charitable organization that both provides information about geology in Canada and educational resources for educators, students and industry. Mining Matters provides up-to-date information about rocks, minerals, metals, exploration and mining, as well as about careers in the industry. In addition, it offers exceptional resources about Earth Sciences that are directly related to educational curricula. Visit [www.miningmatters.ca](http://www.miningmatters.ca)



CMMF supports **MineralsEd** (formerly known as Mineral Resources Education Program of BC.). Founded in 1991, it

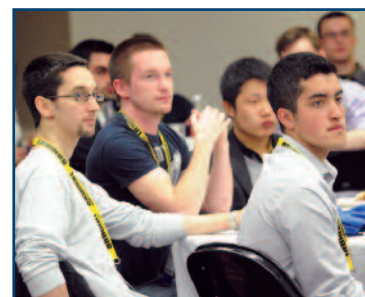
has benefited from CMMF's support since 2000. This year, MineralsEd is partnering with CMMF for the mineral card project. They will receive eight mineral cards created specifically to help with their educational programs. These cards will also be integrated online into the **CMMF mineral card project**. They will be housed on both the CMMF and the MineralsEd websites.



This will provide schools in British Columbia with direct access to the cards through the MineralsEd website ([www.mineralsed.ca](http://www.mineralsed.ca)), which will then direct them to the larger CMMF collection.

CMMF provides over \$90,000 a year in **scholarships** to attract undergraduate students to mining programs such as mining engineering and geology.

From time to time, CMMF also sponsors **special projects**, for example the presentation of the Diamond Exhibition in Halifax (2010), as well as other special initiatives that encourage members of the general public to better understand some of the many benefits of the mining industry.



# CMMF Board of Trustees

## Congratulations to:

**Daniel Gagnon, P.Eng.**, who was appointed Chairman of the CMMF Finance Committee.



**George Moubayed**, who was appointed to the Scholarship Committee.



These appointments were proposed and adopted at the Edmonton 2012 AGM in May.

## Our Giving Campaign 2012 is well underway!



**If you have already sent us your contribution, please accept our heartfelt thanks. We hope that you will respond generously and continue to help us support educational programs and promote the mining and metallurgy industry through CMMF!**

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## CMMF'S SIGNATURE MINERAL CARD PROJECT

When CMMF first launched the mineral card project at CIM Edmonton 2012, the reception was extremely positive. There were many suggestions on how to enhance the 52-card project and make it grow into a national educational tool.

It quickly became obvious that the cards were more than information about minerals. The project not only had become a launch pad for promoting companies (the generous sponsors of the cards), but also a vehicle for promoting not-for-profit organizations such as science centres, museums, universities, mineral clubs, mineral education programs and others.

We contacted schools across the country where we had awarded scholarships and invited them to "adopt" a mineral and to use their school's web page to promote their mining and mining-related programs. We looked at partners that had contributed to the M4S mining education show across the country and offered them a "mineral" and page to promote their good work.

By opening the project to a broader base of partners and collaborators, we moved forward quickly and the website grew by leaps and bounds. Soon after, two government programs offered their support. Native groups were also approached and partnerships were forged with the view of making the cards available in their local syllabics. Special minerals were requested from different areas of the country depending on their curriculum, and we were delighted to provide the appropriate cards for them.

By keeping the project general in nature, the cards can be adapted to almost any educational environment. The basic information is on the card – it is used as a key to stimulate interest in searching for more mineral cards.

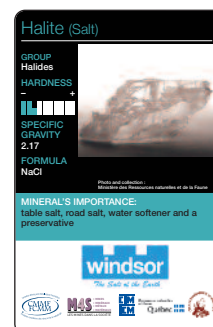
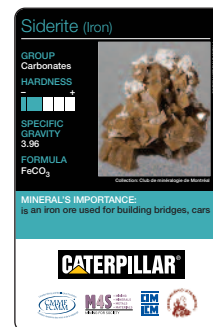
The mineral card project has become a pivotal project for promoting the industry, education and some national collections. Key cards are housed on many websites across Canada, enticing avid young minds to visit local sites and then gravitate to the CMMF national site.

The growing request for cards became overwhelming. We then devised an easy template for visitors to choose, download and print their favourite photos onto a standard glossy postcard paper which is available at Staples and Bureau en Gros, (item no. 490861).

Sets of mineral cards are distributed free of charge to educators who attend select conferences and tradeshow. Corporate sponsors also distribute cards to their network of designated recipients. CMMF continues to post cards on their website to ensure that the project grows.

These cards continue to be offered, free of charge, to all educators who attend mining and mining-related conferences, including the M4S educational show.

To date, many companies have graciously sponsored a mineral, providing the funds required for the distribution of these cards.







## CMMF Scholarships

Over the years, CMMF has awarded valued scholarships for studies ranging from engineering to underground mining to geology. Many of the scholarship recipients have graduated and are now contributing to their profession as leaders in the mining industry.

## Recent recipients of CMMF scholarships

### Fall 2011

#### McIntosh Scholarships

**Rachel Major**, McGill University

**Aurelian Nie-Rouquette**, McGill University

**Sean Bracken**, McGill University

**Matt Botnick**, Queen's University

**Myrane Godard**, Queen's University

**Jean-Philippe Allard**, Cégep de l'Abitibi-Témiscamingue

**Josiane Lachance-Gagné**, Cégep de l'Abitibi-Témiscamingue

**Azougrou Bozon Koto**, Cégep de l'Abitibi-Témiscamingue

#### Caterpillar and its Canadian Dealers Scholarship

**Bradley Lecomte**, University of British Columbia

#### Scotiabank Scholarship

**Anne Bélanger**, Dalhousie University

#### Taking Flight Scholarship

**Renata Smoke**, Western University

**Joel Constant**, Cambrian College

#### La Bourse Irène et Arthur Foley

**Sébastien Tanguay**, École Polytechnique de Montréal

**Azougrou Bozon Koto**, École Polytechnique de Montréal

### Spring 2012

#### Caterpillar and its Canadian Dealers Scholarship

**Lindsey Taylor**, Queen's University

#### Scotiabank Scholarship

**Nicholas Joyce**, University of British Columbia

#### Taking Flight Scholarship

**Sidney Mamakwa**, Cambrian College

### Fall 2012

The recipients of the McIntosh, Taking Flight, and Irene and Arthur Foley scholarships will be posted on the CMMF website ([www.cmmf72.org](http://www.cmmf72.org)) later this year and will be published in the next CMMF News.

#### CMMF NEWS

This publication, is intended to keep you informed about activities and events organized and/or supported by the Foundation. Contributors to this edition are:

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Should you have any comments, questions, or if you wish to be removed from the mailing list, please contact the editorial committee c/o [dsauve@cim.org](mailto:dsauve@cim.org)



Presentation of \$100,000 from the CIM Montreal Branch to CMMF for the creation of two new scholarships for second-year students in the province of Québec. From left to right: Martin Poirier, outgoing president, Mackenzie Watson and Ian Turner (all members of the CIM Montreal Branch Executive); Jean Vavrek, CIM National president and CEO; Serge Major, CIM director of finance, and CMMF secretary/treasurer; René Dufour, member of the CIM Montreal Branch Executive, and founding member of CMMF; and Hani Mitri, PhD, new president of the CIM Montreal Branch.

## Fundraising events

CMMF now offers special fundraising event partnerships in conjunction with CIM conferences. CMMF organizes the fundraisers, from high-end scotch tastings to jewellery exhibitions to silent auctions, and partners invite their delegates to attend. Through these partnerships, CMMF provides 50% of the revenues to the event partner for their educational programs. To date, CMMF has provided funds for CIM, the Saskatoon Branch and MetSoc educational priorities.

## Calendar of CMMF fundraising events

### 2012

- Edmonton, May 6, in conjunction with the CIM Annual Conference
- Sudbury, June 12, in conjunction with the MassMin Conference
- Niagara Falls, October 2, in conjunction with the MetSoc Annual Conference of Metallurgists (COM)
- Québec City, November 27, in conjunction with the Québec Mines Conference

### 2013

- Toronto, May 6, in conjunction with the CIM Annual Conference
- Montreal, August, in conjunction with the Symposium on Automation and Robotics in Construction as well as the World Mining Conference
- Kamloops, September, in conjunction with the CIM MEMO Conference
- Montreal, October, in conjunction with the MetSoc Conference of Metallurgists (COM)
- Québec City, November, in conjunction with the Québec Mines Conference



## **CMMF scholars lead the way with the Scotiabank Scholarship**

The Canadian Mining and Metallurgical Foundation (CMMF) is committed to ensuring a strong future for the mining industry by supporting and promoting education. In an effort to encourage students to pursue careers in mining and related industries, CMMF offers the Scotiabank Scholarship.

The Scotiabank Scholarship was established in 1998 on the occasion of the 100th anniversary of CIM. Each year, a \$2,000 scholarship is awarded to a student completing an undergraduate degree in the field of exploration and/or geology in Canada. Candidates are judged on academic achievement and their commitment to a career in the mining, minerals or energy industries.

The following scholarship recipients continue to make outstanding contributions to the mining industry.



Alexandre Boucher

### **Alexandre Boucher, PhD Scholarship recipient, 1998**

After receiving the Scotiabank scholarship in 1998, Alexandre Boucher developed an interest in computational and quantitative geology. He was introduced to the field of geostatistics through his courses at École Polytechnique de Montreal, an interest that was solidified during internships at Inco in Sudbury, Ontario. In 2001, he

moved to Australia to pursue a master's degree at the University of Queensland under Professor Roussos Dimitrakopoulos. He completed his studies in geostatistics, obtaining a PhD at Stanford University in 2007 under the direction of Professor André Journel. After graduation, he remained at Stanford for three years as acting assistant professor.

While studying, teaching and conducting research at Stanford, Dr. Boucher became involved in the development of the Stanford Geostatistical Modeling Software (SGeMS) and co-authored the book *Applied Geostatistics with SGeMS*, published by Cambridge University Press. To date, SGeMS has been downloaded more than 50,000 times and is used both in the mining and energy industries for resource modeling and quantification.

In 2010, Dr. Boucher founded the company Advanced Resources and Risk Technology, LLC (AR2Tech) where he provides consulting and software development to the mining industry, as well as continues the development of SGeMS. To this day, he still proudly references the CIM scholarship on his resume. Dr. Boucher currently resides in Sunnyvale, California, and is a consulting professor in the energy resources engineering department at Stanford University.

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Joshua Bailey

### **Joshua Bailey, M.Sc., P.Geo. Scholarship recipient, 2000**

Joshua Bailey began his career in 1998 with a prospecting course offered by the Yukon Chamber of Mines. He holds a M.Sc. degree from Laurentian University in Sudbury, Ontario, and a B.Sc. degree from Memorial University in St. John's, Newfoundland. He was the recipient of the Scotiabank Scholarship in 2000 and during his studies was also awarded the Dean of Science Medallion for Academic Excellence and an award for Excellence in Geoscience.

Mr. Bailey is currently vice-president of exploration for Wallbridge Mining Company Limited, previously holding successive roles in the company since 2004. He is responsible for projects exploring for platinum, palladium, nickel, copper and gold near Sudbury, Ontario. His work includes managing mineral exploration joint ventures with Impala Platinum Holdings Limited, Lonmin Plc and Xstrata Nickel. He has also conducted exploration in Yukon Territory, British Columbia, Newfoundland and Labrador, and throughout Ontario.

Mr. Bailey is a passionate vocal supporter of Canada's mining industry and its importance to our society. He is president of the Sudbury Prospectors and Developers Association, through which he has organized a number of introductory community prospecting workshops. He is also a director of the Ontario Prospectors Association and Ontario Exploration Corporation.



Margaret Harder

### **Margaret Harder, M.Sc., P.Geo. Scholarship recipient, 2001**

Margaret Harder graduated from the University of Saskatchewan in 2002 with a degree in geology and obtained her master's in geology from the University of British Columbia in 2004. She was awarded the 2002 University of Saskatchewan Ore Gangue Memorial Award for academic excellence, as well as the Geological Association of Canada Léopold Gélinas Silver Medal in 2005 for the most outstanding master's thesis in the field of volcanology and igneous petrology.

During her career in the mining sector, Ms. Harder has had the opportunity to work at numerous companies. Her first position was at Cameco Corp as a geological assistant. Following completion of her master's thesis, she began working with Peregrine Diamonds Ltd. as a project geologist. Advancing in her career, she became project geoscientist at Mineral Services Canada. Ms. Harder is currently a geologist at Tetra Tech Wardrop, where her role includes geological modeling, technical report writing and mineral resource estimation. She is the 2001 recipient of the Scotiabank Scholarship.