

# Mining



# Matters

## Agnico-Eagle Mines Invests in the Future

Canadian gold producer Agnico-Eagle Mines is a company with more than an eye on the future of the industry. They have invested in it, supporting **Mining Matters** comprehensive Aboriginal Outreach Program in Nunavut's Kivalliq region. The company has committed \$240,000, 2012 through 2015, to support a three-year education and outreach plan, comprising summer camps, in-class workshops, and school/community visits.

**Mining Matters** educators, working with the Kivalliq Science Educators' Community, will deliver one five-day summer camp per year for youth ages 9 to 16. They will also present five or more in-class, interactive hands-on workshops to junior, intermediate, and senior students, reaching an estimated 375 students, teachers and parent volunteers. Three ten-day **Mining Matters** school/community visits will provide student and teacher professional development workshops. Participating teachers will receive educational kits developed uniquely for Nunavut, including lesson plans, rock and mineral samples, mineral testing equipment, posters, photographs, diagrams, books, DVDs, games, and career path information.

Agnico-Eagle is a long-established, Canadian-headquartered gold producer with operations located in Canada, Finland and Mexico, and exploration and development activities in Canada, Finland, Mexico, and the United States.

The company recognizes the role that Aboriginal people increasingly play in Canada's land and resource management. "Agnico-Eagle believes in investing in the skills development and employment success of Canadians," says Louise Grondin, Senior Vice President, Environment and Sustainable Development, Agnico-Eagle. "**Mining Matters'** exceptional hands-on programs, combined with on-site, customized training opportunities, will highlight the importance of Earth science and the minerals industry and the employment possibilities our industry offers. And of course, we'd like Agnico-Eagle to be an employer of choice among youth in Nunavut."



Now in its 11th year of offering its unique Aboriginal Outreach Program, **Mining Matters** has had outstanding success promoting the importance of Earth science and the minerals industry to Aboriginal communities. Says **Mining Matters** President Patricia Dillon, "We're extremely proud of our unique Aboriginal Youth Outreach Programs. With Agnico-Eagle's support, we look forward to showing the wonders of Earth science to the youth of Nunavut's Kivalliq region and highlighting a potential path to their career success."

Agnico-Eagle Invests in the Future	1
Vale Vision for Mining Matters	2
Barrick Gold Keeps on Giving	2
De Beers Makes a Difference	2
Goldcorp Leads the Way	2
Teck's Commitment to Mining Matters	2
IAMGOLD Supports Québec Expansion	3
Donor Spotlight: Ian McDonald	3
Welcoming a New Board Member	3
Mining Matters Changes and Grows	4
Industry Keeps Giving	
Going Once, Going Twice...	6
Watts, Griffis and McOuat	6
Hockey Tournament Scores	7
Golf Classic Sparkles	7
Interest in Aboriginal Education and Outreach Soars	8
Together Again in Labrador	8
Taking it Interns	9
Prospector Perspective	10
Here, There, Everywhere!	11
Teacher Training	12
Hands-on Learning	13
WHERE Challenge	13
Thanks to our Contributors	14
Power to the People	16
Donating Shares	16

## Vale Vision for Mining Matters

Vale has a vision: to be the number one global natural resources company in creating long-term value, through excellence and passion for people and the planet. The company demonstrated commitment to that vision with a three-year commitment to **Mining Matters** programs, from 2010 to 2012, of \$25,000 a year. Well, they've done it again. Vale has renewed its support with another three-year commitment of \$25,000 a year. Ensuring that the world of mining is introduced to students in relevant, interesting, and idea-generating ways is important to Vale. **Mining Matters** would like to thank Vale for such sustained and significant contributions to our educational program.



Vale's mission is to transform natural resources into prosperity and sustainable development. Headquartered in Brazil, it is the second biggest mining company in the world, operating in 37 countries. It is the leading producer of iron ore and pellets, the second biggest nickel producer, and among the largest producers of manganese and ferro-alloys.

## Barrick Gold Keeps on Giving



Barrick Gold has come through for **Mining Matters** again. Last year, Barrick donated \$20,000, and in 2012, the company generously raised its support

to \$30,000. We thank the company for recognizing the value of our increasing efforts to encourage and build geoscience education among Canada's youth. We also congratulate Barrick Gold Corporation on being ranked a global leader in corporate social responsibility for the fifth consecutive year by the Dow Jones Sustainability World Index.

## De Beers Makes a Difference

De Beers Canada continues to make a difference to **Mining Matters**. The company sponsored three of our Aboriginal Mining Rocks Earth Science camps this year. Active in Canada for over 50 years, De Beers believes that projects must benefit and add to the sustainability of local communities. Supporting **Mining Matters'** outreach to Aboriginal communities is one example of De Beers' putting its beliefs into action. We thank them for their ongoing support.



## Teck

### Teck's Commitment to Mining Matters

For over fifteen years, Teck has dedicated resources and funds to furthering **Mining Matters** educational programs. Most recently, in 2011 the company pledged \$30,000 a year for five years, contributing to stability within our organization that allows long-term planning and expansion. **Mining Matters** staff members are grateful for Teck's ongoing support to help achieve our goal of bringing the wonder of Canada's geology and mineral resources to students, educators and industry through educational resources.

Headquartered in Vancouver, Teck is Canada's largest diversified resource company, committed to responsible mining and mineral development with major business units focused on copper, steelmaking coal, zinc and energy. We congratulate Teck for being named to the 2012 Dow Jones Sustainability World Index for the third straight year, indicating that Teck's sustainability practices rank in the top 10 per cent of resource companies worldwide.

## Goldcorp Leads the Way

In 2012, Goldcorp became a leading supporter of **Mining Matters'** Aboriginal Mining Rocks Earth Science camps,



furthering education for Aboriginal youth at four camps this past summer. Goldcorp's contribution demonstrates its commitment to "create partnerships with Aboriginal and Indigenous People, to further a culture of economic independence, ownership, entrepreneurship, and enterprise management."

Headquartered in Vancouver, Goldcorp has become one of the world's top senior gold producers, with operations and development projects located throughout the Americas. The company's dedication to furthering **Mining Matters'** mission through camps is a treasure for which we say "thank you."





## IAMGOLD Supports Québec Expansion

IAMGOLD declares that it embraces diversity and grows with teamwork, learning, and innovation. It also believes in empowering people and promoting extraordinary performance. At **Mining Matters**, we thank IAMGOLD for seeing our efforts as extensions of those values and donating \$25,000 to support our teacher workshops, material translation, and outreach in Québec.

Our efforts in *la belle province* are on track. Throughout 2011, Québec educators examined existing **Mining Matters** resources and evaluated their effectiveness within Québec-specific curriculum. Since then, our resources have been piloted in seven schools and teacher workshops have begun. As well, our materials have been showcased at the Québec Provincial Association of Teachers, Eureka! Festival (an outdoor science extravaganza in old Montréal), and at the Québec Secondary Science-Technology and Math (STEM) Symposium 2012.

IAMGOLD is a leading mid-tier gold mining company producing approximately one million ounces annually from five gold mines (including current joint ventures) on three continents. In Québec, the company produces niobium as well as gold and owns a significant rare earth element resource—possibly the largest outside China. It operates mines in Suriname, Burkina Faso and Mali; has projects under development in Quebec, Ontario, Ecuador, and French Guiana; and has further growth plans in South America and Africa.

## Donor Spotlight: Ian McDonald



Ian McDonald knows that giving often rewards the giver as much as the recipient. Knowing that **Mining Matters'** educational goals serve to strengthen the mining and mineral exploration industry, his industry, he donated \$14,000. We thank him for such generosity.

Mr. McDonald says, "Having had an exciting and rewarding career in the exploration and development of mineral resources, I am pleased to endorse **Mining Matters'** commitment to promoting the mining industry to students as

being a vibrant and vital part of their future, as well as to our country's economic future."

Mr. McDonald has more than 25 years of experience in the mining industry. He began his career in 1977 as an investment advisor, moved into mining issues, then shifted into the mining industry itself. Through the years he has co-founded Glencairn Gold Corp. (1987), Wheaton River Minerals Ltd. (1990), Blue Pearl Mining Ltd., and Stonegate Agricom Ltd. (2006), serving in various capacities in those companies, including President, Chief Executive Officer, and Chairman. He currently is Co-Chairman of Stonegate Agricom Ltd., engaged in the exploration and development of agricultural nutrients, and since 2009, has been a director of Canada Lithium Corp. which is constructing a lithium carbonate mine and processing plant in Val d'Or, Quebec.



## Welcoming a New Board Member

After many years of supporting **Mining Matters** through his dedicated fundraising efforts, Mr. Edward G. Thompson, President of E.G. Thompson Mining Consultants, joined our Board of Directors in December, 2011. Mr. Thompson, a past PDAC president, is a professional engineer

and geologist with more than 50 years experience in the mining industry. He graduated in Engineering from the University of Toronto in 1959 and launched his career as a geologist with Teck Corporation. He held senior positions at Lacana Mining Corporation, as a sponsor of the Cordex Syndicate in Nevada, from Vice President (1970s) to President and CEO (1980s). From 1986 to 1990, he was President of Mingold Resources (Canada) and Director of Exploration for Westgold Resources (USA) and was active in gold exploration and acquisitions. During his career, Mr. Thompson has been a director of more than 40 mining and exploration companies.

## Mining Matters Changes and Grows

*Over the last few years, **Mining Matters** has grown and changed a great deal. Demand for our programs has grown. Valued people have moved on and new talent has joined. Since June of 2012, the organization has gone from three to five full time staff, with an additional coordinator expected to join late in the fall. We would like to take the opportunity this year to tell you a little about the people on our team.*

*“Working with **Mining Matters** has been a remarkable experience – one I will treasure always. It gives me great pride to have contributed to the growth of the important programs of **Mining Matters**. I wish to thank members of the Board and staff of **Mining Matters** and PDAC for their support, expertise, encouragement, and friendship. I continue to be very passionate about our mission and remain committed to promoting the tremendous work of the **Mining Matters** team.”*

— Laura Clinton



We say a fond farewell to two wonderful people, Laura Clinton and Amanda Dillon, as they pursue new and exciting careers. Laura, a driving force behind **Mining Matters** for ten years, contributed immeasurably to the organization, creating countless opportunities for growth and establishing a reputation for excellence. Starting off as Project Coordinator, Laura then became Director, and finished her time at **Mining Matters** as Manager, Financial Affairs and Fund Development. We wish her the best of luck going forward.



Amanda Dillon joined **Mining Matters** while finishing her BCOMM degree at Ryerson University and stayed on after graduating. She worked tirelessly as our Coordinator of Special Events and Public Outreach for five years, presenting **Mining Matters** programs at public outreach events across Canada, including CIM-Mining in Society shows, Mining Week and Earth Science for Society events, and Gem and Mineral shows. Amanda also supported Aboriginal youth outreach initiatives in Ontario and Manitoba. We wish

Amanda luck with her new career.



In June 2012, we welcomed our new General Director, Heather Douglas. Heather comes to **Mining Matters** from the Parkdale Village Business Improvement Area where she held the position of Executive Director since 2008. Heather has significant experience in fundraising, promotions, and communications. She earned her BCOMM with Honours in International Management and Marketing from the University of Ottawa, earned a Public Relations Certificate from Concordia University, and participated in the

International Exchange Program at the Copenhagen Business School.



Janice Williams joined **Mining Matters** in 2010 as an Education Consultant and now holds the position of Manager, Teacher Training and School Programs. With an Honours Bachelor's Degree, Faculty of Kinesiology; Bachelor of Education, Janice began her career in exercise therapy before switching to teaching. She taught in Montréal, focusing on life sciences, then moved to Toronto, eventually teaching General and Earth sciences at the senior level. Along with her teaching experience, Janice has brought excellent skills to the **Mining Matters** team, including an excellent grounding in French as well as leadership and coaching experience. Janice unfailingly presents resources to teachers and students with enthusiasm and know-how.

**Mining Matters'** Manager, Aboriginal Education and Outreach Programs Barbara Green Parker has been the person behind Aboriginal Outreach Programs since 2007. With a background of a Honours Bachelor's Degree, Faculty of Physical and Health Education; Bachelor of Education, Ontario College of Teachers with Native Education specialty she develops, delivers, and manages our programs aimed at educating Aboriginal peoples and the public regarding Earth science, mining, and the mineral industry. This work includes facilitation of teachers' workshops, Aboriginal youth summer camp programs, and public outreach in such locations as Manitoba, Ontario, Nunavut, and Newfoundland and Labrador.



Also in June, Amanda Horn joined us as our new Administrative Assistant. Previously, Amanda held the position of Trade Commissioner Assistant with the Ontario Regional Office, Trade Commissioner Service, Department of Foreign Affairs and International Trade. In 2010, she was in Washington, DC, as a Political Section Intern with the Canadian Embassy. Prior to that, she was the Executive Assistant and Youth Program Coordinator with the Broadway Neighbourhood Centre in Winnipeg. Amanda has a MA in Public Policy and Administration from Ryerson University.



Another June 2012 addition was Heather Henry, as Coordinator, Teacher Training and School programs reporting to Janice Williams. Heather is bilingual and has extensive experience as an educator and outreach coordinator. Heather earned her MSc in Space Studies from the International Space University in Strasbourg, France and her BSc (Major Chemistry, Minor Physics) from the University of Ottawa. In 2009-2010, Heather was the Human Space Flight Training Assistant based at the European Astronaut Centre in Cologne, Germany.

In 2012, an unprecedented number of university students gained invaluable experience working as **Mining Matters** summer interns: eight in all, six with the Aboriginal Education and Outreach Programs camps and two with the Teacher Training and School Programs. These summer positions make possible the delivery of **Mining Matters'** programs to multiple communities, behind the scenes as well as up front and centre. With energy and dedication, the students often acted as the face of the industry to the people they met. Industry sponsorship and support for **Mining Matters** made these internships possible: a very worthwhile investment. These students will become part of the mining industry's future in Canada; many will return to geology and engineering programs in the fall of 2012. The experience and exposure to the industry they received will long stay with them.

**Mining Matters** has had, and continues to have, a core team packed with expertise, passion, and talent. To that team, we sometimes add the expertise of other Earth science advocates. We'd like to recognize and thank **Stella Heenan, Beth McLarty-Halfkenny, Peter Russell, Nicole Januszczak, Jenni Piette, Nicole Tardif, Amanda McCallum, Sylvia Gumpesberger, Godfrey Nowlan, Lesley Hymers, and Kate Grapes Yeo**, who all enthusiastically deliver program material when called upon.

So, now you know who we are, and we hope you'll get an idea of what we do from this newsletter. Please don't hesitate to call the **Mining Matters** office if you have questions or suggestions about the program.

## Industry Keeps Giving

### Going Once, Going Twice...

Auctions of any kind are fun. Some people like the excitement of live bidding and others like to quietly peruse the array of items to find the one that says "Take me home!"

### Tetra Tech 3rd Annual Mineral Specimen Auction

Since 2010, Tetra Tech has organized and hosted a fabulous annual live auction fundraising evening to support **Mining Matters'** educational initiatives. The 3rd Annual Mineral Specimen Auction, held in the Toronto Hockey Hall of Fame during the PDAC 2012 International Convention, Trade Show and Investors Exchange, spoiled guests with scrumptious appetizers and free flowing wine while

they examined and bid on 22 beautiful mineral specimens. Perhaps inspired by the memorabilia surrounding them of hockey greats such as Maurice Richard, Johnny Bower, Guy LaFleur, and Marc Messier, the auctioneer and keen bidders got into "the game," raising nearly \$25,000 by evening's end and a total of \$75,000 for the last 3 years.

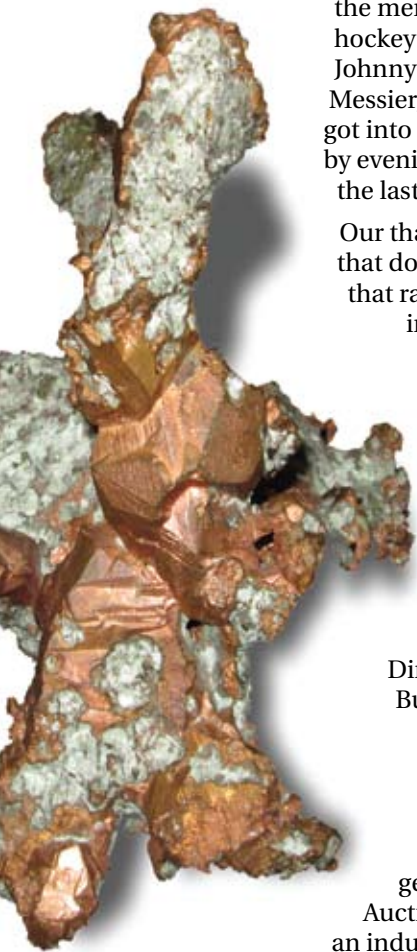
Our thanks go out to the 19 companies that donated mineral specimens, pieces that ranked as pieces of art. They

included gold, silver, zinc, copper, lapis lazuli, malachite, barrerite, creedite, iron, tourmaline, galena, quartz and more. Our thanks to all who purchased as well. Some companies not only donated, but also went the extra mile by bidding on and winning pieces!

We thank Tetra Tech, particularly Debbie Hendsbee, Director Markets, Strategy and Business Development for putting on such a fun and fruitful event for

**Mining Matters.** Debbie says, "Sentimentality runs strong in the mining industry, where some mines can employ several generations of a family. The Mineral Auction provides an avenue for us (as

an industry family) to give back to the community, to promote a sense of corporate social responsibility, and to enjoy the history and uniqueness of mining."



## Watts, Griffis and McOuat Share Golden Celebration

In June 2012, Watts, Griffis and McOuat (WGM), one of Canada's most prominent geological and mining consulting firms, celebrated its 50th anniversary with a Golden Anniversary Gala, held at the Teck Suite of Galleries of the Royal Ontario Museum. At the gala, WGM and many other PDAC members generously donated to **Mining Matters**, raising over \$21,000.

We would like to thank all those who supported the organization, contributing to our efforts to deliver high quality resources, training, education, and outreach across Canada.

It was on January 19, 1962, that WGM was born. Shaped by the vision and drive of its namesake founding partners, Murray Watts, Tom Griffis and Jack McOuat, the company brought together a unique blend of Canadian geological, metallurgical and engineering expertise. Since then, WGM has had offices in such diverse locations as Alaska, Saudi Arabia, Yemen, Ghana, Argentina, Ecuador, Indonesia, and Australia. Today, the firm operates from its headquarters in the heart of Toronto's financial district and added a representative office in Beijing's Central Business District in 2010.

We wish WGM the very best in its undertakings over the next 50 years and beyond!

### PDAC 2012 Convention Auctions

Two other auctions, the silent kind, tempted bidders to open their wallets in support of **Mining Matters** education initiatives. Guests were offered an array of items to bid on and the gem of the night was the generous donation by De Beers Canada of a 0.5 carat diamond. Bidders were also able to try their luck on an original Gold Toronto Maple Leafs Chair from the Gardens, autographed Darryl Sittler and Doug Gilmour Maple Leafs jerseys, ruby and diamond jewelry, vintage armour, weekend getaways, limited edition artwork, and more. The two auctions raised over \$30,500, a significant sum for which we are very thankful.

Thank you to everyone who donated, who purchased, and who helped to organize the spectacular event. It was a grand evening!



## Hockey Tournament Scores

The 5th annual PDAC-Caracle Cup Hockey Tournament, played at Canlan Ice Sports in Toronto, was a great success, raising funds for **Mining Matters'** education initiatives. The tournament's reputation for networking and friendly competition, all in a good cause, enticed 16 teams (with 256 players from across the country) and 35 industry sponsors to participate. And again this year, we enjoyed the support of tremendous volunteers. We would like to thank everyone for their invaluable support and participation.

Hockey legend George Pesut dropped the puck to launch the championship game. Congratulations to the Trelawney Prospects, who will see their names inscribed on the prestigious Caracle Cup a second time. The tournament's most valuable player was Tyler Johnston of team CRIS — Canadian Resources Insurance Solutions.

Always a crowd pleaser, the exciting HDI Shoot for Loot had Mark Griffiths, of Tetra Tech, do his best to shoot a puck from the red line through a 9 cm hole in a board at the net to win \$10,000. Our silent auction also satisfied many with a chance to win sports items, including a Montreal Canadiens chair from the Forum with an original Jean Béliveau autographed jersey.

The PDAC-Caracle Cup is an important **Mining Matters'** annual fundraising event. We're pleased to say that, each year, the limited number of sponsorships sell out quickly. If your company would like to put together a team for the 6th annual event, please contact Laura Clinton at [hockey@pdac.ca](mailto:hockey@pdac.ca).



PDAC-Caracle Cup Hockey Tournament winners, Trelawney Prospects



## Golf Classic Sparkles

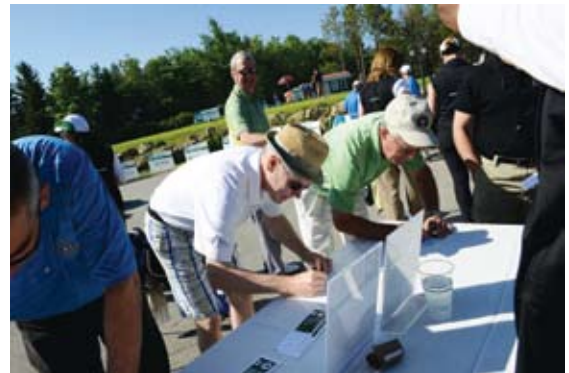
Since 2006, **Mining Matters'** Diamond in the Rough Golf Classic has generated considerable funds in support of our education initiatives. This year, approximately \$30,000 was raised, all in support of our three pillars of programming: public outreach, teacher training and school programs, and Aboriginal education and outreach.

The lush green of the Woodington Lake Golf Club once again provided the beautiful backdrop to a fantastic day of golf and camaraderie. This year, participants were treated to a wide variety of fun and delicious stops along the 18 holes, including the Jamaican Jerk Chicken hole (a crowd favourite!) and the much-buzzed Vegas Baby "Hole in One" Challenge.

New to the program this year was a 70 km cycling event. Six riders, led by William Mercer, former PDAC president and current VP of Exploration, Avalon Rare Metals, braved the day's heat to raise funds without hitting the links. Owing to its immense popularity with riders and golfers alike, the cycling option will return in a bigger way to the 2013 tournament program.

Rounding out the day was a fantastic reception in the Woodington Lake clubhouse, where diners heard from **Mining Matters'** President Patricia Dillon and board member William White of IBK Capital Corp.

We would like to send out a big thank-you to all who attended this **Mining Matters'** signature fundraising event. We particularly thank IBK Capital for once again providing outstanding support as our Diamond Sponsor. We look forward to seeing past and new participants at our 6th annual Diamond in the Rough Golf Classic in June 2013!





## Interest in Aboriginal Education and Outreach Soars

**Mining Matters'** Aboriginal Education and Outreach Programs consist of professional development workshops for teachers and employment officers, in-class workshops for students, community-based camps, and school programs.



### Workshops

This year, from September to November 2012, in partnership with Ontario government, **Mining Matters** teams are presenting 6-hour Mineral Exploration and Development workshops in Northern Ontario First Nation communities: **Mishkeegogamang, Cat Lake, Slate Falls, Wunnumin Lake, Nibinamik, Constance Lake, Marten Falls, Webequie, Eabametoong, and Attawapiskat**. Presentations focus particularly on geology and technology, mineral exploration and mining and business of the mining cycle, opportunities for contribution and participation in the sector, and potential career opportunities. The second phase of the program includes a 3-hour presentation by the Ministry of Northern Development and Mines staff who deal with legislation and regulations of the industry, as well as answer any inquiries regarding specifics in the region.

### Mining Rocks Earth Science Camps

The Mining Rocks Earth Science Camps feature up to five days of hands-on learning and activities. Through field activities and classroom lessons, youth learn about topics ranging from exploration, Earth process and structure, GPS and compass work, to mining operations, health and safety, geochemistry and biodiversity, and careers in the minerals industry. They talk to mining industry professionals, experience geology labs, and see advanced mining technologies in action at mine and exploration sites near their communities.

The demand for our Aboriginal outreach camps is astounding. After mounting 10 successful camps last year, we received requests for nearly 20 this year. Resources and time allowed us to do only so much, but thanks to sponsorship by such foresighted partners as Agnico-Eagle Mines, De Beers Canada, Detour Gold, First Nations Natural Resources Youth Employment Program, Goldcorp, Rainy River Resources and Sagamok First Nations, who directly sponsored some of the camps, and the increased support we've received from industry in general, we bumped up the number of camps to 12, offered in northern Ontario, Manitoba, and Nunavut.

### Adapted Materials

This year we took the step to have our popular **Mining Makes It Happen** education posters translated into Cree, Ojibwe and Oji-Cree, making them more useful than ever for our Aboriginal Education and Outreach Programs. We would like to thank the Ontario Geological Survey, Ontario Ministry of Northern Development and Mines, for its help in the process of translation. Look for these new poster versions in the fall.

Summer interns at Red Lake, ON



## Together Again in Labrador

In April, 2012, Manager, Aboriginal Education and Outreach Programs Barbara Green Parker teamed up once again with Outreach Geologist, NL Department of Natural Resources, Amanda McCallum to deliver a series of student-oriented workshops in schools on the coast of Labrador. The workshops carried on the Rural NL Workshop Series, launched in Spring 2011, also presented in a partnership between the two organizations.

As one of several key elements of the Geological Survey's minerals and geoscience outreach program, this educational initiative complements the rocks and minerals component of the curriculum. The two-hour workshops targeted NL curriculum learning outcomes for grades 4 (Life Science: Rocks, Minerals and Erosion Unit) and 7 (Earth's Crust Unit).

The workshop targeting junior teachers is called *Deeper and Deeper*, where teachers and students examine rocks and minerals to investigate their importance in daily life. They also discover the benefits and costs of using products made from mined materials. Each teacher received a resource tool kit which includes lesson plans, mineral testing equipment, rock and mineral samples, posters, photographs, diagrams, a book, a video, and a card game used in the activities.

Workshops were held in Sheshatshiu Innu School (Innu Education), and schools in Nain, Hopedale, Makkovik, Postville, and Rigolet (Labrador School Board).



## Taking it Interns

*Over the summer of 2012, six university students worked with Manager, Aboriginal Education and Outreach Programs Barbara Green Parker to deliver Aboriginal Education and Outreach camps. One of those interns, **Katherine Redpath**, shares her experience.*

Travelling across Canada, meeting chief geologists of world class mines, exploring historically rich mining communities—what could possibly make a summer better? Knowing that while having all these wonderful experiences, you are making a difference.

I am a recent graduate of Queen's University with an honours degree in Geological Sciences. This summer, I was fortunate to be part of an amazing team of summer interns for the **Mining Matters** Aboriginal Education and Outreach Programs, teaching about geology, mining, and the Earth sciences using fun, challenging, and engaging activities. Our team, working with Barbara Green Parker, included Queen's and UofT students/graduates: Jennifer Taylor, Vanessa Lee, Marc Formosa, Amanda Schevers, Rebecca Tottle, and me. Our educational backgrounds included mining, engineering, and paleontology, and everyone brought unique perspectives and experiences to the team.



Our initial training was exhilarating but exhausting. We began by learning how to plan and organize the ten summer camp programs scheduled for predominantly First Nations communities. We learned how to manage a classroom, to prepare and tear down camp, and to run program activities.

We trained for Wilderness First Aid and CPR certification. We also forged a supportive and collaborative group environment, building a sense of camaraderie.

We were excited about our first camps, which, led by Barbara, we were to run in teams of two. Before we knew it, we were taking turns flying in and out of Toronto while the rest provided support back at the office, shipping and receiving boxes and coordinating material. The four months went by in a blur.



Katherine Redpath and Marc Formosa

At my first camp, and throughout the summer, I was thrilled to find that community leaders eagerly supported the program, passionate about enhancing education. We were also very fortunate to work with inspiring experts from sponsoring companies, who shared their experiences. I found discussion about careers especially important as it illustrated the job possibilities—from chefs to lawyers—at a mine site that are not directly related to a typical mining job (if such a thing exists!).

One of the most remarkable things about the **Mining Matters** Aboriginal Education and Outreach Programs is how extensive and inclusive it is. The camps took place in both fly-in only communities and accessible cities. It catered to 2 to 83 year olds and participant knowledge ranged from those unfamiliar with the industry to those informed enough to consider mining their own property. The program offered a respectful, comfortable learning environment for participants and the activities were easily adaptable, allowing everyone to learn.

I asked in my interview with Barbara what she thought was her most rewarding experience. She replied, "Seeing the camp participants learning and hopeful for the future." I now understand. At the end of one program, some participants shook hands with Marc and me, thanking us for coming. Small gestures like that let us know that we had made an impact.

This summer gave me many unforgettable experiences. It has been a pleasure working alongside of my fellow interns, professionals, and our fearless leader Barbara, whose dedication, hard work, and unfailing enthusiasm made this program possible. We had an amazing summer as a team, supporting each other, and becoming fast friends. The camps were all so exciting and different, we could have spent days telling stories, comparing who had the most amazing experience with surface and underground tours, job offers, visits to places few people get to see, wild adventures, and touching experiences with children and community members.

We are all very optimistic about the future of the **Mining Matters** Aboriginal Education and Outreach Programs and know that these programs will continue to grow and be successful. During the school year, while the rest of my fellow interns return to their studies, Vanessa and I are in the enviable position of being able to continue our adventure through this fall, and I can't wait!



Aboriginal Education and Outreach Programs summer interns

## Prospector Perspective

Jessica Bjorkman revels in life in the northwestern Ontario bush, despite, or perhaps because of, its many challenges. And she prospects. Also, for several years, Jessica has enthusiastically volunteered her skills at **Mining Matters** Aboriginal Outreach Camps, teaching about prospecting as a key role in the mining and mineral exploration industry.

Manager, Aboriginal Education and Outreach Programs Barbara Green Parker says that Jessica's participation in the camps proves to be "a highlight for the kids as she glides through the dense bush and leaves them in the dust, then chops down a tree in three swings of her axe to make a claim post for them."

Hands-on experience like this inspires camp participants to learn more about the industry. **Mining Matters** greatly appreciates Jessica sharing her time and experience. We asked her to tell us a little about herself.

**MM:** *Jessica, did you undertake any special training or education to become a prospector?*

**JB:** No. You learn how to prospect from experienced prospectors. Basically, you need to recognize alteration in rocks and sulphides, be curious and hard-working. Having said that, I constantly learn more about geology through workshops, courses, conventions/symposiums, field trips, and from other geologists/prospectors.

**MM:** *Do you have an area of specialization or particular interest?*

**JB:** Prospecting for gold is probably the most fun. Where you actually find gold seems to transcend preconceived ideas and academic reasoning, and gold is such a beautiful mineral to see in rock.

**MM:** *What is your favourite part of your job?*

**JB:** I love that every day offers something different: covering areas of the Canadian wilderness I would never think of going if prospecting didn't take me there, meeting new people, seeing new rocks, learning about geology, and experiencing the ever-changing face of nature.

**MM:** *Why do you volunteer with the Mining Matters Earth Science Rocks Camp Program?*

**JB:** This industry needs to educate the public about mineral exploration and mining. The best place to start is with our youth. People don't realize that mining in Canada has come a long way since the 60s and our practices have made great advances in being environmentally conscious. People are oblivious to how much of their world-like laptops, transportation, and modern homes depends on mineral products. The Mining Matters program teaches facts and shows the positive side of mining in Canada.



Jessica Bjorkman in the field

**MM:** *What is your favourite thing to do with the participants in the camp?*

**JB:** The best part is taking them out in the bush to have some hands-on contact with what we do. They love it; they "get it" when they're out there; they develop respect for the job.

**MM:** *Why does mining and Earth Science matter to you?*

**JB:** Geology is an amazing science. It is trying to figure out a huge 3-D puzzle when you only have a few of the pieces. Finding gold or other economic minerals in this puzzle requires some knowledge, some luck, but mostly a lot of walking the ground and hitting rock, always with the hope that maybe there's a deposit lurking beneath the dirt waiting to be discovered; to me this is what defines someone who is a prospector at heart.

**MM:** *Is there anything you would like to add?*

**JB:** I am concerned for the prospectors in this industry. They are where it all begins. Almost every mine deposit in Ontario was initially discovered by a prospector. However, with new laws and regulations that favour large mining companies, if we aren't careful, we will lose a type of worker who fits a valuable niche.



## Here, There, Everywhere!

From Halifax, Nova Scotia to Whitehorse, the Yukon, **Mining Matters** activities are in demand. **Mining Matters** staff teams up with other enthusiastic geoscience advocates team, to take the message to the public.

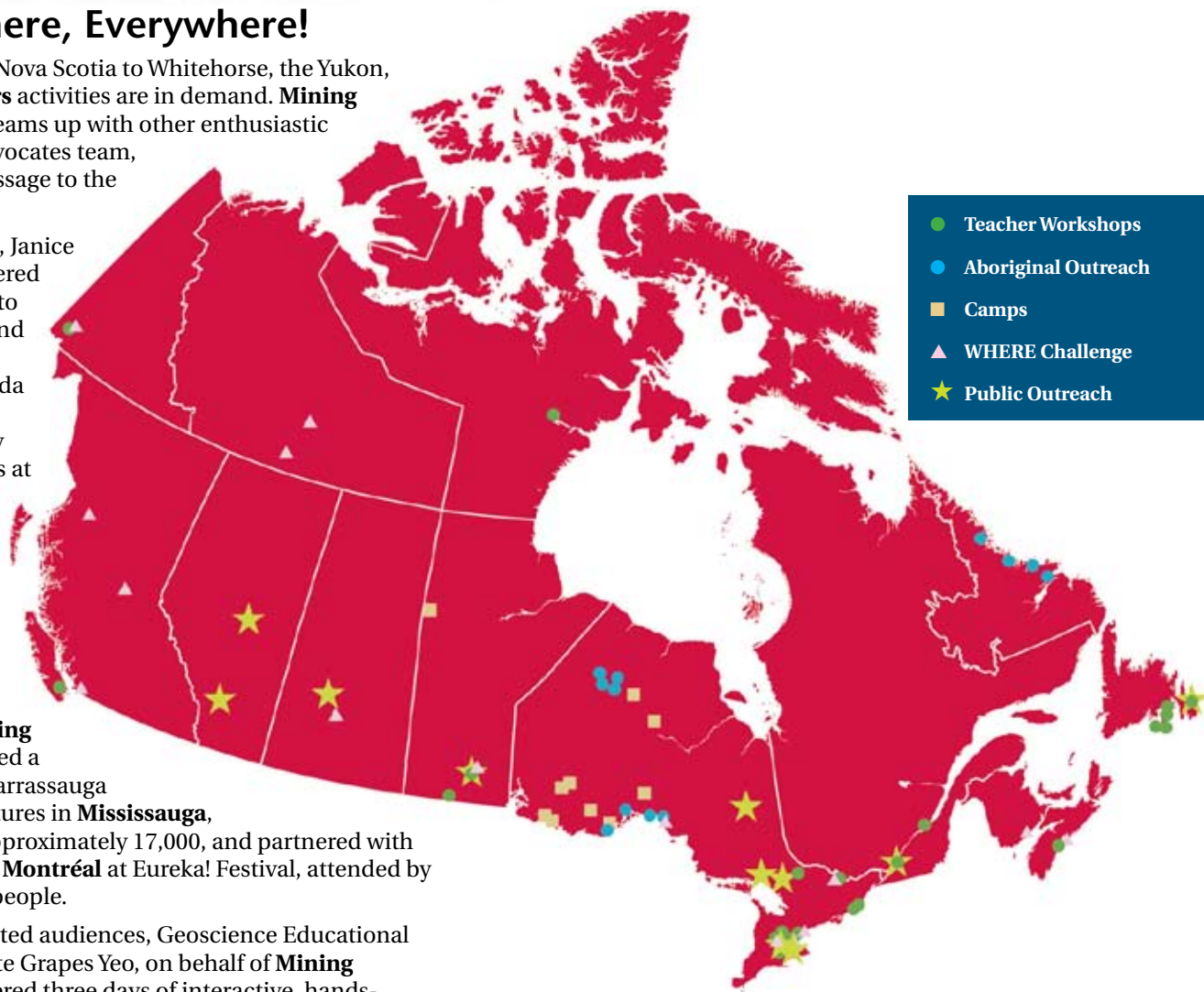
In **Whitehorse**, Janice Williams delivered programming to 125 students and 8 teachers. In **Halifax**, Amanda Dillon spoke to 140 Industry representatives at the *Geology Matters* conference.

And we tried something new this year. Aiming for the broad public audience, **Mining Matters** manned a booth at the Carrassauga Festival of Cultures in **Mississauga**, attended by approximately 17,000, and partnered with Minalliance in **Montréal** at Eureka! Festival, attended by nearly 62,000 people.

For more targeted audiences, Geoscience Educational Consultant Kate Grapes Yeo, on behalf of **Mining Matters**, delivered three days of interactive, hands-on, educational activities, and developed three new ones—Sandbox Mining, Pin the PPE on the Miner, and Career Concentration— at three public outreach shows: Edmonton 2012 CIM M4S, Calgary 2012 Earth Science 4 Society and Mining Rocks (Manitoba Mining Week).

In **Saskatoon**, 3000 students and 60 teachers from more than 60 schools attended and explored interactive pavilions designed to give them a better understanding of the scope and potential of career opportunities in the mining, minerals, metals, and materials sectors.

The **Edmonton** event saw over 3000 students, Grades 3 to 12, attend from 57 schools, as well as approximately 500 members of the public. U of Alberta Engineering students helped to deliver ten activities at pavilions showcasing Exploration, Mining, Processing, Products & Fabrication, Sustainability, Safety, and Careers and Education. **Mining Matters** was the main provider of educational hands-on activities for every pavilion.



In **Calgary**, three U of Calgary geophysics students helped deliver five activities to approximately 1,400 grade 7 students and over 350 members of the general public. Several exhibitors, particularly from Nova Scotia and Yukon, expressed interest in **Mining Matters** activities.

In **Winnipeg**, three U of Manitoba geology students helped deliver five activities to approximately 450 grades 3 to 8 students and 1,000 members of the general public. Many other exhibitors and people interested in mining outreach checked out **Mining Matters** activities.

**Mining Matters** was on the spot at both the **Waterloo** and **Ancaster** Gem and Mineral Shows and also supported **North Bay** as well as **Timmins** Mining Weeks with resources for teachers and students.

## Teacher Training

Teachers across the country are thrilled to have **Mining Matters** staff demonstrate our exceptional teaching resources and leave them with educational kits and activities for their use in classrooms. Over the last year, over 25 workshops delivered **Mining Matters** material to 765 teachers and pre-service teachers at such diverse locations as **Iqaluit** in Nunavut; **Whitehorse** in Yukon; **Cross Lake, Winnipeg** and **Cranberry Portage** in Manitoba; **Kingston, Sudbury, Oshawa, Toronto, Brantford, Aurora** and **Mattawa** in Ontario; **Laval** and **Montréal** in Québec, and **St. John's** in Newfoundland.



Teachers at EdGeo junior teacher workshop at the Johnson Geoscience Centre in St. John's, Newfoundland May, 2012



Teachers Mining Tour on underground mine visit

## Teachers Mining Tour

For a third year, **Mining Matters** took part in the Canadian Ecology Centre's (CEC) Teachers Mining Tour, presented August 6 – 10, under the Teacher Training and School Programs banner. Educator Janice Williams delivered workshops to 35 participants, utilizing *Deeper and Deeper* and *Discovering Diamond* curriculum activities. New **Mining Matters** staff members Heather Henry and Amanda Horn also attended, getting “boots-on-the-ground” experience with **Mining Matters** program delivery and exposure to the industry.

From learning about the initial stages of both surveying and prospecting land (with the help of a real prospector), to getting to touch and feel finished nickel products at the Vale Copper Cliff smelter, the engaging experiences offered at the CEC's Teacher Mining Tour over five days provided an intense study of Canada's most important industry.

The tour gave educators much needed foundation knowledge of the mining process and cycle, as well as specific information about modern mining processes, practices, and the opportunities available to students. It highlighted important regulatory procedures, environmental impact considerations, and land use practices that the industry adheres to and discussed the economic health and prosperity the sector brings to Canada.

Educators walked away from this experience knowing much more about the complex nuances and vital relationship the sector has with our society because of this tour. The CEC has been a valuable partner to **Mining Matters**, giving us the opportunity to connect directly—formally and informally—with Earth science educators who want new and exciting materials that can make their classroom experience even more meaningful and informative.

It was clear during the tour that J.S. Redpath, Vale, Xstrata, and Atlas Copco join us in our pursuit of educating those outside the industry about the importance and necessity of mining in Canada. **Mining Matters** hopes that industry members will continue to support future CEC Teacher Mining Tours, as the experience provides a much needed perspective of the industry and shows that indeed mining matters to us all!



## Hands-on Learning: 2012 PDAC Convention

Thirty-four teachers took advantage of a full day of **Mining Matters** programming at the 2012 PDAC Convention. Teacher Barb Ruskowski, St. Marguerite d'Youville Secondary School, Brampton, ON says, "I

had a great day at PDAC 2012. Not only did I learn new things, but I also received professional educational resources and samples ready to be used with students. I would highly recommend teachers' day at the PDAC Convention for all science and geography teachers, and for all who are interested in Geoscience."

Students also had special junior and

senior days dedicated to them: 99 junior students and 83 senior students experienced **Mining Matters'** fun activities and the wonder of the Convention Trade Floor.



*"A great opportunity to learn about the mining industry and the importance of teaching this to students as it is such a growth industry."*

– J. Dechenes, Grade 4 Teacher  
Rainbow District School Board, ON



Stella Heenan and teachers touring Trade Show

## WHERE Challenge

The WHERE Challenge, managed by **Mining Matters**, is a national contest that promotes awareness of non-renewable Earth resources. It asks young Canadians aged 9 to 14 "What on Earth is in your stuff?" and "Where on Earth does it come from?" The 2012 WHERE Challenge had nearly 1000 participants from coast to coast with 163 entries that were either individual or group.

Teachers whose classrooms have participated in past WHERE Challenges say the contest offers students, teachers, and even parents something unique—an engaging project that's as entertaining as it is educational.

"I believe my students' ideas about the world we live in changed as a result of participating in this contest," said Suzanne Wernli-Roy, a B.C. elementary school teacher whose grade 5/6/7 class won close to \$1,000 by making a video following a visit to an aluminum smelter in Kitimat. "Even if we hadn't won a prize, we still would have won. We came out of the adventure with a better understanding of the world, the marvels of industry, and the challenges up ahead."

The WHERE Challenge 2013 launched on September 4, 2012 and will run to March 1, 2013. If you have children in school, be sure to encourage their teachers to investigate the possibilities. There are cash prizes to be won! Take a look at some of the winning ideas kids have come up with at <http://earthsciencescanada.com/where/>





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## Power to the People

**Mining Matters** has a new *Mining Makes It Happen* poster coming off the presses this winter. With climate change becoming a major concern in our lives, we've called on science to develop alternative energy sources that can help us reduce our gas and oil consumption habits. A number of alternatives are out there, from wind turbines to nuclear plants, some more Earth-friendly than others, but all of them produce cleaner energy. In *Power to the People...Mining Makes It Happen*, featuring work by B.C. artist Stephan Baker, we'll show how metals and minerals are key components in alternative energy technology. We thank Stephan for volunteering his talents to this educational project.

*Power to the People* is the third original poster in our *Mining Makes it Happen* education series. Also available are *From Northern Lights to Urban Trails*, which highlights snowmobiles and the metals and minerals that go into them; and *Cutting Edge*, which examines the metals and minerals in the equipment and venues used by skaters. These two previously produced posters are available in English, French, Cree, Oji-Cree and Ojibwe.



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Donating shares to a charitable non-profit organization such as **Mining Matters** may be of particular interest to those in the mining industry, due to the considerable tax benefits that can be realized.

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The donation of flow through shares can produce even greater benefit, as a deduction is offered at the time of purchase and a tax credit is generated when the shares are gifted. However, new rules apply to the amount of the exemption for capital gains.

To learn more about donating securities, including flow through shares and the effects of the latest budget, please contact Edward Thompson at 416-366-6083 or [egt@interlog.com](mailto:egt@interlog.com), or Durham Sims, **Mining Matters'** Investment Advisor at RBC Dominion Securities at 416-842-3086, 800-561-4468 or [durham.sims@rbc.com](mailto:durham.sims@rbc.com). Both Mr. Thompson and Mr. Sims serve the organization in a volunteer capacity.