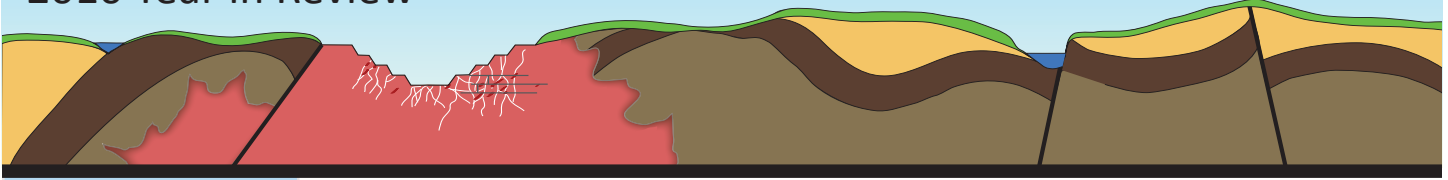


Mineral Resources Education Program of BC 2010 Year in Review



Building the Knowledge Base



"Education is the way to build long-term awareness, acceptance and support for responsible mineral resources development."



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The Mineral Resources Education Program of BC (MREPBC), our industry's Kindergarten to Grade 12 school program, marked its 19th year of operation in 2010. Our various core programs and new initiatives for teachers and students were carried out to continue building understanding of our Earth, its mineral resources, and mining, and of the relevance of this knowledge to everyone.

In 2010, MREPBC supported an additional 160 teachers through workshops, field trips, conference programs and other initiatives, raising the total number of teachers directly impacted by MREPBC since 1991 to more than 7,600 across the province. Our instructional workshops (*Page 2-3*) were presented to teachers in Vancouver, Surrey, Kamloops and Williams Lake. Our popular field trip offerings (*Page 4-5*) included both Downtown Vancouver and Sea-to-Sky Geotours, run in partnership with Geological Survey of Canada (GSC) geoscientists, and grand tours of both Highland Valley Copper and Copper Mountain mining operations, courtesy of their operations' staff.

MREPBC also supported • more than 1,800 students through field trip travel and in-class workshop subsidies in 2010 (*Page 5*), • over 900 students in our new *Kids & Rocks* classroom workshop (*Page 3*), • close to 150 more through special programs at *Roundup* (*Page 6*), • thousands via our contribution to the CIM's *Mining in Society* exhibit (*Page 7*), and • countless others who have been taught mineral-relevant curriculum in school by their MREPBC-supported teachers again this year. In addition, we dedicated resources to rebuild our educational Web site www.bcminerals.ca (*Page 3*) to better serve our audiences.

Our dedicated teacher-partners, industry collaborators and volunteers are key to our program's success year after year. Our teachers guide program content and delivery, and ensure our offerings are relevant and credible. Our collaborators, like the folks at operations and the GSC geoscientists, share first-hand knowledge with educators, who then share with their students. Our many enthusiastic volunteers demonstrate their support for education in many ways - when they share career stories with highschool students at *Roundup*, explain diamond drilling to youngsters with a cake and straw, or welcome work experience students into their offices. Together we work to build the knowledge base required by society to sustain and appreciate our minerals industry.

Thank you to Our Contributors

MREPBC is fortunate to have received funding from individuals, groups and companies that was needed to carry on meaningful educational programming again this year (*Page 8*). Donations for operations in 2010 totalled \$188,000, while donations to the MREPBC Endowment Fund reached \$923,000 this year, largely thanks to the enormous generosity of two individuals, Robert Dickinson and Ronald Thiessen. Together with the \$200,000 matching donation from Teck Resources, the MREPBC Endowment Fund stands at \$2.8 million, growing into an investment instrument that will eventually secure the future our mining industry's invaluable school program forever.

Thank-you!



Students at *MIS* learn about assaying from BCIT's Elaine Woo (see *Page 7*).



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Teacher Workshops and Classroom Resources



Each year MREPBC takes opportunities to share our resources and provide instructional workshops to teachers around the province. Our resource units (right) support curriculum outlined by the BC Ministry of Education; we now share three secondary units as downloadable files via our Web site (www.bcminerals.ca). Our partner-teachers (*Page 7*) deliver workshops for the other MREPBC Resource Units at professional development ("pro-d") conferences, personally providing instruction on the subject, and guidance on how to use the resources and engage students.

Our destinations vary from year to year, dependent on district schedules and budgets. In 2010 MREPBC delivered five elementary and secondary level workshops that were held in Vancouver, Surrey, Kamloops, and Williams Lake reaching an additional sixty-eight teachers. Much anticipated workshops in Fraser Lake were cancelled by snow, but rescheduled for 2011.

Kamloops - Discovering Diamonds

Explorers are not looking for diamonds in the Thompson River valley, but that did not deter MREPBC teacher-partners Aliisa Sarte and Kathy McDonald from presenting their engaging, hands-on workshop for the *PDAC Mining Matters' Discovering Diamonds* resource unit to five Kamloops area teachers in February. This well thought-out classroom resource uses diamonds as a theme for addressing a range of topics in secondary level Earth Science, Geography and Geology courses.



SD 73 teachers consider environmental impacts in designing their mini-mine in the *Discovering Diamonds* workshop.

Williams Lake - K-3: Kids and Rocks and Grade 5 Mining

On the heels of our teacher-field trip to Gibraltar Mine in fall 2009, MREPBC partner-teachers Ann Brace and Andrea Eisler, Laura Estrada and Sheila Stenzel, travelled to Williams Lake in April to deliver inservice workshops for our *K-3 Integrated Resource Unit: Kids and Rocks* and *Grade 5 Integrated Resource Unit on Mining* units to fifteen area teachers. We were joined by Jerry Price, Coordinator for Education and Training for Taseko Mines, who gave an informative presentation on the mining process and workforce at Gibraltar Mine.



Guest speaker Jerry Price shares information with teachers about the Gibraltar operation and workforce, Williams Lake.

In the last several years SD 27 has been successful in establishing good connections with both Gibraltar and Mount Polley mines to deliberately familiarize young people with all the opportunities for future mining careers. Our workshops and resources for elementary teachers support this work, helping build the knowledge base of mining among their youth early on. Additional support for class field trips by both operations give local students a first hand look at the mining process and a much clearer picture of the workers and their jobs.

Grade 5 Workshop Teacher Feedback: *Ladies, Jerry: You were great! I learned a lot that I can inspire my students with, and I picked up some practical activities as well.* C. Burns, Nesika Elementary, April 2010

MREPBC PROGRAM OVERVIEW

RESOURCE UNITS

This is the heart of the Education Program, a suite of **teacher-written and teacher-developed** RESOURCE UNITS that are matched to British Columbia curriculum:

- *K-3 INTEGRATED RESOURCE UNIT: KIDS & ROCKS*
- *Gr. 5 INTEGRATED RESOURCE UNIT ON MINING*
- *SCIENCE OF MINING RESOURCE UNIT (SECONDARY)*
- *SOCIAL STUDIES GRADE 10/11 MINING IN BC*
- *EARTH SCIENCE 11/GEOLGY 12 - RESOURCES & IDEAS*

VIDEO RESOURCES

- *CAREERS IN THE MINERALS INDUSTRY*
- *DIGGING FOR ANSWERS (ENVIRONMENT)*
- *ROCKS & DIRT JUST AREN'T MY THING... OR ARE THEY? (MINING PROCESS)*
- *MINING TECHNOLOGY: A NATURAL SCIENCES & ENGINEERING TECHNOLOGY DIPLOMA PROGRAM AT BCIT*

The Resource Units are produced as **kits** that include a teacher's instructional binder plus a wide variety of support materials including teacher-information, lessons and activities, videos, posters, rock and mineral samples



and other materials as required. Complete kit contents may be viewed at: <http://www.bcminerals.ca/s/ResourceUnits.asp>.

WEB SITE: WWW.BCMINERALS.CA

Our Web site provides information on the Education Program, as well as minerals, mining and geoscience information for teachers and students.

EXTENDED LEARNING OPPORTUNITIES

MREPBC collaborates with operations, industry groups, related ministries and post-secondary programs to create special learning events for teachers and students.



TEACHERS' UPDATE

Our bi-annual newsletter for teachers provides information on new mineral-relevant resources, up-coming workshops and field trips, conference opportunities and mining in the news. Each issue is posted on our Web site: <http://www.bcminerals.ca/s/Newsletter.asp>.



What's New?

www.bcminerals.ca - new look, new content, new resource

MREPBC surveyed teachers in 2009 for feedback on how MREPBC could better support them and their students through our Web site. We then brought in experts to design the pages and advise us on our functionality goals, and worked in-house on reorganizing our content to make it more accessible to visitors. We handed everything off to Adnet Communications Inc., who built our new and improved www.bcminerals.ca.

Our new site is a dynamic, more interactive portal for accessing our many popular resources (e.g. career profile videos, *Rockstar 101* powerpoint, drilling, blasting and mining animations), and for sharing information on all our teacher-directed professional development programs, and special learning opportunities for students.

New to www.bcminerals.ca are • a Google-map based *BC's Mineral Resources* section with details on current coal, metal and industrial minerals operations; • a searchable teacher resources database queried by grade level, content and resource type; • a Junior Geologist and Junior Miner library with downloadable PDFs; • captioned slide shows on the mining process and mineral processing; • geoscience and mining news, and much more.

We have also included Support MREPBC, a section which acknowledges our donors and volunteers, offers information on other ways to support outreach education, and provides a link to *CanadaHelps.org* through which online donations to MREPBC may be made. If you haven't already done so, add www.bcminerals.ca to your Web Favourites to keep abreast of what we are doing and discover how we may be able to help you. We look forward to your feedback.



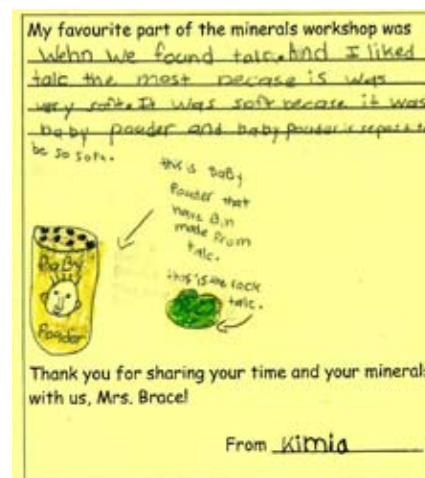
Queen Alexander students explore rocks with Ms. Brace, Feb. 2010

Kids & Rocks - Student Workshop

Kids & Rocks is MREPBC's newest program, a half-day hands-on workshop for early elementary students that explores rocks and minerals, introducing geologic processes and vocabulary along the way. It is presented by MREPBC partner-teacher Ann Brace, who brings her fascination with rocks and all the materials each child needs: a diverse collection of rocks and minerals plus a hand lens, magnet, hardness testing kit, streak plate and a flashlight.

Guided by Ms. Brace, the students examine and then sort their collections by important physical properties: colour, streak, lustre, hardness, texture, specific gravity, etc. Exploration requires all their senses - dipping pebbles into water to see colour changes and discover the floating volcanic pumice, smelling the streak powder to identify minerals made of sulphur, using a magnet to identify which of their samples is iron-bearing magnetite, and even tasting salt to identify this familiar mineral.

This very well-received workshop was made possible by a \$14,000 grant from the *AME BC Outreach Education Fund*. This year *Kids & Rocks* has engaged more than 940 children in 35 Lower Mainland schools validating their interest in and learning new things about rocks!



WORKSHOPS, continued from Page 2

Vancouver - K-3 Integrated Resource Unit: Kids and Rocks

MREPBC partner-teacher Ann Brace and Sheila Stenzel presented an inservice workshop to twenty-eight primary teachers for our K-3 resource unit at the Vancouver School Board in October. Over 1,700 teachers have taken this workshop and received these resources province-wide since it was first developed in 1998. We have learned through personal communication that it has also been widely shared by many teachers with their colleagues!



Surrey - Grade 5 Integrated Resource Unit on Mining

MREPBC was invited for the third year in a row to present at the *Provincial Intermediate Teachers' Association* (PITA) conference in October. Teacher-partners Andrea Eisler and Steve Kellas introduced the mining unit and provided all the support materials to twenty intermediate teachers attending from around the province. *Natural resources* is major theme of study in both the science and social studies curriculum in Grade 5 in BC. MREPBC's Grade 5 mining unit supports learning outcomes in these key subjects and other subjects very well, and is an invaluable teaching resource for new and experienced teachers alike.

K-3 Workshop Teacher Feedback: *This workshop has been phenomenal! Outstanding! ALL the information is endlessly useful, exciting, and so very much more! Thank-you! Priceless! C. Keith-Gratton, Vedder Elementary.*

Grade 5 Workshop Teacher Feedback: *Wow! Best workshop I've ever attended! Merci! L. Maars, Quadra Elementary, Victoria.*

Field Trips for Teachers - 2010

Geoscience and mining field trips help prepare teachers to teach about our Earth, geologic processes, mineral resources, and the mining process. In 2010 we were pleased to partner with the *Geological Survey of Canada* (GSC) and both *Highland Valley Copper* and *Copper Mountain* mines to orchestrate and support four professional development field trips joined by 87 educators from many BC communities. Our collaborators provided expertise and became personal connections for the teachers, while the trips modelled and inspired future travel with their classes.

Downtown Vancouver Geotour, May

MREPBC teamed up again with the GSC to present a day-long *Downtown Vancouver Geotour* for six teachers in May. Led by preeminent GSC geoscientists Malaika Ulmi and Dr. Bob Turner, the tour began at Canada Place and followed a downtown route to several buildings that display key compositions



GSC geoscientist Malaika Ulmi points to key features in slate facing stone on a Robson St. storefront.

and textures of rocks. Stops were also made at the *BC Geological Survey* where Regional Geologist Bruce Northcote introduced the group to the work of the ministry in resource management, and then on to the GSC Bookstore where they were introduced to the roles of the GSC, explored the resources at hand, and demonstrated to use in class.

Downtown Vancouver offers many excellent locations to observe, explain and discuss geologic features and processes. Those chosen for our *Downtown Vancouver Geotour* guidebook provide a great starting point, incorporating interesting historic and modern sites.

Copper Mountain Mine, Princeton, October

Mining had not commenced when twenty-five teachers from both Lower Mainland and Princeton schools toured Copper Mountain Mine for their professional development in October. MREPBC partner-teacher Bruce Kiloh facilitated this special trip, which was led by Copper Mountain Mining's VP Exploration, Peter Holbek, assisted on site by mine geologist Mark Rein and mine engineer, Steve Rempel.

As the Copper Mountain area has a long mining history and at the time was in an advanced construction stage for renewed mining operations in spring 2011, the tour provided an opportunity to observe and learn about all phases of the mineral development cycle.



Teachers observe ongoing construction in the pit below at Copper Mountain.

The teachers observed diamond drilling and core recovery, blasting, loading and hauling in the developing pit, the tailings dam and pond, and reclaimed tailings and waste rock dumps from earlier mining. It was a great opportunity to explain how access to more geological data, improved technologies for extraction, and higher base metal prices make a mineral deposit feasible to mine.



Feedback from the teachers, who taught all grade levels from K-12, was very good. Local teachers appreciated their new contacts at the operation, some intending to follow-up with class field trips in the future.

Copper Mountain Mine Field Trip Feedback: *The field trip was excellent... informative, engaging and immediately useful. Thank you for coordinating the event. I look forward to taking my students to the mine site at some point in the spring.* A. Humphries, Prince of Wales Mini School, Vancouver

Sea to Sky Geotour, October

MREPBC partnered again with the GSC to orchestrate and support an all-day field trip for twenty-five Lower Mainland teachers to learn about the geology, natural history and natural hazards along the Sea to Sky corridor. The trip, facilitated by MREPBC partner-teacher Aliisa Sarte, was led by GSC geoscientists Dr. Bob Turner, Dr. Melanie Kelman, Malaika Ulmi, and Marianne Quat. The field trip followed many of the stops featured in their recently published NRCAN *Sea to Sky Geo Tour Guide*, including Mount Garibaldi basalt flows, Coast Mountain granites, evidence of glaciation, and measures to prevent landslides and contain debris flows. The trip also included a stop at Britannia Mine Museum to learn about the site as an educational venue for classes of all ages and to give everyone a chance to see the impressive, new developments at our industry's national historic site.



Teachers examine and learn about glaciation from the polish and striations on granite exposed near Squamish, October.

NRCAN provided each teacher a package of supportive geosciences materials, including a copy of the *Sea to Sky Geo Tour Guide*, to which MREPBC added a selection of other mineral-relevant resources. MREPBC received a grant from EDGEO to cover the costs of delivering this field trip. The feedback from all involved was positive, with many teachers commenting on the value of the whole experience to their science and geography teaching.

Sea to Sky Field Trip Feedback: *It fits my ESCI 11 program perfectly. The stops were excellent in explaining the geology of the area. The staff members were knowledgeable and passionate about their fields. The best pro-d I have attended in 29 years of teaching.* F. Sipocz, Abbotsford Collegiate

Highland Valley Copper Mine, Logan Lake, October

MREPBC teacher-partner Andy Warkentin worked with Laura Estrada to plan and facilitate an all-day pro-d field trip for twenty-seven teachers to Highland Valley Copper Mine (HVC) near Logan Lake. Special invitations were issued to *career education teachers* and *career planning coordinators*, particularly those from Lower Mainland schools, to provide an opportunity to familiarize them with the breadth of careers at mining operations.

Several HVC staff (*below*), enlisted and led by Mark Freberg (Manager, Strategic Planning) and Jacqui Schneider (Community Affairs Officer), spoke to and/or guided different parts of the tour. The visit included pit operations and control, mill operations and control, mine maintenance and reclamation. At all key stops, and in special presentations in the boardroom, staff explained the mining process and highlighted the variety of skilled workers at each stage, the nature of the work, and the background or on-site



Every teacher took the once-in-a-lifetime chance to climb into the HVC haul truck.

HVC Field Trip Feedback: *I would label this the coolest professional development day ever. It was perfectly organized and at a level I fully understood. Thank you so much for a valuable and interesting day.* J. McKay, North Delta Secondary

training required. Speakers also addressed the hiring protocol at the mine, spoke specifically about the skilled trades, and shared many examples of advancement opportunities through on site training for motivated employees.

MREPBC provided each teacher with our Career Educator's support package. HVC kindly provided lunch and a summary of current mine information. Coach transportation was largely covered by a contribution from the *BC Mineral Exploration and Mining Industry Labour Shortage Task Force*. The field trip to HVC was very well received by the teachers, most of whom had never visited a mine and appreciated the chance to better understand the complex mining workforce.

Thank-you to Highland Valley Copper Mine Personnel: Sam Costa (Sr. Training Coordinator, Mine Operations), Richard Doucette (Environmental Coordinator), Mark Freberg (Mgr., Strategic Planning), Ron Graden (Sr. Mine Engineer and Geologist), Kerstin Johansson (Sr. Process Metallurgist), Jeff Lapointe (Technical Support Analyst), John Ritter (Mgr. Maintenance, Executive Management) and Jacqui Schneider (Community Affairs Officer) for sharing your time and making the tour a great learning experience!

Field Trip and Workshop Support for Classes

Our most enthusiastic and inspiring teachers vouch for the enormous value of field trips in their students' education. Since our beginning, MREPBC has provided subsidies to schools for field trip travel. As difficult logistics and costs have become even bigger barriers to travel,



we have also extended these subsidies to also help schools cover costs of select mineral-relevant classroom workshops.

In 2010 MREPBC disbursed \$6060 to support 1872 students with field trip travel, and with Yukon Dan (Moore) gold panning and *Science in Motion's* geology and dinosaurs classroom workshops (Prince George area). Classes' field trip destinations were as varied as the Britannia Mine Museum, Highland Valley Copper mine, Sullivan Mine, a Sea to Sky geology, Camp Zajac Ranch, Elkview Mine, the KEG conference, and the SFU Earth Sciences lab. These field trips and hands-on workshops provide unique and memorable experiences that complement and reinforce students' classroom learning about Earth science, Earth's mineral resources, and mining.



Geology 12 students visit columnar jointed basalts on their Sea to Sky geology field trip, Spring 2010.

Careers Initiatives

Raising awareness of careers in our industry is a direct or indirect goal of every MREPBC initiative. Whether providing educational materials, workshops, field trips or conference programs, our support for teachers helps them prepare and encourages them to teach Earth Science and mining in their classes. Their units then provide a platform for considering and discussing the nature of the exploration and mining workforce and the enormous variety of skills that are required.



Tire repairer demonstrates his work to teachers visiting Gibraltar Mine

MREPBC outreach for youth, particularly those involving volunteers from our exploration and mining community, play another crucial role. These volunteers, whether they visit a class, present to students at *Roundup*, or explain some aspect of mine development at our *Mining Week Community Fair*, are role models who further fill in gaps of understanding and inspire students to consider similar careers.

Career Preparation Work Experience

Each year MREPBC also strives to secure placements within our industry for high school students seeking *work experience* in their field of interest. Students enrolled in a career preparation course or special co-op, such as science, must obtain relevant work experience (*unpaid*) to fulfill course requirements. Our industry is and has been a natural fit for students interested in geology or engineering. It is also a good fit for students interested in business, any other science, technology, communications, law, accounting, all trades, and nearly every other field.



What is Career Prep Work Experience?

Career Preparation Work Experience is a formal program for motivated students in Grades 10-12 to explore their field of interest and potential future careers by obtaining 80-120 hours of **unpaid work** in a related place of business. It is a superb way for young people to take part in the working world and for employers to show off their work and their employees.



Taking on this important role in outreach education requires dedicated staff to mentor and supervise student guests. In 2010 MREPBC's call to industry secured placements for fifteen students in March. Two were placed with the *BC Geological Survey* who divided their time between work with the regional geologist and Mineral Titles Online, and thirteen students of various interests, were hosted by *Hatch*, where staff developed a program that introduced them to the diversity of engineering projects and skilled people employed by the firm.

Support for work experience plays a vital role in securing the future workforce of the BC minerals industry. If you would like more information or would like to become involved, phone Sheila Stenzel at 604-681-4321 ext 115.



Industry Conferences

In 2010 MREPBC offered our well-known outreach programs at *Mineral Exploration Roundup* in Vancouver, and provided support as requested for *KEG* in Kamloops, *Minerals North* in Prince George, and *Minerals South* in Nelson. With the *Canadian Institute of Mining Metallurgy and Petroleum (CIM) AGM* hosted in Vancouver in May, we also supported and participated in their *Mining in Society* educational exhibit.

Mineral Exploration Roundup 2010

For the seventh year in a row MREPBC worked with the *Association for Mineral Exploration BC (AME BC)* to deliver special conference programs for students at *Roundup* in January. More than 120 grade 4-7 students from William Watson Elementary in Surrey and Dorothy Lynas Elementary in North Vancouver were honoured *Roundup Rockbound* delegates this year. Their creative Earth Science and mining projects were displayed in MREPBC's foyer and mezzanine booths at the conference for the



Elementary *Rockbounds* plot indicator minerals, part of the diamond exploration station, *Roundup 2010*.

entire week. Dozens of volunteers helped deliver our all day mini-conference for the children, a day that included exploring the tradeshow exhibits, learning about exploring for diamonds, gold panning, viewing superb displays of rocks, minerals and fossils, and presenting their problematic samples for guest geologists to examine - our *Stump the Geologist* station!

MREPBC also organized a special career-focused program for high school students, which was facilitated by teacher-partner

Bruce Kiloh. Twenty four students from five Lower Mainland secondary schools attended (Killarney and David Thompson, Vancouver; Moscrop Secondary, Burnaby; Queen Elizabeth, Surrey; WJ Mouat, Abbotsford; West Vancouver Secondary). Geology 12 students from West Vancouver also brought several 3-dimensional models which they displayed that day in the main exhibit hall.



High school student explains her plate tectonic model to MREPBC's Laura Estrada (R), *Roundup 2010*.

MREPBC engaged eight young people from our exploration and mining community to speak with the high schools students about their educational and career paths, and demonstrate the variety of skills that are required in our sector. Volunteers from post-secondary mining and geosciences programs served as guides for the day, facilitating a tour of the conference for small groups of students, and helping with their career-focused exploration of the tradeshow.

Thank-you to AME BC staff and the Roundup Committee for continuing this valuable industry-education partnership.

Thank-you to teacher partners, Steve Kellas, Bruce Kiloh, Andrea Eisler, and Ann Brace, to Maureen Lipkewich, and to guest presenters Chris Adachi (Teck Resources); Sarah Kiehne, Teresa Reyes-Byrne, and Fiona McQuillan (Hunter Dickinson); Dan Lui (Kiska Metals); James Moors (Canarc Resources); Colin Slauenwhite (Equity Exploration Consultants); Dustin Smiley (EBA Engineering); Dean Smith (SMS Equipment); Eric Von Krogh (Golder Associates); and Erin Workman (NovaGold Resources).

Thank-you to super Roundup volunteers who made it all possible: Riyan Abraham; Derek Adams; James M. Adams; Ty Balacko; Brian Beulah; Thomas Branson; Jenny Chen; Crystal Chung and Alanna Ramsey (Cambria Geological); Scott Clarke (Coal Association of Canada); Allan Craig Daem; Nimmi Dhada; Katie Dodd, Samantha Dyck and Emily Miller (Northern Freegold Resources); David Draeseke; Kevin Driver; Jonathon Elmer; Karen Felcova; Nate Fretz; Nathan Gagnon; Zuzka Gazdik; Josh Glauch; Ryan Grant; Warren Gregory; Jeremy Hanson; Claire Heymans; Eric Hicks; Krystal Holland; Megan Jamer; Tom Johnson; Kane Keating; Kristal Li; Shane Magnusson; Brian May (Christopher James); Kate Makenzie; Taylor Mcinnis; Xena Montague; Sheena Nakajima; George Nyi; Taylor Olson; Sahar Pakzad; Mackenzie Parker (Pacific Museum of the Earth); Chris Paul; Tim Peters; Ben Postlethwaite; Celeste Rambaran; Erich Schmitt; Julia Smith; Jamie Stanton; Lorraine Tam; Darcy Taylor (VPD); Ryan Turna; Lloyd Twaites; Julie Van Rhyn; Markus Waidelich; Ariel Winkelmeier; Karen Woo; and Deanna Zucchetto

CIM Mining in Society (MIS)

2010 marked the second staging of CIM's 3-day open house exhibit, *Mining in Society*, in Vancouver. Held annually in concert with CIM's AGM, *MIS* involves hundreds of exhibits that shed light on many key aspects on our modern minerals industry from mineral processing to safety to minerals in everyday life.

As part of the organizing committee MREPBC assisted CIM with their communication to BC schools and with identifying and enlisting exhibitors from our area. We teamed up with AME BC to define the exhibits comprising the *Exploration Pavilion* and secured all the volunteers to man them. An exploration camp



Darcy Baker (Equity Exploration) explains GIS software used in mineral exploration.

MREPBC also partnered with *PDAC Mining Matters* to develop a Mining Math activity stationed in the *Mining Pavilion*, and developed a mineral resource-product matching activity for the materials displayed by the *BC Ministry of Energy Mines & Petroleum* to help students learn about the resources mined in BC.

To demonstrate mineral-relevant learning in BC's schools, MREPBC asked classes in seven schools to submit their mining-related projects to display in *MIS*. We were pleased to showcase Earth and plate tectonic models from William Watson Elementary (Surrey); Mining Careers trading cards from Queen Mary Elementary (Vancouver); a Mining in BC map from In-



Thank-you to our MIS volunteers who shared their time and knowledge with the many visitors....

Darcy Baker, Cameron Bartch, Robin Black, Thomas Bronson, Stewart Harris and Scott Parker (Equity Exploration Consultants); Heather Brown and Erin Workman (NovaGold Resources); Crystal Chung and Matt Turner (Archer Cathro and Associates); Bob Cluff, Bogart Cross, Si Yuan Lee, and Eric Titley (Hunter Dickinson); Katie Dodd and Samantha Dyck (Northern Freegold Resources); Elizabeth George, Ryan Grant (UBC EOS); Lyle Hansen, Dianna Higgins, Kendra Johnston (Silver Quest Resources); Andrea Kay, Steve Kellas (MREPBC Teacher Partner), Tim Kim, Reesa Meltzer and Tracey Sexton (AME BC), Rory Kurtluoglu (Kiska Metals), George Nyi, Mackenzie Parker (Pacific Museum of the Earth), Wanda Pickell, Paul Roberts (Teck Resources), Elizabeth Stock (UBC MDRU), Darcy Taylor, Gavin Titley (U. Victoria), Malaika Ulmi (NRCan GSC), Nicole Velcic (Crosshair Exploration and Mining), Nathalie Vigouroux and Hanson Wong (SFU Earth Sciences), Gary Wesa, Royanna Wild (Wildrock Resources), Elaine Woo and BCIT Chemical Sciences students, Susie Woo

man Elementary (Burnaby); Mining Methods posters in French from Henry Anderson Elementary (Richmond); Minerals in Everyday Life posters from Sacred Heart Elementary (Delta); and Olympic Medal Metals from Eagle Ridge Elementary (Port Moody).



Recycled household metal objects were used to make Kindergarten students' Olympic medals.

MIS was attended by several thousand Lower Mainland students, as well as members of the general public, who took in the exhibits, demos and activities to help them better understand modern mining and why it is relevant in all our lives.

MINERAL RESOURCES EDUCATION PROGRAM OF BC

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COORDINATOR - Laura Estrada

TEACHER - PARTNERS * denotes Resource Unit writer

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Carole Borthwick

Ann Therese Brace*

Bliss Dodd - Wellington Secondary

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Kelly Hawbolt - Magee Secondary

David Healing

Elizabeth Hunter*

Heather Hutchinson*

Kerry Lockwood* - Anmore Elementary

Dale Maingot - Sacred Heart School

Donald McRae*

Steve Kellas*

Bruce Kiloh*

Patty Kiloh*

Kathryn McDonald - D.W. Poppy Secondary

Dana Meronuk

Dave Meronuk*

Jim Milross* - Fraser Heights Secondary

April Nelson - Rocky Mountain Elementary

Marnie Ridout

Mary Ringwald* - Eagle Ridge Elementary

Devon Ross - Summit Middle School

Eric Rustand* - Norkam Secondary

Rob Sandhu

Aliisa Sarte - Port Moody Secondary

Dave Schneider

Greg Smith - Southern Okanagan Secondary

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Allison Waterhouse - York House School

Phil Wright*

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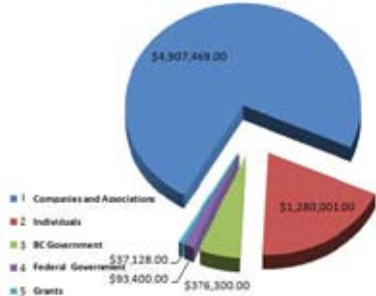
Sheila Stenzel

Maureen Lipkewich

Raising Support for MREPBC 2010

Since the Mineral Resources Education Program of BC became a registered charitable organization in 1994¹, charitable donations from individuals, companies, and groups have provided the backbone of support needed to sustain this school program, covering all annual operating costs from printing teachers' binders to hiring buses and paying rent. Since the establishment of the MREPBC Endowment Fund in 2004, MREPBC has raised money each year to cover both operating expenses and to build the Endowment.

MREPBC Fundraising 1991-2010



Over \$6.9 million has been donated by our minerals industry in support of MREPBC operations and the Endowment since 1991.

Donations to MREPBC in 2010 reached just over \$1 million, nearly two thirds of which was disbursed to the MREPBC Endowment Fund (left). Contributions to annual operations totalled \$188,000. Of this amount \$111,000 was donated by companies or industry groups, while the \$77,000 came from individuals, mostly from MREPBC's "1000 Club" donors. A shortfall of \$45,000 in income vs program expenses this year was covered by MREPBC's reserve funds.

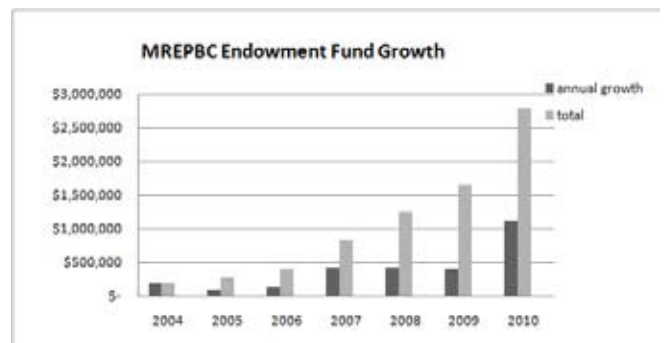
While corporate donations were largely directed to the Endowment in 2010, we have relied on the thoughtful generosity of many individuals and key industry groups to cover our operating costs. In 2010 they included: AME BC (\$21,500); MABC (\$15,000); and CIM Vancouver (\$5,000).

¹ MREPBC issues charitable tax receipts for donations of \$20 and more.

MREPBC Endowment Fund

The MREPBC Endowment Fund has been created to become a permanent source of revenue for MREPBC. The Endowment Fund was seeded in 2004 with a \$100,000 contribution from Hunter Dickinson. In 2007, Teck Resources pledged to match up to \$200,000 annually for 5-years in other donations to the Endowment. Thanks to many generous donors, and Teck's matching donations, the endowment has experienced healthy growth since.

Donations to the Endowment Fund in 2010 reached \$923,000. Exceptional personal donations from Robert Dickinson and Ronald Thiessen are largely responsible for this extraordinary support. Combined with Teck's \$200,000 matching donation, the Endowment Fund grew in 2010 to \$2.8 million, on a path to becoming an honourable legacy from our industry to future generations.



Our goal is for the Endowment Fund's annual earnings to support MREPBC's annual operating budget, currently set at \$250,000. Annual interest from Endowment Fund investments is now at \$34,000/year. So far, these earnings have been rolled back into the investments to help the Endowment grow while revenue for MREPBC operations was sufficient. MREPBC Trustees are assessing the best options for accessing a portion of these monies for operations in future years.

Mineral Resources Education Program of BC Pledge Card / Donation Form

(Charity BN/Registration No. 88833 0669 RR 0001)

- I would like to donate \$ _____ for _____ year(s).
- this is a personal donation *or*
 - this is a corporate donation

- Please disburse this donation to
- annual operations *or*
 - to the MREPBC Endowment Fund

- Cheque is enclosed. Please invoice me for subsequent years (if applicable).
- Please invoice me for this year and subsequent years (if applicable).
- I would like to donate public shares. Please email/fax/mail (Circle one) the appropriate form.

If your contribution is enclosed , please make your cheque or money order payable to the MINERAL RESOURCES EDUCATION PROGRAM OF BC (MREPBC) and return it to: MREPBC, 900-808 West Hastings Street, Vancouver, BC V6C 2X4.

The MREPBC (#88833-0669 RR0001) will issue an official receipt for your tax-deductible contribution.

Name _____

Company _____

Street/PO _____

City, Prov _____ Postal _____

Email/Fax _____

Phone _____

Signature and Date _____

2010 Contributors to the Mineral Resources Education Program of BC

MAJOR CONTRIBUTORS (\$10,000 or more)

Association for Mineral Exploration BC	Mining Association of BC	<i>Teck Coal</i>
AME BC Outreach Education Fund	<i>Mining Suppliers Association of BC</i>	<i>Teck Resources*</i>
<i>Haywood Securities</i>	<i>Silver Wheaton</i>	
<i>Hunter Dickinson</i>	<i>Taseko Mines</i>	

DISTINGUISHED SUPPORTERS (\$1,000 - \$9,999)

<i>AMEC Americas</i>	<i>Cullen Diesel Power</i>	<i>SMS Equipment</i>
Arrow Transportation Systems	Cummins Western Canada	<i>Swiss Asia Capital</i>
<i>Aura Minerals</i>	<i>DeVisser Gray</i>	Vancouver Mining
<i>BC Bearings</i>	<i>Gavin & Linda Dirom</i>	Exploration Group
Bitterroot Resources	<i>Finning</i>	<i>Westshore Terminals</i>
CGC EDGEO	Goldcorp	
CIM Foundation	Greater Vancouver Mining Women's Association	
<i>CIM South Central Branch</i>	<i>Keegan Resources</i>	
CIM Vancouver Branch	<i>Dr. William Pearson & The William Pearson Family Fund</i>	

"1000 CLUB" (\$1000 each year for 5 years)

Mike Allan	Jon & Kay Collins	Pierre Lebel	Jim O'Rourke	Darcy Taylor
Tookie Angus	<i>Vin Coyne</i>	Donald Lindsay	Thomas Patton	John Taylor
Richard Atkinson	Allen Cullen	Maureen Lipkewich	Jim Popowich	Ronald Thiessen
Ross Beaty	Bob Dickinson	Mike Lipkewich	Don Riva	John Willson
Robert Bishop	<i>Gunnar Eggertson</i>	Tony Luteijn	Walter & Nancy Segsworth	<i>Sue Willson</i>
Len Boggio	Ken Eng	Terry Lyons	Tom Seltzer	
John Bowles	Jim Gowans	David McCleery	Dave & Janeen Sharples	
Cliff & Ginette Britch	<i>Bruce Knight</i>	Donald McInnes	Fred & Sandy Sveinson	
Jack Charles Jr.	Denise Knight	Christa McLeod		
Al Cloke	<i>Sandy Laird</i>	Donald McLeod		

SUPPORTING CONTRIBUTORS (\$1 - \$999)

AME BC Roundup '10	Ted Drummond	Scott Hean	Luard Manning	Barry Price
Curling Tournament	Gerry Dulyk	Tim Johnson	John McGoran	Roy Rupert
AME BC Roundup '10	Fluor Canada	M. A. Kaufman	John D. McInnis	Peter Shorts
Hockey Challenge	Satpaul Gill	Rodney Kirkham	Glen Mullan	Robert E. Swenarchuk
Rick Bailes	Gary Giroux	<i>Klohn Krippen Berger</i>	Larry Nagy	Derek Thorkelson
Sodi Berar	Alex Gostevskikh	Denise Lockett	Ronald Netolitzky	George Voro
Don Bragg	Darwin Green	Robert Macdonald	Christine Ogryzlo	Toni Wallis
Bob Cathro	Don Gunning	Garfield MacVeigh	Bill Osborne	Ben Whiting
Ray Cook	Gordon Gutrath	Raymond Mah	Joe Paquet	
			Ian Paterson	

IN KIND SUPPORT

Adnet Communications, ALCAN, AME BC, Britannia Mining Museum, BC Geological Survey, BCIT Chemical Sciences, Bernica Enterprises, Caterpillar, Copper Mountain Mining, DeBeers Canada, Diamondex Resources, Equity Exploration Consultants, Geological Survey of Canada, Hatch, Highland Valley Copper, Hunter Dickinson, MABC, MIHR, Moly-Cop Canada, Norman B. Keevil Institute of Mining, Pacific Museum of the Earth, PricewaterhouseCoopers, Quality Seeds West, Sandvik Tamrock Canada, Silver Wheaton, Teck Resources

Note: *italicized names* indicate contributions to the MREPBC ENDOWMENT FUND; * denotes contribution split between operations and the MREPBC ENDOWMENT FUND.

If you would like to become a supporter, you may use the DONATION FORM on *Page 8* or contact MREPBC Director, Sheila R. Stenzel, at Tel: 604-681-4321 x 115 or stenzel@bcminerals.ca.

A few of our many 2010 MREPBC Rock Stars!



Lloyd Twaites (Bernica Ent.)(L) *Roundup*



Susie Woo (ACME Analytical) (L), *MIS*



Peter Holbek, Copper Mtn. Mining F. Trip



Darcy Taylor (VPD) (L) and Crystal Chung (Archer Cathro)(R), *MIS*



Bob Turner (GSC) (L), Sea to Sky Geotour



Brian May (Christopher James Gold) *Roundup*



Wanda Pickell (GVMWA) (R), *MIS*



Erin Workman (NovaGold Resources (standing), *Roundup*



Sam Dyck & Katie Dodd (Northern Freegold Resources (L), *MIS*



Zuzka Gazdik (C) and Bruce Kiloh (R), *Roundup*



Mark Freberg (HVC) (white hat), HVC Field Trip



Dean Smith (SMS Equipment), *Roundup*