



## Health and Safety Minute

Large mining equipment pose a serious risk to smaller miners and smaller vehicles. Traffic controls, hazard training, and equipment collision avoidance systems can prevent injuries and fatalities.

Key Safety Practices:

- Communicate with equipment operators before entering or exiting a work area.
- Train operators on the limited visibility and blind spot areas of large equipment.
- Do not drive or park smaller vehicles in mobile potential path or blind spots of large equipment.
- Install collision avoidance or other warning technologies on mobile equipment.

## Section Chair Report

Well, the SME CMA National Conference and Expo came and went. I hope all of those who attended got to see some old friends, meet some new ones, and hopefully learned something new. I did, and I had blast! A huge thank you our speaker last month, Dr. Brad Ross who gave an exceptional prestation on the lessons learned from the Bingham Canyon slide, as well as thanks to all those who were able to attend. I am pleased to announce our next meeting on March 21, 2019 at the American Mountaineering Center in Golden. Our speaker, Dr. Christoph Goss, is a Civil Engineer & Principal at Deere & Ault Consultants Inc. The topic of discussion will be the Gold King Mine Rehabilitation. Please note this will be an evening meeting starting at 5:30PM.

Want to help make our events even better? We are looking for volunteers for our programs committee. Become part of a great team and expand your network while volunteering a small portion of your time.

As Chair of our SME Chapter, I am here to serve our members. If you have any criticisms or feedback, please do not hesitate to reach out. You can email me at [rschwering@hardrock-consulting.com](mailto:rschwering@hardrock-consulting.com). Thank you again for allowing me to serve in this role. Enjoy the winter weather, and I hope to see you at our January meeting!

Richard A. Schwering

## March Colorado SME Chapter Meeting

Please join us for the Colorado SME Section meeting on Thursday evening, March 21, 2019 at the American Mountaineering Center in Golden. Our speaker will be Christoph Goss, a civil engineer and principal at Deere & Ault Consultants Inc. Christoph will be discussing Gold King Mine rehabilitation, as he had the privilege of working as a consultant for the EPA during the repairs. His presentation will include background on Silverton area geology, mines around Bonita Peak, history of Gold King Mine, and discussion of initial portal stabilization, permanent support installation, and flow control structure.

The meeting cost is \$40 for non-students and \$20 for students. Meeting includes dinner catered by Moe's BBQ and beverages (beer, wine, and non-alcoholic options). For more information, please see the event page (<https://www.eventbrite.com/e/march-2019-sme-colorado-section-meeting-tickets-56681808816>)

Students: Please RSVP and send lunch menu requests to [sdoyle@mines.edu](mailto:sdoyle@mines.edu). \$20 meeting cost can be paid at the door via check or cash.

## Undergraduate and Graduate Scholarship Applicants

The SME Colorado Section is accepting applications from undergraduate and graduate students for the 2019-2020 academic year. Students who currently work in or intend to enter the mining, metallurgy, and exploration industries are encouraged to apply. Applications are due Friday, March 15.

Applicant requirements include:

- Mining, metallurgy, and exploration industry focused degree program (e.g. mining engineering, civil/environmental engineering, metallurgy, economic geology, geology, geochemistry, hydrogeology).
- Good communication skills demonstrated through the application process.
- Professional or Student membership with SME ([www.smenet.org](http://www.smenet.org)) – Student Chapter and Colorado Section membership is encouraged but not required.
- Online application submission including a copy of the current unofficial academic transcript.
- Undergraduate Students:
  - Junior or Senior status for the 2019-2020 academic year.
  - Minimum undergraduate cumulative grade point average (GPA) of 2.75.
- Graduate Students:
  - Admitted to MS, ME, or PhD graduate degree program for the 2019-2020 academic year.
  - Minimum graduate cumulative GPA of 3.0 for current graduate students.
  - Minimum undergraduate GPA of 2.75 for incoming graduate students.

Finalists will be contacted by a member of the scholarship committee to schedule an in-person interview in April 2019. Scholarship award recipients will be notified by June 2019. Fall and Spring disbursements of the scholarship award to recipients will occur upon receipt of a proof of enrollment document provided by the recipient to the scholarship committee in Fall 2019 and Spring 2020, respectively. If you have any questions, please contact Heather Lammers, Vice Chair of the SME Colorado Section at [hlammers@golder.com](mailto:hlammers@golder.com)

**Deadline for Submission: Friday, March 15, 2019.**

Please use the appropriate link below to apply for either the undergraduate or graduate scholarship.

[Undergraduate](#)

[Graduate](#)

**Colorado School of Mines Student Chapter meeting schedule for 2019:**

- March 14th: Hugh Miller- SME National
- April 11th: “Diaz Family”
- April 25th: Joe Driscoll- ERM

General Meetings beginning at 5:30 pm in the Colorado School of Mines Brown Building Room125



EMCD meeting will be on **Thursday, March 14th, 2019 at 6:00 p.m.**

Holiday Inn Lakewood

7390 West Hampden

Lakewood, CO 8227

SE corner Wadsworth and Hampden (highway 285)

We will have the pleasure of a presentation by **Amanda Adams** who will speak on **Challenges and Opportunities in Tailings Management**

The talk will center around the current state of tailings management practices – the successes and failures. Radical changes in the mining industry are needed for tragedies like the failures in Brazil to be eliminated. However, there are internal and external obstacles to overcome if the culture around tailings management can be fixed. Can stakeholders from the mine owners, regulators, academia and engineering consultants ever come together to freely share information? Are we kidding ourselves thinking that designing based on a minimum factor of safety is adequate? Will we ever get all 50 states to adopt consistent tailing dam safety standards and guidelines?

**Amanda Adams** is a licensed professional engineer (PE) and project management professional (PMP) with Stantec. She received her Bachelors in Geological Engineering from Colorado School of Mines. Her international project experience is focused on design and management of tailings facilities. She is currently serving as the Tailing Dams Committee Chair for the United States Society on Dams (USSD) and is an active member of Women in Mining.

Bring a friend so that he or she can also enjoy great company and the presentation. The meeting dinner will be \$35.00 per person. Student attendee dinners are \$5 per person. However, we are accepting sponsorship for students if anyone would like to contribute.

The Executive Committee will meet at 5:30 PM.

**Please RSVP by Tuesday, March 12<sup>th</sup> by 8 P.M.** To sign up we would like everyone to follow the link below and complete the sign-up form.

<http://www.emcdonline.com/contact-us/events-sign-up-form>

If you have trouble with the form or would prefer not to use the form, feel free to RSVP by responding to this email or contacting:

Erik Stepperud (720) 331-3222 [stepperude@hazenresearch.com](mailto:stepperude@hazenresearch.com) or

Solly Zitron (720) 840-9203 [zz@zzitron.com](mailto:zz@zzitron.com)

## SME Colorado Section Membership Renewal Reminder

If you have not done so already, please take this opportunity to sign-up for or renew your SME Colorado Section membership for the 2018-2019 year.

### How to join or renew:

**Online:** Credit card payments can be made online by visiting our website and selecting the 2018-2018 SME Colorado Section Dues link under the Our Events heading.

<http://community.smenet.org/colorado/events/>

**Mail:** Check payments of \$25 payable to *SME Colorado Section* mailed to Tem Tumurbat – SME Colorado Section Treasurer, 1400 16<sup>th</sup> St Suite 200, Denver, CO 80202-1471.

### Why you should renew:

The section dues that we collect are vital to our ability to continue our programs. Our Section's focus is on advocating for our profession and industry here in our region. Some of the things that your Colorado Section dues help us to provide are scholarships for college students, majoring in mining disciplines; support for the Colorado State Science & Engineering Fair; provide teaching materials and perform outreach to Colorado science teachers through their State association, sponsorship for K-12 teachers participating in the *All About Mining – A Total Concept of the Mining Industry* course, and help support the Colorado Mining Museum and the National Mining Hall of Fame. So, by supporting the SME Colorado Section, you are directly supporting and advocating for your profession.

## Upcoming Meetings

Section meetings are typically planned for the third Thursday of the month. Tentative dates and locations for 2019 meetings are:

March 21, 2019 – Evening meeting at the American Mountaineering Center in Golden

April 18, 2019 – Lunch at 240 Union in Lakewood

May 16, 2019 – Awards Dinner TBD  
Downtown Denver

## Monthly Meeting RSVP

Costs may vary, but they are typically as follows:

**Lunch Cost:** \$35 per person. Students welcome at \$15 per person with reservation.

**Dinner Cost:** \$50 per person. Students welcome at \$20 per person with reservation

RSVP and online payments can be made through Colorado SME Eventbrite page. Links to the Eventbrite page can be found on the section page:

<http://community.smenet.org/colorado/events/>

Credit card payments can be made online using the Eventbrite page. If you plan to pay by check or cash, email Sarah Doyle to RSVP. Check or cash payment due at the meeting.

Contact Sarah Doyle at [sdoyle@mymail.mines.edu](mailto:sdoyle@mymail.mines.edu), with any questions regarding the meetings.



**Interested in getting involved with your local SME Colorado Section?**

We are currently looking to expand our Programs Committee and need volunteers to:

- **Assist with the Annual Golf Tournament**
  - Event planning
  - Coordinating with Fossil Trace Golf Club
  - Reaching out to potential tournament sponsors and players
  - Fundraising with the CSM SME Student Chapter (e.g. mulligan and merch raffles)
  - Awards
  
- **Assist with monthly Section programming**
  - Tour / site visit planning
  - Reaching out to potential meeting sponsors
  - Event planning for the annual Gala awards banquet



**Please consider helping us out!**

**If you are interested, email a board member or catch us at a meeting and we will be in touch!**



**We want to hear from the Colorado SME Members!**

The Colorado SME chapter wants to connect with our members. Find us on social media!

[SME Facebook](#)

MEC on Twitter

MECEducation [@MECEducation](#)

[SME LinkedIn](#)



## SME COLORADO SECTION

Chair: Richard Schwering  
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Past Chair: David Bieber Email:  
[David.Bieber@martinmarietta.com](mailto:David.Bieber@martinmarietta.com)

Visit the SME Colorado Section web site: <http://community.smenet.org/colorado/home>

This Newsletter is emailed to current and active members of the SME Colorado Section. To view or modify your subscriptions, go to: <http://community.smenet.org/colorado/sectiondirectory/profile/mysubscriptionsonprofile>. You will be prompted to log in if you have not already done so, using your SME national login credentials.

You may also update your information with SME at: <http://www.smenet.org>