

# Teachers' Spring 2007 Update

## Mineral Resources Education Program of British Columbia

SPRING 2007

ROCKS,  
MINERALS,  
MINING &  
GEOSCIENCE  
IN THE  
CLASSROOM



### LIBRARIANS!

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



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EDUCATION PROGRAM OF  
BRITISH COLUMBIA

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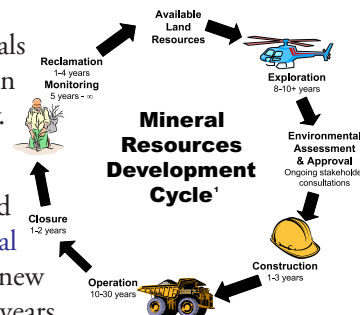
## Budding Interests

Spring has arrived so why not plant some seeds of interest in minerals industry careers in your students! Look below to see how you can help your students explore potential careers in the minerals industry.

### KEEP MINERALS INDUSTRY CAREERS IN MIND

According to a study released by the Mining Industry Training and Adjustment Council in 2005 ([www.mihl.ca/admin/documents/Final\\_Report.pdf](http://www.mihl.ca/admin/documents/Final_Report.pdf)), the minerals industry may need as many as 81,000 new employees to meet current and future demands over the next 10 years.

Mining is a complex industry with several sub-sectors, including exploration, development, operations and transportation, administration, policy and finance, sales and reclamation. Each position requires trained professional and skilled trades workers to function safely, responsibly and profitably. To find out more about the diversity of careers within the minerals industry, complete with career profiles and education and training information, visit [www.exploreformore.ca](http://www.exploreformore.ca). To see which jobs are currently in demand, visit [www.mining.bc.ca/career\\_education/job\\_board.htm](http://www.mining.bc.ca/career_education/job_board.htm).



The recently launched *Careers in the Minerals Industry* section of [www.bcminerals.ca](http://www.bcminerals.ca) is also a hub for information on careers in the minerals industry for both teachers and students. It includes statistics on the minerals industry in British Columbia; streaming *Careers in the Minerals Industry* video along with supplementary teachers' career guide; an activity to support students' Graduation Portfolio; Web links to other resources, and more. Check in on a regular basis to see what's been added.

The MREPBC can also be your connection to *career preparation placement* opportunities for your students. For details, contact Sheila at the MREPBC office, 604-681-4321 ext. 115

### NEW BCIT COURSE IN INDUSTRIAL MARKETING



BCIT is offering a new part-time program leading to an Associate Certificate in Industrial Marketing designed to provide the business and technical skills for marketing and sales functions within the forestry, oil and gas, and mining industries. This new program highlights the diversity of career options and required skill sets for workers in the mine supply side of the minerals industry. For details the Industrial Marketing Associate Certificate, please visit [www.bcit.ca/study](http://www.bcit.ca/study) and search for Industrial Marketing under 'Find Programs'.

### GUEST SPEAKERS

We have a network of contacts in the minerals industry and post-secondary geoscience and mining departments. We would be pleased to try to connect you with someone to visit your class. Phone the MREPBC office for assistance.



### DO YOU KNOW A FUTURE MINING ENGINEER?

UBC, BCIT and SFU each hold summer camps for students with interests in sciences. For details visit:



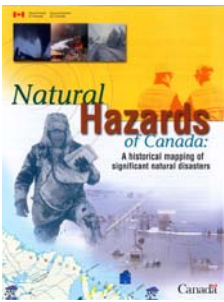
- [www.geeringup.apsc.ubc.ca](http://www.geeringup.apsc.ubc.ca) (UBC)
- [www.minicamp.bcit.ca](http://www.minicamp.bcit.ca) (BCIT)
- [www.sciencealive.ca](http://www.sciencealive.ca) (SFU)



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# Resources for Teachers

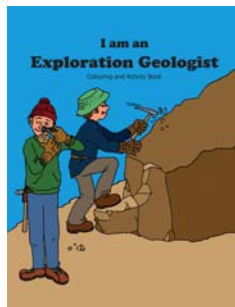


**NATURAL HAZARDS OF CANADA**  
Public Safety and Emergency Preparedness Canada produces and distributes a poster-size map with the locations, types and magnitudes of significant natural disasters that have affected Canada during a 150-year period, along with a brief description of the types of disasters that affect the country. To order a *free*

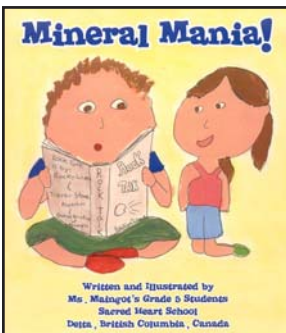
copy of this or other emergency preparedness publications, visit [www.getprepared.gc.ca/pubs/ord\\_edit\\_e.asp](http://www.getprepared.gc.ca/pubs/ord_edit_e.asp).

## I AM AN EXPLORATION GEOLOGIST COLOURING BOOK

Are you doing a rocks unit with your students? The MREPBC, in partnership with the Association for Mineral Exploration BC (AME BC) and Goldcorp, have developed a new educational colouring book to help primary students understand what an exploration geologist does. The colouring book follows the story of three exploration geologists - George, Sophie, and Fred - from their homes to a fly-in camp and includes student activities for mapping, rock classification, and vocabulary. To order single copies or class sets of the colouring book, see Page 4.



## ADD SOME BC STUDENT AUTHORS TO YOUR LIBRARY!



*Mineral Mania! Nick and Megan's journey to discover the identity of their special find.*

**Mineral Mania!** is the delightful story of two young beachcombers-cum-rockhounds written and illustrated by grade 5 students at Sacred Heart School in Delta. It is available to order exclusively from the MREPBC for \$10.00 including taxes and shipping. Royalties from the purchase price of the book go towards Sacred Heart's literacy program. An excerpt of the story is available at: [www.bcminerals.ca/files/teacher\\_resources/000275.php](http://www.bcminerals.ca/files/teacher_resources/000275.php). Place your order on Page 4.

## HIGHLAND VALLEY OPEN HOUSE, BC DAY 2007

Highland Valley Copper, near Logan Lake, will hold its annual Open House on Monday, August 6th. It will feature tours to the of the mine site, activities for children, mine rescue demonstrations, complimentary food and refreshments and more! Watch for details on [www.bcminerals.ca](http://www.bcminerals.ca) this summer or contact Vicki Godlien 250-523-3507.



## 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 2006*. 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/2006/EX-REVIEW\\_IC2007-1.pdf](http://www.em.gov.bc.ca/DL/GSBPubs/Reviews/2006/EX-REVIEW_IC2007-1.pdf).

## ROCKS, BY JOAN CORNER

Rocks is a music-based, integrated teaching unit with a creative, fun-filled approach to helping young children learn about rocks and minerals! It includes a CD, instructional binder, and a Readers' Theatre play. The CD has six, wonderfully informative, original and easy-to-sing songs, plus a mineral *Identification Rap*, as well as instrumental versions of each song. For ordering details or to listen to sample clips, visit [www.songs-about-rocks.com](http://www.songs-about-rocks.com).



## NEW PUBLISHER FOR PEBBLE GUIDE

Eileen Van der Flier-Keller's excellent pebble identification publication is now available through Harbour Publishing for \$7.95 plus taxes and shipping. To order a copy of this accessible earth science resource, visit [www.harbourpublishing.com/title/AFieldGuidetotheIdentificationofPebbles](http://www.harbourpublishing.com/title/AFieldGuidetotheIdentificationofPebbles).

## FREE POSTERS AND BOOKMARKS FOR TEACHERS!

The MREPBC's current *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. You may also download supplementary resources and activities on *Industrial Minerals in BC* for your mining unit, or a PDF version of the *Mining in BC* poster, at [www.bcminerals.ca/files/teacher\\_resources/000244.php](http://www.bcminerals.ca/files/teacher_resources/000244.php).



The MREPBC Web site ([www.bcminerals.ca](http://www.bcminerals.ca)) is a great way to stay informed of upcoming workshops and educational opportunities. It also offers educational videos, student exercises and Web link collections. Stay informed of Web site updates by entering your email address in the contact information box on Page 4.

# Workshops, Conferences, and Field Trips

SPRING 2007

For information on these and other upcoming workshops and conferences, visit **Workshops and Field Trips** at: [www.bcminerals.ca](http://www.bcminerals.ca). For details on the workshops and resource unit contents, visit: [www.bcminerals.ca/files/teacher\\_resources/000033.php](http://www.bcminerals.ca/files/teacher_resources/000033.php).



## TERRACE GEOTOUR FOR TEACHERS - APRIL 20

As part of *Minerals North*, TEDA has organized a fun and informative field trip for teachers and the general public to learn about the geology of the Terrace area. Cost is \$20.00. To register, contact TEDA at 250-635-4168.

## MREPBC WORKSHOPS AND KOOTENAY COAL MINE TOUR - APRIL 27

In cooperation with Elk Valley Coal, MREPBC will be offering workshops for *K-3 Kids and Rocks: Geology and its Impact on Our World*, the *Grade 5 Integrated Resource Unit on Mining and Earth Science 11/Geology 12 "Resources and Ideas"* in the Elk Valley on April 27, 2007. The workshops will be complemented by a field trip to an operating Elk Valley Coal mine. Elk Valley Coal will cover the workshop costs, making this a *free* event for teachers. A \$25.00 *registration deposit* is required to hold your space in the workshop and field trip. See Page 4 for registration information. **Deadline: April 13.**

## BC MINING WEEK - MAY 13-19, 2007

In celebration of *BC Mining Week*, geoscience, exploration and mining organizations and companies in Vancouver are hosting a community fair outside of the Vancouver Art Gallery on May 16. The community fair is *free* and will be open all. For details, or information on *Mining Week* activities elsewhere around the province, visit [www.bcminerals.ca/files/whats\\_new/000297.php](http://www.bcminerals.ca/files/whats_new/000297.php).



## FIELD TRIP TO HIGHLAND VALLEY COPPER - JUNE 5

The MREPBC is offering an all-day field trip for teachers to Highland Valley Copper near Logan Lake on June 5, 2007. The tour will be guided by mine personnel and include pit operations, processing in the mill, and reclamation. A \$25.00 *refundable* registration deposit is required; bus transportation from Vancouver or Kamloops will be arranged; lunch is provided. To register see Page 4. **Deadline: May 25.**

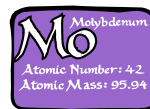
## ELEMENTARY AND SECONDARY WORKSHOPS - AUGUST 2007

This summer, MREPBC will be offering elementary and secondary level workshops in conjunction with a visit to a geoscience or mining related site. The following workshops will be offered: *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 corresponding geoscience or mining-related sites have not yet been confirmed but will be in the Vancouver-area or have transportation provided from Vancouver. This is your last opportunity to attend a MREPBC workshop for the special 15<sup>th</sup> anniversary reduced registration fee of only \$25.00. To express interest in attending, see Page 4.



## News and Notables

Vancouver-based Roca Mines' MAX Molybdenum Project near Trout Lake, BC will begin production in mid-2007. Molybdenum has a variety of applications, including high-strength, high-temperature alloys of steel, x-rays, and electronics and currently trades around \$28US a pound. The Roca Mines Web site hosts a short video clip that talks about the location, deposit, exploration and development of the MAX Molybdenum Project, and includes great photos of the site under construction. Check it out at [www.rocamines.com](http://www.rocamines.com).



## Field Trip Destinations

### BC MUSEUM OF MINING



Britannia Beach, BC. The BCMM will be holding special activities as part of BC Mining Week. To find out more contact Rory at 1-800-896-4044 ext. 226 or visit their Web site: [www.bcmuseumofmining.org](http://www.bcmuseumofmining.org).

### COURTENAY DISTRICT MUSEUM AND PALEONTOLOGY CENTRE

Offers school groups year-round guided tours of the museum and the Puntledge River Elasmosaur (Late Cretaceous marine reptile) site to collect fossils. Contact: 250-334-0686 or visit: [www.courtenaymuseum.ca](http://www.courtenaymuseum.ca).



### 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 ext. 26.



### 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. Open May-Oct. Contact: Dave Langevin at 250-374-7164 or visit [www.dll-fossils.com](http://www.dll-fossils.com).

### 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.



### MREPBC Travel Subsidies

\$150.00 field trip travel subsidies are available to teachers to help offset the costs of taking classes to mining or geoscience destinations or booking Yukon Dan's gold panning workshop at your school. Download the application form at: [www.bcminerals.ca/pdf/FTripSubsidy.pdf](http://www.bcminerals.ca/pdf/FTripSubsidy.pdf).



# Field Trip and Workshop Response

## MREPBC WORKSHOPS AND ELK VALLEY COAL FIELD TRIP - APRIL 27, 2007

This full-day (~8:00am-5:00pm) opportunity will include attending an MREPBC workshop followed by a visit to an Elk Valley Coal operation.

I am interested in attending the following workshop (select one):

- K-3 Kids and Rocks: Geology and Its Impact on Our World
- Grade 5 Integrated Resource Unit on Mining
- Earth Science 11/Geology 12 "Resources & Ideas"

Workshops will be held in Sparwood or Elkford. Please indicate which location you would be able to attend (select one or more):

- Sparwood (with a visit to Elkview Coal Mine)
- Elkford (with a visit to Greenhills Coal Mine)

The workshops will be held at the location with the most responses. Bus transportation to the trip site will be provided from the city centre. A refundable \$25.00 registration deposit is required. You will be contacted via fax with the finalized workshop location itinerary. Please submit the contact information below via fax ASAP, and follow-up with your registration deposit via mail. **Deadline: April 13.**



## MREPBC WORKSHOPS - AUGUST 2007

The August sessions of our workshops will be held in the Vancouver-area in coordination with a visit to a mining or geoscience site of interest TBA.

I am interested in attending the following workshop (select one):

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



The workshop and field trip be a full day (8:00am-5:00pm) educational opportunity. The mining or geoscience locations have yet to be confirmed but will be in Vancouver or will have transportation provided from Vancouver. Additional details on dates, times and locations will be forwarded via email as they become available. A registration fee of \$25.00 is required to hold your space in the workshop.

## HIGHLAND VALLEY COPPER FIELD TRIP, JUNE 5, 2007

- I will attend the all-day tour of the Highland Valley Copper mine on June 5, 2007.

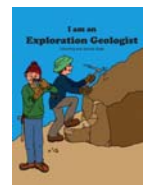
I require transportation from:  Vancouver (~6:00am-7:00pm)  
 Kamloops (~9:30am-3:30pm)



Please complete the contact information below and enclose a \$25 refundable registration deposit. Bus transportation will be provided from Vancouver or Kamloops. Detailed itinerary and registration confirmation will sent via fax or email. **Deadline: May 25, 2007.**

## Materials Orders

### I AM AN EXPLORATION GEOLOGIST COLOURING BOOK



- Please send a single copy *free of charge*.
- Please send me \_\_\_\_\_ copies at a cost of \$0.50 per copy to cover shipping and handling.
- I would like to pick up \_\_\_\_\_ copies (max. 100) *free of charge* from the MREPBC office in downtown Vancouver. Please contact me when my order is available for pick up.

Please include cheque or Money Order for appropriate shipping charges.

### MINERAL MANIA!

\_\_\_\_ Quantity @ \$10.00 ea., including taxes and shipping.

### FREE! MREPBC RESOURCES FOR TEACHERS

Please send me:

- a *free* copy of the *Mining in BC* poster.
- a *free* copy of the *Minerals of Canada* poster .
- free* *Mining in BC* bookmarks \_\_\_\_\_ copies



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

Mineral Resources Education Program of BC, 900 - 808 West Hastings Street, Vancouver, BC V6C 2X4  
Tel: 604-681-4321 ext 108/115 Fax: 604-681-5305

**Payment or Purchase Order** must accompany materials orders. Please make cheque or money order payable to MREPBC.

### Registration/Contact Information

Name: \_\_\_\_\_ Email: \_\_\_\_\_

School Name: \_\_\_\_\_

Grade Level: \_\_\_\_\_ Subjects Taught: \_\_\_\_\_

Address ( School or  Home): \_\_\_\_\_

City: \_\_\_\_\_ Postal Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_