



SME STUDENT CHAPTER REPORT

University of Kentucky



2019-2020



Contents

Advisor Signature and Letter	3
Overview	5
President's Report.....	6
Secretary's Report.....	8
Treasurer's Report	13
Activities.....	16
Outreach	16
Recruitment	20
Description of Events	21
On Campus Events	21
Off Campus Events	23
Membership List	24
Presidential Outlook 2020-2021	25
Closing Remarks	27



Advisor Signature and Letter



University of Kentucky
College of Engineering
Department of Mining Engineering
234F Mining & Mineral
Resources Building
504 Rose Street
Lexington, KY 40506

29 May 2020

Award Selection Committee
SME Outstanding Student Chapter

To Whom It May Concern,

As the Faculty Advisor for the University of Kentucky Norwood Student Chapter of SME, I can attest to the accuracy and integrity of the information contained in this report. The 2019-2020 officers and student members planned, organized and carried out numerous activities throughout the year focused on industry engagement, fundraising, recruitment and community outreach. Students were responsible for organizing weekly seminars during the Fall and early Spring semesters to allow representatives from the mining industry to provide an overview of their respective companies and career opportunities. These seminars were followed by individual interviews, which enabled every interested student in our department to secure professional internships for summer, 2020. A total of 23 companies participated in these events and represented a broad range of industries, including coal, aggregate, equipment, utilities, industrial minerals, and consulting. All aspects of these events were organized and carried out by the students, and as a result of their efforts, every single student in our program that desired to obtain a full-time position or a summer internship experience was able to do so.

A primary goal for the year was realized by earning sufficient funds to send 20 students to the Annual SME meeting in Phoenix. These funds were generated through hosting hospitality tailgate events at seven UK home football games, where students were responsible for all phases of planning and execution including planning, shopping, set-up, cooking and clean-up. Additional funds were planned to be earned by soliciting sponsorship for our Annual Boy Scout Merit Badge Fair, where area Scouts have the opportunity to earn any 2 of 10 merit badges offered. This event that has been held free of charge to the Scouts and lunch, snacks and instructional supplies are paid for through generous sponsorship. All instructors were to be UK Norwood Student SME Chapter members or UK Mining Engineering faculty.

This year, students were able to organize and host a similar activity, a Girl Scout Lock-In, an overnight event where girls has the opportunity to learn about STEM topics taught by girls in our Student SME chapter. While this is primarily an outreach effort, it also serves as a recruiting event, as topics and activities showcase the importance of mining and the diverse career opportunities available. All expenses for the event were paid through a competitive Shark Tank- like program initiated by the UK community this year.

A specific goal this year was to expand community outreach efforts; a group of volunteers spent a week-end at the annual Boy Scout Coal Camporee near Hazard, KY sharing their enthusiasm for mining with over 400 scouts, leading various activities such as cribbing and mineral identification. Numerous other events were planned throughout the Spring semester, providing the opportunity to share the importance of mining with over elementary, middle, high school and college students. Unfortunately, most had to be postponed due to COVID 19 restrictions.



While it was disappointing to see so much planning effort not come to fruition, our isolation did provide the unique opportunity to develop new ideas for outreach. This summer, we will launch an ambitious new effort to develop a sustainable campus waste electronics recycling program for students, a concept that was developed by UK Mining Engineering faculty and SME student chapter members. Student volunteers will collect, sort, prepare and process electronic scrap in a pilot processing facility on campus to recover copper, gold and other metals, which will be sold to defray the cost of continued operation. This project is funded by the UK Sustainability Challenge Grant program and will be run entirely by SME Student chapter volunteers. It will be exciting to see UK Mining Engineering students leading the way in campus sustainability.

Perhaps the most commendable role that our students play is in recruiting other students, where they share their passion for the mining industry. Weekly department tours are held, where students serve as ambassadors, making personal connections with visitors that frequently know little or nothing about mining. Several recruiting events are also hosted for freshman engineering students to assist them in choosing majors; our students do all the planning, speaking and serve as lab tour guides. Their contribution to recruiting is invaluable and their enthusiasm is contagious.

It has been an honor to serve as Faculty Advisor to this group of students who have persevered through unusual adversity this year. They were undeterred by quarantine requirements that forced many events to be postponed. Rather than complain, the newly elected officers used the isolation as an opportunity to plan for next year, broadening their outreach into new areas such as sustainability. Their chapter has established a culture of service; I am proud to be a small part of it and believe the UK Norwood Chapter is most definitely deserving of the SME Outstanding Student Chapter Award for their determination and commitment to service, outreach and education.

Sincerely,

Dr. John G. Groppo

Digitally signed by Dr. John G. Groppo
DN: cn=Dr. John G. Groppo,
o=University of Kentucky, ou=Mining
Engineering Department,
email=john.groppo@uky.edu, c=US
Date: 2020.05.29 10:51:39 -04'00'

Dr. Jack Groppo
Professor of Mining Engineering
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859-317-1000



Overview

This year our chapter embraced a new motto: Engaging Students, Increasing Opportunity, Impacting Communities. What is remarkable about our group is we have found a way to harness our resources to spread our impact. This chapter does not just benefit our students. This year alone we have reached thousands through relentless outreach, recruiting, and networking events. We have created a culture of service and in turn we accomplish wide, lasting impact. Our students get more out of this group than a free meal on Wednesday nights or a free trip. The opportunities we provide allow for our students to be in authority position about the industry they are passionate about. They get the opportunity to speak publicly, to teach, and to be an ambassador with a wide variety of people. These skills will benefit them greatly as they begin their career and leave them with innumerable connections with industry professionals and community leaders that can help move their career forward.

We build young professionals who build this industry. We are incredibly proud of the vast opportunities we have given our students, the students we have introduced to the industry, and the positive impressions of mining we have created. Each year we continue to grow the variety of programming we offer, the groups we serve, and the number of students we can bring to the national conference; therefore growing the skills and opportunities our students have for professional development. This is only possible because of the dedication of our students and their passion for this industry, and it is because of that dedication and passion that we are proud to submit our chapter for consideration for the 2019-2020 Outstanding Student Chapter Award and the Student Chapter MEC Award.





President's Report

Our chapter's story over the past few years has been one of great growth. Last year we added additional positions to the executive team to head our outreach, recruiting, and tailgate efforts, looking to step up our events and more people involved. The results have been an overwhelming success. In the two years of these positions we have grown to reach thousands of kids a year and partner with organizations not only in our community but across the country, offering our students innumerable opportunities to better themselves while serving the industry they are passionate about.

Through our programs we have watched students become ambassadors for the industry, changing the perception of mining and the course of their career one program at a time. They work hard making industry connections and raising funds at our sponsored tailgates, they give up their Saturdays to enlighten hundreds of scouts to what mining has to offer, they foster the new generation of mining engineers by being mentors and friends to first year engineering and high school students.

This year we wanted to improve the ways we involve the underclassmen and decrease the amount of time it takes for them to get involved in the program. A key element of this last year was bringing the underclassmen in to help with outreach events and connecting with them at spring semester SME meetings where listening to a company presentation would not be the main focus as it is in the fall. Unfortunately, the impact of COVID-19 took some of these opportunities away



and made it difficult to meet those goals in the way that we would have liked. However, we are adapting new ways to reach out through digital content creation for outreach, zoom receptions for incoming students, virtual social events, and continuing communication through our peer mentoring program. Though we may not be able to be with the underclassmen in person, we hope they feel our presence as a support system welcoming them and become involved as soon as circumstances allow.

We also set out to take as many students as possible to the SME National Conference in Phoenix, Arizona this year. We were able to fully finance trips for 18 students and we are excited to have been able to offer that opportunity to so many of our members. The students taken earned their trip through hard work at our tailgates, recruitment, and outreach events, encouraging participation in our already well supported programming.

This is a family. One that serves and one that builds each other up to succeed. While we may not hit every lofty goal we set for ourselves, I truly believe students who participate and buy into this program leave better people, with a host of skills that will serve them well throughout their careers. We are a strong team and I am very proud of the work we do together. I am confident



that the foundation we have built will continue into the coming years and I can't wait to be impressed by what our team is able to accomplish next.



Secretary's Report

The SME Norwood Student Chapter works hard to provide students with a wide variety of opportunities to get involved on and off campus. In the 2019-2020 school year, we held 15 general chapter meetings on Wednesday evenings. These meetings invited representatives of mining companies to talk about their operations, practices, and industry experience. The next day students were given the opportunity to interview with companies for internship, co-op, and full-time positions. Our meetings consistently provide students with job prospects as well as connections with a wide range of industry professionals and other students in the department. A list of these meetings is provided below. Additional networking opportunities were provided at 8 sponsored tailgates during home football games which allowed members to meet with peers and industry leaders in a casual environment.



Company	Date
Carmeuse	August 28/29
ArcelorMittal	September 4/5
Lehigh Hanson	September 10/11
Rogers Group	September 18/19
Martin Marietta	September 23/24
Mosaic	September 24
Respec	September 25/26
Coronado	October 2/3
Alliance	October 9/10
Blackhawk	October 16/17



Vulcan	October 23/24
CRH/ The Shelly Co.	October 30/31
Hinkle	November 6/7
LG&E	November 13/14
Arch	December 20/21

Our chapter prides itself not only in providing opportunities for our own students, but also in our outreach. Great effort was put into hosting a large number of outreach events. These events give members ample opportunity to get involved and have proven to be a great entry point for the younger students in the department, reinforcing our culture of service. Following is a list of completed outreach, recruitment, and special events.



Event	Date
Women in Engineering Explore Camp Workshop	June 18th
Engineering New Student Orientation	August 22nd
Campus Cookout	August 27th
Wildcat Cage Fundraising Competition (\$1,750 raised for outreach)	September 5th
Coal Camporee	September 28th
First Year Engineering Mining Presentation 1	October 10th



Kentucky Coal Association Annual Meeting	October 10th - 11th
KGS Open House	October 16th
Fall Engineering Open House	November 2nd
Tema Isenmann plant visit	November 9th
First Year Engineering Mining Presentation 2	November 18th
Freshman Peer Mentoring Session	February 18th
Engineering Day	February 22nd
SME National Conference	February 22nd-28th
Cardinal Valley Elementary School Visit	March 5th
Girl Scout Lock in	March 6th-7th
Virtual “Murder Mystery” Social	April 29th
Virtual Mining Engineering Department Reception	May 14th

Following is a list of scheduled events that were cancelled due to COVID-19.

Event	Date
High School Girls STEM Club Visit	In the process of being scheduled
JH Fletcher Trip	March 27th
Girl Scout “Think Like an Engineer” Elementary Workshop (25 scouts registered at the time of cancellation)	March 29th



Freshman Blackhawk Mine Tour	April 17th - 18th
Middle School Campus Visit (50 kids registered at the time of cancellation)	April 6th
Spring Engineering Open House	April 11th
Merit Badge Mania (4 partnerships for badge workshops confirmed at the time of cancellation)	April 25th

Executive Officers

Position	2019-2020	2020-2021
President	Brian Watkins	Richard Karr
Vice President	Zeb Hart	Caroline Gerwig
Treasurer	Kullen Floyd	Katie Mullins
Secretary	Anabelle Pillar	Kyle Desnoyer
ESC Representative	Caitlin Strong	Audry Henson
Head of Outreach	Jessica Nelson	Jessica Nelson
Head of Recruiting	Kayla Thurman	Josh Thomas
Head of Sustainability	N/A	Stephanie Pena



While we are disappointed in the cancellation of the remainder of our spring semester events, we are proud of the work we were able to accomplish this year and we are excited to see our strong program innovate over the coming weeks and into next year.

Kyle Desnoyer

Secretary, SME Norwood Chapter 2020-2021



Treasurer's Report

This year UK SME was fortunate to receive financial support from numerous companies through sponsorships of networking tailgates at football games and the strong relationships between our chapter and the companies we work with. Our past executive team worked to ensure that the next executive team would begin the new year's journey on good financial standing. We focused our expenses on expanding our outreach to our community, ensuring a greater presence within the University of Kentucky College of Engineering, and ensuring paid travel opportunities for our students, fulfilling the goals we set for ourselves this year. The favor was returned by leaving general funding and designated outreach funding for next year's executive team.

The management of our finances was instrumental in achieving our goals as a chapter. As mentioned before, the SME Norwood Chapter wanted to continue to grow our outreach for the year 2019-2020. Fiscal responsibility and outreach specific fundraising allowed us to have the resources to put on events of increasing number and quality. Once again, we competed in a Shark Tank style competition for engineering student organizations on UK's campus, pitching our outreach program, and won \$1,750, in addition to being awarded as one of the top presentations of the day. The companies distributing funding in this competition are not involved in mining and we have no prior relationship with them. But yet, they funded us, more than twice what we got last year. This is because they believe in this program and the passion of our students. Each year they tell us they are impressed and surprised by all we do, and we view it as a great accomplishment to change their minds and earn their support.



SME Norwood Chapter worked countless hours putting the funding we earned to good use, ensuring all outreach events created a lasting and positive impression of the mining industry and our organization. Our chapter's students worked hand-in-hand with the Women in Engineering to complete an Explore Camp Workshop that took place during the summer of 2019, moving high school aged girls through a number of mining engineering labs. UK SME traveled to Hazard, Kentucky to attend the Coal Camporee with the Boy Scouts of America and teach Mining in Society merit badge requirements. We ran our 2nd successful Girl Scout Lock-In that allowed young women to gain exposure to STEM and the mining industry. Here the Girl Scouts were able to express their interest in STEM and see the women and men of our department working together to achieve the same goal. Both of these outreach events ended being a favorite for not only the students of UK SME, but also the Boy Scouts, Girl Scouts, and parents.

Additionally, the Norwood Chapter wanted to ensure our presence within our university community and state community was held to the highest standard. SME Norwood Chapter took part in the University of Kentucky E-Day where all engineering disciplines were present. Here we showcased our discipline and research through interactive games, and highlighted our student organizations such as SME, ISEE, Mucking, and Women in Mining. To broaden our community



outreach, we visited an elementary school to talk about coal mining, which is rarely discussed within a classroom setting. Our chapter used our funding to provide industry tours, First-Year Engineering presentations to allow freshman at UK to learn about the discipline of mining engineering, and social and networking opportunities. Efforts to ensure financial stability for the SME Norwood Chapter have and will continue to be a top priority to make certain that our outreach can continue to grow stronger every year.

Although the beginning of 2020 brought vast changes to our world, the goal for the upcoming year is to continue the growth of our outreach and focus on budgeting our travel. We want to increase the number of students that are able to go this year's SME National Conference and will focus our financial goals towards this. We will begin this process by assessing a new approach and working together to come back to normal life not only stronger and healthier, but better together. We will continue to face new challenges with the unknown this year, but SME Norwood Chapter is ready to take on anything. No matter what the obstacles, we will have an overwhelming successful year.



Katlyn Mullins

Treasurer, SME Norwood Chapter 2020 – 2021

General Funds	
Beginning Balance	\$ 1,603.66
Income	
Tailgate Sponsorships	\$ 22,000.00
SME Section Grant	\$ 1,000.00
Costs	
SME Trip	\$(12,743.16)
Tailgate Tickets	\$ (3,000.00)
Tailgate Supplies	\$ (5,200.00)
Campus Cookout	\$ (485.00)
SME Meetings and Christmas Party	\$ (881.00)
Recruiting Meals	\$ (508.00)
Ending Balance	\$ 1,786.50

The remaining balance will provide next year's team with starting money to continue our fundraising tailgates.



Outreach Funds	
Beginning Balance	\$ 500.00
Income	
Wildcat Cage	\$1,750
Student Opportunity Fund	\$442
Costs	
Coal Camporee	\$ (407.43)
Cardinal Valley School Visit	\$ (10.69)
Girl Scout Lock In	\$ (439.13)
Photo Thank You Cards	\$ (63.98)
Promotional Pencils	\$ (436.02)
Ending Balance	\$ 1,334.75

Much of the remaining balance was to be used on spring semester outreach events cancelled due to COVID-19. Additionally, sponsorships had been pledged for our Merit Badge Mania event that were not paid due to the event cancellation. We hope to use the remaining funds towards events rescheduled in the 2020-2021 year.



Activities

Outreach

Outreach Events 2019-2020

Event	Date
Women in Engineering Explore Camp Workshop	June 18th
Wildcat Cage Fundraising Competition (\$1,750 raised for outreach)	September 5th
Coal Camporee	September 28th
KGS Open House	October 16th
Engineering Day	February 22nd
Cardinal Valley Elementary School Visit	March 5th
Girl Scout Lock in	March 6th-7th

Outreach Events Cancelled Due to COVID-19

Event	Date
High School Girls STEM Club Visit	In the process of being scheduled
Girl Scout “Think Like an Engineer” Elementary Workshop (25 scouts registered at the time of cancellation)	March 29th
Middle School Campus Visit (50 kids registered at the time of cancellation)	April 6th



Merit Badge Mania (4 partnerships for badge workshops confirmed at the time of cancellation)	April 25th
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Faculty Advisors and Industry Sponsors for Outreach 2019-2020

- Dr. Jack Groppo
- Dr. Zach Agioutantis
- Dr. Thomas Novak
- Dr. Steven Schafrik
- Dr. Jhon Silva-Castro
- Dr. Joseph Sottile
- Josh Werner, University of Kentucky Mining Engineering
- Karen Rose, Synterra Corp and Boy Scouts of America
- Sarah Lewis, Girl Scout Wilderness Road Council

Our student chapter does many impressive things. Large tailgates with industry, weekly company visits and interviews, taking students to conference. But I believe the most exceptional work we do is our outreach. As the leader of these outreach events I have the pleasure of seeing their impact close up. Of course, the kids are impacted. We see kids who have never heard of mining and never considered it in their lives leave interested and appreciative of our vast industry. But what most people don't realize is the impact it has on our students. Outreach events make our students into authorities for the mining industry. It gives them a platform to develop speaking and communication skills, and it puts them in a position to take ownership of the field they are passionate about. I believe our team is at its best when we're working together to accomplish the mission of teaching our community about mining.



This year we were able to continue several of our flagship events, the first being Coal Camporee in which we take students to a Boy Scout camp and teach Mining in Society Merit Badge requirements to hundreds of scouts. We brought an entire challenge course complete with surveying, mineral identification, and puzzles for the scouts. Both the volunteers and the participants enjoyed the course and there were many scouts interested in completing the badge when they got home.



We continued our coal education efforts with a visit to a local elementary school. The fifth-grade science class had a trip planned to a coal mining museum and we arranged to come in before the trip and teach the students about how coal is formed, how coal is found, and how coal is mined. Our visit included a presentation, mineral kits, PPE, and cookie mining. We are planning to continue the partnership with the school in years to come.



Our reach was expanded by providing demonstrations at community events like the Kentucky Geological Survey's annual open house and the University of Kentucky's Engineering Day, which draws thousands of K-12 students each year. Hands on activities like our virtual sandbox bring us invaluable exposure at these events. Connections made at these events led to increased interest in future outreach events and department visits.

We were also able to host our 2nd annual Girl Scout Lock In. This year the event was bigger and better with girls travelling in from multiple states up to 4 hours away. The girls worked on design thinking activities for their Think Like an Engineer Journey and participated in workshops on floatation, electrostatic separation, circuits, a shipwreck challenge, and a mineral themed escape room which included a build-your-own processing circuit. Again, we received rave reviews on our surveys and the girls expressed interest in learning more about mining engineering and returning for additional events.



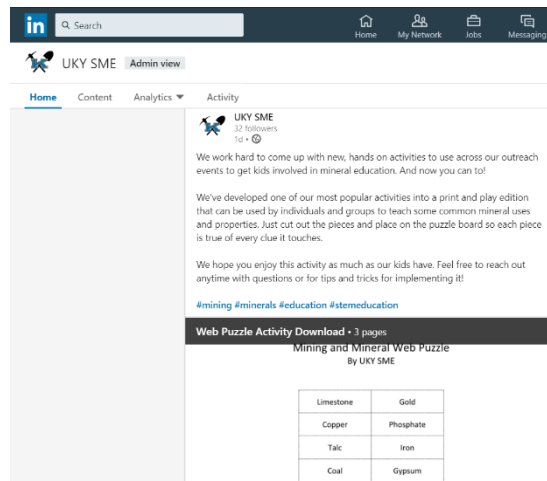
There were many other outreach events on the horizon for our Spring Semester that unfortunately have to be rescheduled due to the COVID-19 pandemic. While we are disappointed to not get to work with the 75 kids who were signed up for these events at the time of cancellation, we have been keeping in touch with the schools and organizations involved and each event is on track to be rescheduled as soon as it can be done safely. The events included:

- High School Girl's STEM Club Visit
- Middle School Campus Visit (50 kids registered at time of cancellation)
- Elementary School Girl Scout "Think Like an Engineer" Workshop (25 scouts registered at time of cancellation)



- Merit Badge Mania (4 partnerships for badge workshops confirmed at time of cancellation)

Despite not being able to continue our events in the traditional way, outreach is still important to our team. We have begun developing two social media channels: an Instagram and a LinkedIn page. We will use these channels to keep us connected to prospective students, industry professionals, alumni, and our partner organizations for outreach. We are working on content to share through our LinkedIn that can be used for mineral education. The first, a print and play version of the web puzzle created by one of our student members that is used often at outreach events to teach common mineral uses and properties, is already up and reached more than 200 people in the first 24 hours alone. We are also working on developing an online kit for the “Think Like an Engineer” presentation and components we taught at our Girl Scout Lock In. Our local Girl Scout Council has been diligent in putting out digital content and we are going to work with them to get our materials distributed to their scouts.



I am very proud of the partnerships we’ve built, the number of kids we’ve reached, and the service culture we’ve created. We have done an exceptional job diversifying the groups we work with and expanding our reach and variety of programs. The work we do creates a positive connection to mining for the kids of all ages we work with and boosts our members social skills. More than that it has become a central part of our organization, we bond through these events and we are united as a fixture of our community by the impact we have. I believe our work will have long lasting positive effects and continue for years to come.

Jessica Nelson

Outreach Chair, 2018-2021



Recruitment

Recruitment Events 2019-2020

Event	Date
Engineering New Student Orientation	August 22nd
Campus Cookout	August 27th
First Year Engineering Mining Presentation 1	October 10th
Fall Engineering Open House	November 2nd
First Year Engineering Mining Presentation 2	November 18th
Freshman Peer Mentoring Session	February 18th

Recruitment Events Cancelled Due to COVID-19

Event	Date
Spring Engineering Open House	April 11th
Freshman Blackhawk Mine Tour	April 17th - 18th

We believe our department, our organization, and the mining industry have many things to offer. We are committed to hosting and attending events that give prospective students the opportunity to see everything mining has to offer. Our students have given up their own time to become ambassadors and mentors, reaching students through tabling, tours, presentations, and social events with experienced students.

Though we are unable to continue in person recruiting for the remainder of the spring and summer, we are remaining available through our peer mentoring program for freshman students and virtual receptions for interested high school seniors, as well as building a presence on our Instagram page that is targeted to prospective students. No matter the circumstances, we will continue to evolve and shape the future of this industry and the people in it.



Description of Events

The following is a brief description of each event undertaken by UK SME in the 2019-2020 year.

On Campus Events

Women in Engineering Explore Camp Workshop: June 18th, 2019

Our SME chapter and mining engineering faculty came together to guide high school girls through 4 workshops covering mineral processing, autonomous shuttle cars, 3D printing, and explosives, finishing up with a web puzzle activity covering properties of mined materials. This event impacted 80 girls.

Engineering New Student Orientation: August 22nd, 2019

This event was put on by the College of Engineering and invited student organizations to table and speak to incoming freshman students. SME attended to promote our chapter as well as other student activities in the department including ISEE and Women In Mining.

Campus Cookout: August 27th, 2019

Each year our chapter hosts a cookout at our building to welcome any prospective students and invite new members to join the group and get to know their peers in a casual environment, as well as solicit advice from upper classmen.

Tailgates: August 31st, September 7th, September 14th, October 12th, October 26th , November 9th , November 23rd, November 30th 2019

Every year our chapter hosts sponsored tailgates to give our students an opportunity to network with industry professionals and peers in a casual setting. These tailgates also serve as our major means of fundraising to support travel to the SME National Conference. This year we hosted 8 tailgates with 22 total sponsorships, which led to 18 students attending the national conference and vast industry connections being made.

Wildcat Cage Fundraising Competition: September 5th, 2019

This is an annual competition organized by the Director of Industry Engagement for UK's College of Engineering that offers student organizations the opportunity to pitch for funding from companies and the college. This year we pitched our outreach program and were awarded \$1,750 and recognized as a top presentation of the competition.

First Year Engineering Mining Presentation 1: October 10th, 2019

As part of our recruiting efforts, our chapter invites freshman to come learn about the department, see demonstrations, eat dinner, and chat with our student leaders to see what mining engineering and our student organizations have to offer them.

KGS Open House: October 16th, 2019

The Kentucky Geological Survey on UK's campus hosts an annual open house for the public. Our chapter volunteered to set up and run our virtual sandbox for the event. During this event we



interacted with a wide variety of people including a middle school science class, teachers, representatives from Canoe Kentucky, and the CEO of our local Girl Scouts, which led to further opportunities for the chapter.

Fall Engineering Open House: November 2nd, 2019

The College of Engineering hosts open houses to display student organizations and all the college has to offer. UK SME attended and interacted with engineering students to promote interest in mining engineering.

First Year Engineering Mining Presentation 2: November 18th, 2019

Similar to presentation 1, first year engineering students were invited to our building to see demonstrations and discuss mining engineering and student organizations with current students.

Freshman Peer Mentoring Session: February 18th, 2020

Our chapter paired freshman students demonstrating interest in mining engineering with some of the most active members of our chapter. At this event, refreshments were provided and students met with their mentors to get to know one another and to get advice from upper classmen.

Engineering Day: February 22nd, 2020

Engineering day or “E-day” is the largest event put on by the College of Engineering each year. Thousands of K-12 students and their families attend for interactive demonstrations and activities from numerous groups and organizations within the college. UK SME attended with several activities to promote the mining industry to the general public.

Girl Scout Lock In: March 6th-7th, 2020

The Girl Scout Lock In is one of our major outreach programs. This was our second year hosting high school girls overnight to learn all about the mining industry through hands on activities. This year we were able to incorporate requirements of the Girl Scout’s “Think Like an Engineer Journey” by teaching design thinking through a presentation and 2 activities that were worked on by teams of girls, each led by a UK SME member. On Saturday morning the girls were rotated through mining engineering workshops, each led by 2 UK SME students. This year’s workshops were: flotation, electrostatic separation, circuits, a shipwreck challenge, and an escape room with puzzles covering mineral identification and common uses as well as a build your own processing circuit. At the end of the event we gave out surveys and received great reviews. Many of the girls were interested in attending the Lock In again or other programming put on by UK SME.



Off Campus Events

Coal Camporee: September 28th, 2019

Coal Camporee is an annual event put on by Boy Scouts of America on a reclaimed mine site in Hazard, Kentucky. Five SME members travelled to Hazard to teach Mining in Society merit badge requirements to several hundred scouts using a challenge course containing surveying, mineral identification, and puzzles. We were told our program peaked many scouts' interest and that troops were contacting a local merit badge counselor to help them complete the badge after the event.

Kentucky Coal Association Annual Meeting: October 10th-11th, 2019

SME members were invited to attend the KCA Annual Meeting free of charge. This provided students the opportunity to network with leaders in the industry in a professional setting.

Tema Isenmann Plant Visit: November 9th, 2019

Tema Isenmann is a polyurethane screening manufacturer based out of Lexington, Kentucky. SME arranged for students to tour the manufacturing facility, eat lunch, and learn about screening from their experts.

SME National Conference: February 22nd-28th, 2020

The SME National Conference is a highlight of our year. Eighteen student members attended to hear technical sessions, visit the exhibit hall, network with industry leaders, and compete in the mine design competition. Much of our funding was used to cover the expenses related to this trip.

Cardinal Valley Elementary School Visit: March 5th, 2020

SME student members visited a local elementary school 5th grade class to teach them about coal mining, where coal is formed, how coal is found, and how we extract coal from the ground. Members gave a presentation, showed the students PPE and mineral kits, and led them in 2 activities teaching where coal is found and decision making in mining.

Virtual "Murder Mystery" Social: April 29th, 2020

SME members had a social gathering over Zoom with a murder mystery game to stay connected during the quarantine.

Virtual Mining Engineering Department Reception: May 14th, 2020

Graduating high school seniors were introduced to mining engineering and welcomed to the department through a video conference in which professors discussed the industry and SME student members discussed their experiences.



Membership List

The following is a list of all chapter members for the 2019-2020 year. The highlighted names are members of the national SME organization.

Ajmi, Muntadar Jamal Matouq	Milan, Andrew
Al Hajri, Said Humaid Said Humaid	Miller, Sibley
Al Kharusi, Al Muataz Salim Nasser	Morgan, Zack
Al Kharusi, Mahmood Rashid Nasser	Morgan, Elliott
Al Saidi, Sultan Hamed Khasib	Mullins, Katie
Blankenship, Austin	Nasradinov, Timur
Cachares, Ben	Neal, Daniel
Cannon, Jake	Nelson, Jessica
Chastain, Jackson	O'Donnell, Clayton
Clark, Lane	Ohab, Adam
Clements, Sarah	Parris, Colt
Collins, Owen	Pena, Stephanie
Connell, Dylan	Pena, Christian
Cox, Elizabeth	Pennington, Lauren
Craig, Kinley	Pillar, Anabelle
Cross, Matt	Pitcock, Wenjie
Dallemagne, Paul	Power, Ryan
Dawalt, Chris	Ressler, Kyle
Desnoyer, Kyle	Riffle, Jackson
Doeringer, Tait	Ross, Leonard
Elling, Nicholas	Russell, Jack
Finney, II, Jack	Sabedra, Collin
Floyd, Kullen	Scheidhauer, Kevin
Fulsang, William	Schroeder, Ryan
Gerwig, Caroline	Shields, Lauren
Goggin, III, Tate	Short, Hailey
Hart, Zebulon	Sorrells, Mark
Henson, Audry	Stankus, Vytas
Hoover, Samuel	Strong, Caitlin
Hudson, Nathan	Strothman, Justin
Johnson, Cameron	Styer, Abigail
Karr, Richard	Thurman, Kayla
Lawhorn, Jr, Mark	Van Den Berg, Dirk-Philip
Long, Michael	Wagner, Grant
Lyles, Wade	Walker, Kevin
Martin, Daniel	Walton, Garrett
McKinney, Tyler	Watkins, Brian
Mengelberg, Matthew	Wedding, Zachary
Milan, Tim	Wohlwender, Clay



Presidential Outlook 2020-2021

To whom it may concern,

Next school year will be exciting yet demanding for the Norwood Chapter. The effects of Covid-19 have certainly impacted last year's chapter, I hope our organization events will not be hindered by the virus next year. We are planning for the best- and worst-case scenarios. Our main focus will be to promote involvement from members no matter what our circumstances are. Our executive team will continue to explore ways to recruit new members into the Mining Engineering program.



The fundraising tailgates are a big part of our company and member recruiting. At tailgates, students have the opportunity to connect and interact with company representatives and faculty. These events help bridge the gap between industry and academia. Many students have secured full time or internship positions from these events. The company sponsorships also help to raise money for the annual SME conference. We plan to continue these tailgates

and promote member attendance to such events. Our officers are planning to host additional social events for all members to come to. This would include an organized event to a sports game or fun activity. Everybody must feel welcomed to the organization.

Next year we will increase our involvement on campus with our sustainability project. This project aims to improve our ability to produce and reuse precious resources such as valuable metals and electricity. The project will be an excellent opportunity for all members of SME to get involved outside of classes.

This year was marred by the effects of Covid-19. The pandemic shut down the University of Kentucky for

half of the second semester. This halted many of the events last year's team had planned and forced them to learn new ways to reach the membership and community in a short time period. Every member was sent back to their homes and cut off from in person activities with the mining community. We were lucky to be able to travel to the SME 2020 conference. The UK Muckin' Wildcats were not so lucky: their annual competition in Colorado was canceled due to the virus. The disease has impacted our community in terrible ways and has left a big challenge for the leadership team. We must plan events with the knowledge that the University might continue academic experiences in an online format. This will prove a huge challenge for the officers to face.



Our main goal for the 2020-2021 year is to build on the previous year's accomplishments and to increase involvement within our community. This especially pertains to the younger classes of



the department. We will have to reach out to the undeclared freshman to recruit and grow as a chapter. Our class must teach them to run the chapter so they will be prepared when their time comes.

Sincerely,

Richard Karr

President, SME Norwood Chapter 2020-2021



Closing Remarks

In conclusion, despite the challenges set before us in a changing world, we believe we had an exceptional year. We continued to grow our impact and develop our members. We adapted to new ways of connecting with the potential students, with our community, and with each other. Most importantly we stayed focused on our goals: Engaging Students, Increasing Opportunity, Impacting Communities. We are proud of the work we do and we are excited to continue the mission next year. Thank you for your consideration.

