

Teachers' Spring 2006 Update

Mineral Resources Education Program of British Columbia

SPRING 2006

ROCKS, MINERALS, MINING & GEOSCIENCE IN THE CLASSROOM



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Thank-you.



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Welcome back from Spring break! We hope you've had a chance to recharge your batteries for the rest of the school year. Many of you are teaching geoscience topics this spring so take a look through this issue to see the many related opportunities for you and your students that complement your units.

MINING IN SOCIETY, MAY 14-16 – MINERALS IN EVERYDAY LIFE, CAREERS AND MORE!



Exploring on foot

The Canadian Institute of Mining, Metallurgy and Petroleum (CIM) is joining forces with the Mining Industry Human Resources Council (MIHR) to host *Mining in Society* (MIS) at the Vancouver Conference and Exhibition Center. *Mining in Society* is an open house exhibition that showcases the modern minerals industry – how it works, the people it employs, and its relevance to our daily lives. *Mining in Society* pulls together individuals, companies, agencies and industry associations to depict six main sectors of the industry - exploration, mining, processing, reclamation, infrastructure and fabrication – through displays, interactive stations, and hands-on activities. Among the many goals of this exhibition, is to draw attention to the vast array of career opportunities that this enormously diverse and global industry affords.

School groups are explicitly invited to this exhibition for free. *Mining in Society* provides a unique opportunity for secondary students exploring career options, whether their interests are in science, engineering, trades, business, computer science, geology, law or any other field. *Mining in Society* also provides a unique extended learning opportunity for intermediate students who are learning about mining in their classes. MREPBC is booking all school groups who wish to attend and is also disbursing funds to cover bus costs for those groups which require it. To register your class, please complete the enclosed MIS form or download the form at: www.bcminerals.ca/pdf/MISregform.pdf.



Using technology to manage mine operations



Mining work is in the office and on-site

CIM CONFERENCE, MAY 15-17 – TEACHERS INVITED TO ATTEND FOR PRO-D

Mining in Society runs concurrently with CIM's annual general meeting. CIM, a professional engineering society whose members work in one of many sectors in the minerals industry, meets each year to exchange information and discuss their current projects, practices, policy initiatives, and issues. In addition to offering technical sessions on geology, new operations, and innovative techniques, this year's program includes several sessions dedicated to exploring sustainable mining practices. The principal areas include: creating wealth and alleviating poverty; demonstrating the utility of our products and their value to society; community enrichment; and responsible practice and environmental integrity.



Communication is key to success and sustainability

CIM invites teachers who address related topics in their classroom to attend this conference on a day of their choice. The conference program may be viewed at: www.cim.org/vancouver2006/conference/TechProgMain.cfm. Teachers are encouraged to attend the Monday morning plenary session, which features a distinguished panel of speakers and offers an open mike for discussion of current issues facing the global industry. The MREPBC will cover the conference registration fee and TOC costs (if required) for a limited number of teachers who wish to attend. To register see page 4. Teachers who attend CIM are also welcome to attend MIS that day.



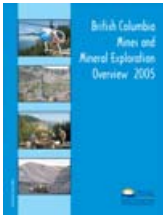
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New Resources

BC MINES AND MINERAL EXPLORATION OVERVIEW

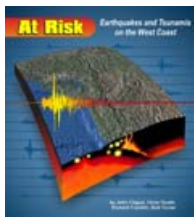
The BC Ministry of Energy, Mines and Petroleum Resources has released their *British Columbia Mines and Mineral Exploration Overview 2005*. This publication is an excellent source of up-to-date facts and figures on the major mining operations and exploration projects in all regions of BC. View it at: www.em.gov.bc.ca/DL/GSBPubs/Reviews/2005/EX-REVIEW_IC2006-1.pdf.



THE MINING INDUSTRY IN BC - 2006

PricewaterhouseCoopers will be releasing its annual report on the industry's economic impact in the province in May. It will be posted at: www.pwc.com/extweb/pwcpublishations.nsf/docid/164E17600B2FB96A852570CA00178DBA.

AT RISK: EARTHQUAKES AND TSUNAMIS ON THE WEST COAST J. Clague, C. Yorath, R. Franklin & B. Turner



This companion book to *Vancouver, City on the Edge*, focuses on past and future earthquakes in the Cascadia subduction zone and on potential activity on upper crustal faults that pass through or near cities in the Pacific Northwest. Available in April for \$30 at the GSC Bookstore, 101-605 Robson St. Vancouver.

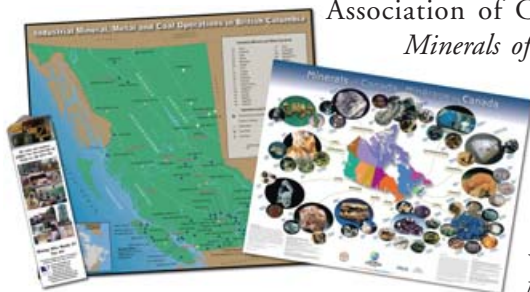
GEOLOGIC TIME SCALE

NRCAN has a very detailed geologic time scale available for viewing and printing from their Web site at: http://apps1.gdr.nrcan.gc.ca/mirage/full_result_e.php?id=215638.

FREE RESOURCES FOR TEACHERS!

The MREPBC's *Mining in BC* poster and class sets of the *Mining in BC* bookmarks are provided to BC teachers free of charge. The MREPBC is also providing free copies of the Mineralogical Association of Canada's excellent

Minerals of Canada poster to



teachers for use in their classrooms. To order these resources, please see page 4. A PDF version of the *Mining in BC* poster

is also available at www.bcminerals.ca/files/teacher_resources/000212.php. The MREPBC has also developed a set of supplementary teaching materials on industrial minerals operations in BC. The set includes teacher information on industrial minerals and their uses along with student activity sheets. To download the PDF file visit: www.bcminerals.ca/files/teacher_resources/000244.php.

Teacher Field Trips

KOOTENAY REGION GEOLOGY FIELD TRIP - MAY 5

The MREPBC is working with BC Geological Survey Kootenay Region geologist, Mr. Dave Grieve, to organize an educational, geology field trip of the Moyie-Cranbrook area for elementary and secondary teachers in the Kootenay Region. To express your interest in attending, please see page 4.

KEMESS MINE TOUR FOR PRINCE GEORGE AND BULKLEY VALLEY TEACHERS - JUNE 2

The MREPBC, in collaboration with Kemess Mine, and the PGTA and BVTA, is offering an all-day, fly-in field trip for teachers to the Kemess open pit copper-gold operation 480km northwest of Prince George. The site tour will include the surface operations, processing in the mill, waste rock disposal and environmental management. Spaces for this field trip are very limited and will be split between PGTA and BVTA teachers with registration from outside of those districts accepted as space permits. The field trip is **free** but a **refundable** registration deposit of \$50 is required. To register, see page 4. **Deadline: May 15.**



MREPBC Workshops

ELEMENTARY AND SECONDARY IN SURREY - MAY 5

The MREPBC will be offering the following resource unit workshops at the Surrey Teachers' Convention on May 5:

- ◆ *K-3 Kids and Rocks: Geology and its Impact on Our World*
- ◆ *Grade 5 Integrated Resource Unit on Mining*
- ◆ *Science of Mining (Secondary Science)*
- ◆ *Earth Science 11/Geology 12 "Resources & Ideas"*

The workshop registration fee is \$50 (plus an additional \$40 for out of district teachers). For registration information, visit the STA convention Web site: www.staconvention.ca.

ELEMENTARY AND SECONDARY IN VANCOUVER - AUGUST 23/24

The MREPBC will be offering the following workshops at 910-1111 Melville St., Vancouver in August:

- ◆ *K-3 Kids and Rocks: Geology and its Impact on Our World*
- ◆ *Grade 5 Integrated Resource Unit on Mining*
- ◆ *Science of Mining (Secondary Science)*
- ◆ *Earth Science 11/Geology 12 "Resources & Ideas"*

The workshop registration fee is \$50. To register, see page 4.

For an overview of the topics covered in each MREPBC resource unit and a listing support materials provided in each kit, please visit: www.bcminerals.ca/files/teacher_resources/000033.php.

Conferences and Learning Opportunities

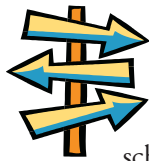


To register for the events and conferences listed, please complete the response form on Page 4. For more information on upcoming learning opportunities and workshops visit: www.bcminerals.ca or contact 604-681-4321 ext. 108.

KEG COMMUNITY LECTURE SERIES

Kamloops Exploration Group (KEG)'s *free* lecture series runs Thursday evenings through April at the Days Inn. View the schedule of topics at: www.keg.bc.ca/Lecture.html.

MINING ROCKS JOB AND CAREER OPPORTUNITIES TOUR - FEB-APRIL



The *Mining Rocks* job and career fair tour, hosted by the BC Ministry of Energy, Mines and Petroleum Resources, is designed to raise awareness of careers in mineral exploration and mining, and provide communities with information on opportunities in BC's mining industry. View the tour schedule at: www.em.gov.bc.ca/Mining/MiningRocks/default.htm.

KAMLOOPS EXPLORATION GROUP (KEG) CONFERENCE - APRIL 4 & 5

Best Western Towne Lodge, Kamloops, BC. This is an excellent opportunity for teachers working on mining or geoscience units to find out more about mineral exploration and current development projects in BC by meeting with prospectors, geologists, and others in the broader minerals industry. A schedule of the technical sessions is posted at: www.keg.bc.ca. The MREPBC will cover one-day TOC costs for teachers who wish to attend. To register, contact the MREPBC office at 604-681-4321 ext. 108.



MINERALS NORTH 2006 CONFERENCE - APRIL 27, MACKENZIE, BC

Minerals North 2006 is the annual conference for the minerals industry in northern BC and serves as a forum for communities to learn about current activities and issues related to mineral resources exploration and development. The MREPBC will cover registration and one-day TOC costs for a limited number of teachers who wish to attend. View the agenda of talks at: www.mackenziechamber.bc.ca/MNagenda.htm. To register, see page 4.



UBC MINING STUDIES SUMMER INSTITUTE 2006 - MAY 14

The UBC Department of Mining Engineering is offering *Mining 101*, a credit course on the basic principles of mining and mineral processing on May 14. Fee \$100. For more details visit: www.mining.ubc.ca/MSIOverview.html.

BC MINING WEEK AT THE BCMM- MAY 15-18, 2006

The BC Museum of Mining will be holding special rock identification and other hands-on activities for school students who visit during Mining Week. For details check: www.bcmuseumofmining.com. To book a visit for your class, call Rory at 1-800-896-4044 ext. 226.



BCIT MINI-TECHNOLOGY SUMMER CAMPS - JULY 2006

BCIT's summer camps for youth ages 10-14 mix science, engineering and technology education with fun, hands-on experiments such as sampling for fish in a creek, learning how to look for metals in the ground, and make paper and plastic. For details visit: www.mechanical.bcit.ca/minicamp or contact Dina Patterson at 604-432-8750.

SCIENCE CONNECTIONS IN THE ROCKIES WORKSHOP - AUGUST 17-20



The Burgess Shale Geoscience Foundation's curriculum-based 3-day workshop in Field, BC increases teachers' knowledge of Earth Science and provides resources with hands-on activities to enhance classroom learning. For more information and registration details contact Lisa Holmstrom at 1-800-343-3006 or visit www.burgess-shale.bc.ca/education/connections.htm.



Field Trips For Student Groups

PAVILION LIMESTONE QUARRY AND PLANT, CACHE CREEK

The Pavilion quarry and plant welcomes school groups learning about geology and mining to visit their industrial mineral quarry and lime plant. Contact: Al Lucas at 250-457-6291.

GOLD PANNING IN-CLASS!

If your students are learning about rocks and minerals, mining or the Gold Rush, Yukon Dan (Moore) presents an engaging and educational, hands-on workshop that teaches students the art of gold panning and much more! To book a visit to your school or classroom, contact Dan Moore at 604-948-4941 or visit: www.yukondan.com.



COURTENAY DISTRICT MUSEUM AND PALEONTOLOGY CENTRE

Offers year-round field trips to the Puntledge River Elasmosaur (Late Cretaceous marine reptile) site and school tours. Contact: 250-334-0686 or visit: www.courtenaymuseum.ca.

FIELD TRIP TRAVEL SUBSIDIES



\$150.00 field trip travel subsidies are available from the MREPBC to help offset the bus costs of taking classes to mining or geoscience destinations. Subsidy application forms can be downloaded from: www.bcminerals.ca/pdf/FTripSubsidy.pdf.

MCABEE FOSSIL BEDS, CACHE CREEK



A great destination for students learning about geology and Earth history, this fossil collecting locality welcomes new and experienced paleontologists alike. Contact: Dave Langevin at 250-374-7164 or visit www.dll-fossils.com.

WEST VANCOUVER ROCK GARDEN

Dundarave in West Vancouver. Contact: Ronald Stokes at (604) 925-2644.

Event Registration

MINERALS NORTH 2006 - APRIL 27, 2006

- I would like to attend Minerals North on Thurs., April 27, 2006.
 I will require a TOC*

Please complete the contact information below. Itinerary and confirmation will sent via fax or email. **Deadline: April 14, 2005**

KOOTENAY GEOLOGY F/T - MAY 5, 2006

- I am interested in attending an all-day geology field trip on May 5, 2006, departing from the Cranbrook area.
 I would require a TOC.

A detailed itinerary with pick-up/drop-off location(s) will be sent to you via email or fax, and be posted at: www.bcminerals.ca/pdf/KootenayFT06.pdf, once it has been confirmed. **Deadline: April 21**

MINING IN SOCIETY - MAY 14-16, 2006

To express interest in bringing your students to Mining in Society, please see the registration form included with this newsletter, or available for download at: www.bcminerals.ca/pdf/MISregform.pdf.

CIM MINING CONFERENCE - MAY 15-17, 2006

- I would like to attend one day of *CIM* for Professional development:
 Mon., May 15 Tues., May 16 Wed., May 17
 I will require a TOC*.

Please select the date you would like to attend and complete the contact information below. Registration confirmation and additional itinerary details will be faxed or emailed. **Deadline: April 28**

KEMESS MINE FIELD TRIP - JUNE 2, 2006

- I would like to attend the Kemess mine tour.

Please complete the contact information below and return along with your \$50 *refundable* registration deposit. Registration confirmation will be faxed or emailed. **Deadline: May 15**

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

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

Mineral Resources Education Program of BC (MREPBC)

910 - 1111 Melville St., Vancouver, BC V6E 3V6. Telephone: 604-681-4321 ext. 108/115. Fax: 604-681-5305

Payment or Purchase Order number must accompany materials orders and workshop or field trip registrations. Please make cheque or money order payable to MREPBC. Please note that we are unable to accept credit cards.

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: _____

Workshop Registration

ELEMENTARY AND SECONDARY MREPBC WORKSHOPS IN VANCOUVER - AUG. 23 & 24

To register, check the appropriate box(es) below, complete the contact information form, and return to the address below along with a *non-refundable* registration fee of \$50.00 per workshop.

- Grade 5 Integrated Resource Unit on Mining**
Wednesday, August 23, 8:30AM - Noon
- K-3 Kids and Rocks: Geology and Its Impact on Our World**
Wednesday, August 23, 1:00PM - 4:30PM
- Earth Science 11/Geology 12 "Resources & Ideas"**
Thursday, August 24, 8:30AM - Noon
- Science of Mining**
Thursday, August 24, 1:00PM - 4:30PM

The workshops will be held at the MREPBC office at 910-1111 Melville Street in Vancouver. Registration confirmation and a workshop reminder will be faxed or emailed. **Deadline: August 16**

Materials Orders

MINING IN BC POSTER

- Please send me a **FREE** copy of the *Mining in BC* poster.

MINING IN BC BOOKMARKS

- FREE!** *Mining in BC* bookmarks _____ copies

MINERALS OF CANADA POSTER

- Please send me a **FREE** copy of the *Minerals of Canada* poster .



SAVE PAPER! RECEIVE TEACHERS' UPDATE BY EMAIL

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