INFORMATION FOR TEACHERS ABOUT THE VISIT OF THE M4S SHOW

Hosted by the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) and the Maintenance Engineering and Mine Operators Conference (MEMO)

Dear teacher,

In just a few weeks, you will be visiting the M4S Show with your students. This interactive activity is meant to:

- Educate students on the mining cycle;
- Provide teachers and students an opportunity to further discuss the impact mining and its related activities has on everyday life;
- Increase public knowledge of the mining industry and its many fields of employment: exploration, mining, processing, products & fabrication, education and sustainability;
- Convey the excitement that career opportunities linked to the mining industry offers.

Your confirmation

You will soon receive an e-confirmation of your M4S visit with all the necessary details including your bus schedule to the event. Meanwhile, in order for your students to get the most out of the experience, we suggest you prepare them adequately. Keep reading!

Your time at the M4S show

- Your M4S visit will take between 90 and 120 minutes.
- Plan to bring a parent or two to assist you.
- Upon arrival, students will receive a bag with an M4S booklet containing questions pertaining to each pavilion. This Amazing Mine Challenge is exciting for them.
- During the visit, please keep your students in small groups accompanied by adults.
- Exhibitors are committed to communicate their knowledge and increase yours. Please encourage students to take part in the learning experience actively.
- At the end of the visit, each teacher must regroup their students in a holding area. Detailed instructions will be included in your confirmation.
- Be sure your group is ready to get back on the bus with their belongings as per the schedule. It's a good time to get everyone to the washroom if needed.

What is the M4S-Show? An educational show on Mining, Minerals, Metals and Materials. Your students will visit themed pavilions representing the mining cycle. They are:

➢ Exploration

What do you need to make that next big discovery?

This pavilion will explore the tools, maps and technology used towards successful exploration. Participants will be introduced to modern mineral exploration, prospecting and claim-staking techniques that can make new discoveries a reality.

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➢ Mining

Imagine operating a mammoth mining vehicle on an actual simulator!

Mine development, mineral extraction and mining methods will all be explored at this pavilion. Visitors will learn about the process minerals undergo — from mine to mill and beyond.

➢ Processing

What does blowing bubbles have to do with mining?

This is where participants will discover how electrical currents, magnets and bubbles help with mineral separation by running a froth flotation device or performing particle separation. The differences in the processing of minerals, metals, oil, diamonds and gems will also be explored.

➢ Products & Fabrication

How does mining help prevent cavities?

This pavilion demonstrates how minerals are used every day — from toothpaste and computers to bicycles and fine art. Explore how these everyday products are used and ultimately how they depend on mining for their creation.

➢ Education

Where do I study towards a career in the mining industry?

This pavilion will feature various programs offered by universities, trade schools, high schools, and on-line providers - and will include real-life demonstrations of available career opportunities - highlighting the diversity of education requirements. With 100,000 jobs to fill in the next decade, career opportunities are numerous.

➢ Sustainability

Is the mining industry green?

From green technologies to community development, visitors are shown how mining supports sustainability. Discover how mining and communities are dependent on each other, and how mine sites can be reclaimed and enhanced for future uses including nature reserves, air strips, race car tracks, hi-tech scientific research facilities, underground homes and resorts.

➢ **Maximizing the M4S experience: have fun by visiting these web sites and books. Get your students thinking before their visit of the M4S show.**

www.dk.com

- **Eyewitness books**
  - Rocks and Minerals written by Dr. R.F.SYMES
    ISBN: 978-0-7566-3777-4 (HC)
- **Eyewitness workbooks**
  - Rock & Minerals written by Helen Whittaker
    ISBN: 978-0-7566-3822-1

http://nature.ca/prodserv/cat/

- **Canadian museum of nature**
  - **Beginner's Guide to Minerals and Rocks (hard cover)**
    Catalogue No. 474
    ISBN/UPC: 978-1-55041-584-1
    Joel Grice. 2010. 317 pp.

http://www.mineralogicalassociation.ca/

- **Mineralogical Association of Canada**

http://www.nrcan.gc.ca/studelev/index-eng.php

- Students, ever wonder what it takes to be an engineer, a geologist or a volcanologist? Explore this site to find out what researchers and scientists do to learn more about Canada's natural resources.
- Natural Resources Canada offers educators of various levels information, lesson plans, science projects and other resources developed for the classroom.

http://gsc.nrcan.gc.ca/bookstore/collect/appendg_e.php#sk

- **Saskatoon**
  Saskatoon Lapidary & Mineral Club
  210 Braeshire Lane
  Saskatoon, SK S 7B 1B2
  Tel.: (306) 382-1871