

In this issue

- Mineral Exploration Roundup
- MineralsEd Upcoming Programs
- For Your Class!
- New Resources

Connect with us

Sheila Stenzel, Director
Virginia East, Coordinator

E: info@MineralsEd.ca
P: 604.682.5477
F: 604.681.5305
900 - 808 W Hastings St.
Vancouver, BC V6C 2X4

www.MineralsEd.ca



Best Wishes for 2018

Happy New Year and welcome back to school! We hope your holidays were filled with festivities and wish you all the best in 2018.

In this Winter edition of *MineralsEd Connections*, you will find information about upcoming Pro-D opportunities, student events, and new teaching resources. In January we will be at *Mineral Exploration Roundup* in Vancouver to deliver our teacher and student programs. In February we look forward to presenting Pro-D workshops for our elementary resource units in Coquitlam, and an exciting Pro-D field trip to tour the operations at *Neptune Terminals* and *Chemtrade Electrochem* on the North Shore.

MineralsEd at Roundup 2018, Vancouver

Mineral Exploration Roundup is an annual conference that is organized and hosted by the *Association for Mineral Exploration (AME)*. *Roundup* is a forum for industry professionals who work in some aspect of mineral exploration to gather and discuss exploration techniques, showcase new discoveries, and find financial backing for new projects. *MineralsEd* will partner again with *AME* to offer educational programs for teachers and students at this important event.

Secondary Student Career Exploration Day - Monday, January 22

Grade 11 and 12 students are invited to join us at *Roundup* to explore the breadth of careers within the mineral resource industry. Early career professionals from several fields in the industry will speak to the students, as will seasoned professional, Patrick McAndless, to share his insight on career development.



Partner-teacher *Bruce Kiloh* facilitates the program. Students are accompanied by volunteers, most of them post-secondary students in related fields, as they explore the trade show. Students must be nominated by a teacher to attend. Information and nomination form: <http://bit.ly/2BvXX0S>.

By teachers, for teachers.

MineralsEd Upcoming Programs

Teachers' Day at Roundup Tuesday, January 23

4 Billion Years of Change: Earth Through Geologic Time is the theme of our Pro-D program for teachers at *Roundup*. Facilitated by partner-teacher **Kerry Lockwood**, the program will feature presentations from **Dr. Stuart Sutherland** and other faculty from the UBC Department of Earth and Ocean Sciences, hands-on learning activities, and an opportunity to explore the conference trade show.

This Pro-D program supports teachers who address Earth science topics in upper-intermediate and secondary grade levels. Limited **TTOC support** is available from *MineralsEd*. More information and registration is at:

<http://bit.ly/2kyojoY>

Elementary Rockhound Day Wednesday, January 24

This is the 15th year that *MineralsEd* will host intermediate students for a fun-filled day of learning at *Roundup*. Our 2018 guests are from elementary schools in Vancouver and Richmond: **Lord Beaconsfield**, **Dr. George Weir**, and **Henry Anderson**.

These students have been working on Earth science and mining units during the fall semester. Their class projects will be on display at the conference all week. They will attend the conference on January 24th for hands-on activities with geologists and related industry partners.

If you are interested in your class participating in the future, please email info@mineralsed.ca.

Neptune & Chemtrade Terminals Pro-D Teacher Field Trip Friday, February 23

As part of our Port of Vancouver exploration series, *MineralsEd* is partnering with **Neptune Terminals** and **Chemtrade Electrochem** to host a Pro-D field trip to tour these harbourfront operations.

Neptune Terminal, one of the largest multi-product bulk terminals in North America, has been a part of the North Shore community for 45 years.

Chemtrade is a chemical manufacturer that produces and ships sodium chlorate and chlor-alkali products for the pulp and paper, and water treatment industries. It has operated on the waterfront for nearly 65 years. For information and to register visit: <http://bit.ly/2ATqXwy>. Cost: \$25.00.

MineralsEd Pro-D Workshops, Coquitlam Teachers' Association Pro-D Day, February 23, 2018

MineralsEd will present workshops for our elementary resource units at **Pinetree Secondary** as part of the the *CTA Pro-D Day* on **Friday, February 23rd**. Registration opens **February 1st** through the CTA website: <http://bit.ly/2BJsbvP>. For more information about the resource units, including a list of the resource kit contents visit our website: <http://bit.ly/2ABNzBF>.

K - Gr.3 Integrated Resource Unit: Kids & Rocks

Fun, hands-on activities and lessons build literacy skills while engaging children in the scientific process of enquiry and teaching new content in science, socials, math, art, and other areas. *MineralsEd* partner-teacher Ann Brace introduces this cross-curricular unit built around the theme of rocks. You will be ready to use this resource the very next day.

Grade 4/5 Integrated Resource Unit on Mining

Students compare mining in the past, present and future, learn about mining in BC, the rock cycle, the mine development process, environmental impacts, mineral uses, and careers. *MineralsEd* partner-teacher Andrea Eisler introduces and shares her ideas for teaching this cross-curricular unit (socials, science, math, language arts, etc.).

Gr. 7/8 Earth Sciences Resource Unit

The heart of this unit is a creative collection of instructional activities and demonstrations that support the science curriculum and help teach students the fundamentals of geology, rocks and minerals, the structure of Earth, plate tectonics and the history of our planet. *MineralsEd* partner-teacher Kerry Lockwood introduces how to use the unit and kit materials in this workshop.

For Your Class!

Modern Mining in the Classroom

MineralsEd is pleased to partner again with the BC branch of the *Canadian Mineral Processors (CMP)* to offer our *Modern Mining in the Classroom* program in **April 2018**. Volunteer speakers will be available for 60-90 minute presentations that are aimed at intermediate classes¹ working on mining units in the spring. Speakers will explain the mining process, demonstrate mineral processing techniques, and share insight into their work as professionals in the mineral resource industry.

Classes from all communities are welcome to apply, but volunteers are limited so register early!

Request a visit through our website: <http://bit.ly/2BrW6L8>

¹ Requests from secondary classes will also be considered.

Geodude Corner

As we build our roster of industry-partners, we are pleased to continue our partnership with geologist and outreach educator, **Patrick McAndless**. Patrick is an industry veteran who enjoys sharing his passion for the Earth, mineral resources, mining, education, and personal planning with youth. He offers three different themed talks.

For more information and to book Geodude, visit: <http://bit.ly/2Czldr0>.

Geologist in the Classroom

This 60-90 minute presentation is geared towards upper intermediate and secondary grade levels. It introduces rocks and minerals, plate tectonics, mineral exploration and mining. Request a guest speaker here: <http://bit.ly/2ASacGI>.

All guest speaker programs are *free*!

Kids & Rocks Classroom Workshop

MineralsEd partner-teachers **Ann Brace** and **Wanda Pickell** deliver this engaging, one-of-a-kind workshop for primary grade levels. Through hands-on activities, students will learn about rocks and their many properties, what rocks are made of, and how they can be used at natural resources. Students observe and touch, sort and classify, work independently and together. It is an inquiry-based learning experience that teaches the processes of science and math utilizing a subject children love -- ROCKS!

Book your workshop through our website: <http://bit.ly/2jZF6SG>.

Cost: \$6/student, or \$120 minimum/class.

Available in the Lower Mainland, and by request in other communities.

BC Mining Community Fair, May 16, 2018

MineralsEd will be hosting the *BC Mining Community Fair* in Vancouver on Wednesday, May 16th, 2018. Geoscience organizations, and mining and exploration companies will come together to present exhibits, demonstrations and hands-on activities on rocks, minerals, the mine development process, BC's mineral resources, mineral products and sustainability.

We will coordinate the participation of **twelve** classes to attend this **free** event and will cover the cost of transit and/or travel (up to \$200 maximum). Registration opens March 1: <http://bit.ly/2DhqlwP>.

This year, the mining and mineral resource industry will be celebrating the importance of mining in BC throughout the entire month of May. Events are planned across the province. Visit the official BC Mining Month website for information about how to participate in other events.



New Resources

Learning Resources at www.MineralsEd.ca

Looking for a trustworthy online resource for geology, mineral resources and mining content? Look no further than our new website! The new www.MineralsEd.ca is chock-full of accurate information about BC's mineral resource industry, local geology, and quality teaching resources for all grade levels. Under the **Learning Resources** tab are *Teacher Resources*, where you will find information about all of our classroom workshop and guest speaker programs, a list of local destinations for class field trips, as well as the field trip subsidy application form. *Mining 101* should be your first stop in learning about the modern mining process. The *Virtual Library* is where you will find links to all our free educational resources, organized by topic. Finally, the *BC Mines Map* is the go-to resource for up-to-date and accurate information about BC's operating metal, coal and industrial mineral mines. Bookmark our home page to keep all these fabulous resources at your fingertips!

MineralsEd Social Media

Like us on **Facebook** to be informed of relevant geology and mining news, cool articles on Earth sciences, engineering, materials science and metallurgy, and new learning resources to spice up your teaching. We will remind you of upcoming events for teachers and students, as well as approaching registration deadlines. <https://www.facebook.com/MineralsEd>

Subscribe to our **Youtube Channel** and discover dozens of vetted educational videos on a variety of topics related to Earth science and mining. New videos are added periodically. <http://bit.ly/2BuuFR2>

Connect with us on social media and never worry about missing a workshop or field trip again!

BCIT Mining and Mineral Resource Engineering Outreach Program

The students in **BCIT's Mining and Mineral Resource Engineering** school are developing a special program for highschool Earth Science and Geology classes during BC Mining Month in May. More information coming soon, so stay tuned!

Surrey Rock Hound Club

The **Surrey Rock Hound Club** offers workshops for classes at their facility. The cost is \$3.00 per student. Please contact the Education Coordinator, Gail Hall, for more information at 604-762-1676.

TRAVEL SUBSIDIES

Travel subsidies are available from **MineralsEd** to teachers for mineral relevant class field trips and for Yukon Dan workshops. Complete the application at: <http://bit.ly/2BsJHGW>



New Poster from Mining Matters

Medicine from the Ground Up is the newest poster in the *Mining Makes it Happen Poster Series* from Mining Matters. This new resource focuses on the importance of mineral resources to the health care industry. Over 60 metals and minerals mined in Canada are necessary components of surgical instruments, medical devices, diagnostic aids, and more! This poster is now part of our Gr. 4/5 resource unit kit, and our free *MineralsEd Sample Packs*, available in our Online Store!

