



## Health and Safety Minute

Powered haulage related accidents accounted for fourteen fatalities in 2017.

These types of the fatalities can result from:

- Mobile equipment going into bodies of water
- Miners becoming entangled in or struck by equipment
- Collisions between mobile equipment
- Failure of berms or guard rails near drop-offs

Best practices to prevent accidents from power haulage:

- Maintain berms and practice safe dumping methods
- Perform lock-out/tag-out/tryout and block equipment from motion before working on equipment
- Maintain control and stay alert when operating mobile equipment
- Conduct adequate pre-operational checks and correct any defects in a timely manner prior to operating mobile equipment.

## Section Chair Report

I am pleased to announce we have finally rolled out a new meeting invite system, **Eventbrite!** Everyone should be receiving easy to use emails for registration. We hope you all are enjoying our new system, and hope that it will help to increase attendance at our meetings!

This month we will be co-sponsoring a meeting with **Denver Coal Club at Landry's in the Denver Tech Center**. Bill Chapman and Wendy Hutchinson will be present on the Millennium Bulk Terminals-Longview Port (details on page 3). We hope to see you there!

We are also planning to have a formal May meeting: gala-style and where members can bring spouses. Please mark **Thursday, May 17** on your calendar!

As our Colorado Section "year" is wrapping up, we are looking for two new board members:

- Programs Chair
- Secretary

If you are interested, please contact any of our board members immediately!

I look forward to seeing you all this month at our co-sponsored meeting. The board is here to serve you, so if you have any questions or ideas, please do not hesitate to reach out!

Jessica

## Colorado SME Annual Golf Tournament Fundraiser

**When:** September 28th, 2018 starting at 8:30am

**Where:** Fossil Trace Golf Club in Golden, Colorado

**Why:** Our annual event raises funds to provide student scholarships

**Additional details on sponsorship opportunities will be coming soon. Six students received scholarships from the funds raised at the tournament last year.**

## SAVE THE DATE ANNUAL GOLF TOURNAMENT UPDATE

In September we will be hosting our annual golf tournament at Fossil Trace Golf Club in Golden, Colorado. This year to our golf tournament will be held **September 28<sup>th</sup>, 2018** starting at 8:30am.

This fund-raising event supports the Colorado Section scholarship program for students receiving degrees in Mining Engineering, Metallurgy, and Mining Geology. Support from our generous sponsors last year allowed us to provide scholarships to six students.



Bill Behre is a senior in mining engineering at Colorado School of Mines. He has worked in coal and aggregates, and hopes to use his degree and industry experience to help develop innovative and safe mining techniques.



Marie Heatherington is a junior in Mining Engineering at Colorado School of Mines. She is the lead technician for the CSM Student Mine Rescue team and the historian for the CSM Student SME Chapter.



Halley Keevil is currently a Ph.D candidate at the Colorado School of Mines. Halley's Ph.D research topic is the genesis of the White Mountain gold deposit in northeastern China.



Brad Meyer is pursuing his Master's degree in Underground Construction and Tunneling at the Colorado School of Mines, with a research focus on the use of acoustic emission to detect damage thresholds in rock.



Danielle Rocha is a Mining Engineer who graduated from Universidade Federal de Ouro Preto in Brazil. She is currently a Ph.D. candidate at Colorado School of Mines, where her research focus is fine grinding processes.



Benjamin Teschner is a PhD Student at Colorado School of Mines researching social risk management and how our industry can better incorporate these risks into the valuation and design of mines and projects.

COLORADO SECTION NEWS – MARCH 2018

**SME & Denver Coal Club Joint Meeting**

Landry's Seafood House  
7209 South Clinton Street  
Englewood, CO 80112

**Thursday March 15<sup>th</sup>  
11:30 AM – 1:00 PM**

Join us at Landry's for our SME Colorado/Denver Coal Club March meeting. Our speakers, Bill Chapman and Wendy Hutchinson, will present on Millennium Bulk Terminals-Longview.

Registration can be done through the website link:

<https://www.eventbrite.com/e/sme-colorado-denver-coal-club-joint-march-2018-meeting>

Lunch Cost: \$35 per person. Students welcome at \$15 by registering by emailing event coordinator Laura Fletcher: laurafletcher435@gmail.com and paying at door.

Our speakers, **Bill Chapman and Wendy Hutchinson**, will present on **Millennium Bulk Terminals-Longview**. This important project is an operating bulk materials port on the Columbia River in Cowlitz County, Washington, which was initially home to an aluminum smelter built in 1941. Millennium is committed to the environmental clean-up and redevelopment of this site into a vibrant, world-class coal export facility that will create family-wage jobs. The presentation will focus on the circuitous path through the regulatory system and into the judicial system.

**Bill Chapman, CEO**

Bill became president and CEO of Millennium Bulk Terminals – Longview in June 2014. Bill has served as legal counsel for Millennium since before the company formed, helping the company's efforts to permit and build the coal export facility on the site of the former Reynolds Metals plant.

**Wendy Hutchinson, Vice President of Government & Public Affairs**

Wendy has more than 25 years of experience in industrial site development, regulatory affairs, and environmental management. When she's not in Washington explaining to people that coal is a legal commodity, Wendy can be found horseback with her husband on their buffalo ranch in NE Wyoming.



## GRADUATE AND UNDERGRADUATE SCHOLARSHIP APPLICATION

The graduate and undergraduate scholarship application process is now open. SME Colorado Section is looking to support graduate undergraduate students who currently work in, or intend to enter the mineral extraction or mining industry. The requirements for an SME Colorado Section undergraduate scholarship include:

- Mineral industry career goals (mining engineering, mining-applied civil/environmental engineering, metallurgy, economic geology, geochemistry, and hydrogeology)
- Undergraduates – must be a Junior or Senior for the 2018-2019 academic year,
- Undergraduates - Minimum cumulative graduate-level grade point average (GPA) of 2.0;
- Graduates - Admitted to a Masters or PhD level graduate program for the 2018-2019 academic year,
- Graduates - Minimum cumulative graduate-level grade point average (GPA) of 3.0, (minimum 2.75 GPA for newly in-coming students);
- Good communications skills as demonstrated in the application and during an interview, and
- Must be a Member of SME national ([www.smenet.org](http://www.smenet.org), membership in your student chapter is strongly encouraged if one is available at the college/university being attended)

You must forward a current copy of your transcript along with any additional requested information to Richard A. Schwering at [rschwering@hardrock-consulting.com](mailto:rschwering@hardrock-consulting.com). If you have any questions, please contact Mr. Schwering by e-mail or by phone at (720)-448-6484.

### Fine Print

- Finalists will be contacted by a member of the scholarship committee to schedule a mandatory interview.
- Disbursement of funds to scholarship recipients requires proof of enrollment in the fall of 2018 and again in early 2019, and a continued focus on the mineral or mining industry.
- Incomplete or late applications will be considered ineligible.

**DEADLINE: March 16, 2018**

Please follow the links below to apply for the SME 2018/2019 Graduate and Undergraduate Scholarships.

<https://www.surveymonkey.com/r/X7N8SJ7> Graduate Scholarship

<https://www.surveymonkey.com/r/X757QJT> Undergraduate Scholarship





SME Student Chapter  
Colorado School of Mines  
1500 Illinois St.  
Golden, CO 80401

SME Colorado Section

Denver, CO

1 February 2018

To the SME CO Section:

The Colorado School of Mines (CSM) Society for Mining, Metallurgy, and Exploration (SME) Student Chapter would like to extend an earnest Thank You for the generous donation the SME CO Section has given us for the 2017-2018 school year. The tireless outreach and support that the SME CO Section has provided to the SME Student Chapter over the years has been truly unmatched. The support has given each and every student member at CSM an opportunity to get to know the mining industry on a personal level. Fundraising has always been a challenge for the SME Student Chapter, but having the support of the SME CO Section certainly alleviates some of the stress that's encountered by the officers. Without the support of the SME CO Section, the SME Student Chapter's outreach would be significantly reduced.

In February, we plan to send 15 hard-working students to the SME Annual Meeting in Minneapolis, using a portion of the SME CO Section funding. Moreover, with the funds from the SME CO Section, and the volunteer hours of the SME Student Chapter members, we plan to continue educating more high school and STEM students on the extractive minerals industry. We will also use the funds to do outreach on the CSM campus, to inform our peers of the benefits that mining and metallurgy bring to the world.

We know that all the appreciation the club has for you cannot be encompassed in this letter, so please simply accept this as a token of our gratitude. Thank you again and please consider stopping by our booth at the conference.

Most Sincerely,

Mr. Evan McCombs  
President

Ms. Kinsley Costner  
Secretary

Mr. Myles Brandt  
Social Co-Chair

Mr. Roland Daniels  
Vice President

Ms. Christine Peterson  
MEC Co-Chair

Ms. Marie Hetherington  
Campus Relations Chair

Mr. Roy Bryant Megapete Kouteu  
Treasurer

Mr. Carson Eltz  
MEC Co-Chair

Mr. Benjamin Teschner  
Graduate Student Rep.

Mr. Nathan Smythe  
Social Co-Chair

Mrs. Amanda Garcia  
Industry Advisor

## COLORADO SECTION NEWS – MARCH 2018

### 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 2017-2018 year.

#### How to join or renew:

**Online:** Credit card payments can be made online by visiting our website and selecting the 2017-2018 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 2016-2017 meetings are:

March 15, 2018 – Lunch at Landry's Inn  
DTC

April 19, 2018 – TBD Dinner in Golden

May 17, 2018 – TBD Dinner in Denver

### Monthly Meeting RSVP

**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 the Eventbrite website:

<https://www.eventbrite.com/e/sme-colorado-denver-coal-club-joint-march-2018-meeting>

**Please note that we are no longer using the SME website for meeting registration.**

Contact Laura Fletcher,  
laurafletcher435@gmail.com with any questions regarding the meetings.

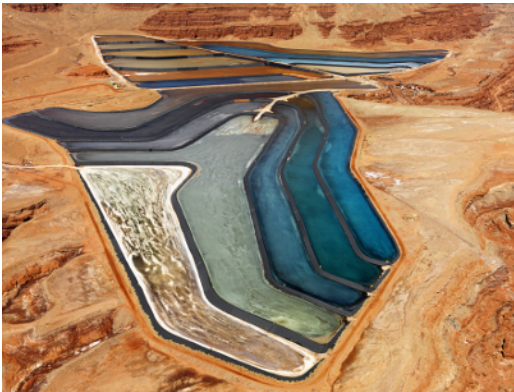
120<sup>th</sup> National Western Mining Conference & Exhibition  
April 3-5, 2018 | Colorado Convention Center  
[www.ColoradoMining.org](http://www.ColoradoMining.org)

The 120th National Western Mining Conference & Exhibition is the largest mining event to be held in the Rocky Mountain region in 2018. Connect with hundreds of mining professionals and exhibitors at this must attend industry event. [Learn more.](#)



## SME Webinar

### Advanced Tailings Facility Design, Construction, Operation, and Closure



This webcast is recommended for people with an intermediate understanding of tailings facility design, construction, operation, and closure. It is intended to provide anyone responsible for, or interested in, the hands-on management of tailings facilities with a detailed update on the latest research, practices, and successes in mine tailings management.

Dates: 3/6/2018 – 3/8/2018

<http://www.edumine.com/courses/live-webcasts/advanced-tailings-facility-design-construction-operation-and-closure/>



## **Good Samaritan Protection to Enhance Abandoned Mine Land Cleanup—Finding a Path Forward**

**April 26, 2018 – Colorado School of Mines -- 8am to 5pm**

The **Mining and Metallurgical Society of America**, in conjunction with the **Colorado School of Mines** and **Trout Unlimited**, presents the Summit: *Good Samaritan Protection to Enhance Abandoned Mine Land Cleanup -- Finding a Path Forward*, to be held on the Colorado School of Mines Campus on April 26, 2018.

**The Purpose of the Summit is:** Identify necessary liability protection from applicable environmental laws that advance closure and remediation of the identified pilot/demonstration projects.

**The Summit's Outcome is:** A diverse coalition of stakeholders working to advance pilot/demonstration project-focused Good Samaritan legislation that enhances (or advances) AML cleanup.

The topics and summit breakout session discussions presented at the Summit will be:

- **Laying out the Challenges.** Identify social, political and legal issues impeding closure and remediation of AML Lands, including: What is needed, State Government considerations, Environmental Coalition issues, Private Sector & Industry considerations, Congressional Representative discussion.
- **Existing Issues Impacting AML Clean-up.** Address social, political and legal issues related to AML cleanup within current regulatory structure and envision potential Good Samaritan protections. Issues to be discussed include: Legal, AML/Good Samaritan, Health, Safety & Environmental, EPA discussion of Good Samaritan.
- **Break-out and Planning.** Delegates will break into multiple working groups to build consensus on the critical language and programmatic components needed to advance Good Samaritan legislation focused on pilot/demonstration projects. After the building blocks for the legislation are identified, avenues for partnership, the ideal process for selection of candidate demonstration sites, and other issues raised by the morning sessions will be discussed.
- **Feedback and Actionable Items.** The goal of the final session is to fold in outcomes from the morning and early afternoon sessions to collaboratively establish an action plan.

This Summit is intended for all stakeholders in the public, private and civil sectors with an interest in accelerating the clean-up of abandoned mines through Good Samaritan legislation.

For more information about the Summit, and to participate, contact Betty Gibbs, Executive Director, MMSA, at [contactmmsa@mmsa.net](mailto:contactmmsa@mmsa.net) or 303-444-6032. Watch the MMSA Web page for updates: <http://www.mmsa.net>.

**[Sign up for your FREE ticket.](#)**





## **Good Samaritan Protection to Enhance Abandoned Mine Land Cleanup - Finding a Path Forward**

**April 26, 2018 – Colorado School of Mines – 8am to 5pm**

### **SUMMIT AGENDA—DRAFT—02-13-18**

**Purpose:** Identify necessary liability protection from applicable environmental laws that advance closure and remediation of the identified pilot/demonstration projects.

**Outcome:** A diverse coalition of stakeholders working to advance pilot/demonstration project-focused Good Samaritan legislation that enhances (or advances) AML cleanup.

#### **Morning Plenary Session (8:00 to 10:00 AM) - Laying Out the Challenges** **Laura Skaer- Session Moderator**

**Session Objective:** Identify Social, Political and Legal Issues Impeding Closure and Reclamation of AML Lands.

- Enhanced pathway to AML Cleanup – **Laura Skaer**; Executive Director, American Exploration & Mining Association
- State Government Considerations – **Jeff Graves**; Director, Office of Active & Inactive Mines, Colorado Division of Reclamation, Mining, and Safety
- Conservation Group Perspectives – **Chris Wood**; President, Trout Unlimited
- Private Sector / Industry Considerations – **TBD**;
- Congressional Perspective – **Dustin Sherer**; Aide to Sen. Cory Gardner

#### **Break (10:00 to 10:15 AM)**

**Mid-Morning Session (10:15 to 11:45)** – Issues Impacting AML clean-up  
**Dennis Ferrigno - Session Moderator**

**Session Objective:** Address Social, Political and Legal Issues Related to Enhanced AML Clean-up

- Legal Issues- **Carolyn McIntosh**; Partner, Squire Patton Boggs.
- AML / Good Samaritan Political Issues – **Kathy Benedetto**; Senior Adviser to the Director of the Bureau of Land Management (**Invited**)
- Examples of Successful Reclamation and Closure (Processes and Results) to Guide Candidate Site Selection – **Jeff Parshley**; Group Chairman and Corporate Consultant, SRK Consulting North America
- Discussion for Good Samaritan Initiative – **TBD**, U.S. Environmental Protection Agency (**Invited**)

**Lunch (12:00 to 12:45 PM) - Compliments of MMSA**

**Afternoon Session (12:45 PM to 3:15 PM)** - Break-out & Planning  
**Ann Carpenter - Session Moderator**

**Session Objective:** Build Consensus on Best Paths Forward

Delegates will break into multiple working groups to build consensus on the critical language and programmatic components needed to advance Good Samaritan legislation focused on pilot/demonstration projects. After the building blocks for the legislation are identified, avenues for partnership, the ideal process for selection of candidate demonstration sites, and other issues raised by the morning sessions will be discussed.

**Break (3:15 PM to 3:30)**

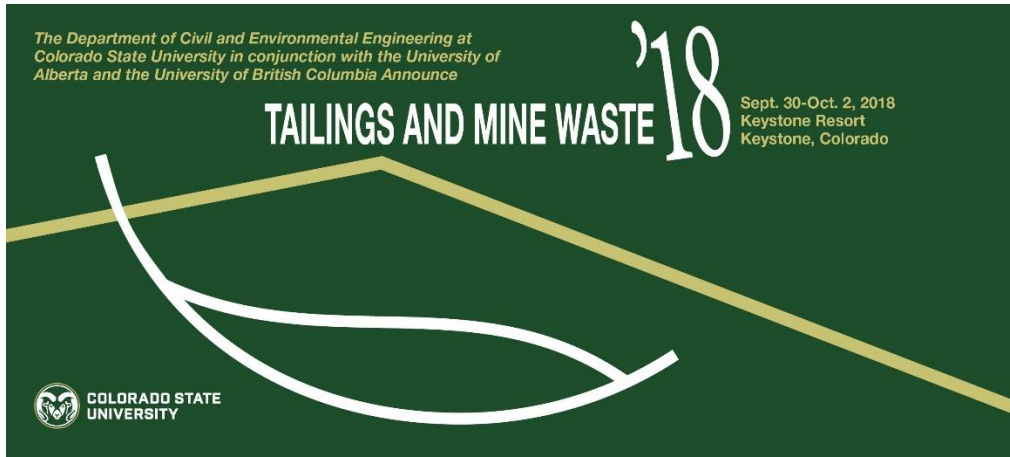
**Summary Session (3:30 PM to 5:00 PM)** - Feedback and Actionable Items  
**Ann Carpenter - Session Moderator**

**Session Objective:** The goal of the final session is to fold in outcomes from the morning and early afternoon sessions to collaboratively establish an action plan.

**Closing of Summit (5:00 PM)**

For more information about the Summit, and to participate, contact Betty Gibbs, Executive Director, MMSA, at [contactmmsa@mmsa.net](mailto:contactmmsa@mmsa.net) or 303-444-6032. Watch the MMSA Web page for updates: <http://www.mmsa.net>.

**[Sign up for your FREE ticket.](#)**



[www.engr.colostate.edu/ce/Tailings](http://www.engr.colostate.edu/ce/Tailings)

#### SPONSORED BY

**AECOM**

**Amec Foster Wheeler**

**Ausenco**

**Barr Engineering**

**BGC Engineering**

**CETCO**

**ConeTec, Inc.**

**Engineering Analytics, Inc.**

**Gannett Fleming**

**Golder Associates, Inc.**

**Knight Piesold and Co.**

**Minebridge Software, Inc.**

**Newfields**

**Paterson & Cooke**

**Robertson GeoConsultants, Inc.**

**SRK Consulting, Inc.**

**Stantec Consulting**

**Tetra Tech, Inc.**

**Tierra Group International**

## SCOPE OF CONFERENCE

The Conference objective is to provide a forum for presenting the state-of-the-art with respect to mill tailings and mine waste, and to discuss current and future issues facing the mining and environmental communities. The program will include sessions by practitioners and recognized experts on the general themes of the Conference. The Conference also will include exhibits by vendors and consultants, and short courses. The focus of the presentations include:

**Site Characterization and Monitoring**  
**Site Design and Operation**  
**Risk Informed Design**  
**Geochemistry**  
**Geotechnical Considerations**  
**Geosynthetics and Liners**  
**Mill Tailings Design**  
**Imaging and Spatial Analysis**  
**Water Management**  
**Reclamation & Remediation**  
**New Technologies**

## CONFERENCE FORMAT

Abstracts are solicited on the general themes of the Conference and related topics. The proceedings of the Conference will be available in electronic form. Authors of all papers included in the Proceedings will be allowed to make oral presentations at the Conference.

The Conference will begin with short courses and an evening pre-registration reception on Sunday, September 30, 2018. Presentations will be given Monday-Tuesday, October 1-2. The Conference will adjourn on Tuesday, October 2, 2018.

## PREPARATION OF ABSTRACTS

Prospective authors are requested to submit a short abstract (one page or less, double spaced) and include the title, author(s) and corresponding author's affiliations, addresses and contact information. The deadline for submission is **Friday, March 16, 2018**. The abstracts will be used for planning purposes and undergo an acceptance review.

Final papers will be limited to a maximum of 12 single spaced pages. Detailed guidelines and instructions for preparation of papers will be sent immediately upon acceptance of the abstract. The deadline for submission of final papers to be included in the proceedings will be **Friday, June 8, 2018**. All papers will be acceptance-reviewed by the organizing committee. Peer-review of papers will be made available to those in academia upon request.

## SEND ABSTRACT/INQUIRIES TO:

**Linda Hinshaw, Conference Coordinator**

**Telephone:** (970) 491-5049

**Fax:** (970) 491-7727

**Email:** [linda.hinshaw@colostate.edu](mailto:linda.hinshaw@colostate.edu)

## EXHIBITOR SPACE

The Organizing Committee invites your participation in presenting an exhibit. Exhibition of services, equipment, and technologies meets one of the Conference goals, which is to exchange ideas about issues facing the mining and environmental communities. Information may be found at

[www.engr.colostate.edu/ce/Tailings](http://www.engr.colostate.edu/ce/Tailings)

## VALUE/WHY ATTEND

Waste management, especially tailings management, is a relevant topic of interest for engineers, mine managers, and others. This conference leads the industry in providing a technical forum for exchanging cutting-edge information and ideas focused on understanding the technical issues surrounding waste management and how to improve the reliability of waste containment. The conference is a unique opportunity to meet other leading professionals in the practice of waste management, and to become familiar with leading research and trends in design and construction of waste containment facilities. Developments in cutting edge technology will be highlighted including remote sensing, the move towards filtered tailings, and advances in monitoring.

## PROPOSALS FOR SHORT COURSES

Short courses are planned to be offered on Sunday, September 30, 2018 based on interest. Short course proposals are requested on topics relevant to the conference theme. Short course proposals should include the following: (1) title of the course; (2) names, affiliations, and contact information for all course instructors; (3) brief goals and objectives of the course (1 page); (4) expected audience and required background for potential participants in the course; (5) an outline including proposed time schedule and topics to be covered during the course; and (6) any other items required by participants of the course, including those to be supplied by the participants and/or those to be supplied by the course instructors. With respect to (6), if participants will be required to purchase items for the course (e.g., software, textbooks, etc.), then these items should be listed and priced. The number of short courses to be offered will be restricted, and evaluations of short courses will be based on the nature and quality of the proposal as well as the timeliness and relevance of the short course topic. In order to receive full consideration, short course proposals must be received by Linda Hinshaw, Friday, March 16, 2018.

## SPONSORSHIPS

Sponsorships are available for the 2018 conference. There are two levels of sponsorship and consist of financial support for the conference and participation in the planning and administration of the conference, or financial support of the conference only. **For \$5,000.00** sponsors receive a company representative on the organizing committee; one exhibit booth space (includes one full participant registration); one additional full participant registration for organizing committee member; and inclusion of company name on Conference announcements, conference program, published proceedings, and any conference-sponsored promotional items. **For \$2,000.00** sponsors receive the inclusion of company name on Conference announcements, conference program, published proceedings, and any conference-sponsored promotional items and early registration fees for all company attendees. Contact Linda Hinshaw if interested.

## VENUE

The Conference will be held at the Keystone Resort, which sits at the base of Dercum Mountain. Keystone is approximately 75 miles west of Denver. The major airport to use is Denver International Airport. Transportation to Keystone can be by commuter air, rental car or shuttle service.



## BACKGROUND

Tailings and Mine Waste '18 is the next of a series of symposia on mill tailings management started at Colorado State University in 1978. The primary purpose of the Conference is to provide a forum for members of the mining community, engineers and scientists serving the mining industry, regulatory groups, and other interest groups concerned with environmental issues to exchange information regarding tailings and mine waste management.





SOCIETY FOR MINING, METALLURGY, AND EXPLORATION  
COLORADO SECTION NEWS – MARCH 2018

**SME COLORADO SECTION**

Chair: Jessica Spriet  
Email: jspriet@gmail.com

Vice Chair: Richard Schwering  
Email: rschwering@hardrock-consulting.com

Treasurer: Tem Tumurbat  
Email: ttumurbat@rcflp.com

Secretary: Heather Lammers  
Email: hlammers@golder.com

Program Chair: Laura Fletcher  
Email: laurafletcher435@gmail.com

Publicity Director: Kelly Donahue  
Email: kdonahue@brwncald.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>



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

Do you have ideas or suggestions for meeting topics/speakers/locations or other events you wish to share with your local chapter? We want to hear from you! The feedback will be used to evaluate the experiences of our members and direct the future of the meetings. Please use the contact information below to let us know how we can better serve you as a Colorado SME Member.