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Mona Vandervoort
Education Coordinator
Society for Mining, Metallurgy and Exploration
12999 E. Adam Aircraft Circle
Englewood, CO 80112

Dear Mona,

It is my honor and privilege to present to you the 2018-2019 annual report of the SME Student Chapter at the Colorado School of Mines (CSM).

I took over as the faculty adviser for the chapter in the fall of 2018 and I am extremely proud of our students’ achievements and professional development during the past year. Under the superb leadership of President Marie Hetherington and with officers Carson Eltz, Alex Murray, Ashlyn Hohenshelt, Indira Gregorio, Dakota Locklear, Stela Cayatte, Leila Mateus, Chamir Bello, and Isabel Casasbuenas Cabezas, the student chapter again had a year of stellar performance and outstanding achievement.

The chapter organized and supported the following major events and achievements during the past year:

- The SME 2019 Annual Meeting in Denver, where our chapter delegated 36 students to the conference, covering the registration fee of each student. The chapter staffed an exhibit booth and students assisted during the various luncheons held over the course of the weekend. Several students also presented their research during the conference.

- The CMI Gala, where the students put on a fundraising gala to raise money for the student chapter. This year’s gala was held in the Geology Museum at Colorado School of Mines and had a silent auction as well as refreshments. Invitations were sent out to alumni, professors, industry professionals, and various others. Ticket sales and the silent auction helped raise $800.00 for the chapter.

- The student chapter really focused on reaching out to the student body and expanding membership in number and across various degree programs. A stronger effort was made this past year to be represented at various school events, such as the M-Climb, Celebration of Mines, Homecoming, and E-Days. These outreach initiatives proved effective as the chapter saw attendance at the bi-weekly general meetings increase significantly, having a consistent turnout of 30 or more people.

The SME student chapter at CSM is a strong chapter with exemplary leadership and professionalism. I commend the outgoing officers for their outstanding leadership – they have developed critical leadership and organizational skills and have built professional relationships for life through their membership in SME and involvement in leadership roles in the student chapter. At the same time, I would like to congratulate the incoming officers, President Indira Gregorio and Officers Dakota Locklear, Orlando Vidaurre Torres, Marie Sullivan, Jacob Mellem, Lukas Fahle, Seth Edelen, Choe Poindexter, Natalia Soares Rodrigues, and Isabel Casasbuenas Cabezas and wish them luck in the coming year.

Kadri Dagdelen
Professor, Mining Engineering
Colorado School of Mines
CSM SME Student Chapter Faculty Advisor

May 23, 2018
Leading the CSM Student Chapter will be a critical and enriching career experience for these students. I look forward to working with them as their faculty representative and I am extremely proud to support this Student Chapter in a professional society that has had a huge impact in shaping my own career.

Please accept this annual report of the CSM student Chapter that details the outstanding performance of our students and young professionals. This report documents in an impressive fashion that our students are truly the future leaders of our industry!

Sincerely yours,

Dr. Kadri Dagdelen
Professor
Mining Engineering Department
Colorado School of Mines
1.1 Chapter Overview
The chapter saw a major increase in membership, meeting attendance, and volunteer participation in the 2018-2019 academic year. The chapter successfully held our annual events and meetings while organizing two additional outreach events and participating in the homecoming tailgate as an extra social event.

The 2019 SME annual conference was one of the highlights of the year. The chapter fully funded attendance for 36 members. This year’s conference was busy for our chapter; 27 of our students volunteered at six different division luncheons and breakfasts, four members presented in student poster competitions, and three of our members presented papers in technical sessions.

1.2 Chapter Goals
The chapter had three main goals for the 2018-2019 academic year:

- Expanding our educational outreach horizon
- Generating interest in the chapter and the minerals extraction industries within the CSM community
- Creating valuable and meaningful experiences for our members

The chapter received the 2016-2017 Outstanding MEC Student Chapter award, but our outreach participation numbers had dwindled since. Our first goal was created in attempt to revitalize and expand the reach of our educational programs. I can say with confidence that this goal was achieved this year. We engaged around 280 K-12 students over the course of our five annual events and two new events. The chapter worked with the CSM Society of Economic Geologists (SEG) student chapter to host a Boy Scout geology merit badge workshop for 36 scouts, and we brought over 100 3rd grade students from Denver Public Schools (DPS) to participate in our ‘Mobile Mineral Mayhem’ cell phone mineral identification activity.

Our second goal was to increase interest in SME on campus, mainly within the geological and metallurgical engineering departments. We were able to increase our overall membership by 30 students and increase the diversity within the chapter. This goal was achieved by advertising events within multiple departments and hosting joint activities with other professional societies.

The third goal for the 2018-2019 year was aimed at offering interesting field trips for our members. There were three field trips scheduled to the Caribou-Cross mine, Revenue Virginius mine, and North Antelope Rochelle Mine (NARM). Unfortunately, the Caribou-Cross tour was cancelled due to illness of the owner. The Revenue Virginius and NARM tour went on as scheduled and were each lead by recent alumni.

The incoming officer board has evaluated our successes and opportunities for improvement and created the following goals for the 2019-2020 academic year:

- Provide scholarships for students to attend local section meetings
- Build upon existing outreach programs and activities by bringing them to the classrooms of local schools
- Participate in joint social activities with other mining related organizations on campus
1.3 Chapter Achievements

There were many successful events throughout the year. These events would not be possible without the chapter’s industry sponsors. This academic year brought a new partnership with Martin Marietta Materials and strengthened our existing partnerships with companies such as Caterpillar, and Resource Capital Funds (RCF).

A triumph the chapter achieved this year was reaching Tier 4 status within our university Board of Student Organizations (BSO). Tier 4 status allows organizations to request unlimited funds from the university.

This year was the inaugural year of the CSM Teaching Kids program. “Teaching Kids” created by five students from Universidad Nacional de Colombia and was the grand prize winner of the 2018 Move Mining competition. We were fortunate enough to have one of the founding team members on our officer board this year as Graduate Student Representative. Implementing the project in the U.S. has been a long and very rewarding process and one of the chapter’s achievements that I am most proud of.

Several of our members were awarded scholarships in the 2018-2019 academic year. Our Graduate Student Representative chair, Isabel Casasbuenas, was granted the Environmental Division and Veolia Water Technologies scholarship at the annual meeting. Six of our members were awarded $3,000 scholarships from the Colorado Section SME.

2 TREASURER’S REPORT

2.1 Finance Overview

The chapter’s finances have been stable throughout my tenure as treasurer. The major expenses throughout the year were hosting the Welcome and End-of-Year BBQs, and SME National Conference scholarships for 36 students.

The majority of the chapter's fundraising came through corporate donations. Our main fundraising event is the annual Critical Materials Institute (CMI) Gala. We host an event gala and silent auction in conjunction with the CMI museum exhibit on campus. The event raised nearly $800.00 this year. Conference polos were sold to professors for a small profit as well.

The Welcome and End-of-Year BBQs were huge successes. Purchasing and grilling our own food allowed us to cut the catering costs. Both events had over 100 students, graduate students, and faculty that attended.

A difficulty that we encountered this year was the spending of the Board of Student Organizations (BSO) and the Office of Mines Student Activities, Involvement, and Leadership (SAIL) account. There was a major miscommunication regarding how the money could be spent. To improve the next treasurer will need to maintain meticulous records of what is being spent out of the SAIL account and all expenses are within the SAIL rules and guidelines of spending.

2.2 Chapter Balances

<table>
<thead>
<tr>
<th></th>
<th>SAIL Account</th>
<th>Foundation Account</th>
<th>Department Account</th>
<th>Cash Box</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning Balance</td>
<td>$ 195.74</td>
<td>$ 9,376.06</td>
<td>$ 3,231.75</td>
<td>$ 390.98</td>
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<td>Total Expenditures</td>
<td>$ (1,503.90)</td>
<td>$ (2,626.01)</td>
<td>$ (405.72)</td>
<td>$ (1,237.08)</td>
<td>$ (5,772.71)</td>
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<td>Total Credits</td>
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<td>$ 5,305.44</td>
<td>$ 1,959.07</td>
<td>$ 1,323.00</td>
<td>$ 10,927.50</td>
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<td>Ending Asset Value</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ -</td>
<td>$ 500.00</td>
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<tr>
<td>Final Balance</td>
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<td>$ 12,055.49</td>
<td>$ 4,785.17</td>
<td>$ 476.90</td>
<td>$ 18,849.32</td>
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</tbody>
</table>
2.3 Other Assets
The chapter obtained a CAT cooler worth $500.00 in exchange for the advertisement for the cooler company. The chapter paid $50.00 for shipping.

3 SECRETARY’S REPORT

3.1 Schedule Overview
During the 2018-2019 academic year, we held a total of fourteen officer meetings and fourteen general meetings. Our officer meetings took place every other Thursday at 5:00 pm in Brown Building 125 and were used as an opportunity to discuss any business and upcoming events and activities. All members were encouraged to attend the officer meetings in order to keep the dealings of the organization accessible to the membership and to encourage others to run for office. In the off weeks, we held our general meetings at 5:30 pm in the same location and hosted a guest speaker to talk about their industry experience.

During the academic year, our membership comprised of ninety-five active members across thirteen different disciplines.

3.2 Meeting Minutes
August 23rd, 2018
Meeting began at 5:00 PM in Brown Building 125 (BB125)

President Report
- Welcome, discussion of what is expected of the officers this year
- Upcoming general meetings and speakers - want a graduate student to lead one
- Preparing for Celebration of Mines
- Welcome BBQ planning

Vice President Report
- CMI Gala Updates

Treasurer Report
- Account Summary: Updated on 8/22/18
  - SAIL Account: $2,400.75
  - Department Account: $3,596.75
  - Foundation Account: $8,401.01
  - Cash Box: $266.90
  - Total: $14,665.41

Secretary Report
- Missing the USB stick with last year’s documents - looking for it

MEC Report
- Boy Scouts Workshop
- Denver Gem and Mineral Show - volunteering
- Adams County Career Fair

Social Chair Report
- Food for next general meeting
- Planning for the Welcome BBQ

Campus Relations Chair Report
- Learning how to use Engage
- Waiting for tier requirement checklist to be published by Board of Student Organizations
Graduate Student Representative Report
- Changes to Mining Department’s Graduate Student Seminar
- Looking forward to SME Conference - what do we want to get out of it?

Industry Advisor Report
- No Report

Meeting ended at 5:56 PM

September 6th, 2018
Meeting began at 5:01 PM in Brown Building 125 (BB125)

President Report
- Upcoming general meetings - need a speaker for November 8th
- Preparing for upcoming events - Welcome BBQ; Denver Gem and Mineral Show
- Sponsorship Packet - Draft

Vice President Report
- Coordinating CMI Gala

Treasurer Report
- Account Summary: Updated on 9/04/18
  SAIL Account: $2,350.75
  Department Account: $3,596.75
  Foundation Account: $8,401.01
  Cash Box: $824.90
  Total: $15,173.48
- Recent Financial Actions - Food and Dues

Secretary Report
- In the process of recovering lost documents
- Re-made check-in list for general meetings

MEC Report
- Boy Scout Merit Badge advertising (November 3 and 10)
- Adams county career fair volunteers
- Denver Gem and Mineral Show volunteers

Social Chair Report
- Upcoming meeting’s food
- Welcome BBQ Planning Update - flyers, food, beverages, security, budget

Campus Relations Chair Report
- Learning how to use Engage
- Waiting for tier requirement checklist to be published

Graduate Student Representative Report
- No report

Industry Advisor Report
- No report

Meeting ended at 5:49 PM

September 20th, 2018
Meeting began at 5:00 PM in Brown Building 125 (BB125)

President Report
- Meeting dates and scheduled speakers
- Upcoming general meeting
Upcoming Events: SME Gold Tournament, Mining Hall of Fame Banquet
Sponsorship packet has been mailed
SME Colorado Allocation

Vice President Report
- CMI Gala Updates
- Planning tour at Caribou Cross Mine

Treasurer Report
- Account Summary: Updated on 9/19/18
  - SAIL Account: $2,350.75
  - Department Account: $4,029.83
  - Foundation Account: $7,742.56
  - Cash Box: $266.90
- Total: $14,390.04
- Recent financial transactions

Secretary Report
- Assigning summaries for annual report
- Set up events calendar

MEC Report
- Adams County Career Fair - Tuesday November 13th; need volunteers to sit in booth
- Boy Scouts Workshop - Counselor paperwork; confirm mine tour at Edgar Mine

Social Chair Report
- Upcoming meeting’s food
- Inventory of chips, drinks in storage closet

Campus Relations Chair Report
- Registered for Homecoming - need a float
- Attending the President’s Round Table on Friday
- Received the tier checklist requirements
- Next deliverable to BSO is the Goal Form (October 26th)

Graduate Student Representative Report
- No Report

Industry Advisor Report
- SME Colorado Section check in

Meeting ended at 5:53 PM

October 4th, 2018
Meeting began at 5:00 PM in Brown Building 125 (BB125)

President Report
- Meeting dates and scheduled speakers
- Upcoming general meeting: joint meeting with student and local chapter of WIM
- Recap of last week’s events
- Need volunteers for upcoming events

Vice President Report
- Updates on coordinating CMI Gala - Oct 26th
  - Need silent auction items - by Oct. 12th
  - Alcohol permits, bartenders
  - RSVPs have been sent out
- Caribou Cross Mine Tour - Oct 27th
Treasurer Report
- Building security for cash box cabinet
- Account Summary: Updated on 9/19/18
  - SAIL Account: $2,350.75
  - Department Account: $4,029.83
  - Foundation Account: $7,742.56
  - Cash Box: $266.90
  **Total: $14,390.04**

Secretary Report
- Assigning summaries for annual report
- Instructions for getting dates on the SME Google Calendar

MEC Report
- Boy Scout Merit Badge advertising - Nov 3rd and 10th
- Adams County Career Fair volunteers - Nov 13th

Social Chair Report
- Upcoming meeting’s food

Campus Relations Chair Report
- Nightmare on Greek Street
- Meeting BSO requirements to move up a tier - completing forms

Graduate Student Representative Report
- Have elections scheduled for Oct 24th to replace Ben - need to notify the chapter

Industry Advisor
- Social Chair duties and organization
  - board responsibilities, accountability, and support

Meeting ended at 6:00 PM

October 18th, 2018
Meeting began at 5:01 PM in Brown Building 125 (BB125)

President Report
- Upcoming general meeting speakers, events and volunteer opportunities
- Ideas for next semester general meetings

Vice President Report
- Preparing for CMI Gala
- Caribou Cross Tour Update

Treasurer Report
- Security for cash box cabinet
- Silent Auction Items
- Account Summary: Updated on 9/19/18
  - SAIL Account: $2,350.75
  - Department Account: $3,624.58
  - Foundation Account: $7,660.05
  - Cash Box: $476.90
  **Total: $13,991.78**

Secretary Report
- Need short event descriptions

MEC Report
- Boy Scout merit badge workshop updates
- Need volunteers for Nightmare on Greek Street
**Social Chair Report**
- Food for future general meetings
- Advertising meetings - Daily Blast

**Campus Relations Chair Report**
- Goals Form and BSO updates

**Graduate Student Representative Report**
- Elections to fill Ben’s position on October 25th
- Outreach ideas: Teaching Kids/Move Mining

**Industry Advisor Report**
- No Report

Meeting ended at 6:05 PM

November 1st, 2018
Meeting began at 5:00 PM in Brown Building 125 (BB125)

**President Report**
- Upcoming events: Boy Scouts, Career Fair
- Need to start planning for SME Conference
- Starting an Outreach Committee in January

**Vice President Report**
- Thank you for CMI Gala - Need to update this event, make it better, Alumni Night?
- Caribou Cross Tour Rescheduled
- Need to start looking forward to E-Days: Already have a location for the mining games

**Treasurer Report**
- Account Summary: Updated on 10/30/18
  - SAIL Account: $2,350.75
  - Department Account: $3,624.58
  - Foundation Account: $7,660.05
  - Cash Box: **Total: $13,991.78**
- Security for cash box

**Secretary Report**
- Assigning summaries for annual report - Please get them to Ashlyn

**MEC Report**
- Completing presentations for Boy Scouts, coordinating food, rides for tour of Spec Agg
- Adams County Career Fair - still need volunteers

**Social Chair Report**
- Food for next General Meeting
- Plan to hang fliers to advertise for meeting on 11/8

**Campus Relations Chair Report**
- Caught up and good to go with the BSO paperwork
- Deciding what community and campus activity we want to do
- Need to take more pictures

**Graduate Student Representative Report**
- Presentation on Teaching Kids

**Industry Advisor Report**
- MPD Poster Contest - Encouraged to enter

Meeting ended at 5:43 PM
November 15th, 2018
Meeting began at 5:00 PM in Brown Building 125 (BB125)

President’s Report
- Meeting dates and scheduled speakers
- Upcoming general meeting

Vice President’s Report
- Begin planning E-Days competition
- Caribou Cross mine tour

Treasurer’s Report
- Account Summary: Updated on 11/11/18
  SAIL Account: $2,230.25
  Department Account: $3,624.58
  Foundation Account: $7,660.05
  Cash Box: $726.90
  Total: $14,241.31

Secretary’s Report
- Assigning summaries for annual report

MEC Report
- Boy Scout Merit Badge spring planning

Social Chair’s Report
- Upcoming meeting’s food

Campus Relations Chair’s Report
- Updating picture board
Meeting ended at 5:30 PM

January 10th, 2019
Meeting began at 5:00 PM in Brown Building 125 (BB125)

President Report
- Meeting dates and scheduled speakers for spring semester
  - Discussed having a speaker for elections - decided against it
- Upcoming general meeting - need to schedule
- Geology Merit Badge is set up
- Marie will take care of all SME related tasks
  - Go to Mining office to register starting next week
  - Volunteers for booth set up
  - Murray Energy event
- Brainstorming for Freeport-McMoran event
- Possible campus visit/tour session with organization for home-schooled students
  - Outreach opportunity - MEC Chairs

Vice President Report
- Colorado Section MEC Meeting Report
  - Good feedback on Boy Scouts Program
- Scheduling Mine Tours - Possible long weekends?
- Starting E-Days preparation
  - VR setup, CAT Trailer

Treasurer Report
- Account Summary: Updated on 1/09/19
SAIL Account: $1,734.74
Department Account: $4,382.17
Foundation Account: $7,779.23
Cash Box: $726.90 (11/08/18)
Total: $14,623.04

Secretary Report
- Assigning summaries for annual report
  - Please complete your reports

MEC Report
- Boy Scout Merit Badge
  - Contact new Edgar Mine manager about mine tour
- Marie has the Geology Merit Badge set up - will need volunteers

Social Chair Report
- Upcoming meeting’s food
  - Rock Rest for first meeting of semester because of higher attendance
- Taking inventory of supplies in closet
- Planning for fliers and Daily Blast

Campus Relations Chair Report
- Goal Form approved over break - one step closer to move up in the BSO rating system
- Continue to work on increasing BSO ranking
  - Meeting with Engage Advisor

Graduate Student Representative Report
- MPD Division Student Poster Contest - Want participants
  - Brainstorm ideas to get more undergraduates involved
- Meeting with Mona Vandervoot this week

Industry Advisor Report
- No Report

Other
- iDig Mines is coming up
  - Look for updates from Bruce and get prepared to help with donation goals

Meeting ended at 5:30 PM

January 24th, 2019
Meeting began at 5:00 PM in Brown Building 125 (BB125)

President Report
- SME registration needs to be completed by Jan 25th (Monday)
- Feb. 7th: Mandatory meeting at 4 for those going to SME Conference - Etiquette
- Discussion of upcoming meetings - Elections, Valentine’s Day. Freeport is coming to talk
- Geology Merit Badge workshop with SEG - need to advertise
- Assigning luncheon tickets for SME - Decided how we want to assign them

Vice President Report
- Planning for E-Days - Komatsu and CAT displays, advertising and planning for mining games
- Contacted Revenue - Virginius Mine
- Looking into future mine tours

Treasurer Report
- More money in from dues
- Will be depositing cash soon
- Waiting on checks and donations to come in - SME local chapter check
Need to drain the SAIL account

Secretary Report
- Need event blurbs for annual report - thank you to those who have sent yours in
- Will be making a complete list of what is needed - expect an email with blurb assignments

MEC Report
- Boy Scout Merit Badge - Advertising ideas and brainstorming, food preparation
- Contacting the new director of the Edgar Mine for the mine tour portion of merit badge

Social Chair Report
- Plan to take an inventory of the closet - set up a time
- Need to start having servers for the food at meeting to help with portion control
- Food for future general meetings - brainstorming places, food types

Campus Relations Chair Report
- March 8th is the BSO deadline
- Will be completing the allocations form with the new president and treasurer after elections
- Putting together a presentation with President for BSO to move SME up to highest tier (Tier 4)

Graduate Student Representative Report
- Continue promoting the MPD and Environmental Divisions student poster contests
- Meeting with Mona Vandervoot this morning

Industry Advisor Report
- No report

Meeting ended at 6:00 PM

February 7th, 2019
Meeting began at 5:00 PM in Brown Building 125 (BB125)

President Report
- Upcoming meetings
  - Freeport Lunch next Monday
  - Geology Merit Badge on Feb 16th
  - Upcoming tours associated with SME Conference for other SME Chapters
  - Elections on February 14th

Vice President Report
- SME is registered for E-Days Mining Competition, continued E-Days planning
- Discussion of signing up for Field Day
- Made contact about mine tour at Revenue-Virginius Mine
- Contacted CAT about the Command Trailer for E-Days

Treasurer Report
- Account Summary: Updated on 02/06/2019
  - SAIL Account: $1,605.17
  - Department Account: $4,785.17
  - Foundation Account: $7,779.23
  - Cash Box: $476.90

  Total:
  - Summary of deposits, incomes, planned expenses
    - SME check came in
  - Increase in General Meeting food budget
  - Starting to plan for end-of-year BBQ
  - Financial planning and considerations for MineEXPO 2020
Secretary Report
▪ Assigned blurbs for past general meetings

MEC Report
▪ March 9th and 16th - Boy Scout Merit Badge
  o Upcoming meeting to discuss details with Dick Beach
  o Food and other logistics

Social Chair Report
▪ Closet is clean and an inventory was taken
▪ Next meeting’s food: Anthony’s pizza

Campus Relations Chair Report
▪ Upcoming deadlines for BSO are in March
▪ Working on setting up a meeting with BSO representative
▪ Classifying community and campus events for BSO paperwork
▪ Working on updating our Engage account advisors

Graduate Student Representative Report
▪ Update on work for Teaching Kids
  o Campus tour for Colombian SME students the Friday before SME Conference

Industry Advisor Report
▪ Be on your best behavior for SME Conference

Meeting ended at 5:35 PM

March 7th, 2019
Meeting began at 5:03 PM in Brown Building 125 (BB125)

President Report
▪ Welcome for Newly Elected Officers - outline of what is done at meetings
▪ Upcoming events: BSO forms, March 16th NARM tour, Mining in Society Badge
▪ Officer Transitions coming up
▪ Keys to supply closet need to be transferred to new officers

Vice President Report
▪ E-Days preparation
▪ NARM tour

Treasurer Report
▪ Account Summary: Updated on 2/6/2019
  SAIL Account: $1,031.83
  Department Account: $12,055.49
  Foundation Account: $4,785.17
  Cash Box: $476.90
  Total: $18,349
▪ Social Chairs budget for general meeting food increased
▪ Wrapping up accounts before end of the year, preparing budget for next year

Secretary Report
▪ Assigning blurbs
▪ Continuing to work on the end of year report

MEC Report
▪ Preparation for Boy Scout Merit Badge (March 9th and 16th)

Social Chair Report
▪ Food for next meeting
▪ Discussion of stocking up on items for next year
Campus Relations Chair Report
- Goal form has been approved
- Took pictures at SME Conference
- Met with BSO advisor

Graduate Student Representative Report
- Colombian visit went well
- TK Committee

Industry Advisor Report
- No Report

Meeting ended at 5:18 PM

March 21st, 2019
Meeting began at 5:01 PM in Brown Building 125 (BB125)

President Report
- Upcoming Events: Mining in Society Badge
- New Officers need to plan the end of year BBQ
- Rescheduling tours and speakers
- BSO presentation completed
- Annual report summaries are upcoming
- Transitional meetings between outgoing and incoming officers after meeting

Vice President Report
- Talking with CAT about the E-Days competition
- E-Days planning and scheduling

Treasurer Report
- Account Summary: Updated on 3/6/2019
  SAIL Account: $458.49
  Department Account: $4,785.17
  Foundation Account: $16,331.75
  Cash Box: $476.90
  Total: $22,052.31

Secretary Report
- Assigning blurbs
- Lookout for emails asking for sections of annual report

MEC Report
- Boy Scout Merit Badge planning and advertising- March 30th and April 6
- Expanding contacts to other universities with SME Chapters

Social Chair Report
- Food for next meeting
- Upcoming End of Year BBQ

Campus Relations Chair Report
- Forms submitted for BSO checklist and approved
- Need to update advisor on Engage
- BSO professional presentation went well

Graduate Student Representative Report
- Future events (Scholarships and Conferences)
  - Longwall USA 2019
  - International Society of Explosive Engineers
  - Rapid Excavation and Tunneling Conference
Working on Teaching Kids Committee

Industry Advisor Report
- No Report

Meeting ended at 5:16PM

April 4\textsuperscript{th}, 2019
Meeting began at 5:05 PM in Brown Building 125 (BB125)

President Report
- Incoming officers need to choose the End of Year BBQ date
- Rescheduling tours and guest speakers
- Women in Mining Chapter will become an ad hoc committee of SME
  - Try and fundraise on own and take on SME activities such as SWE Women in Stem Day
- Revenue Mine Tour April 16th

Vice President Report
- Working on getting equipment for Mining Games during E-Days
- Procuring help and equipment for jack legging, judges
- Doing swede saw and panning for Field Day
- Discussion of how to run Mining Games - posters, time slots, scoreboard, food, PPE
  - Need volunteers for set-up and clean-up
- Waiting to hear back from Caterpillar about E-Days

Treasurer Report
- Account Summary: Updated on 3/6/2019
  - SAIL Account: $458.49
  - Department Account: $4,785.17
  - Foundation Account: $16,331.75
  - Cash Box: $476.90
  - Total: $22,052.31
- Need to make table of where funds went this year for End of Year Report

Secretary Report
- Assign blurbs - make sure everyone turns them in
- Putting together list of things still needed for End of Year Report

MEC Report
- First half of the Mining in Society Merit Badge went well March 30th
  - Having guest speakers really helped
  - How do we make attendance rise?
- Need to decide date for Student Leadership Experience with Caterpillar

Social Chair Report
- Food for upcoming meeting
- Prep for BBQ - May 2nd as a tentative date
- Incoming officers need to plan food for last meeting

Campus Relations Chair Report
- All BSO submissions were approved

Graduate Student Representative Report
- Upcoming conferences and scholarships are available

Industry Advisor Report
- No Report

Meeting ended at 6:00 PM
April 18th, 2019
Meeting began at 5:05 PM in Brown Building 125 (BB125)

President Report
- Next General Meeting on April 25th, Terry Laverty is presenting
- Last week was the mining boy scout merit badge, has 9 kids there
- End of year BBQ is on May 2nd, RCF contributed $600
- Amanda contributed $100 to end of year BBQ
- Revenue Mine Tour was this past Tuesday, interesting mine and should attempt to do it over fall break next year

Vice President Report
- E-Days Recap: Panning during field day was a success, mining games had more general participation rather than just interest in jacklegging
- Begin preparing presentation for CAT trip in August for President, Vice-President, Treasurer, and Secretary
- NARM field Trip May 2nd, two spots still open (Has Ashlyn send out reminder email)

Treasurer Report
- Account Summary: Updated on
  SAIL Account:
  Department Account:
  Foundation Account:
  Cash Box:
  Total:

Secretary Report
- Make sure everyone has turned in assigned blurbs
- Putting together list of things still needed for End of Year Report

MEC Report
- Boy Scout Merit Badge last week, Spec-Ag(or ec I can’t tell) tour
- Try to condense Merit Badge event to one weekend
- Attempting to put together a higher education outreach (high school students)
- Survey about main issues for mining engineering, foster interest in the industry

Social Chair Report
- BBQ is May 2nd
- Food for upcoming meeting

Campus Relations Chair Report
- All BSO submissions were approved
- Working on taking pictures at events

Graduate Student Representative Report
- WIM conference coming up next week

Industry Advisor Report
- No Report

Meeting ended at 5:35 PM
## 3.3 Outgoing and Incoming Officers

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<thead>
<tr>
<th>Officer Position</th>
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<th>2018-2019 Officer(s)</th>
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<tr>
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<td>-Organize Speakers &amp; SME Annual Conference Logistics</td>
<td>Marie Hetherington</td>
<td>Indira Gregorio</td>
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<td>-Organize E-Days Mining Competition -Assist President</td>
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<td>Treasurer</td>
<td>-Create &amp; Manage Budget -Lead Fundraising Efforts</td>
<td>Alex Murray</td>
<td>Orlando Vidaurre Torres</td>
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<td>Secretary</td>
<td>-Take Meeting Minutes -Facilitates Voting Process -Organize Annual Report</td>
<td>Ashlyn Hohenshelt</td>
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<td>Mineral Education Coalition (MEC) Chairs</td>
<td>-Organize Events for Educational Outreach</td>
<td>Indira Gregorio Dakota Locklear</td>
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<td>Social Chairs</td>
<td>-Provide food and drinks at General Meetings -Organize social events</td>
<td>Stela Cayatte Leila Mateus</td>
<td>Seth Edelen Chloe Poindexter</td>
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<td>Campus Relations Chair</td>
<td>-Take pictures at events -Complete paperwork for the school</td>
<td>Chamir Bello</td>
<td>Natalia Soares Rodrigues</td>
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<td>-Liaison between SME and the graduate students</td>
<td>Isabel Casasbuenas Cabezas</td>
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### 3.4 Membership List

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4 ON CAMPUS ACTIVITIES

4.1 Social Activities

Campus Tradition: M-Climb
The chapter was able to participate in a 110-year old tradition in which incoming freshmen carry a 10-pound rock from their hometown and place it on the Mines “M” on top of Mt. Zion. The class of 2022 was welcomed by the SME chapter as we were the first stop on their hike. We took the tradition of dousing the freshmen with water to the extreme by using a 5,000-gallon mine grade water truck donated by Martin Marietta Materials.

Welcome BBQ
On 27th of August, the Society for Mining, Metallurgical & Exploration Student Chapter at Colorado School of Mines hosted the annual Welcome Barbecue at Earth Materials Institute front yard. The event is organized to celebrate the beginning of the semester and to give students a chance to interact among themselves and network with faculty, CSM alumnus and industry people while having some fun and food.

Homecoming Tailgate
This year the SME Student Chapter at CSM got involved with the 2018 Homecoming Celebration on September 29th. The student chapter had a tailgate spot at the CSM vs Mesa football game beside many of the other campus groups and organizations. The weather was great, we barbecued, played corn hole, and both students and Alumni stopped by. This was a great publicity event and we look forward to making this a tradition for the chapter for years to come.

E-Days Mining Competition
The annual Engineering Days mining games went off without a hitch. There were 13 competitors from various departments. The community could watch or participate in 5 different events: swede saw, hand steel, mucking, gold panning, and jackleg drilling.

Over 30 people participated, and it was a great way to teach people about historic mining activities.
End of the Year BBQ
Our final social event of the year was the annual End of the Year BBQ. We awarded our graduating seniors with cords and served burgers and hot dogs grilled on a converted ore cart grill. There were over 130 students and faculty in attendance and live music provided by our very own Joe Bourgeois. It was a great way to wrap up the year.

4.2 Professional Activities
General Meeting Aug. 30: Career, Community, and Leadership
Amanda Garcia, Project Engineer at Maptek
To kick off the school year we hosted our very own Industry Advisor, Amanda Garcia who works as a project engineer at Maptek. In the “Career” portion of Amanda’s talk, she discussed how she never expected to be in mining software and the unique opportunities to travel to various sites that software companies present. Amanda also spoke about the benefits of finding outlets in the community. Finally, Amanda encouraged the student chapter members to embrace leadership opportunities, both within the student chapter and outside. Her talk was a great way to introduce our Industry Advisor to the 32 members that attended.

General Meeting Sept. 13: Panel on Internship Experiences
Various Seniors in the Mining Department
On September 9th, Colorado School of Mines had its annual fall career fair. With company information sessions and interviews the whole week we opted to showcase the student perspective of internship experiences. The chapter hosted six senior level mining engineering students on a panel to discuss their unique internships. This panel gave the younger members a chance to think about what they are looking for in an internship and gave the older members a chance to catch up with their classmates after the summer.

General Meeting Sept. 27: Virtual Reality in Mining
Ergin İşleyen, Ph.D. Candidate at Colorado School of Mines
Last year, we modified our student chapter bylaws to include a Graduate Student Representative position on our executive board to better accommodate our graduate student members. On the recommendation of our new Graduate Student Representative, we hosted a general meeting to showcase life as a graduate student and graduate research opportunities. Ergin İşleyen, a Ph.D. student, presented on his research in virtual reality and shared his ideas on how research contributes to total human knowledge. After his talk our members were able to try the virtual reality mine that his research uses.

General Meeting Oct. 25: Mined Out Pits and Quarries – An Underappreciated Resource
David Bieber, Manager of Geology and Survey at Martin Marietta Materials
Dave is a past chair of the Colorado Section SME and the Rocky Mountain Division Manager of Geology and Survey at Martin Marietta Materials. He spoke to the chapter about growing up around geology and his career as an exploration geologist. In his current role Dave is responsible for reclamation planning for all the Martin Marietta quarries in the region; he shared with the chapter examples of creative reclamation and stressed the importance of planning for reclamation.
General Meeting Nov. 8: Solution Mining and Solar Ponds in Potash Production
Hugh Harvey, Executive Vice Chairman of the Board and Founder of Intrepid Potash

The chapter was honored to welcome Hugh Harvey to speak about the innovative use of horizontal drilling and solution mining in the Moab potash mines. The chapter learned from the best of the best in the potash industry about the volatile potash market, the origins on horizontal drilling in solution mining, and aspects of founding a large mining company.

General Meeting Nov. 29: Financing Projects
Justin Anderson, Resource Capital Funds

The last general meeting of the fall semester our members had the opportunity to learn about financing junior mining projects from Justin Anderson, a senior engineer at Resource Capital Funds (RCF). The chapter has a close relationship with RCF as the company sponsors the End of the Year BBQ each year. It was a successful meeting with 27 members in attendance.

General Meeting Jan. 17:
John McDonough, Independent Consultant and retired CEO of Barrick Gold

The first meeting of the spring semester was one of the most successful meetings of the year with 46 students, faculty, and local community members present. John was the CEO of Barrick Gold in the early 2000s and he told a story of historic mine remediation in Canada. Barrick had acquired operations in a small town that had historic tailings problems. Barrick spend over two million to repurpose the site into a modernize park and golf course.

General Meeting Jan. 31: Everyone has a Plan until They Get Punched in the Mouth
Dave Loring, Mine Manager at Freeport McMoRan’s Henderson Mine

On January 31st the chapter welcomed Dave Loring from the Henderson mine. Dave shared his personal career journey and his advice for our members. Students asked lots of questions on block cave mining and ventilation engineering. Dave also spoke on new position as mine manager at the Henderson mine.

Conference Etiquette Meeting Feb. 7:
Ben Teschner, Ph.D. Candidate at Colorado School of Mines

Ben is a graduate student in the mining department and a longtime member of SME. We thought he would be perfect to speak to our chapter about the annual conference expectations, etiquette, and professional networking skills. Ben encouraged our members to attend technical sessions, mentorship events, and alumni events. His talk was a great way prepare our members for the upcoming conference.
Lunch and Learn Feb. 11: Transitioning from College to the Workplace

Freeport McMoRan Employees

The chapter was approached by Maria Bertram, a college recruiter at Freeport McMoRan, to set up a panel of employees to tell the chapter about transitioning from college to the “real world”. We had a full general meeting schedule, so we set up our first ‘Lunch and Learn’. It was good to hear the perspective from some of our recent alumni.

General Meeting Mar. 14: Life as SME National President

Hugh Miller, 2019 President of the Society for Mining, Metallurgy, and Exploration

The chapter was lucky enough to fit a general meeting in Hugh Miller’s busy schedule. He spoke to the chapter about the benefits of professional society memberships and some of his responsibilities as SME National President. This was a great meeting to have directly after the annual conference and it was good to see a familiar face again.

General Meeting Apr. 11: Born to Mine

Liz Diaz, Marketing Representative for Caterpillar’s Surface Mining & Technology Group

Our youngest speaker of the year was Lizeth Diaz. Liz graduated in 2015 and works for Caterpillar in the marketing rotational program. It was refreshing to hear the perspective of a recent graduate. Liz spoke on her childhood and growing up in the Peruvian mining industry, and her father’s career progression to General Manager. Her talk showed our students that a nontraditional career path can lead to the same end goal as a traditional path. She was also a great resource for some of our mechanical engineering members interested in large mining equipment.

General Meeting Apr. 25: Sustainable Mine Development

Terry Laverty, Assistant General Production Superintendent at El Cerrejon Mine

Terry Laverty had attended several of our general meetings before approaching the chapter for an opportunity to speak. Luckily, our last speaker of the year had cancelled last minute, and Terry was able to fill the spot. He spoke on the development of Colombia’s largest coal mine, El Cerrejon mine. Terry was working on the project in the 80s and he shared the challenges of training a workforce in a foreign country. This meeting was a great talk geared toward our corporate social responsibility group and beneficial for the whole chapter.

4.3 Service Events

Campus Tradition: Nightmare on Greek Street

On October 30, the chapter participated in the annual Nightmare on Greek Street. The CSM Panhellenic and Interfraternity Councils organized the event to facilitate a unique trick or treating experience for the local community. The chapter set up a booth with candies and games related to mining, so the kids could feel enthusiastic to play and learn more about mining in a fun way.
Mining in Society Merit Badge Workshops

The Mining in Society Merit badge is a two-day event, held in the fall semester and the spring semester. The scouts were enriched with knowledge of the field of mining, ranging from the fundamentals of the importance of minerals to the possibilities of space mining. The event was finished with a visit to the Spec-Agg Quarry, an aggregate quarry owned by Martin Marietta Materials.

Over the two workshops the chapter was able to award 15 scouts with the Mining in Society merit badge.

Mobile Mining Mayhem Activity

This was a new outreach event for the chapter. Over 100 students in the 3rd grade visited campus and our members volunteered to give tours of the Geology Museum and help the kids with the ‘Mobile Mining Mayhem’ activity. The students had a worksheet where they had to identify all the minerals that are in a cellphone. We then discussed the various mining methods of all the minerals.

4.4 Involvement with Other Organizations

General Meeting Oct. 10: Joint Meeting with Women in Mining

The Denver chapter of Women in Mining (WIM) and our new WIM student chapter joined SME in a panel on career paths within the mining industry. Women from Newmont Mining Co., academia, and the Department of Surface Mining and Reclamation spoke on their career journeys and answered questions.

General Meeting Nov. 15: Joint Meeting with Colorado Section SME

The Colorado Section SME and the student chapter hosted a meeting together on campus. The speaker was Walter Weinig with Pure Energy Minerals and he spoke about the current lithium markets and mining. Over 50 members of the student chapter and Colorado Section were in attendance and we served Ali Babba Mediterranean food. It was an excellent way for the student members to network with Colorado Section professionals.
Critical Materials Institute (CMI) Fundraising Gala
This year the chapter hosted our second annual CMI Fundraising Gala. The chapter teamed up with the CMI research group on campus to host the evening gala and silent auction. Invitations were sent to faculty, industry professionals, and SME members and this year attendance increased. The gala promoted CMI’s research and museum exhibit and the ticket sales and silent auction profits raised nearly $800.00 for the chapter.

Geology Merit Badge Workshop
The SME chapter teamed up with the Society of Economic Geologists (SEG) student chapter to host a Boy Scout Geology merit badge workshop. The workshop consisted of several map activities, mineral identification, small lectures, and a hike through the campus Geology Trail. The event was a huge success and we were able to give 39 scouts a Geology merit badge. This is a partnership we hope to continue in the years to come.

Girls Lead the Way
The SME chapter participated again in the Society of Women Engineers (SWE) ‘Girls Lead the Way’ event. This event brings in over 100 middle and high school aged girls to experience STEM majors. The mining activity that we hosted for the students was ‘Cookie Mining’. We showed the girls how exploration works, they “mined” for chocolate chips, and they had to reclaim the cookie to its original size.
5 OFF CAMPUS ACTIVITIES

5.1 Social Events
St. Barbara’s Day Celebration
On December 12th, the Colorado Mining Association (CMA) put on the annual St. Barbara’s Day Award Luncheon. Three of our members were able to attend the luncheon. The luncheon recognized Douglas B. Silver, explorationist, mineral economist and financier who is well-known for his keen wit and sense of humor. His many-fold contributions to the industry have produced mineral discoveries, resolved disputes, built companies, created shareholder wealth, and enhanced the careers of countless professionals.

5.2 Professional Activities
Revenue Virginius Mine Tour
The Revenue Virginius Mine is a small silver operation in Ouray, Colorado. CJ Dickerson is a feasibility engineer at the project and a recent graduate. CJ was gracious to offer a tour of the narrow-vein project to our members. The opportunity to tour a small-scale narrow-vein project was extremely valuable to our members. The mill for the mine is entirely underground because the failure of the previous ownership was the mill got destroyed in an avalanche. The silver industry in Colorado is primarily historic but it is exciting to see new projects beginning with innovative solutions.

North Antelope Rochelle Mine Tour
The chapter sent six members to Gillette, Wyoming to tour the largest coal mine in North America. The tour was an amazing opportunity for the chapter even though it was a 12-hour round trip. The students on the tour had little experience in coal mining and many had never seen a dragline. The tour covered a variety of topics and the members were able to see seven different pits.

5.3 Service Events
Denver Gem and Mineral Show
Each September the chapter volunteers at the Colorado Section MEC booth at the Denver Gem and Mineral Show. The event is the third largest gem and mineral show in the world and the booth showcased modern mining. We were able to share information about everyday minerals with nearly 40 families.

National Mining Hall of Fame Induction Banquet
On September 29, seven students of the SME chapter volunteered at the National Mining Hall of Fame Induction Banquet. The students helped with the event organization in exchange for a free dinner. Their tasks included welcoming and checking-in guests for the events and escorting guests to their tables. It was a great opportunity for the CSM students to learn about the achievements of the inductees and also meet and network with some pioneers and professionals of the mining industry.
Adams County Career Fair
For the second year the SME chapter volunteered at the Adams County Career fair. Over 300 8th graders from various schools in Adams County attended the fair to practice networking skill and to learn about potential career paths. The SME chapter represented the mining and minerals industry. It was a rewarding way to spread the word about our passion.

5.4 Involvement with Other Organizations
Caterpillar Student Leadership Experience
The SME executive board was fortunate enough to participate in a leadership training opportunity in Tucson, Arizona with Caterpillar. The officers that attended had personal strength training and the executive board was taught how to work with each other’s strengths. We also listened to professional development presentations from Caterpillar directors and were able to operate some equipment at Tanaja Hills training center. The executive board gave a presentation on the chapter goals and three- and five-year plans for the chapter.

This leadership training opportunity has helped our chapter and officers run efficiently. We are extremely grateful for the opportunity and plan on continuing the partnership in coming years.