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## Happy New Year!

Welcome back to school! We hope your holidays were spent with family and friends making more favourite memories together.

In this Winter edition of *MineralsEd Connections*, you will find information about upcoming Pro-D opportunities and student events. In January our featured programs will be at *Mineral Exploration Roundup 2019* in Vancouver (pg. 1-2), our 16th year of hosting student and teacher programs at this important conference. We also look forward to presenting Pro-D workshops for our elementary resource units in Abbotsford (January 25) and in Coquitlam (February 22) (pg. 2), and to co-hosting an eye-opening Pro-D field trip to port operations in Delta (February 15)(pg. 3).

## MineralsEd at Roundup 2019, Vancouver

*Mineral Exploration Roundup* is an annual conference organized by the *Association for Mineral Exploration (AME)*. *Roundup* brings together industry professionals who work in some aspect of mineral exploration to present new technologies, showcase new discoveries, and secure investment for further work. *MineralsEd* partners with *AME* to offer our educational programs for teachers and students that introduce the modern, multi-faceted minerals industry and its people.

### Teachers' Day at Roundup, Tuesday, January 29

We depend on energy for nearly everything. Where and how it is generated is evolving. This year our Teachers' Day program will address **Renewable Energy: New and Emerging Alternatives for BC**. It will feature presentations from experts in geothermal, wind, run of river, wave and tidal energy, and introduce you to energy lessons for your classroom.



This free Pro-D program supports teachers who address related Science and Socials 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>.

**By teachers, for teachers.**

## MineralsEd Upcoming Programs

### Student Career Exploration Day Monday, January 28

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 tell their school and career path stories. Seasoned professional, **Patrick McAndless**, will also 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 mining-related fields, as they explore the conference trade show and pan for gold with **Yukon Dan**. Students must be nominated by a teacher to attend. Information and nomination form: <http://bit.ly/2BvXX0S>.

### Elementary Rockhound Day Wednesday, January 30

**MineralsEd** is excited to also host intermediate students for a fun-filled day of learning at **Roundup**. Our guests will be from **Dr. George Weir Elementary** (Vancouver), **Cape Horn Elementary** (Coquitlam), and **Henry Anderson Elementary** (Richmond).

These **Roundup Rockhounds** have been working on Earth Science and mining units this fall in preparation to attend the conference. Their class projects will be on display at the conference throughout the week. They will attend on January 30<sup>th</sup> for a full day of hands-on activities with geologists and other industry volunteers.

If you would like your class to participate in the future, please email [info@mineralsed.ca](mailto:info@mineralsed.ca).

### Kids and Rocks Pro-D Workshop Friday, January 25, Abbotsford

*Are you looking for an exciting way to introduce nature learning to your young learners and cover curriculum requirements along the way?*

**MineralsEd's K-3 Integrated Resource Unit: Kids & Rocks** is a teacher-written and -developed resource. It is a well thought-out collection of activities and lessons that build literacy skills while engaging children in the scientific process of enquiry and teaching concepts 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.

Registration is through Eventbrite: <https://adta-k-3-workshop.eventbrite.ca>.

## MineralsEd Pro-D Workshops, Coquitlam Teachers' Association Pro-D Day, February 22, 2019

**MineralsEd** will present workshops for our elementary resource units at Pinetree Secondary as part of the **CTA Pro-D Day** on Friday, February 22<sup>nd</sup>. Registration opens February 1<sup>st</sup> 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.

## Westshore Terminals & Container Trail Pro-D Tour, Delta, February 15, 2019

In follow up to our Natural Resources in Vancouver Harbour Cruise in October, MineralsEd partners with the Vancouver Fraser Port Authority, Westshore Terminals, and Teck Resources to provide a Pro-D field trip to see Canada's global trade in action. Visit port operations at Roberts Bank in Delta, beginning with a site tour at Westshore Terminals, Canada's largest coal export facility. Next up is the Container Trail tour showcasing Canada's largest container terminal at Deltaport, a busy container depot and huge logistics warehouses.

More information and link to registration: <https://tinyurl.com/y78lxrao>.



## For Your Class!

### 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 exploration students will observe and test properties of rocks, the features that tell them something about how they formed or what they are made of. 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: <http://bit.ly/2jZF6SG>.

### Junior Geologist Workshop

*MineralsEd* partner-teachers **Wanda Pickell** and **Andrea Eisler** deliver this engaging workshop for **intermediate** grade levels. Using a representative collection of rocks and minerals, students will learn about the **rock cycle**, **how rocks form**, and how we use rocks and minerals as **natural resources**. They will be introduced to mining

and mineral resources in BC, and learn about **minerals** as the ingredients in rocks, testing their physical properties in order to identify them.

This workshop supports the Grade 5 science curriculum, ties into Grade 4 & 5 Socials, and is a great way to jazz up your unit this spring! Book your workshop: <https://tinyurl.com/yda5mxgp>.

### Guest Speakers

For several years *MineralsEd* industry-partners, **Bob Singh** and **Patrick McAndless**, have presented to classes that are learning about Earth Science, mineral resources or mining. Both men are geologists with many years of experience in industry. They are knowledgeable, engaging, passionate about Earth and all it provides, and enjoy teaching.

**Mr. Singh** and **Mr. McAndless** visit schools around their busy schedules for 60-90 minute presentations that can be tailored to intermediate elementary and secondary grades. **Mr. Singh's** presentation introduces rocks,

minerals, tectonics, exploration and mining. Request **Mr. Singh** here: <http://bit.ly/2ASacGI>.

**Mr. McAndless** has four talks of different themes from which to choose. Find more information and book **Mr. McAndless** here: <http://bit.ly/2Czldr0>.

### 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 2019**. Volunteer speakers will be available for 60-90 minute presentations that are aimed at intermediate classes<sup>1</sup> 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.

Request a *Modern Mining* guest speaker: <http://bit.ly/2BrW6L8>.

<sup>1</sup> Requests from secondary classes will also be considered.

## For Your Class!

### Coal Then & Now: Guest Speaker Program

*MineralsEd* is delighted to partner again with volunteers from the Western Canadian Coal Society (WCCS) to present *Coal Then & Now*. This presentation is designed for Grade 4-5-6 classes learning about BC's mineral resources and mining. It will be of special interest to those classes that are also completing a historical novel study of *Pit Pony*. *Coal Then & Now* is also relevant to and supports secondary Earth Science and Geology courses. Registration is open for bookings between January 14, 2019 and March 15, 2019: <https://tinyurl.com/ybudrhm3>.



### Yukon Dan

**Yukon Dan Moore** is a world champion gold panner who presents a one-of-a-kind, gold panning workshop in classrooms at all grade levels. His workshop supports science and social studies relating to Earth Science, geology, natural resources, the history of BC, and the history of Canada. To arrange a workshop phone or email Dan directly at (604) 948-4941 or [gold@yukondan.com](mailto:gold@yukondan.com). For further information on Dan's workshop, visit our website at: <https://tinyurl.com/y7hrtsfg>.



### WHERE Challenge Contest

What on Earth is your stuff made of? The **WHERE Challenge** invites youth (ages 9-14) from across the nation to develop projects that feature the non-renewable mineral ingredient(s) of a familiar item, and explain where that product comes from. Contest opened in September; submission deadline is March 7, 2019. <http://earthsciencescanada.com/where/#>.



### Learning Resources at [www.MineralsEd.ca](http://www.MineralsEd.ca)

Looking for a trustworthy online resource for geology, mineral resources and mining content? Look no further than our website! [MineralsEd.ca](http://www.MineralsEd.ca) is chock-full of information about BC's mineral resource industry, local geology, and quality teaching resources for all grade levels. Bookmark our home page to keep all these fabulous resources at your fingertips! Our [YouTube channel](#) also has a large, vetted collection of videos that support your teaching.

## TRAVEL SUBSIDIES

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



### Britannia Mine Museum, New Mill Show Experience

The Public Grand Opening of Britannia Mine Museum's new mill show will be on May 4th and 5th. The Mill will feature a multi-sensory show with an immersive sound and light experience. A show that engages its audience and shares the function of the Mill and its context within British Columbia and Canada's mining history.



<https://www.britanniaminemuseum.ca/coming-soon>