

Teachers' Fall 2005 Update

Mineral Resources Education Program of British Columbia

FALL 2005

*ROCKS,
MINERALS,
MINING &
GEOSCIENCE
IN THE
CLASSROOM*



LIBRARIANS!
Please post,
photocopy &
share with
teachers in your
school.
Thank-you.



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Welcome Back!

We hope you enjoyed the lovely long days of summer. Whether you are returning to a familiar school or starting a new position, we wish you a terrific school year with new students who arrive refreshed and eager to learn.



You may have noticed during the past several months that mining-related stories are more frequently in the news. Mines are reopening, new mines are coming on line, major remediation work is being done at Britannia, demand from China has raised the price of metals, exploration expenditures are up, and there is a shortage of skilled workers in the industry. All of these factors make this an especially exciting time to engage your students in units on mineral resources, mining and geoscience.

This fall we are pleased to have some *new* resources for teachers that highlight industrial minerals operations in BC. Our new colour poster for your classroom wall (Page 2), along with information and activities on our Web site (www.bcminerals.ca), will help build students' awareness and understanding of this important sector. They will also complement our Web-based metal and coal *Mining in BC* information and our *Mining in BC bookmarks* (Page 8), helping create a more complete picture of mineral resources development in our province.

BC MINING CLASS OF THE YEAR 2005



*Ms. Dale Maingot's Grade 5 Class
Sacred Heart School, Delta*

As we move into a new school year we would like to share with you some important news from late Spring. We are pleased to announce that 2005 BC Mining Class of the Year was awarded to Ms. Dale Maingot's Grade 5 class from Sacred Heart School in Delta! Working within the theme – *Mineral Resources Across Canada* – Ms. Maingot's students submitted poster, model, video, and Web projects that covered a wide range of mining operations across Canada, focusing on many different mineral resources and how they are extracted and used. Congratulations to Ms. Maingot for her guidance and to her students for their exemplary work!

CANTATAS FOR COAL CONTEST WINNER

This past spring, the MREPBC encouraged classes to investigate the many uses for coal and its importance to BC communities through a song writing contest. We would like to congratulate the grade 5 class at St. Anthony's School in West Vancouver for their winning entry entitled *Canadian Coal*. The students composed their song with the help of their classroom teacher Mr. Stephen Knight, and the school music teacher, Ms. Janine Levey. They did an excellent job of performing their song, which included percussion. Watch and listen to a video clip of the performance at: www.bcminerals.ca/files/whats_new/000189.php.



*Mr. Stephen Knight's Grade 5 Class
St. Anthony's School, West Vancouver*



WHAT'S INSIDE?

New Resources for Teachers	2
Fall Conferences & Field Trips ..	3
Mineral Resources Education Program of British Columbia	4
Secondary Resource Units	4
Elementary Resource Units	5
Workshops for MREPBC Resource Units	5
Video & CD-ROM Resources ...	5
October 21 Pro-D Events	6
Web Resources	6
Involve Your Students!	7
Response and Registration	8

New Resources for Teachers

BC MINING OPERATIONS POSTER AND ACTIVITIES!



The MREPBC has developed a colour poster (24"by 30") showing the locations of mining operations in BC. Thanks to information provided by the BC Ministry of Energy, Mines and Petroleum Resources and geological information available from Natural Resources Canada, this resource offers a snapshot of all major industrial mineral, metal and coal producers in the province. Supplementary teaching materials related to industrial minerals operations, their products and unique uses have also been developed to complement the poster. Together they will help build understanding on this economically important, and commonly underappreciated sector in the minerals industry.

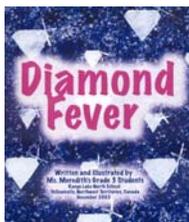
The poster will be mailed in September to all teachers who have taken our Grade 5, Science of Mining or Social Studies workshops, and to all other schools in care of the intermediate, science or social studies department head, or librarian. Supplementary print materials will be posted on our Web site in early October. If you would like to ensure that you receive a copy, please see Page 8.

THE LATEST GEOSCAPE POSTERS ARE *WATERSCAPES*

The Geological Survey of Canada has developed two posters that focus on the hydrologic cycle and precious water resources – *Waterscape Gulf Islands* and *Waterscape Bowen Island*. These colourful posters convey information on where the water originates, how it's delivered to users, human activities that threaten its safety, and methods for conservation. Panels from both posters are available for viewing at: http://geoscape.nrcan.gc.ca/index_e.php. Teachers may pick up a *free* copy of *Waterscape Gulf Islands* at the GSC bookstore located at 101-605 Robson Street in Vancouver.

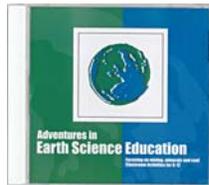


DIAMOND FEVER



Yellowknife teacher and author (*Northern Diamonds*, 2004) Gayla Meredith engaged her Grade 3 students in a study of diamond mining. Out of their interest and new understanding the children wrote and creatively illustrated an adventure tale – *Diamond Fever*. The story is about a young boy who moves to the Northwest Territories from South Africa and becomes fixated on finding diamonds – seeing them in everything around him in the North. This is a great story for young students who are learning about rocks and precious minerals, and a genuinely successful writing project that will inspire other teachers to do the same. Copies can be ordered from Trafford Publishing's Web site: www.trafford.com.

ADVENTURES IN EARTH SCIENCE EDUCATION



Caterpillar, the creator of the *Common Ground* series of teaching materials has produced a new CD-ROM of activities for K-12 teachers that focus on mining, minerals and coal. The disc is jam-packed with exercises from *Common Ground*, plus a number of resources from other organizations involved in mineral education, all of which have been sorted by grade-level and subject. To order a *free* CD-ROM, fill out the form on Caterpillar's Web site: www.cat.com/cda/layout?m=78220&cx=7.

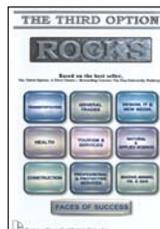
MOUNT ST. HELENS: SURVIVING THE STONE WIND

In *Mount St. Helens: Surviving the Stone Wind*, Dr. Catherine Hickson, a Geological Survey of Canada geologist, shares her personal account of the eruption in 1980 as both volcanologist and survivor. Dr. Hickson writes about the terror and destruction of the eruption, but also of the history of the volcano and provides speculation on its future utilizing a number of never-before-published photographs and diagrams. It can be ordered via Crown Publications' Web site: www.crownpub.bc.ca.



Photo credit: USGS

THE THIRD OPTION ROCKS: TRADE AND TECHNICAL TRAINING AND CAREERS



Shortages of skilled workers face every industry in BC, including the minerals industry. To help address this issue, the Business Council of BC (BCBC) has produced a 4-hour interactive DVD *The Third Option – Rocks* to inform young people of more than 100 high-demand and well-paid technical and trade occupations through descriptive profiles and interviews with successful trained workers. The resource has been developed to accompany the BCBC publication, *The Third Option: A First Choice - Rewarding Careers Via Non-University Pathways*. Both resources have been sent to school district offices across the province. Additional copies can be ordered via the BCBC Web site: www.bcbc.com.

INTRODUCTION TO FIELD GEOLOGY

UBC's Dr. Mary Lou Bevier has written this comprehensive, student-friendly book that covers field methods, map interpretation and publishing, and new digital mapping techniques. Written for beginning university students with an emphasis on hands-on learning, it might also be useful to Geology 12 teachers who incorporate field work into their course. Content information and an order form is available at McGraw-Hill Ryerson's Web site: www.mcgrawhill.ca.



Fall Conferences and Field Trips for Teachers



To register for the following events and conferences, please complete the registration form on Page 8. The MREPBC is pleased to provide TOC support as needed. For more information on these and other upcoming workshops and conferences, visit **Workshops and Field Trips** at: www.bcminerals.ca or contact the MREPBC office.

CIM MINING INDUSTRY CONFERENCE, KAMLOOPS - SEPT. 15



Exploration Portal,
Afton Mine, Kamloops

The South Central Branch of the Canadian Institute of Mining and Metallurgy (CIM) is inviting teachers to attend the one-day technical session during its annual general meeting in Kamloops. Thirteen presenters from the minerals industry, as well as the province's regional geologist will speak on the status of advanced exploration projects and operating mines, and operational advances to improve productivity, safety and impacts. Attending is a great way to learn about the industry in this area and speak with professionals who carry out this work. The CIM has waived the registration fees for teachers. For more information download: www.bcminerals.ca/pdf/SC_CIM2005.pdf. **Registration deadline: Sept. 12.**

GIBRALTAR MINE FIELD TRIP, WILLIAMS LAKE - SEPT. 23 (SD 27 PROFESSIONAL DEVELOPMENT DAY)

The MREPBC is collaborating with Taseko Mines Ltd. to organize a one-day field trip for teachers to the reopened Gibraltar Mine near McLeese Lake. This open pit copper-molybdenum operation survived a 5-year shut-down by working with community partners to develop innovative projects, including the construction of a regional landfill and engineering a 'green' hydro-energy power project. This tour will provide an opportunity to observe the mining process and learn about the policies and practices sustaining this operation. The field trip is *free*. Transportation from Williams Lake and lunch will be provided. Please submit a \$25 refundable deposit along with your completed registration form on Page 8. For more information download: www.bcminerals.ca/pdf/Gibraltar_FT2005.pdf. **Registration deadline: Sept. 16.**



Gibraltar Mine,
McLeese Lake

NORTHEAST BRITISH COLUMBIA COMMUNITY COAL FORUM, TUMBLER RIDGE - OCT. 19-20



The BC Ministry of Energy, Mines and Petroleum Resources and the Tumbler Ridge Chamber of Commerce are hosting a **Coal Display Show** on October 19 from 6-9 PM, and a day-long session of informational talks by government, industry and community leaders highlighting the resurging northeast coal industry on October 20. This is a great opportunity to learn about the nature of coal deposits and the coal mining process, to find answers to questions about environmental and community impacts, as well as to learn about career opportunities for young people in this growing industry. Attendance is *free*. For more information, download: www.bcminerals.ca/pdf/TR_Coal_Forum2005.pdf or contact Brenda at 250-242-3266. **Registration deadline: Oct. 17.**

MINERALS SOUTH 2005, CRANBROOK - OCT. 27

The East Kootenay Chamber of Mines (EKCM) is hosting a three-day conference focusing on mineral exploration in southeast BC. Teachers are invited to attend a series of talks on Thursday, October 27 presented by exploration geologists on 15 new exploration projects for resources as varied as lead, coal, gold and emeralds. It is a chance for teachers to learn about the regional geology, types of ore deposits and ongoing work in the resurging minerals industry in this important area. EKCM has waived registration fees for teachers. For more information download: www.bcminerals.ca/pdf/Minerals_South2005.pdf. **Registration deadline: Oct. 21.**



WINDOWS ON HOWE SOUND



The mill at the BC
Museum of Mining

The Britannia Mines concentrator, the mill, has gazed out across Howe Sound since 1922 - its hulking size, rusting panels, and cracked window panes showing the age of this important icon of BC's mining history. Since the mine site's transformation into the BC Museum of Mining 30 years ago, thousands of classes have taken a look inside the mill and learned about its workings. Now the building will be rejuvenated through a major exterior restoration project in 2005-2006 as a cornerstone of larger restoration plans for the site, the Britannia Project. To raise funds for the mill restoration, the BC Museum of Mining has launched the *Windows on Howe Sound* fund-raising campaign to help replace *each and every one of the mill's 1,200 windows!* Replacement windows may be bought with a \$250 donation, while individual panes (16 per window) may be bought for only \$25 each. Your class can contribute to the success of this restoration by raising money through an aluminum can drive in their class, school or neighbourhood, then donating the proceeds for the class' purchase of one or more panes. For more information on the *Windows on Howe Sound* campaign visit: www.bcmuseumofmining.org/whatsnew.asp?ID_ArticleIndex=119.

Book a class visit to the BC Museum of Mining. Call 1-800-896-4044 x. 221 or visit: www.bcmuseumofmining.org.

Mineral Resources Education Program of British Columbia



Students visit Endako Mine near Fraser Lake.

Each year many teachers across the province engage their students in lessons about mineral resources, mining and geoscience. These topics are part of curriculum requirements for both social studies and science at many grade levels.

We rely on mineral products more each day for school, work, home, health care, well-being, and recreation. Understanding the Earth, its mineral resources and how we extract and use them, has never been more important.

AS WE APPROACH OUR 15TH ANNIVERSARY - OUR HISTORY

The Mineral Resources Education Program of BC is a partnership program between classroom teachers and the mineral resources industry in British Columbia. It originated in 1991 in response to teachers' feedback that available information about mineral resources was 20-30 years outdated. Over the years many creative and enthusiastic teachers have stepped forward to write and develop classroom materials that are appropriate for the grade level and support certain aspects of the BC curriculum as they relate to minerals, mining and geoscience. The mineral resources industry, represented by companies, professional groups and individuals alike, has stepped forward with financial support and expertise to make the teachers' growing body of work possible. Together this partnership has built a valuable collection of educational resources *for all grade levels*.

The heart of the MREPBC school program is a suite of comprehensive, up-to-date RESOURCE UNITS (below and Page 5) that are available to teachers and student teachers through WORKSHOPS. Each resource unit comes as a KIT that includes an instructional binder and a variety of support materials such as posters, videos, books and hand samples¹. In support of these resource units, the MREPBC has also developed educational VIDEOS on minerals industry careers, mining and the environment, the mining process, and the BCIT Mining Technology diploma program (Page 5). It also has an educational Web site (www.bcminerals.ca) and collaborates with mining operations and many geoscience and industry groups across the province to coordinate special learning opportunities for teachers and students. (Pages 3, 6, 7).



Science of Mining Resource Unit kit.

Our school program is **written and developed by BC teachers, for BC teachers**. It is solely supported by donations to the MREPBC charitable organization. Since it began in 1991, the MREPBC has assisted more than 6500 teachers province-wide with workshops and resources, field trips, conference participation and other learning opportunities.

Resource Units for Secondary Teachers¹

SCIENCE OF MINING RESOURCE UNIT (SECONDARY SCIENCE)

Mineral resource development requires expertise in *all* fields of science. This unit consists of lab activities that mimic the mining process. It introduces rocks and minerals as non-renewable resources, environmental assessments and impacts at mine sites, the value of minerals in daily life, and the techniques involved in ore extraction, processing, and refining. The labs fulfill curriculum requirements for Grade 8 and 10 Science, Earth Science 11 and Science & Tech 11. Experiment materials are included in the kit.



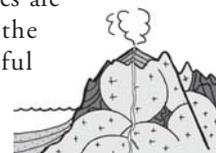
SOCIAL STUDIES 10/11 MINING IN BC

Complex issues, such as mining, are better understood when examined from all angles and discussed. This unit increases students' knowledge of the minerals industry in BC and reviews the process of mine development. The heart of the unit is a *fictional case study* of a mine following the Environmental Assessment Act in British Columbia. (Primary data, specific names and geographic locations have been used to provide authenticity.) Once students have gained a basic overview, they are divided into groups that take on the role of a stakeholder in the development of the proposed mine. Group research and evaluations are compared in discussion and consensus is sought once all groups have provided input.



EARTH SCIENCE 11/GEOLGY 12 "RESOURCES & IDEAS"

Earth is incredibly dynamic, and it is fun to make Earth Science 11 and Geology 12 courses equally dynamic! This resource is a compilation of individual and group activities that reinforce a range of topics taught in these courses. It offers many creative ways for students to learn when they are *up and out of their seats*, as well as a variety of conventional lab exercises. This resource unit is valuable to experienced teachers, those new to these subjects, and those who teach Physical Geography. All activities are tried-and-tested in the classroom, and helpful teaching information accompanies each activity.



Resource Units for Elementary Teachers¹

K-3 KIDS AND ROCKS:

GEOLOGY AND ITS IMPACT ON OUR WORLD²

²Formerly titled *K-3 Rocks and Minerals Integrated Science Kit*.

Children are fascinated with rocks! This practical and hands-on unit engages them in learning about minerals and rocks and methods of scientific investigations, and then uses geologic themes for important lessons in social studies, language arts, math, music, geography, art, personal planning, and drama. It covers everything from volcanoes and earthquakes to mining communities and careers.



GRADE 5 INTEGRATED

RESOURCE UNIT ON MINING

Intermediate students enjoy their first opportunity to learn about mineral resources and the mining process! This unit uses mining as the theme for learning across the curriculum. Students examine mining in the past, present and future. They also learn about mining communities, the discovery and recovery of ore deposits, the uses of metals in modern society, mining careers, and mining and the environment.



Note: Workshops for both elementary units will be held at the Vancouver School Board on Friday October 21! (see Page 6)

Workshops for MREPBC Resource Units

MREPBC *resource units* are available to teachers *only* through half-day workshops. There is a non-refundable \$50.00 registration fee (per person), but no additional charge for resource kit materials - **THEY ARE FREE!!**

WHO CAN ATTEND? Classroom teachers, teacher-librarians, TOCs and student teachers are welcome to attend workshops for these resource units. Participants must be teaching the grade level or subject intended for the resource unit. Workshops hosted by the MREPBC in our downtown Vancouver office are open to teachers from across BC. Workshops hosted by a school district or other teacher group are held at a location chosen by the host, who also decide if outside teachers may attend.

WHO CAN HOST A WORKSHOP? Workshops for the five major MREPBC resource units for teachers are 3.5 to 4 hours in length. They can be held on a professional development day, during a PSA or other conference, or after school. Interested groups should contact the MREPBC to secure a date and time *at least 2 months* prior to the scheduled workshop to allow adequate time to advertise and complete the workshop registration. It is up to the host group to determine if it will pay the registration fee for participants.

WORKSHOP SCHEDULE: All upcoming workshops are posted at: www.bcminerals.ca under **Workshops and Field Trips**.

BOOK A WORKSHOP: Phone Kevin Barclay at 604-681-4321 ext 108.



Learning about mining economics through cookie mining at a Grade 5 teachers' workshop in Kelowna.

Video Resources and CD-ROMs

These following videos and CD-ROMs, and other resources may be ordered through our Resources Catalogue. An up-to-date catalogue and order form are available at: www.bcminerals.ca/pdf/Resources%20Catalogue.pdf.

Careers In The Minerals Industry (video) explores career opportunities in the industry as seen through the eyes of high school students considering their futures. (CAPP Resource; appropriate for all grades; companion binder is available.)

Digging For Answers: Students Investigate Minesite Reclamation (video) documents students investigating environmental impacts of mining by travelling to mine sites, head offices, and to the provincial ministry. (Appropriate for intermediate and above; companion activity portfolio is available.)

Rocks & Dirt Just Aren't My Thing... Or Are They? (video) reveals the complete mining process through the eyes of young people discovering the relevance of minerals in daily life. (Appropriate for intermediate and above; companion activity book is available.)

Mining Technology: A Natural Sciences and Engineering Technology Diploma Program (QuickTime video on CD-ROM) introduces the 2-year natural sciences and engineering diploma program at BCIT through interviews with students, faculty and employers. (Appropriate for secondary.)

Living on the Edge is an interactive CD-ROM that explores two important features of British Columbia geology related to living above a *subduction zone*: earthquakes and volcanoes! (Appropriate for intermediate and above, as well as for teachers!)



Oct. 21 Pro-D Events

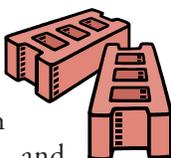
Web Resources

K-3 AND GR. 5 WORKSHOPS FOR VSB TEACHERS

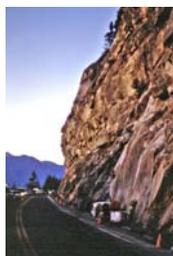
MREPBC workshops for *K-3 Kids and Rocks: Geology and its Impact on Our World* and the *Grade 5 Integrated Resource Unit on Mining* (Page 5) will be offered at the Vancouver School Board on October 21. Download the registration form from: www.vsb.bc.ca/NR/rdonlyres/92810471-6C42-478B-8CD5-CCC7E855D51/0/105and106MiningWorkshops.pdf.

CLAYBURN FIELD TRIP

Clay mining and brick making with special refractory clays from Sumas Mountain began in 1905! In celebration of the 100th Anniversary, the MREPBC is collaborating with Clayburn Industries, Sumas Clay Products, and longtime Clayburn resident Cyril Holbrow to offer a field-trip for teachers. The field trip will include visits to both brick-making operations and the old Clayburn village and original brick plant site, as well as stops to shed light on the geologic landscape and to highlight features of social and historical importance. The field trip is *free* and transportation will be provided from Vancouver with 2 or 3 pick-up locations enroute to Abbotsford. To register please submit a *\$25 refundable deposit* along with the completed form on Page 8. **Registration deadline: Oct. 7**



SEA-TO-SKY GEOLOGY & BRITANNIA FIELD TRIP



Porteau Cove,
Howe Sound

As part of the federal government's celebration of Science and Technology Week, Natural Resources Canada, the MREPBC, and the BC Museum of Mining are sponsoring a day-long guided field trip for teachers along the Sea-to-Sky Highway with stops to look at granite, volcanic rocks and a landslide. The afternoon will be spent at the BC Museum of Mining, a National Historic Site, focusing on the geological setting, the history of this major copper and zinc mine, the remediation efforts underway and the future site plans associated with the Britannia Project. Bus transportation from Vancouver, and lunch will be provided. There is a *\$25 refundable registration deposit*. To register please see Page 8. **Registration deadline: Oct. 7.**

HEDLEY MINING DISTRICT AND MASCOT MINE TRIP

This one-day GeoQwest (www.geoqwestexcursions.com) safari leaves out of Kelowna and provides an overview of the principles, issues and practices of the mining industry through visits to sites in the Hedley Mining District and the Snaza'ist Centre at Mascot Mine. The MREPBC is coordinating registration and offering a subsidy to participating teachers. The \$80.00 registration fee includes transportation from Kelowna and snacks.

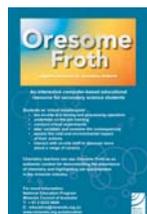
For more details and a registration form, download: www.bcminerals.ca/pdf/GQ_Hedley_Oct05.pdf.

WWW.BCMINERALS.CA

The MREPBC Web site is a great way to stay informed of upcoming workshops and educational opportunities. Its also a source of mining and geoscience Web links for teachers and students, electronic editions of the *Teachers' Update*, streaming video resources, field trip guides and summaries, the MREPBC Resources Catalogue, mining process images and text, and much more! Stay informed of Web site updates by entering your email address in the contact information box on Page 8.

ORESOME FROTH

The Minerals Council of Australia Education Program has developed an interactive, on-line resource for students that explains the mining process and introduces them to the chemical processes involved in froth flotation of metal sulphide minerals. Students begin with a tutorial on the mill, learning about the factors influencing metal recovery, and then are placed in the role of the metallurgist controlling the mill. *Oresome Froth* can be used on-line or downloaded onto your computer. Additional information for students and teachers is available. Give it a try at: www.minerals.org.au/_education/secondary/oresome_froth2.

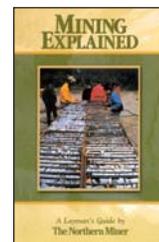


MINFILE / MAP PLACE

The Geological Survey Branch of the BC Ministry of Energy, Mines and Petroleum Resources' *MapPlace* (www.mapplace.ca) is a great on-line resource for creating dynamic geoscience maps of BC. Predefined theme maps can be modified by adding or removing a variety of data sets. Integration with the MINFILE database makes it easy to create maps using information on all reported past and present economic mineral localities in BC. MINFILE allows searches by a number of criteria including operation name, commodity, and deposit type. Try making your custom geologic maps at: www.em.gov.bc.ca/mining/geolsurv/minfile/search/default.htm.

BASIC GEOLOGY: A LAYMAN'S GUIDE FROM NORTHERN MINER ON THE WEB

An excerpt on basic geology from the Northern Miner's *Mining Explained* is available for viewing on the BC and Yukon Chamber of Mines' Web site: www.chamberofmines.bc.ca/miningexplained.htm#rocksandminerals. It covers all the basic information on rock-forming processes, common minerals and classes of valuable metals, plus common deformation features. Complete, print copies are available through the Northern Miner Web site: www.northernminer.com/products/miningexplained/explained.asp.



NATIONAL SCIENCE AND TECHNOLOGY WEEK 2005 OCTOBER 14-23, 2005



There will be lots of “walk-it” science and tons of “talk-it” science during National Science and Technology Week at Natural Resources Canada. More details will be posted soon at: www.pfc.cfs.nrcan.gc.ca.

MINERAL EXPLORATION ROUNDUP, VANCOUVER - JANUARY 23-26, 2006



Students speaking with Roundup exhibitors

Mineral Exploration Roundup is western Canada's premier exploration conference. The MREPBC is collaborating with the conference host, BC and Yukon Chamber of Mines, to involve teachers and students in this event. Below are three ways that teachers and students can attend *Roundup* and learn about exploration and the broader minerals industry:

(1) Interested teachers are encouraged to attend any one of four weekdays to attend the talks and explore the exhibits for *free*, and may apply to the MREPBC for TOC support. (2) Secondary students who want to find out what the minerals industry is about and explore the career possibilities it holds are also invited to attend for a day of special talks and events. Students must be nominated by their teachers to attend. (3) Secondary teachers are invited to bring an entire class to Roundup for a half-day, self-guided exploration.

Please express interest in on Page 8. For information on *Mineral Exploration Roundup 2006*, visit: www.chamberofmines.bc.ca/roundupoverview.htm.

MINING IN SOCIETY EXHIBITION, VANCOUVER - MAY 14-16

In conjunction with the Canadian Institute of Mining and Metallurgy (CIM) national conference being held in Vancouver this May, the CIM will be hosting a new exhibition called *Mining in Society*, with displays relating to the mining process and the many ways we use and rely on mineral products. This family-friendly event will be open to the general public on Sunday, May 14 and will welcome elementary school groups on Monday, May 15 and secondary school groups on Tuesday, May 16. This is terrific opportunity to connect students who are learning about mineral resources, or are interested in careers, to all aspects of the industry from exploration to development, reclamation and fabrication. The MREPBC and CIM are seeking ways to support travel costs for groups unable to take public transit. Additional details on *Mining in Society* will be available in the winter *Teachers' Update*.



Students attending CIM in 2002

Field Trip Destinations

MREPBC FIELD TRIP TRAVEL SUBSIDIES



\$150.00 field trip travel subsidies are available to teachers who have attended MREPBC workshops. These funds can be used to help offset the costs of taking classes to mining or geoscience destinations. Download the application form from: www.bcminerals.ca/pdf/FTripSubsidy.pdf.

COX STATION QUARRY, ABBOTSFORD

Cox Station is one of the main producers of aggregate in the Lower Mainland and is a chance to observe the mining process and learn about the practical ways in which this mineral resource is used. Contact Brain Weeks: 604-826-4611.

THE EXPLORATION PLACE, PRINCE GEORGE

Featuring on-site and virtual exhibitions on topics including Earth Science. Contact 250-562-1612. Teachers' guide and class visit booking form available at: www.theexplorationplace.com.

FINNING FULL SERVICE TRUCK CENTRE, KAMLOOPS

Finning supplies LARGE mining equipment to operations in central BC. Students learning about mining are welcome to see the equipment close-up and learn how it is assembled and maintained. Contact Jim Harrison or Cam Hergott: 250-372-9552.

LYNN CANYON ECOLOGY CENTRE, NORTH VANCOUVER

Offers *Canyon Quest*, a guided program for Gr 8-10 students that explores the geological make-up and history of Lynn Canyon. Contact Eleanor: 604-981-3103. Web site: www.dnv.org/ecology.

MCABEE FOSSIL BEDS, CACHE CREEK

A great destination for students learning about rocks and minerals, this fossil collecting locality welcomes new and experienced paleontologists alike. Contact Dave Langevin 250-374-7164. Web site: www.dll-fossils.com.

NANAIMO DISTRICT MUSEUM

Includes a recently refreshed exhibit on coal, once the life blood of most of southeast Vancouver Island. Contact 250-753-1821. Web site: <http://nanaimo.museum.bc.ca>.

PACIFIC MUSEUM OF THE EARTH, UBC

Located in the Earth and Ocean Sciences department at UBC is a great place to enhance your class' unit on rocks and minerals. Contact Kirsten: 604-822-6992. Web site: www.eos.ubc.ca/public/outreach/index.html.

ROSSLAND MINING MUSEUM AND LE ROI MINE

Museum highlights include the Le Roi mine tour, gold panning and view the mineral samples. Tours run May-Sept. Contact: 888-448-7444. Web site: www.rosslandmuseum.ca.



GOLD PANNING IN-CLASS!

Teaching about mining or the Cariboo gold rush? Dan Moore (Yukon Dan) brings a fun, educational workshop to the classroom - great for students of all ages. Phone Dan at 604-948-4941.

Response and Registration

CIM CONFERENCE KAMLOOPS - SEPT. 15, 2005

- I will attend the CIM Mining and Industry Conference in Kamloops on Sept. 15, 2005.
- I will require a TOC*

Please complete the contact information below. **Deadline: Sept. 12, 2005.**

GIBRALTAR FIELD TRIP - SEPT. 23, 2005

- I will attend the Gibraltar mine field trip on Sept. 23, 2005.
- I will require a TOC*

Please complete the contact information below and enclose \$25 refundable registration deposit. Full itinerary, pick-up location and confirmation will sent via fax or email. **Deadline: Sept. 16, 2005.**

COMMUNITY COAL FORUM - OCT. 20, 2005

- I will attend the Northeast BC Community Coal Forum information talks in Tumbler Ridge on Oct. 20, 2005
- I will require a TOC*

Please complete the contact information below. **Deadline: Oct. 17, 2005.**

CLAYBURN FIELD TRIP - OCT. 21, 2005

- I will attend the MREPBC's field trip to Clayburn and the brick-making operations on Oct. 21, 2005.

Please complete the contact information below and enclose the \$25 refundable registration deposit. Full itinerary, bus pick-up locations and confirmation will sent via fax or email. **Deadline: Oct 7, 2005.**

SEA-TO-SKY/BRITANNIA F/T - OCT. 21, 2005

- I will attend the Sea-to-Sky geology and Britannia Mine site field trip on Oct. 21, 2005.

Please complete the contact information below and enclose \$25 refundable registration deposit. Itinerary, bus pick-up location and confirmation will sent via fax or email. **Deadline: Oct. 7, 2005.**

**Please note: If applying for TOC support, please supply the names of your principal and district superintendent along with your request.*

Send the completed **Contact Information** below with payment (if applicable) to:

Payment or Purchase Order number must accompany workshop or field trip registrations. Please make cheque or money order payable to MREPBC.

Mineral Resources Education Program of BC
910 - 1111 Melville St., Vancouver, BC V6E 3V6
Tel: 604-681-4321 ext 108/115 Fax: 604-681-5305

GEOQWEST TO HEDLEY MINING DISTRICT AND MASCOT MINE - OCT. 21, 2005

- I will attend the Hedley GeoQwest field trip on October 21, 2005. Please complete the contact information below and enclose the \$80.00 registration fee. Confirmation and details will be emailed or faxed. **Deadline: October 14, 2005.**

MINERALS SOUTH 2005 - OCT. 27, 2005

- I will attend the East Kootenay Chamber of Mines' *Minerals South* exploration talks in Cranbrook on Oct. 27, 2005.
- I will require a TOC*

Please complete the contact information below. **Deadline: Oct. 21, 2005.**

MINERAL EXPLORATION ROUNDUP 2006

- I would like to attend *Roundup 2006* for a day.
- I would like to submit names of my secondary students to attend *Roundup 2006* and explore careers in the minerals industry.
- My secondary class will be addressing geoscience/mineral resources-related subjects this school year. I would like to bring them to *Roundup 2006* for a half-day, self-guided exploration.

You will be contacted in mid-Fall by the MREPBC with additional details regarding registration, student nominees, and TOC funding/travel subsidy.

MINING OPERATIONS POSTER

- Please send me a **FREE** copy of the Industrial Minerals, Metal and Coal Operations of BC Poster.

MINING IN BC BOOKMARKS

- FREE!** Mining in BC bookmarks _____ copies



SAVE PAPER! RECEIVE *TEACHERS' UPDATE* BY EMAIL

- I would like to receive future *Teachers' Updates* by email.

Registration/Contact Information

Name: _____ Email: _____

School Name and Address: _____

Postal Code: _____

Grade Level: _____ Subjects Taught: _____

School Phone: _____ School Fax: _____

Home Address: _____

Postal Code: _____

Home Phone: _____ Home Fax: _____