



## Health and Safety Minute

### Daylight Savings Time Ends November 7th

Safety Tips for Daylight Savings Ending:

- Increase awareness of the potential for accidents after the time change
- Wear high visibility or reflective clothing in high traffic areas
- Regularly clean the windows and mirrors on mobile equipment
- Have multiple pairs of safety glasses with different tints to change with the ambient light conditions

## Section Chair Report

We had a fantastic turnout for the first joint meeting with the SME Colorado Section and the Colorado State University (CSU) SME Student Chapter last month. Thank you to our guest speaker Kelly Greaser for making the trek to Fort Collins, Cameron Hale for coordinating the event, and to the CSU Student Chapter for hosting. Looking forward to the next opportunity to meet in Fort Collins!

I am looking forward to the November joint happy hour with our friends from Mining 4 Beer at Joyride Brewing Company. Thanks to Kelly Ward for helping to coordinate this event!

Want to have a say in Section event planning? Please reach out if you are interested in joining our programs committee for fall 2021/spring 2022.

Thank you for the opportunity to serve as Chair of the Colorado Section. If you have any questions, comments, concerns, or suggestions, please do not hesitate to reach out. I hope to see many of you at the November happy hour.

Stay safe and healthy,  
Heather Lammers

## November Meeting Announcement

Please join us for a joint happy hour with the SME Colorado Section and Mining 4 Beer on Thursday, November 18 from 5:00 – 7:30pm.

Joyride Brewing Company  
2501 Sheridan Boulevard  
Edgewater, CO 80214

The event is open to Section members and non-members, no registration required.

We look forward to seeing you at Joyride!



# NOVEMBER HAPPY HOUR WITH MINING 4 BEER

## WHEN

**November 18  
5:00pm – 7:30pm**

## WHERE

**Joyride Brewing  
Company**

**2501 Sheridan Boulevard, Edgewater, CO**

**FEATURING · Networking · Outdoor Seating · Cash Bar**

**SECTION  
MEMBERS AND  
NON-MEMBERS  
ARE INVITED TO  
ATTEND**

**NO EVENT  
REGISTRATION  
REQUIRED**

**Show up as your  
happy self!**

**HOSTED BY  
SME Colorado  
Section and  
Mining 4 Beer**

**BENEFITING  
All Persons  
Interested in Mining!**



COLORADO SECTION NEWSLETTER  
NOVEMBER 2021

The next **ZOOM** EMCD meeting will be on **Thursday, November 11th, 2021 at 6:30 p.m.**  
Presentation by **Prof. James Walsh at 7:00 p.m.**

Join from PC, Mac, Linux, iOS or Android:

<https://mines.zoom.us/j/612157864?pwd=dFhoNXp6bVpUQmFYWHJK0k1TGgwZz09>

Password: 685661

Or iPhone one-tap: 13462487799,612157864# or 16699006833,612157864#

Or Telephone:

Dial: +1 346 248 7799 (US Toll) or +1 669 900 6833 (US Toll)

877 853 5247 (US Toll Free)

888 788 0099 (US Toll Free)

Meeting ID: 612 157 864

International numbers available: <https://mines.zoom.us/j/612157864>

Or a H.323/SIP room system:

H.323: 162.255.37.11 (US West) or 162.255.36.11 (US East)

Meeting ID: 612 157 864

Password: 685661



**TOPIC: Fritz Haber: A Great but Flawed Genius of Chemistry and History**

**ABSTRACT:** Fritz Haber (1868-1934) was a German chemist. He earned his doctorate in 1891 in organic chemistry. In 1893 he converted from Judaism to Christianity. In 1894 he began an academic career, switching to physical chemistry and electrochemistry. In 1910 he invented a method for the production of unlimited amounts of nitrogen fertilizers via the synthesis of ammonia, thus saving millions from death by famine. During World War I Haber led the use of chemical weapons ("poison gases") by Germany, and approximately 90,000 were killed by chemical weapons in the war and 1.2 million were injured. Many eminent scientists participated in chemical-weapons work during the war, e.g., chemists W. Nernst (Nobel 1920), O. Hahn (Nobel 1944), V. Grignard (Nobel 1912), W.J. Pope, G.N. Lewis, etc. But some refused to participate, e.g., H. Staudinger (Nobel 1953) and E. Rutherford (Nobel 1908). In 1901 Haber married Clara Immerwahr (1870-1915), also a chemist with a doctorate. In 1911 Haber was appointed director of the prestigious Kaiser Wilhelm Institute for Physical Chemistry and Electrochemistry in Berlin. Haber's ammonia became indispensable to Germany's WWI efforts since it can be converted to nitric acid, used for the preparation of conventional explosives. In 1915 Haber's wife Clara, bitterly opposed to his poison-gas work, committed suicide a few days after the first poison-gas attack by Germany. Haber received the 1918 chemistry Nobel Prize for the ammonia synthesis. After WWI he engaged in (illegal) chemical weapons development and also developed essential pesticides, including Zyklon B, later used to murder ca. 1.2 million victims in the Nazi concentration camps of the Holocaust, but Haber cannot be blamed for Zyklon B. In 1933 he left Germany and died in 1934. He was a brilliant chemist but lacked ethics and morality and was blind to the realities of the society around him. His life raises complex questions of morality in science.

Joseph Gal, PhD, Professor Emeritus retired from the University of Colorado School of Medicine (SOM). Dr Gal completed his high-school education in Budapest, Hungary, and graduated with a B.Sc. in chemistry from the American University of Cairo, Egypt. He earned a PhD in organic chemistry at the University of California, Davis. In 1977 Joe began his career at CU SOM as an Assistant Professor. Dr Gal's career at the CU SOM included teaching, research, and directorship of the toxicology section of University of Colorado Hospital's clinical laboratories. His research activities focused on the fate of drugs in the body. About 15 years ago Dr Gal changed his scholarly interests to the history of science. He has been examining the chemistry work of Louis Pasteur, and has also been studying the history of modern chemical warfare, especially the "poison gases" of World War I. In retirement Dr Gal continues his studies of the history of science – publishing and lecturing on the above topics.

**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 Monthly Section programming**
  - Tour / site visit planning
  - Reaching out to potential meeting sponsors
  - Event planning for the monthly meetings



**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 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 2021 - 2022 year.

### **How to join or renew:**

**Online:** Credit card payments can be made online by visiting our website and selecting the 2021 - 2022 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:

Phil Martin – 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.

## SME Colorado Section

**Chair: Heather Lammers**  
*hlammers@golder.com*

**Vice Chair: Melissa Chalona**  
*mchalona@enganalytics.com*

**Treasurer: Phil Martin**  
*pmartin@rcflp.com*

**Secretary: Amanda Davis**  
*amanda.davis@maptek.com*

**Golf Tournament: Alex Holtzapple**  
*alex@metsim.com*

**Publicity Director: Kelly Donahue**  
*kdonahue@brwncald.com*

**Program Chair: Open**

**Director-at-Large: Eric Poeck**  
*epoeck@hotmail.com*

**Director-at-Large: Jon Pianetti**  
*jon.pianetti@gmail.com*

**Past Chair: Richard Schwering**  
*rschwering@hardrock-consulting.com*