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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 2020* in Vancouver (pg. 1-2), our 17th 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 Coquitlam (February 28) (pg. 2).

The New Year Brings Change

After 20 years of working with *MineralsEd*, first as a volunteer with the founder, *Maureen Lipkewich*, then as her Coordinator, and then as the Director, I have retired from my work with this unique educational organization. It has been a great pleasure and an honour to work with our *partner-teachers* in support of Earth Sciences, mineral resources and mining education in school, and a joy to meet so many of you and your students over the years. *MineralsEd* is in good hands going forward with a new Director, *Jason Courneyea*, and Coordinator *Kristi Collins*. *Jason* and *Kristi* are geologists who love all things in the realm of Earth Sciences, respect the contributions of mining and miners, have their hearts in school education, and will be great supports for you in the years ahead. All the best to them and to all of you. *Sheila Stenzel*

MineralsEd at Roundup 2020, Vancouver

Mineral Exploration Roundup is an annual conference organized by the *Association for Mineral Exploration BC (AMEBC)*. *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.



By teachers, for teachers.

MineralsEd Upcoming Programs

Student Career Exploration Day Monday, January 20

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 schooling and career path stories. Seasoned professional, **Patrick McAndless**, will also share tips and tricks for meaningful and effective networking as a way to market your personal brand and “get discovered”. 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>.

Teachers’ Day at Roundup Tuesday, January 21

We invite teachers who are interested in learning about *Careers in the Modern Minerals Industry* to our Teachers’ Day program. It will feature presentations by minerals industry presenters, who will shed light on the make up and diversity of the workforce, from their business headquarters to exploration camps to mines, and to introduce how new technologies are used with the boots on the ground work to define, advance and develop new projects. The afternoon, comprised of a career-tailored exploration activity, will build on your new knowledge and let you explore the trade show! This free Pro-D program supports teachers who address Science and career education topics. Limited **TTOC support** is available from *MineralsEd*. Details and registration are at: <http://bit.ly/2kyojoY>.

Elementary Rockhound Day Wednesday, January 22

MineralsEd is excited to also host intermediate students for a fun-filled day of learning at *Roundup*. Our guests will be from **Our Lady of Sorrows School** (Vancouver), **Rosedale Traditional Community School** (Chilliwack), and **Queen Victoria Annex** (Vancouver).

These *Roundup Rockhounds* have been working on Earth Science and mining units this fall in preparation to attend Roundup. Their class projects will be on display at the conference throughout the week. They will attend on January 22nd 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.

MineralsEd Pro-D Workshops, Coquitlam Teachers’ Association Pro-D Day, February 28, 2020

MineralsEd will present workshops for our elementary resource units at **Pinetree Secondary** as part of the *CTA Pro-D Day* on **Friday, February 28th**. Registration coming soon 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.

BC Mining Month Community Fair, May 13 2020

MineralsEd is hosting the semi-annual *BC Mining Month Community Fair* in Vancouver. On Wednesday, May 13, geoscience organizations and mining and exploration companies will come together to present a variety of exhibits, demonstrations and hands-on activities on rocks, minerals, the mine development process, BC's mineral resources, mineral products and sustainability.

MineralsEd 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 coming soon on our website!



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, and 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>.

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 13, 2020 and March 13, 2020: <https://www.mineralsed.ca/learning-resources/teacher-resources/guest-speakers/coal-then-now/>

Modern Mining in the Classroom

In preparation for Mining Month in May, *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 to communities across BC in **April 2020**. 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.

Request a *Modern Mining* guest speaker: <https://www.mineralsed.ca/learning-resources/teacher-resources/guest-speakers/modern-mining/>. This program relies on the availability and location of volunteers and books up quickly so get your request in as soon as possible! Registration opens at the beginning of February.

¹ Requests from secondary classes will also be taken.

For Your Class!

Follow us on Social Media!

MineralsEd is on [Twitter](#), [Instagram](#), [Facebook](#), [Flickr](#), and [Youtube](#). Follow our social media accounts to stay up to date on events, workshops, professional development opportunities, student opportunities, educational materials, and fun Earth science and geology related posts! Our Flickr gallery features photos from our events and our Youtube channel is a fully vetted collection of educational videos that will support your classroom teaching or are great to watch for casual learning purposes as well!



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. For further information on Dan's workshop, visit our website at: <https://tinyurl.com/y7hrtsfg>.



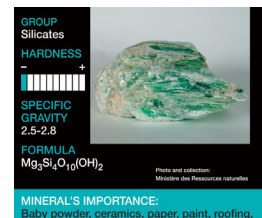
Britannia Mine Museum

Britannia Mine Museum offers informative and entertaining guided tours for school groups as part of their finely crafted K-12 educational program. On your tour you can also check out BOOM!, the live-action experience in the historic Mill building. Britannia is open year-round and offers special rates at certain times of the year. See their [website](#) for details and booking.



CIM Foundation Mineral Cards

Visit the [Canadian Institute of Mining & Metallurgy Foundation website](#) to view their National Mineral Card set. These 129 minerals are colour profiled, each with information to help students learn about the properties of minerals and how they are used in daily life. There are also national quartz, metal, and rock cards sets, along with many others!



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>.



MineralsEd Online Store

Visit the MineralsEd [website](#) to view all of the resources available for purchase or to order your free sample pack of MineralsEd materials!

You can also visit our Virtual Library for hundreds of online resources for geology, mineral resources and mining content that will support your teaching for all grade levels. Our YouTube channel also has a large vetted collection of videos for your use.



<https://www.mineralsed.ca/learning-resources/teacher-resources/store/>