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ACTS Membership

The Anderson-Carlisle Technical Society (ACTS) consists of approximately 50 active student-members representing Mining, Metallurgical, Geological, Geophysical, Civil, and Environmental Engineering students at Montana Tech (Montana Technological University).

The mining industry requires the cooperation of many different organizations and people. ACTS and its sister clubs begin that at the college level. The ACTS is the “umbrella organization” with the Geological Engineering Club, Club Met, Mining Team, and Mine Rescue Team under the umbrella. Soon, a new chapter of International Society of Explosive Engineers (ISEE) and the North American Society of Trenchless Technology will also be added under the umbrella of ACTS. Many of our members are active in two or more of these clubs.

The story of the Anderson-Carlisle Technical Society is a story of its members and the clubs that are associated with it. It often requires two or more of these clubs to accomplish all of our goals. The 2018-2019 chapter officers are listed below, as well as the leaders of the other clubs.

2017-2018 SME Chapter Officers

Co-president: Kristopher B. Schaff
McKenzee O’Neill
Vice President: Ethan Steffen
Treasurer: James Ray
Secretary: Cooper Knoll
Historian: Shayna Burgess
Faculty Sponsor: Dr. Thomas Camm
2018-2019 Mining Team:
President: Johanna Stinson
Vice President: Zane White
Team Captain: David Otto
Treasurer: Seth Salusso
Secretary: Seth Gudgel
Sponsors: Prof. Scott Rosenthal and Prof. Chris Roos

2018-2019 Mine Rescue Team Officers
President: Austin Sisson
Vice President: Cooper Knoll
Treasurer: Ethan Steffen
Secretary: Darby Decker
Trainer: Henry Kilbreath
Sponsor: Dr. Paul Conrad

2018-2019 Geological Club Officers
President: Eva Hover
Vice President: Bryan Claypool
Treasurer: Ashley Choquette
Secretary: April Degel
Sponsor: Dr. Larry Smith

2018-2019 Club Metallurgy Officers
President: Kathryn Bozer
Vice President: Reed Harder
Treasurer: Morgan Ashbaugh
Secretary: Nathaniel Burrington
Sponsor: Dr. Courtney Young
History

The Anderson-Carlisle Technical Society was founded in 1922 by the senior class of the Montana State School of Mines. The name of the organization was chosen as a memorial to the two men of the school who lost their lives in World War I. In 1923, the group became affiliated with the American Institute of Mining and Metallurgical Engineers as the first student chapter. Today the chapter consists of students from the Mining, Metallurgical, Geological, Geophysical, Civil, and Environmental Engineering programs at Montana Tech.
President Report

The 2018-2019 school year was a great year for the Anderson-Carlisle Technical Society (ACTS). My goals this year were to increase our membership, continue student involvement both on campus and in the community, and to continue the tradition of bringing stimulating technical presentations focusing on the Montana mining industry. The ACTS officers began work last summer to find interesting technical presentations, volunteering ideas, and funding ideas. When we returned to school last fall, we were able to hit the ground running and immediately begin recruiting members at the club rush event and start planning volunteering and fundraising events.

This year marked the sixth-year of tracking member involvement with participation-based points system. We use this system to show and determine member’s involvement in our monthly meeting, school, volunteer, and fundraising events. The ultimate goal of the points system was to get students involved early during the fall semester and keep them involved in the spring before and after the SME Annual Meeting. We have seen an increase in participation since implementing this system.

ACTS also participated in Montana Tech’s Homecoming celebration this year. Homecoming activities included the Race to the M, Window Mural Painting, Digger Olympics, Trivia, Bed Races, and the Parade. ACTS had great participation levels compared to other clubs on campus.

Larry Hoffman, who is an alumni of Montana Tech and a fierce supporter of the Mining and Geology departments, asked for ACTS’s assistance in cleaning up the Steward Mine hoist house. Several members of our club participated and were present throughout
the restoration of the hoist house. The Steward Mine hoist is now in operation and will be used as a prospective additional tour for the World Museum of Mining.

ACTS helped the Mine Rescue team plan, set-up, and perform the activities required to put on the Haunted Underground Mine tour at the Orphan Boy mine in Butte, MT. This is the second year that ACTS has helped with this fundraising activity at Montana Tech. ACTS also helped with Treat Street at the World Museum of Mining as a volunteer event where we handed out treats to the youth of Butte.

The students of ACTS volunteered at the annual Thompson Distributing Food Drive held throughout the Butte community. ACTS assisted with the district Search and Rescue, local FedEx delivery personnel, and other clubs to collect perishable foods and money to benefit the Butte Emergency Food Bank. We made another great presence at the event with the one of the largest group of volunteers. I believe that ACTS will continue its partnership with Thompsons Food Drive and the Silver Bow Search and Rescue.

I personally gave a presentation to a group of junior high students participating in TRIO with the help of several of our club members. Our chapter looks forward to volunteer opportunities where we get to help students in Butte’s community. In the past, we have gone out and read to elementary students and given presentations about the Engineering departments here at Montana Tech. ACTS also assisted in giving an underground mine tour to a group of 30 Junior High School students from Glendive, Montana. This group of students was traveling around the states on a Montana History trip that included stops at the state capitol and other historic sites.

As President of ACTS, I expressed the importance of attending the SME Annual Meeting to network and see all of the new technology used in the mining industry. With
the help of my fellow officers and distinguished professors, ACTS had a great turn out at the Annual Meeting. This year the funding to attend the Annual Meeting was made possible by chapter fundraising, alumni’s contributions, and our member’s departments. This left our students to pay for the registration. The students we sent to Denver were required to earn the designated points, pay for their entry in the Annual Meeting, and sign up to stand at the Montana Tech booth on the exhibit floor. ACTS ended up taking 32 students to the SME Annual Meeting. These students came from the Mining Engineering, Geological Engineering, Environmental Engineering, and Metallurgy departments. More members of mine rescue and other department clubs also attended the SME Annual Meeting in Denver.

Over the course of this academic year ACTS has hosted several guest speakers at our chapter meetings. We hosted speakers from Newmont Mining, Barrick Gold, and the National Institute for Occupational Safety and Health (NIOSH). These guest speakers talked about their ongoing work in the industry and how being a part of professional organizations, such as ACTS and SME, have helped them throughout their career.

ACTS was the benefactor of the Day One Giving Campaign at Montana Tech, which is put on by the Montana Tech Foundation. Charitable contributions to the mining department were matched by the foundation for first time givers, student donations, and faculty donations. Prizes were also awarded to the departments that received the most and the largest sum of donations. I am pleased to report that the Mining Department was able to win both prizes and received approximately $31,000 from this fundraising effort. These funds were given to ACTS for the purpose of sending students to the SME conference for the next few years.
I am proud and grateful to my fellow officers for all the great ideas and assistance they provided this year, and to our chapter adviser, Dr. Thomas Camm, for being a great reference for professional & leadership advice, and fundraising ideas. I hope that I have provided the groundwork for future leader of ACTS in terms of leadership, community service and campus involvement. I also hope that the Anderson-Carlisle Technical Society will continue to grow and contribute SME and future mining professionals.

McKenzee O’Neill
Kristopher B. Schaff
President, Anderson-Carlisle Technical Society - SME
Montana Tech
Vice President Report

The Anderson Carlisle Technical Society at Montana Technological University had a successful 2018-19 year. This year the club participated in multiple volunteer opportunities across the Butte community in addition to attending the annual conference in Denver, Colorado. My main duty as vice president was to assist the club co-presidents, McKenzee O’Neill and Kris Schaff. These duties entailed assisting in the planning and coordinating of the trip to the SME conference in addition to participating and coordinating volunteering opportunities.

Our club saw the usual, high amount of activity in events both on and off campus. SME members participated in volunteering events as well as informative guest speaker session hosted by the club. This year, the ACTS participated in multiple volunteering events including the Thompson Distributing Food Drive, haunted mine tours at the World Museum of Mining, gold fish races to support Mining Team, Treat Street at the WMM, and many other opportunities alongside other clubs and organizations.

In addition, ACTS also took part in all of the homecoming activities on Montana Tech’s campus. Events such as a race to the “M”, bed races, window mural painting, and Butte history trivia were all well attended by the club. Furthermore, in preparation for homecoming, club members constructed a bed racer that can be used in coming years’ events.

This year’s SME annual conference was hosted in Denver Colorado as it is every other year. The proximity of the conference allowed the club to send 32 student members in attendance. All members in attendance showed interest and stayed active and involved at the conference. The annual conference always provides the student members a great
opportunity to network within the mining industry and with students from other schools. Our club’s strong attendance at the conference was also reflected in the school booth always having a group of students around it socializing with both each other and industry professionals.

I believe that ACTS has a bright future with continuing strong attendance from older members in addition to growth from incoming freshman and transfer students into the departments related to SME. Our club continues to be very involved with the local community and further opportunities to continue this constantly arise. The addition of more clubs on campus pertaining to the mining industry also provide opportunity for collaboration on events and for students to get involved in the industry. I look forward to seeing the continued good health of our club into future years.

Ethan Steffen
Vice President, Anderson-Carlisle Technical Society - SME
Montana Tech
Treasurer Report

As the Treasurer of the Anderson-Carlisle Technical Society (ACTS), it is my honor and duty to monitor and maintain the funds of the ACTS chapter at a positive balance, inform officers and advisors of the funds available to the chapter, and perform reconciliations to compare totals at the time of this report. These were my primary responsibilities. Other duties included assisting with daily operations of the chapter, informing members of fundraising activities, assisting with fundraising activities, recruiting new members to the chapter, as well as supporting current chapter members.

Overall, we had a successful year here at Montana Tech. Fundraising was performed throughout the school year to minimize the costs of attending the 2019 SME Annual Meeting in Denver, Colorado. The bulk of the fundraising done was through Montana Tech’s Day One Giving Campaign, donations from companies in industry, and a few different social gatherings put on by our chapter. The Day One Giving Campaign raised $31,000 for ACTS thanks to the support of the Mining Engineering Department and our many members and alumni supporters. 2019 marked a year with several new fundraising campaigns for this chapter including several pint nights throughout the year at Muddy Creek and Quarry Brewing.

With the support from companies in industry, our alumni, and the hard work of all the SME student members, our club was able to raise enough money to support other chapter activities, including attending the 2019 Annual Conference. With the members helping in different fundraising events, the club as a whole ended the year with a positive balance. We are off to a great start to begin next year moving in the right direction and plan
to pick up right where we left off by participating with community outreach programs, school functions, and other fundraising activities.

We had a good year at Montana Tech and are constantly looking for ways to improve. Our goal is to offer fun, engaging learning activities to the students at Montana Tech as well as help those students be successful. We offer many ways for students to build their resumes through volunteering, including tutoring at local schools, Habitat for Humanity, and the Thompson Distributing Food Drive. Not only does this look good to potential employers, but also gives the members a great feeling of giving back and supporting the amazingly strong and tight-knit community of Butte, Montana.

The Montana Tech Foundation account for SME stands at $40,575 as of the last report from the Foundation.

James Ray
Treasurer, Anderson-Carlisle Technical Society - SME
Montana Tech
Secretary Report

As the Secretary of the Montana Tech ACTS student chapter of SME, it is my responsibility to inform members of different events that are upcoming. I also kept track of our point system, making sure the members received credit for helping with different events throughout the year. I was very involved with keeping track of our records for our officer’s meetings throughout the year. It was also my responsibility to assist the other officers and members with any other events or tasks that arose throughout the year.

We had another great year at Montana Tech. The ACTS student chapter of SME was very busy. Throughout the semester, we performed as much volunteering and fundraising as possible, as well as had a broad range of technical presenters and other speakers.

ACTS members helped with the Haunted Mine Tour along with some of the other mining department clubs here at our Underground Mine on campus. We also helped with Treat Street this year again, where we set up tables and handed out candy to local children making their rounds on Halloween. One of the largest volunteering events we participate in every year is the Thompson Distributing Food Drive. This event is put on by the local volunteer fire department and most people throughout Butte participate either by helping gather donations or by donating food themselves.

This year, as the Secretary of the chapter, I decided to try a new way to keep records, or minutes, of our officer's meetings. We now have a place where the records are stored for good, where any of the officers can have access. Not only do these records show what we talked about, including different ideas for fundraising to other events, but also show the different action items and who needs to perform them. Overall, this new
system is working well. We will be continuously looking for a way to improve on all of our systems in place, but overall we are moving in the right direction.

Overall, it was another great year at Montana Tech. We are happy with what we achieved this year and are looking forward to the different improvements that we can make next year.

Cooper Knoll
Secretary – Anderson Carlisle Technical Society – SME
Montana Tech
Gem Section

World Museum of Mining

Once again, Montana Tech’s ACTS aided the World Museum of Mining in the setup and execution of its annual Halloween Treat Street Event. Every year, the museum hosts dozens of local businesses which distribute treats for hundreds of Butte’s children in a safe, well-lit, and vehicle traffic-free area on the grounds of the museum. ACTS setup the tables for the booths, distributed healthy beverages to children and parents alike, provided security and curatorial assistance at the exhibits, and clean-up after the event was done. ACTS will continue its relationship with the museum in this and other capacities in the future.

Orphan Boy Mine

Beginning in the fall of 2012, Montana Tech began construction of a new underground laboratory in the old workings of the historic Orphan Boy silver-manganese mine adjacent to the school’s campus. Over the course of five months, a decline was driven from the surface to the 100 foot level of the Orphan Boy, intersecting the old crosscut between the Orphan Boy and Orphan Girl production shafts, as well as accessing the Orphan Boy ventilation shaft. Once again, Montana Tech offered a Practical Underground Mining class to its students, under the supervision of the miners and engineers from Blue Range Engineering as well as faculty members, performed rehabilitation of old workings and now focused on pursuing the unmined silver-galena ore vein. Development and production of the project will continue over the next few years and will provide a world-class underground laboratory benefitting the OSH, Mining, Geological, Metallurgical, and Environmental Engineering departments at Montana Tech.
Thompson Distributing Food Drive

This year, ACTS continued its commitment to volunteer in the Annual Thompson Distributing Food Drive with the help of the Butte Search and Rescue, Racetrack (Butte Volunteer) Firefighters and other groups. Club members in ACTS travel throughout Butte and surrounding neighborhoods to collect non-perishable foods and money to contribute to the Butte Emergency Food Bank. This is a great event that ACTS is proud to work with the community.
On Campus

Guest Speakers & Chapter Meetings

This year, ACTS sponsored several guest speakers at the chapter’s meetings. ACTS is responsible for arranging hotel rooms, reserving equipment and a room needed for the presentations, advertising to the students and faculty, and providing refreshments. These presentations allowed the students more insight into their potential employers. Our guests during the past year include the following.

Scott Rosenthal & Thomas Camm
Montana Tech

Angela Prindle
Newmont

Donovan Benton
NIOSH

Kathryn Dehn
NIOSH

Brandon Holton
Redpath Mining at Barrick Gold’s Golden Sunlight Mine

ACTS Social

End of Year Pizza Party

Every year the Mining, Geological, and Metallurgical Engineering Departments host a pizza party for the graduating seniors the weekend before graduation. ACTS members helped organize the event and prepare a slideshow of the year’s activities. The pizza party continues to grow in size and popularity. The pizza party has grown to include the primary departments that are involved with ACTS. The event is a wonderful opportunity for the students in the Mining, Geological, and Metallurgical Engineering Departments to get together for one final gathering to remember the year’s activities, and
congratulate our graduating seniors on a job well done. The event also encourages student to listen to the senior design presentations, which are given before the party.

Off Campus

Professional Meeting - SME Convention

This year 32 of our student members attended the 2019 SME Annual Meeting in Denver, Colorado. These students ranged in many different educational backgrounds: Mining Engineering, Metallurgical Engineering, Geological Engineering, Mechanical Engineering, Electrical Engineering, Petroleum Engineering and Environmental Engineering Programs. With the help of our fundraising efforts Montana Tech Alumni, the Geological department and student contributions, the ACTS SME chapter was able to send the students at a minimal cost to its members. While at the convention, members participated in the student functions, attended technical sessions, worked the Montana Tech booth, and attended social functions. This year’s conference was a great opportunity to learn and grow for all who attended.
ACTS Campus Affiliates

Mining Team

This year, the 41st Annual Intercollegiate Mining Competition was hosted in Virginia City, Nevada by the University of Nevada-Reno. Montana Tech has competed in this event every year since it began in 1979. The week-long event provides a great opportunity for networking as well as good, old-fashioned competition. The mining team is predominately made up from mining and geological students, but has been steadily branching out to include a few members from mechanical, civil, and metallurgical engineering. The competition has grown since it began and is now dedicated to those 91 miners who lost their lives in the tragic Sunshine Mine Disaster. The competition honors those people and strives to keep the old traditions of the mining industry alive.

This year, Montana Tech fielded two men’s teams, two co-ed teams, and a women’s team. There were 18 men’s teams, 7 co-ed teams, 8 women’s teams, and 7 alumni teams that competed at the mining games this year. The men’s “JDS Energy and Mining” team placed 1st overall. They took 1st in Handsteel, 1st in Swede Saw, 1st and Trackstand, 3rd in Jackleg, and 3rd in Mucking. The men’s “Orphan Boy” team placed 6th overall. The co-ed “Neversweat” team placed 2nd overall. The team took 1st in Mucking, 1st in Trackstand, and 1st in Handsteel. The co-ed “Anselmo” team placed 4th overall. They placed 2nd in Handsteel, 2nd in Trackstand, 2nd in Survey, and 3rd in Mucking. The women’s “Orphan Girl” team placed 2nd overall. The team took 1st in Trackstand, 2nd in Handsteel, 2nd in Swede Saw, 2nd in Survey, and 3rd in Goldpan.
Overall, this was a great year for the Montana Tech Mining Team. The team is also looking forward to traveling to Golden, Colorado for the 42nd Annual Intercollegiate Mining Competition. The team is excited to compete and will begin training next fall.

Mine Rescue Team

The Montana Tech Mine Rescue Team was formed under the umbrella of the ACTS in Fall 2013. This year the team participated alongside ACTS in all volunteering events throughout the school year. The team spent this year training and preparing for the MERD competition that was held in February 2019. The MERD competition was hosted by the Colorado School of Mines at their campus and the Edger Mine located in Idaho Springs, Colorado. The team made its third appearance in the competition performed better than in past competitions. The team will compete against Colorado School of Mines, South Dakota School of Mines, University of British Colombia, Queen’s University, Heidelberg University, and others. The mine rescue team continues to train and grow with the hopes of continuing to compete in professional competitions.

The club has received many donations from companies such as Barrick, Stillwater, Tronox, DXP Safety, Cloud Peak Energy, and Central Mine Rescue. This year the team saw an especially generous donation from Genesis Alkali who gave the team a trailer to use for equipment storage and transportation. The team has built a great working relationship with the Central Mine Rescue Teams and this spring assisted the Central Mine Rescue Competition held in Wallace, Idaho. The Mine Rescue Team has been a big help in the fundraising and volunteering effort with ACTS and continuing this effort for years to come.
Signature Page

Date: April 29th, 2019

I have read the report of the activities of the Montana Tech Anderson-Carlisle student chapter of the Society for Mining, Metallurgy, and Exploration (SME) for the 2018-2019 academic year and approve its release to the national SME chapter.

Thomas W. Camm, Ph.D., P.E.
Professor
Freeport-McMoRan Professor of Mining Engineering
Mining Engineering Department
Montana Tech