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10 May 2019

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 2018-2019 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 semester 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, 2019. A total of 22 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 Denver. 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 earned by soliciting sponsorship for our Annual Boy Scout Merit Badge Fair, where 70 area Scouts had the opportunity to earn any 2 of 10 merit badges offered. All instructors were UK Norwood Student SME Chapter members or UK Mining Engineering faculty. The event was free to the Scouts and lunch, snacks and instructional supplies were paid for through generous sponsorship.

This year, students also managed to arrange a similar new activity where a total of 13 high school age girls attend our first Girl Scout STEM Lock-in, an overnight event where girls have the opportunity to learn about STEM topics taught by girls in our Student SME chapter. Topics included 3D printing, surveying, mineral processing, automation, geology, and even included a trip to the UK Observatory for an astronomy activity led by girls from the NASA physics program at UK. 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; students participated in 15 different outreach events throughout the year, providing the opportunity to share the importance of mining with over 400 elementary, middle, high school and college students. These events focused on activities such as science fairs and career exploration events. Another new outreach activity was for our students to serve as mentors to a local High School Girls STEM club, attending regular meetings and sharing their enthusiasm for their chosen careers. Additionally, a group of eight student volunteers spent a cold, rainy
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 crouching and mineral identification.

Students earn points for participation in outreach and fund-raising events, and those points are used to determine who can attend the SME Conference as well as participate in other travel opportunities. In this manner, students earn their participation based upon their commitment and willingness to serve.

Students also participated in several competitions as well, including SME Mine Rescue, SME Mine Design, Goodman Gold Challenge in Sudbury Ontario, and the 42nd Annual Collegiate Mining Competition in Virginia City, NV. Eight students attended the ISEE Conference in Nashville, TN. Several tours were also held, including the Tema Isenman screen manufacturing facility in Lexington, KY, a local Vulcan aggregate mine, Fairchild Mining Equipment factory in Huntington, WV and Matterhorn Boot Camp in Martinsburg, PA where six students had the opportunity to watch their own custom safety boots being made. Another highlight this year was a tour of the EW Brown Generating Station to see how coal is utilized to generate electricity. What is particularly unique about this facility is that they also have natural gas turbines, hydro and even solar generating capabilities. Once again, students were responsible for all of the planning and generating the necessary funds to attend each of these events.

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 held 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 remarkable group of students who have given their time so unselfishly throughout the year. It is truly extraordinary how much could be accomplished by so few. This could only be possible with truly excellent student leadership, organization and cooperation. I truly believe the UK Norwood Chapter is most definitely deserving of the SME Outstanding Student Chapter Award for their enthusiasm and commitment to excellence.

Sincerely,

Dr. Jack Groppo
Professor of Mining Engineering
University of Kentucky, Lexington, KY 40506
jgroppo@uky.edu
859-337-1060
May 10, 2019  

Award Selection Committee  
SME Outstanding Student Chapter

Subject: Recommendation Letter for the Univ. of Kentucky Norwood Student Chapter of SME.

As a faculty member in the Department of Mining Engineering at the University of Kentucky, I have had multiple opportunities to witness and actually participate in the activities of the Norwood Student Chapter of SME during the previous academic year (2018-2019). The members of the Norwood Chapter were extremely active in a multitude of events throughout the year, which included industry engagement, recruitment, fund raising, community outreach. Despite a heavy class schedule and the fact that these activities overlapped, the UK Norwood Student Chapter of SME students were always present, engaging and ready for action. During the fall semester there were activities scheduled for Wednesday evenings, and weekends, and included industry seminars to all students, and tailgate events at the UK football home games. Different activities took place in the spring including the trip to the SME annual conference, the trip to the ISEE annual conference, outreach activities to local elementary schools, participation in science fairs, a Boy Scout Merit Badge Fair and others.

Overall, our students met and interacted with industry representatives from numerous sectors (coal, aggregate, consulting, utilities, etc.) and many of them utilized these opportunities to secure summer internships as well as permanent employment. In addition, the students were very active in recruiting from the UK Freshman engineering class and participated in numerous guided tours of our department and facilities of prospective Freshmen and their families.

Members of the UK Norwood Student Chapter of SME also participated in the Collegiate Mine Rescue competition as well as the International Mucking Games which were held in Nevada. Students also participated in numerous other competitions such the Goodman gold challenge (Canada), the SME Mine Design Competition (1st place).

It is with great pleasure, therefore, that I strongly recommend and support the Univ. of Kentucky Norwood Student Chapter of SME for the SME Outstanding Student Chapter Award. I am sure that other student chapters are equally active, and have impressive credentials, but I truly believe that this past year, our SME student chapter, excelled on multiple fronts, and raised the bar for many student chapters and groups in the US and abroad. Although the Norwood Student Chapter of SME is not a large chapter with respect to the number of student members, their leadership in promoting mining engineering, their effectiveness in interacting with industry and other colleagues, their commitment to excel as professionals in the mining industry and their accomplishments in the short time period of an academic year, is remarkable and in my opinion they truly deserve this award.

Sincerely,

Dr. Zach Agioutantis, PE, PhD  
Mining Engineering Foundation Professor  
Department of Mining Engineering  
University of Kentucky
Acknowledgements

The success of our efforts this school year could not have been done without the help of the dozens of individuals that selflessly dedicate their time, talent, and energy toward bettering the experience that SME offers to students and to the community. Although the contributions of every person who assisted the chapter this year were needed and appreciated, there is a group of individuals who went above and beyond to help the chapter succeed and to assist students in helping themselves grow personally, as well as professionally. The individuals listed in this section are held to the highest level of respect and gratitude from the chapter and their skills and dedication make a true difference.

Faculty Sponsors

**Department Chair:** Dr. Tom Novak  
**Faculty Advisor:** Dr. Jack Groppo  
**Faculty:** Dr. Zach Agioutantis  
Dr. Jhon Silva-Castro  
Dr. Rick Honaker  
Dr. Steve Schafrik  
Dr. Joseph Sottile  
Dr. Josh Werner  

**Staff:**

**Staff and Student Support Associate:** Ms. Megan Doyle  
**Student Services:** Alycia Tydrick  
**Office Manager:** Mrs. Adriane Russell  
**Laboratory Manager:** Dr. Josh Calnan  
**Recruiter:** Mr. Ron Robinson

Industry Sponsors

A special thanks to Tyler White of the Kentucky Coal Association. Tyler was instrumental in helping the chapter with fundraising events through communicating to his organization’s members as well as providing financial and physical resources that were extremely valuable in the chapter’s events this year. Additionally, Steve Gardner and Karen Rose of ECSI/SynTerra Corp. Mr. Gardner has served SME on a local, regional, and national level in the various roles; more specifically, Mr. Gardner has served the local Norwood chapter for many years by sponsoring our events and making himself available for consultations and ensuring that we were notified of professional events he felt would benefit chapter members through attending. Mrs. Rose is responsible for the success of the Boy Scouts of America outreach events, such as the Kentucky
Coal Camporee and the UK SME Merit Badge Fair. Without her in-depth knowledge and connections to those in the Scouts organization, we would not have been able to provide such well-rounded and well-received events to the Scouts in our region.

Corporate Sponsors

The following companies are those responsible for the financial contributions that made our outreach events and trip to the National Conference possible. These companies sponsored our fundraising tailgates during the 2018 Kentucky Football home game season.

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<tr>
<th>Hinkle Contracting</th>
<th>Kentucky Coal Association / Friends of Coal</th>
<th>Blackhawk Mining</th>
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<td>Wirtgen Group</td>
<td>Tema Isenmann</td>
<td>Alliance Resource Partners</td>
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<td>The Mosaic Company</td>
<td>LG&amp;E / KU</td>
<td>Victaulic</td>
<td>Liberty Mining Consultants</td>
<td>Kentucky River Properties</td>
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<td>Steptoe &amp; Johnson</td>
<td>Charah Solutions</td>
<td>Professional Engineers in Mining</td>
<td>Coronado Coal</td>
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Recruiting Sponsors

Some of our sponsors prefer to offer professional information sessions in addition to financial support. The following companies provided educational sessions as well as site visits for chapter members in order to further their knowledge of the industry through site tours and to help further the chapters goals in the form of monetary support.

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<th>Alliance Resource Partners</th>
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<td>TEMA ISENMANN</td>
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SME Young Leader Advisor

Taylor Ball was designated as our chapter’s Young Leader Advisor. Taylor resides in Chicago, IL; however, Taylor was never more than a phone call, email, or text message away for advice and was in Lexington often throughout the school year. Seeing that Taylor served as the SME Norwood Student Chapter President from 2015-2016 and currently works in the industry, Taylor has provided a tremendous amount of advice and has had a massive impact on improving the leadership skills of the executive team and helping establish lasting connections with industry professionals. Taylor met with members of the executive team at the SME National Conference in Denver to discuss progress made throughout the year and how to improve for the coming school year.

Graduate Student Advisor

Laura Steeves served as the Graduate Student Advisor for the 2018-2019 school year. This position was “unofficially” created by Russell Lamont during his time as a graduate student a few years ago (“unofficially” meaning the position is not technically listed as a position in our bylaws but has proven to be a meaningful position and provides a benefit for the chapter). Ms. Steeves provided valuable feedback and advice for the chapter throughout the year. Her input was always respected as she previously served on the SME Norwood Student Chapter executive team and would provide insight as to what her team would have done in a given situation or perhaps how she would have changed an event based on previous experience.
Overview

The purpose of the SME Norwood Chapter is to connect students with professionals in the mining industry, provide community outreach, give students a way to connect with each other outside of class, and ultimately give students the opportunity for personal and professional growth that they would not get in the classroom. It is the responsibility of the President and Executive to ensure that this purpose is met.

The student chapter hosts weekly meetings with corporate partners to connect students to the industry. These companies provide an information session on their business and provide students the opportunity to interview for real employment opportunities, both internships and full-time. Every student that graduated this academic year did so with a career already begun, whether that was in graduate school or the mining industry. In addition to this, every student who desired an internship for the coming summer had the most opportunity of any year at the University of Kentucky due to these numerous companies coming into interview. The Fall Semester is our major interview season with companies, and this year we did not have a single week off without a company coming to present. Companies were actually still calling the Mining Department and members of the Executive Team to try and see if there were still students searching for internships.

In addition to this, providing community outreach has always been of the utmost importance to this chapter, for many years the students have devoted their time to teaching children about the positive impacts of the mining industry. After last year’s introduction of a Head of Outreach position, we experienced tremendous success in terms of providing educational events to as many students and young people as possible in our community. Similar to last year, the efforts of our expanded focus on outreach were outstanding, reaching nearly 4000 students in our area through various science nights, conferences, the Kentucky Coal Camporee, and our Annual Merit Badge Fair.

The chapter also provides ample opportunities for our students to socialize outside of class, from all the trips we attend to weekly meetings and events. These events are what fund our trips and provide the outreach we so greatly value. Given the rigorous nature of the mining engineering program, the students need outlets to keep their spirits up, as well as benefit their professional and personal skills. It is through this hardship and volunteering that has created the group we know and love. The students in this chapter could not be a more closely knitted group, we tell people it’s like a family, and we really mean that. These are lifelong friends we have all made here and we are truly grateful for it.

We would like to thank all of the faculty, staff, industry, and students who made this past year be such the success that it was. Through hard work, determination, teamwork, and a lot of coordination, we had arguably one of the most successful years in our chapter’s history, which is a lot when considering the successes of last year’s team. Every Executive Team sets out to be better than the previous and more is expected of each team year after year and they always have and will deliver. With next year’s team already elected, and most of them having SME officer experience already, I am very confident they will deliver on all levels and have an even better year than we did. We wish them the best and know that they will continue this Chapter’s reputation among the best.
Executive Committee Reports

President’s Report

It is hard to put into words how much I have grown as a person and as a professional during my time as President of the SME Norwood Student Chapter. When I was first elected as President last year, I had just completed a term as the Chapter Secretary under Chandler Absher’s Presidency. I was nervous that I would not live up to the expectations of the chapter and that I would not be able obtain the same success as last year’s team. However, the nerves of not meeting expectations were immediately thrown out as soon as the school year began and I recognized the quality of individuals I was working with every day. The chapter members, the executive team, the students, the faculty, the sponsors, and all the volunteers that we encountered this year made this the most rewarding experience of my life.

This chapter is one of the most unique organizations I have ever been a part of. I believe this is due to the fact that our members are closely acquainted from coursework and extra-curricular activities. Therefore, it was an easy, seamless process to coordinate events throughout the year because everyone operated on the same page, like a well-oiled machine. The executive team worked together as if they had been colleagues for many years, even though 60 percent of the team had never served as an officer for SME before.

We set goals at the beginning of the year, just as every successful executive team had done before us. However, this year felt different. The state of the chapter was excellent as the previous team had budgeted, recruited, and managed all facets of the organization to near perfection. Therefore, it was our responsibility to keep pushing for more success through better fundraising, aggressive recruiting, and expansive outreach. Our first goal was to reach 100% employment for undergraduate members as well as students graduating from the department. Although this goal was largely based on the availability of perspective companies, we felt that this was still attainable based on the fact we were near this goal last year. Second, we wanted to host as many outreach events as possible in order to expose the next generation of leaders to the various opportunities in our industry. Thirdly, we wanted to build upon the recruiting success from last year as our chapter had to continue to innovate new ideas to bring potential students in from the UK’s new common freshman year program. And finally, we wanted to ensure that the experiences that our members had with SME were meaningful and enjoyable by constantly asking members for feedback on making events more approachable and more purposeful.

One of the main priorities of each executive team is to fundraise as much as possible in order to send as many members as possible to the SME Annual Conference and to support the many outreach events we host during the year. Our primary fundraising ventures were the Friends of Coal & SME Tailgates that took place during each UK Football home game. These tailgates allowed companies to purchase sponsorships in exchange for football tickets and parking passes. This also created an environment for employers and members to interact in a less formal environment, allowing for the enjoyment of company and entertainment of football. To begin the process, the Vice President, Bryce Maikranz, and I met with the Kentucky Coal Association President Tyler White. Tyler allowed us to use resources owned by Friends of Coal and provided advice as to how to maximize the amount of revenue generated by each tailgate while also creating the best possible social event for those who attended. Bryce and I then reached out to various companies to request sponsorships for these football games. As expected, we received immediate requests for game sponsorships because of our wonderful relationships we have established with
companies throughout the years. The generosity of our corporate partners and their willingness to sponsor these events are critical if we plan to succeed as a chapter.

In order for the chapter to succeed each year, the supporting positions and actively involved members must be striving to reach all of the goals established at the beginning of the year. This year, our executive team appointed new members to the supporting roles of Head of Outreach, Head of Activities & Fundraising, and Head of Recruitment. These roles are extremely important for our success and allow for a divide and conquer approach to the workload of activities throughout the year. Without these positions, we would not have had the success and high amount of organization for our tailgates, science nights, merit badge fairs, and open house events.

The approach of delegating responsibilities and empowering younger members in our chapter was wildly successful. With Jessica Nelson’s leadership, we successfully affected thousands of students in the Lexington area through our outreach events and her dedication to teaching the next generation about the benefits and opportunities of mining. Kayla Thurman was appointed the Head of Recruitment for the second time based on her high success of last year by recruiting dozens of students from the common freshman program into our department in their sophomore year. Again, Kayla exceeded expectations and brought more freshman to the department and convinced many of them to join the community of the SME Norwood Chapter. With regards to fundraising, we had a record year by filling 20 out of 21 sponsorship slots, providing a near-perfect fundraising season. Under the leadership of Devin DuPont, each and every tailgate was an extreme success with many sponsors complementing our backyard cookout-style food and satellite television coverage of football games across the country while preparing for the UK game later that day. The success of these events was widely recognized as two companies have already signed up for sponsorship slots for next year, nearly five months prior to the season. I am confident that next year’s team will have more success and exceed expectations of sponsors.

Our chapter also takes pride in the multitude of events our members take part in each year. Many of our members are active in multiple or all of the mining clubs offered in our department. All of these clubs compete in national competitions and attend various conferences and events throughout the year. Our chapter entered in the SME and NSSGA Mine Design Competition this year. I had the honor of being a part of this team with four other members and am excited to say we won the competition for the second year in a row. We sent a team of seniors to Goodman Gold Challenge in Ontario, Canada to compete in a financial and economic event, where they placed third in their division. Our Mine Rescue Team, also known as the ReseUKats, won the national championship and placed second in a regional event this year. The ReseUKats team is known as one of the best collegiate teams in the United States and they have plans to attend the industry competitions next year. Our Mucking Team, known as the Muckin’ Wildcats, competed in the Annual Mucking Games in Nevada this year. In addition to the various competitions, several of our members had the opportunity to visit Tema Isenmann, J. H. Fletcher & Co., Matterhorn Boot Company, and the SME Annual Conference.

Upon reflection of the past school year, I am proud to say that we met all of our goals and provided a meaningful experience for our members. The connections we made and friendships we created will last a lifetime. At this point last year, I was preparing for my time as president and I knew that this would be one of the most challenging and rewarding experiences of my life. Without the help and dedication from the executive team, the supporting roles, the faculty, the members, and our chapter advisor, this year would have certainly turned out much differently and we could not have achieved the amount of success and organization of each of our events. It is an exciting time to be
a part of the SME Norwood Chapter at the University of Kentucky and I am confident that next year’s executive team will achieve great things as the President and Treasurer have had previous leadership experience in the chapter. I am grateful for the experience of serving as President of the Norwood Chapter of SME and I know this chapter will continue to grow and flourish in the years to come.

H. Blanton Park Jr.
President, SME Norwood Chapter 2018-2019

Vice President’s Report

During my four years at the University of Kentucky, SME Norwood Chapter has provided many opportunities for me to make connections with other mining students, mining companies, industry professionals. SME has provided opportunities to give back to the city of Lexington, teach in Boy Scout Camps, and engage young students through science fairs. Overall SME has provided opportunities for me to challenge my communication skills and grow in leadership. The 2017-2018 school year I got the opportunity to serve as the Engineering Student Council Representative and this year I served as the Vice President of the Norwood Student Chapter. In this brief write-up I hope to illustrate successes and experiences that took place over the past year for the SME Norwood Student Chapter.

As Vice President I worked closely with the President, Blanton Park, and other officers and committee heads to engage mining students with community and invite them to be more involved. The committee heads were positions developed in the 2017-2018 year and continued in the 2018-2019 year. The committee heads give opportunity for more development within their specific areas. The three committee head positions are as follows: Fundraising Head, Outreach Head, and Recruitment. Because of the dedication of each committee head the SME Norwood Student Chapter was able to exceed previous years involvements and events.

The University of Kentucky changed the engineering program so that incoming freshman cannot pick their focused route of engineering until their junior year. The new policy could have restricted freshman from getting involved. To combat the policy, our recruitment head was able to develop a program to connect freshman and sophomores to upperclassmen. The program proved its effectiveness. During both the fall and spring semesters we saw many freshmen involved in weekly SME activities, events, and intramurals sports. The SME Norwood Chapter took a freshman to the annual SME conference because of their outstanding involvement.

In regard to fundraising, our SME chapter is known for its involvement in planning and participation in its industry-sponsored tailgates, which are the primary source of income for the chapter. Over the years, SME has developed many lasting relationships with mining-related companies and continued relationships with former SME Norwood Student Chapter members. The tailgates provide an opportunity for students to interact with industry professionals, mining companies, and University of Kentucky alumni in a non-formal way. Personally, I had the opportunity to network with a variety of companies, one of which I agreed to work with full-time after graduation. Our chapter was able to fill twenty out of twenty-one tailgate sponsorship slots. This is significantly more than previous year. The fundraising committee was also able to acquire $500 from a competition within the University of Kentucky. The $500 was used to further develop the chapters outreach.
In both the fall and spring semesters the SME chapter was heavily involved with community outreach. For many years, SME has been able to connect with local schools and communities. Through these relationships, SME has engaged young boys and girls with basic mining principles. These events mainly consisted of science nights and career fairs at local schools. The goal was to educate and engage the younger generation about benefits of mining in society and possibly recruit them to consider a mining-related career path. During these events the young students and community members were able to interact with the virtual sandbox, engage with mining students, and ask questions to further knowledge of the mining industry. The most notable event our SME chapter hosted was a Boy Scout Merit Badge Fair. We had around 50 Boy Scouts show up and earn various merit badges. The merit badges ranged from Emergency Preparedness to Drafting by hand and on the computer. The classes were taught by SME student members and professors from the mining engineering department. The Boy Scouts were able to earn badges that they normally wouldn’t be able to because of the lack of resources. In addition to the Merit Badge fair, our chapter was able to revive the coal camporee. The coal camporee is an event where Boy Scouts learn about coal mining while enjoying a camping trip. This is an event that has been put on in the past but not in recent years. Our chapter hosted its first ever overnight Girl Scout lock-in, where the girl scouts were able to also earn their equivalent to merit badges.

Overall, I believe this year within the SME Norwood Chapter was a large step to continue developing involvement of mining students and outreach to the community that the Norwood Chapter calls home. I believe that this year’s officers and committee heads were able to build a foundation to streamline processes for following years officers. I believe that we left the Norwood Student Chapter in a position where it can focus on growth.

_Bryce Maikranz_
Vice President, SME Norwood Chapter 2018-2019

**Treasurer’s Financial Report**

This year UK SME was very fortunate to have a lot of financial support from multiple companies. We were able to gain most of our financial support through sponsorships at our football tailgates. We also received donations throughout the year as well. Although the previous team left us with a significant amount of money, the most important factor was the football tickets for the fundraising tailgates were already purchased, alleviating the financial burden from our team. At the conclusion of this school year, our team also purchased the tickets for next year’s football games, a “pay-it-forward” mentality that helps the next team achieve the most success through financial stability. Below is a month-by-month balance report for the 2018-2019 UK SME.
The biggest expense for the 2018-2019 school year was traveling to Denver, CO to attend the annual SME conference. The UK SME chapter provided students with airfare and lodging for the duration of the conference. The total price for this event was $13,870.10. Another significant event that UK SME spent money on was our football tailgates. Our tailgate expenses included the cost of season football tickets and parking passes for next year’s tailgate sponsors. Our last major expense was hosting a merit badge fair for the Boy scouts of America and a lock-in for the Girl Scouts of America. The total expenditures for the 2018-2019 academic year was $34,182.62.

The fundraising that allowed our chapter to accomplish all that it set out to do came mainly from tailgate sponsorships and from industry supporters. The SME Norwood Student Chapter reached out to various companies and alumni in the immediate Lexington Area and across the United States. We had several companies that sponsored a tailgate last year sponsor again this year for $1,000. After talking with Tyler White, Friends of Coal has once again graciously given us their support and have decided to be our flagship sponsor again for 2019-2020. We received support from companies who have worked with our students through summer internships who want to support our chapter. Another source of revenue was the University of Kentucky mining engineering merchandise sales which we now have a website for (www.uksmestore.com). This year has proved to be a success for both the Norwood Student Chapter and the community.

Kullen Floyd
Treasurer, SME Norwood Chapter 2018-2019

Secretary’s Report

Similar to last year, our primary goal was to increase member involvement. At every event SME was a part of we wanted a greater attendance as well as a greater variety of the students showing up to the event, rather than the same group. The issue with this is the separation of the freshman class with the common freshman class from the College of Engineering. We had a small disconnect with them as well as the sophomores, however we as a chapter overcame this issue. We spoke with the few freshman and sophomores that showed up to our weekly meetings and began talking to them and got them more involved within the department, including sending a freshman on our
SME trip because he was such an active member and earned enough points to attend. To try and shorten the gap in this disconnect we held open house nights at the mining building to encourage the freshman to come and talk to students and faculty. Within the events, the chapter done an amazing job, for nearly two hours each time our chapter members were engaging and answering questions from the freshman students as well as telling the about the many things we have to offer, from job opportunities to our student teams within the chapter.

As secretary, one of my main responsibilities were to keep track of the participation of each member at the outreach events such as; Fundraising Tailgates, Merit Badge Fair, Weekly SME Meetings, Open Houses and the many other events we are a part of. To keep an accurate record, the Norwood Chapter uses a points-based system where the members have a chance to earn points based on their involvement. These points are how a member earns their trip to the National SME Conference, they each are given the same chance of points, it is upon themselves to earn their points. Below is a breakdown for the points system uses.

<table>
<thead>
<tr>
<th>Event</th>
<th>Points Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting Setup</td>
<td>1</td>
</tr>
<tr>
<td>Meeting Attendance</td>
<td>1</td>
</tr>
<tr>
<td>Meeting Take Down</td>
<td>1</td>
</tr>
<tr>
<td>Tailgate Setup</td>
<td>2</td>
</tr>
<tr>
<td>Tailgate Take Down</td>
<td>2</td>
</tr>
<tr>
<td>Freshman Open Houses</td>
<td>3</td>
</tr>
<tr>
<td>Merit Badge Fair</td>
<td>4</td>
</tr>
<tr>
<td>Girl Scout Fair</td>
<td>4</td>
</tr>
</tbody>
</table>

For the incoming secretary, they have not at this time planned to do anything different from the past secretary other than to be adamant about posting to the SME Norwood Chapter’s Facebook page (@UK SME Norwood Chapter). As well as working with the president to ensure everyone is receiving their fair amount of points for each event he or she attends.

*T. Brian Watkins*
Secretary, SME Norwood Chapter 2018-2019

**Engineering Student Council Representative’s Report**

The SME Norwood chapter is one of several engineering organizations at the University of Kentucky. Our chapter has excellent connectivity and participation within the College of Engineering. The Engineering Student Council (ESC) holds monthly meeting with a representative from every extracurricular engineering organization to organize and discuss various events and opportunities within the College of Engineering. For example, the Engineering Student Council held a Shark Tank completion to give organizations a chance to raise money. SME took the opportunity to gain a significant amount of funds to expand their outreach program. This also allows SME to have a voice in democratic decisions within the College of Engineering. An example of this is where the President of the ESC proposed that we join the national ESC and
opened the council to a debate and election about the decision. This was a good opportunity for the SME Norwood chapter to be involved in another national organization.

Not only does the ESC representative of SME required to participate in the ESC, but the holder of this position must also form and organize intermural sports teams for the organization. From recruiting students to ensure that the teams have an ideal number of players, to coaching the teams for maximum success, the ESC representative plays an integral role in the intermural teams. This year, SME had a men’s basketball team with a successful season that lasted until late in the university intermural tournament. SME is looking forward to another great year in basketball and to expand into other sports such as co-educational flag football and softball. Intermural sports are excellent for the organization in that they help students get to know each other, build teamwork, exercise, relax, and build pride in the chapter.

As an elected officer of the Norwood Student Chapter, the ESC representative is responsible for ensuring that SME continues to set standards of class amongst other engineering student organizations. Our goal is that members of our chapter take these standards and values and apply them to their professional careers to represent not only SME in a good light, but the University of Kentucky and Mining Industry as a whole.

Adam Ohab
ESC Representative, SME Norwood Chapter 2018-2019

Head of Outreach’s Report

As the Outreach Chair of our chapter, it was my duty to coordinate outreach requests and organize our existing outreach programs for the year. I wanted to do everything in my power to continue expanding on the solid outreach program we have had in the previous years, to reach more children, and to add interesting new hands-on activities to the programs we put on.

This year has been one of great growth and achievement for our outreach program. One of our major goals as a chapter this year was to improve our already strong outreach program. Our leadership team knows outreach helps to change the public perception of mining and brings new potential students into the department, and possibly the profession. Outreach also provides a fulfilling opportunity for our student members to give back to an organization that has given a lot to them, and for them to take pride in, and be an ambassador for, the profession they are passionate about. Our members recognize the impact outreach can have and they have been determined to help bring that impact to the next generation.

Our programs this year included our existing partnerships with the local school system and the Boy Scouts, but for the first time, we were also able to add Girl Scouts. Through each of these partnerships, we talked to nearly 1,000 students directly, many of whom were being introduced to the idea of mining engineering for the first time. We are extremely proud of the reach we have had and the increased diversity of the students we are reaching. We hope to continue to have this broad reach in the coming years.
2018-2019 Programs

- Henry Clay High School Girls STEM Club Visit
- Boy Scout Coal Camporee
- Girl Scout Mining Engineering Lock In
- Boy Scout Merit Badge Fair
- Yates Elementary Science Night

A big accomplishment for us was successfully starting the Girl Scout Lock In. We were able to host an overnight program for the scouts offering mining and mineral activities, a 3D printing demonstration, a visit from NASA KY, and a planetarium visit on Friday, followed by six workshops on Mining Engineering topics on Saturday, which were led by fourteen student volunteers. The workshops offered this year were: circuits, surveying, explosives, flotation, electrostatic separation, and an engineering shipwreck challenge. We surveyed all the participants and got rave reviews. We are planning to make this an annual event, and we hope this has established a relationship with Girl Scouts that will allow us to add more programs in the future.

Events like this one have drawn recognition for our chapter. In September Adam Ohab, our ESC Representative, and I pitched our outreach program and the ideas I had for it, to a group of representatives from various engineering companies in the College of Engineering’s first ever shark tank competition. We asked for $250 in funding, but the panel was so impressed they awarded us $750 and urged us to ask for more next year. At the end of the year function, we presented on what we did through outreach this year. The sharks told us they were the most impressed with our work, especially the Girl Scout Lock In, out of the twenty organizations that competed, and one of our funders will be presenting on our organization and the work we did to his company. None of the sharks were from mining companies and none of them were familiar with SME, so this kind of positive exposure and support is invaluable and helped to build the reputation of our chapter in the broader engineering community.

I am very pleased with what we were able to accomplish this year. We had more student involvement than ever, which I believe will carry over into the coming years, and we were able to start our Girl Scout Lock In. Going forward, we will continue to build our reputation and reach through our outreach programming. We hope to be a positive representation of an industry we love and to provide opportunities to the next group of students out there who may want to join us. Thank you for all you do to make this possible.

Jessica Nelson
Outreach Chair, SME Norwood Chapter 2018-2019

Membership, Governance, and Fundraising

Membership Profile

The SME Norwood Chapter had a membership of 29 students who were registered with the national SME organization. Many students participate in chapter activities without being an officially registered member. I have spoken to other SME student chapter leaders about membership and many chapters charge small annual fees (around $20) for membership to the
student chapter in order to help offset the organization’s expenses. For the Norwood Chapter, we do not charge membership dues because our budget allows for it and we try to alleviate any added costs to students as the cost of attending school is already considerably high. The lack of membership charges to the student chapter also helps attract younger students who may not be interested in joining another student organization if it costs money. I have attached a table that includes all students who were active in the chapter this year. The names highlighted in yellow are registered members with the national SME organization.

<table>
<thead>
<tr>
<th>SME Norwood Chapter Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addo, Douglas</td>
</tr>
<tr>
<td>Alegnani, Michael</td>
</tr>
<tr>
<td>Cacheres, Ben</td>
</tr>
<tr>
<td>Chandra, Alind</td>
</tr>
<tr>
<td>Connell, Dylan</td>
</tr>
<tr>
<td>Craig, Kin</td>
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<tr>
<td>Dallemangne, Paul</td>
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<td>Dewalt, Chris</td>
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<tr>
<td>DuPont, Devin</td>
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<tr>
<td>Elling, Nick</td>
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<tr>
<td>Fay, Sarah</td>
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<tr>
<td>Floyd, Kullen</td>
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<tr>
<td>Fulsang, Billy</td>
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<tr>
<td>Gerwig, Caroline</td>
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<tr>
<td>Hart, Zebulon</td>
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<tr>
<td>Henson, Audry</td>
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<tr>
<td>Holmgren, Paul</td>
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<tr>
<td>Kumar, Ashish</td>
</tr>
</tbody>
</table>

**Governance**

The complete Chapter Bylaws can be found in the Appendix, they are accurate and up-to-date. The president serves as an advisory member on all committees. Committee Chairs have been appointed by the president, with approval of the Executive Committee. These committees and their respective chairperson(s) are shown below.

**Program Committee** – Blanton Park, Bryce Maikranz, Brian Watkins, Jessica Nelson

**Field Trip Committee** – Blanton Park, Bryce Maikranz

**Membership Development Committee** – Brian Watkins, Kullen Floyd

**Publicity Committee** – Blanton Park, Brian Watkins

**Outreach Committee** – Jessica Nelson, Abby Styer

**Recruitment Committee** – Blanton Park, Kayla Thurman

**Activities Committee** – Blanton Park, Bryce Maikranz, Devin DuPont
Fundraising

The mining industry continues to prove that it is the best industry in the world as companies are always looking to give back to students and student organizations. As the industry has been growing in the previous couple of years, the amount of support the Norwood Chapter has received has been growing as well. Last year, the executive team had secured 18/21 tailgate sponsorship slots, which was one higher than the year prior. This year, our efforts allowed us to set a new record of 20/21 slots filled for tailgate slots. This could not have been accomplished without the help of our executive team, but more importantly it would not have been possible without the generosity of our tailgate sponsors. We managed to raise over $28,000, allowing us to leave next year’s team with a good financial situation. The details of our fundraising efforts are shown below.

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>SME Section Grant</td>
<td>$1,200.00</td>
</tr>
<tr>
<td>Tailgate Sponsors</td>
<td>$20,000.00</td>
</tr>
<tr>
<td>Corporate Sponsors</td>
<td>$6,500.00</td>
</tr>
<tr>
<td>&quot;Shark Tank&quot; Grant</td>
<td>$750.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$28,450.00</strong></td>
</tr>
</tbody>
</table>

An additional source of income has been the selling of merchandise through our online store (uksmestore.com). The store allowed us to sell our trademark t-shirts, golf polos, decals, pins, and outerwear directly to interested buyers and our vendor could ship these items to the customers, allowing for a faster and seamless process for those wishing to purchase our apparel. The total amount raised from the merchandise sales is not shown as it was difficult to track the combination of online orders, student purchases, cash sales, and credit card sales.

Recruitment

Engineering New Student Orientation

The Monday after campus move in, each student organization set up a booth in the RGAN courtyard and spoke to incoming freshman engineering students about their activities. We invited students to leave their name and email address, so they could be added to the SME email list, as well as invited them to the Welcoming Cook Out. We gave out things like drawstring bags from companies, cups, and stickers. This event was a good way to obtain the interest of incoming students.

Welcoming Cook Out

The first day of classes, SME hosted a cookout welcoming new students and welcoming back returning students. This was a great opportunity for interested students to meet both students and professors in the department. They had the chance to ask students questions about internships, courses, and the culture of the department. This event had a pretty good turn-out considering the timing.
Freshman Info Sessions
The College of Engineering requires freshmen to attend a set number of information sessions hosted by each Engineering Department at UK. During our two sessions, our speakers included our faculty advisor, SME president, vice president, recruitment chair, and two graduate students. Each of the students that spoke had experience with multiple student organizations the department sponsors, as well as experience in internships in different sectors of the industry. After the presentation, students had the opportunity to come to the mining building and eat dinner where they could speak with students and faculty, as well as tour the department and view demonstrations in different labs. Here, they had the opportunity to learn about the research projects the department is taking part in, as well as speak to students about their experiences with the department and industry. These events had a significant turn-out and were fairly effective in drawing students in.

Mentor Program
Students who were interested were asked to give their phone numbers and email addresses to the recruitment chair, Kayla Thurman. She then added them to an email list and group chat so that they could be informed of SME events. This was coupled with a group of upperclassmen being asked to build friendships with the incoming students in order to make them feel more comfortable. This helped new, younger students immediately become more comfortable and feel welcomed to the department, allowing us to have a higher retention number for these students we were able to mentor.

Community Outreach and Education
The SME Norwood Chapter takes pride in the amount of time and effort we put into our community outreach and education events. This aspect of our chapter is arguably the most important as we are one of the few groups that is actively educating and informing the public about the benefits and opportunities in the mining industry. There is a lot of misinformation being spread about the mining industry and few groups that are trying to inform the community about the positive truths about the industry. Therefore, we have taken it upon ourselves to be a part of the effort to change the public’s perception of mining and help educate the next generation of leaders in our industry. Below is a comprehensive list of all the outreach events that the Norwood Chapter participated in this year. We are always trying to expand our outreach efforts and were proud to introduce a new event this year, the Girl Scouts Mining Lock-In, while maintaining all of the events we participated in last year.

Monday Information Sessions
Every Monday in the Fall and Spring semesters interested high schoolers from all over come to the Mining and Minerals Resources Building to listen to our lead recruiter, Ron Robinson, talk about the opportunities found in mining engineering. With him is at least one current undergraduate who is there to talk about their own experiences with our program, answer questions from students and parents, and to take them on a tour of our building and to meet our professors.

Mining Engineering Information Sessions & Open-House
As a part of the new Common Freshman Year instituted by the College of Engineering, students no longer take any classes in their chosen majors until their sophomore year. Mining, mechanical, chemical and civil engineering students all take a common Engineering 101 class. As a part of this
new class freshmen must go to information sessions put on by each department, and the one we put on is hands down the best. We have devoted a lot of attention to these events in the two years since the implementation of the Common Freshman Year curriculum due to the fact that mining engineering is already at a disadvantage to the larger, more common engineering disciplines. Therefore, we must focus as much as possible on providing a standout information session and open-house event in order to recruit the best and brightest students in each engineering class.

With the help of current students and faculty, we give a presentation outlining our program and the benefits of mining. This is the bare minimum the College of Engineering requires, but we go above and beyond. We lead interested students over to our building (free food makes them more interested) and even more students and faculty talk to them and answer questions. Booths are set up on behalf of SME, Women in Mining, Mucking, ISEE and the Mine Rescue Team and professors and graduate students give demonstrations of the equipment they use every day. I’m very happy to say that this year we have successfully a few would-be-other-engineers to mining engineers.

**Aug. 21, 2018: College of Engineering Freshman Orientation**

The College of Engineering Freshmen Orientation allows student organizations (engineering only) to meet interested freshmen looking to get active. SME, Women in Mining, Mucking, ISEE and the Mine Rescue Team all set up booths in the Engineering Quadrangle to get students to sign up.

**Aug. 22, 2018: SME “Welcome Back” Cookout**

As per tradition, the Norwood Chapter hosts a “Welcome Back” cookout every year on the first day of classes. Students set up grills, coolers, and cornhole and enjoy the company of their peers to catch up on how summer internships went and prepare for the coming school year. Students also invite interested freshman from the aforementioned College of Engineering Freshman Orientation to introduce SME and the mining engineering department to potential students.

**Oct. 11-12, 2018: Kentucky Governor’s Conference on Energy and the Environment**

Bringing together, academia, private business, and government, this conference allowed mining engineering students to show off the ingenuity of our industry to conference-goers of all backgrounds. We set up a demonstration and amazed politicians, businesspeople and academics with a show of our skill and knowledge.

**Oct. 17, 2018: KGS Open House**

Every year the Kentucky Geological Survey has an open house for the community and every year we’re asked to join in. Geologists, environmental scientists and mining engineering students answered questions from the public and gave demonstrations of our work to children and adults of all ages.

**Oct. 2018: SME Eastern Collegiate Mine Rescue Competition**

Members of the Mine Rescue Team traveled to Beckley, West Virginia and took first place in smoke room, second place in mine rescue and second place overall in the fall competition against WVU, SIU, VT and Penn State.

And a special thanks to Danny Knott of the Kentucky Coal Academy in Madisonville, Kentucky for supporting and training the team!

Students from SME and Women in Mining met with interested young girls in this informative STEM night hosted by Henry Clay High School. Students answered questions and gave demonstrations about the role of computers, automation, and PLC systems in mining.

Nov. 14, 2018: 2018 Boy Scouts of America Kentucky Coal Camporee

The Kentucky Coal Camporee returned this year in mid-November as Friends of Coal and Kentucky River Properties partnered to create a weekend camping trip in Hazard, KY at a reclaimed mine site for Scouts from all across the region to participate in various activities and badge courses. Six SME members traveled to Hazard for a day to offer courses in Geology, Surveying, and Mining in Society Badges for scouts to attend.

Nov. 2018: Plant Tour at Tema Isenmann

For the second year in a row, Dr. Groppo took students on a tour of the Tema Isenmann manufacturing facility in Lexington, Kentucky. Open to all SME and Mining students, Tema Isenmann hosted a tour of the manufacturing of their world-renowned polyurethane screen decks. This provided students an inside look at the equipment manufacturing side of the industry and an understanding of what goes into the production of screens they will likely see at their internships.

Dec. 2018: ISEE Clay Shoot

Members of the International Society of Explosives Engineers hosted a charity clay shoot with various members of the explosives industry at Elk Creek Sporting Lodge in Owentown, KY.

Dec. 6-7, 2019: 45th Annual Kentucky Blasting Conference

It wouldn’t be a Kentucky blasting conference without student members (mostly mining engineering) from the International Society of Explosives Engineers. Students worked a booth, networked, sat in on technical sessions, and said hello to friends and colleagues in this exciting meeting of who’s who in Kentucky explosives.

Jan. 2019: 1st Annual Girls Scouts Mining Lock-in

One of this year’s goals was to expand our community outreach events. We were happy to create the first annual Girl Scouts Mining Lock-in. A lifelong girl scout and SME Norwood Member, Jessica Nelson coordinated the event, which had demonstrations and courses in Surveying, Chemistry, Mineral Processing, Astrology, Geology, Explosives, and an Engineering Shipwreck Event. This event was a great success and we plan to host this event for years to come and hopefully become a model for other mining schools to offer this event to their local Girl Scout Chapters.

Jan. 27-30, 2019: 45th Annual Conference on Explosives and Blasting

Members of ISEE attended the national ISEE conference in Nashville, TN. Students socialized, sat in on technical sessions and worked a booth.

Feb. 7-9, 2019: Goodman Gold Challenge

Eleven teams: Nine Canadian and two from the United States, battling again to be the best in mining economics. The Department of Mining Engineering was one of only two American schools to send a team to compete in the Goodman Gold Challenge at Laurentian University. The team, composed of four mining engineering students, traveled to Sudbury, Canada in this contest to see
who can give the best evaluation of an emerging junior gold concern and give the best investment pitch to a panel of CEOs, investment bankers, industry executives, and other gold mining professionals.

Feb. 23, 2019: UK Engineering Day

Hosted by the College of Engineering, Engineering Day (E-Day) gives engineering students a chance to teach the local community about what their passionate about and the Department of Mining Engineering has been a part of it since the beginning. Students and professors demonstrated to hundreds of people the importance of minerals in everyday life, the principles of flocculation and electrolysis, the role of mine rescue teams and much more. They answered questions, reminisced about their internships and put a positive face to mining.

Mar. 20-23, 2019: 41st Annual Mining Competition Games

In honor of the 1978 Sunshine Mine Disaster, schools from all over the world travel to compete in events that are not only test one’s strength and dexterity, such as jack-legging, but also their mental prowess, such as surveying. This year, three mucking teams from the University, a men’s, women’s and co-ed team, traveled to Virginia City in Nevada to participate in the annual mucking tournament hosted by the University of Nevada Reno Mining Engineering Department.

Mar. 30, 2019: 4th Annual UK SME Boy Scout Merit Badge Fair

One of the highlights of our annual outreach calendar, the fourth annual Merit Badge Fair was an opportunity for students to make a positive impact on the community. With funding from the Appalachian Section of SME and the UK Shark Tank Fund, we put on an event that will surely be a mainstay at UK and hopefully spread to other schools of mining. The day was split up into two, four-hour long sessions, morning and afternoon and eight badges were offered: Geology, First Aid, Mining in Society, Engineering, Electronics, Farm Mechanics, Drafting, Robotics, and Chemistry. Lunch was provided to Scouts and their families as well as snacks and beverages throughout the day. Current mining engineering undergraduate students, professors in the Department of Mining Engineering and friends of the Department acted as instructors to some 70 Scouts in an effort to teach them more about mining, science, and engineering. And it was all done at absolutely no cost to the Scouts. Hands-on tools and learning aids were used to show the process of mapping geologic structures, performing CPR, soldering a breadboard, panning for gold and much more. Instructors answered questions, provided insight and shared their knowledge with Scouts of all ages about their careers. Current students aided in the education of these Scouts and some even took the lead and instructed sessions themselves. Even the parents got in on the fun, learning and talking to our faculty and students about mining. With this Merit Badge, students gave back to the community and planted the seeds for the next generation of engineers, earth scientists, and miners.

Special thanks should be given to our instructors:

Students:
Brian Watkins (First Aid)  Adam Ohab (Engineering)
Austin Blankenship (First Aid)  Winjie Pitcock (Engineering)
Tim Milan (First Aid)  Audry Henson (Engineering)
Paul Dallemagne (Robotics)  Devin DuPont (Drafting)
Jimmy Rose (Robotics)  Bryce Maikranz (Mining in Society)
Dan Martin (Farm Mechanics)  Kullen Floyd (Geology)

Professors:
Dr. Jack Groppo (Mining Engineering Dept.; Chemistry)
Dr. Walcott (Electrical Engineering Dept.; Robotics)

Friends of the Department:
Karen Rose (Coordination & various badge instruction guidance)

Mar. 31, 2019: SME Eastern Collegiate Mine Rescue Competition
The RescUKats win again! The team traveled to Cadiz, Ohio and took first place in bench, mine rescue, and first overall in the spring competition held against WVU, SIU, and Penn State.

Apr. 25, 2019: Yates Elementary Science Night
An exciting evening for students at the Yates Elementary school in Lexington, KY as SME students provided a multitude of hands on events covering mineral processing, mineral identification, and the benefits of mining in society.

Additional Student Events

SME Mid-Year Meeting and PEM Annual Seminar
In early September, just after the semester began, the Annual PEM Seminar and SME CAS Mid-Year Meeting took place in Lexington. The Norwood chapter attended this event in order to fundraise for the upcoming year’s events. We did so by selling merchandise while promoting our new online store and promoting our tailgate season. This event was a great place to network with corporate partners and gain sponsors that will hopefully continue to sponsor for many years to come.

Department Foundation Meeting
Each semester the Mining Engineering Department holds a Foundation Board meeting in which board members of the department discuss issues that face department. This year, the fall semester meeting was moved to early spring due to weather problems during the scheduled date in the fall. As part of these meetings, the professors give updates on their research projects and the student organizations give presentations on what they have accomplished during the year. The Norwood Chapter attends each of these meetings to show the board members and interested parties what we are trying to accomplish as a chapter. The University President, Dr. Eli Capiluto, also made an appearance and spoke on the importance of the Mining Engineering Department during the first meeting.

Department of Mining Engineering Awards Banquet
At the end of the school year just before finals week the Mining Engineering Department hosts an awards banquet to honor the students. Graduating seniors and graduate students are given hardhats as a symbol of their readiness to enter the workforce. It is a grand event with a catered dinner and many awards and the recipients’ families are even in attendance. The department also honors all
the sponsors of both student organizations as well as the department itself. The Norwood Chapter has the honor of presenting the Outstanding Professor, Senior, and Junior awards voted on by the students during the year. All the awards presented are listed below:

**Professional Engineers in Mining Award:** Luke Thaxton

**Junior Academic Achievement Award:** Zebulon Hart

**Academic Excellence Award:** Sarah Fay

**Outstanding Professor Award:** Dr. Zach Agioutantis

**Outstanding Senior Award:** Sarah Fay

**Outstanding Junior Award:** Adam Ohab

**Outstanding Graduate Student Award:** Xinbo Yang

**Chairman’s Award:** Luke Thaxton

**Catesby Clay Leadership Award:** Blanton Park

**Careers-in-Coal Lamplighter Award:** Luke Thaxton

**Old Timers Club Watchman Award:** Ryan Anderson

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### Field Trips

**Rock Mechanics Field Trip**

Dr. Zach Agioutantis has put field trips in his curriculum so the students can see the concepts and challenges professionals face in the real world. J.H. Fletcher & Co. was gracious enough to welcome Dr. Agioutantis’s Rock Mechanics class to their manufacturing facility in Huntington, WV. J.H. Fletcher specializes in custom designed underground mining equipment, such as roof bolters, drills, and scalers. This trip allowed students to see the engineering ingenuity that goes into the production of state-of-the-art equipment that is used for underground roof and floor stability. Students who have a particular interest in underground mining operations stated that this trip allowed them to understand, from a technical standpoint, how the equipment they will see every day operates. All students were able to understand the translation of theory learned in the classroom into the industry where roof stability considerations are used in equipment manufacturing.

**Matterhorn Boot Camp**

It has been a tradition for the last 6 years for mining engineering SME student chapters to visit the Matterhorn boot factory in Martinsburg, PA. Six students and our faculty advisor, Dr. Jack Groppo,
were chosen to attend and have the opportunity to make a custom pair of mining work boots. The representatives from Matterhorn were extremely accommodating of our group and could not have been more friendly. The students got to see firsthand what goes into making a pair of work boots and work directly with the skilled labors in the factory to make their pair of boots. It was truly amazing to watch these professionals work and create such quality boots, Matterhorn was even gracious enough to embroider our chapter logo on our boots.

Tailgates

The Kentucky Wildcats home football game tailgates are the Norwood Chapter’s primary source of fundraising. For many years these tailgates have provided all the necessary donations to fund the chapter’s activities. We charge each company $1000 per sponsorship, with a goal of 3 sponsors per game for the season. This sponsorship buys the company full access to our tailgate including food and beverages as well as 3 tickets and a parking pass to a home game of their choosing. The biggest draw for a company to sponsor one of these events is to be able to talk to students outside of an interview setting about prospective employment. Traditionally companies that come into the department to interview in the fall sponsor a game close to their visit in order to connect with the students they interviewed with. The menu for the games was usually hot dogs and hamburgers cooked on a charcoal grill lent to us by the Center for Applied Energy Research (CAER).

With seven home games each season and three sponsorship slots per game, this created 21 potential sponsorship slots. Last year, the executive team set a new record with 18/21 game sponsorship slots being filled. This year, we broke the previous year’s record by obtaining 20/21 game sponsorship slots. This was a breakthrough accomplishment as $20,000 worth of sponsorships contributed to our budget, when we initially forecasted only reaching around 18 or 19. The importance of the companies that take part in the tailgates through sponsorship, support, and attendance cannot be understated as these sponsorships allow us to fund student trips to the SME Conference as well as our outreach event resources.

Of course, we couldn’t have held such tailgates without the support from industry. A great thank you is owed to all of the sponsors this past season for their generosity that made our chapter’s activities possible. Also, a special thanks to Wayne CAT and Brandeis Machinery for sponsoring the tailgate tent for the entire season. Finally, we could not have the success in tailgate ventures without the support of Friends of Coal. Friends of Coal sponsored multiple games and provided the tailgate trailer, with satellite TV subscription, and tailgating pass for the entire season.

SME Annual Conference and Expo

Sending students to the SME Annual Conference and Expo is the main goal of the Norwood Chapter each and every year. We spend the fall semester raising money to attempt to take as many students as we can to the conference, this year we set a goal to take 20. This year the conference was in Denver, Colorado and we were able to send 20 students with the highest amount of points
earned from event attendance throughout the year. Our budget allowed us to pay for students’ travel and lodging expenses, which is the majority of the cost of attending these conferences.

Before the conference began, the NSSGA/SME Annual Mine Design Competition occurred and the University of Kentucky’s very own Thoroughbred Mining team took home first place, the second year in a row winning the competition. While at the conference the Mining Department had their own booth which students took turns working to provide information about the program to interested parties and promote the UK SME Merit Badge Fair in hopes of gaining sponsors. While not working the booth, the students were able to attend many technical sessions and network with professionals all over the conference.

While in Denver, the Norwood chapter was very fortunate to attend many social functions both private and part of the conference. These events included the annual Komatsu Student Reception, the Alumni Dinner, and a private reception with Victaulic at a nearby billiards hall. Victaulic has hosted the University of Kentucky Mining Engineering Department at the Annual SME Conference for over 15 years now and we cannot thank them enough for their continued support of our department and industry.

**Denver: Trips and Excursions**

It is a UK tradition that the group stays an extra day after the end of the conference to see the city and surrounding area we are fortunate enough to visit. The group of 20 students all had different ideas for what they wanted to do in Denver and the surrounding area. Some students hiked in Estes Park, others hiked in Garden of the Gods, and some (of legal age) took a tour of the Coors Brewery nearby. These excursions we take every year after the conference allow students to see parts of cities they have never visited before as well as providing a final stress reliever before returning to campus for the second half of the semester.
Closing Remarks and Outlook

As the 2018-2019 school year comes to an end, it is truly impressive how much we were able to accomplish as a chapter in the short year we operated in. The executive team came together at the beginning and set challenging, yet obtainable, goals for the coming year. It is amazing that a group of around 40 undergraduate students could come together and accomplish the things we did. We raised nearly $28,000, we had nearly 100% employment for both undergraduate and graduating students, hosted outreach events that affected over 1,000 young people in the region, and we expanded our outreach event calendar by offering a Girl Scout Mining Lock-in for the local Girl Scouts. We were able to offer our Annual Boy Scout Merit Badge Fair, again at zero cost to the Scouts in attendance. The ISEE Chapter raised enough funding to take nearly all of its members to Nashville for their annual conference. The Mine Rescue Team won a national championship competition this spring. The Mine Design team won first place in the SME/NSSGA Mine Design Competition for the second year in a row! A group of students competed in the Goodman Gold Challenge, an economic evaluation of mining companies competition and placed third in their division. And finally, the Mucking team competed in the annual mining games in Nevada. Although all of these organizations and competitions are not all completely tied to the SME organization, the students who take part are all members. We, as a chapter, could not be more proud of our fellow classmates and peers for the extraordinary things we accomplish and take part in each and every year.

We hope that this year and this report helps portray how dedicated our members are to the betterment of our community and to helping one other develop a skillset that will yield successful careers for years to come. It is a miracle that our members can help put all of these events on while also being enrolled in a rigorous engineering curriculum. Without our members and their drive to succeed in the classroom and in extra-curricular activities, our Chapter would not be as successful as it is today.

This executive team took the torch from last year’s team, a team that accomplished wonderful things and paved the way to success for this year, and we ran as far as we could and accomplished nearly everything we set out to do this year. However, there is always room for improvement. I am pleased to know that next year’s team will not have any trouble picking up where this team left off and there is no doubt they will have great success. The newly elected members for next year’s executive team are as follows:

<table>
<thead>
<tr>
<th>2019-2020 Norwood Executive Officers</th>
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<tbody>
<tr>
<td>President</td>
<td>Brian Watkins</td>
</tr>
<tr>
<td>Vice President</td>
<td>Zeb Hart</td>
</tr>
<tr>
<td>Treasurer</td>
<td>Kullen Floyd</td>
</tr>
<tr>
<td>Secretary</td>
<td>Anabelle Pillar</td>
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<tr>
<td>ESC Representative</td>
<td>Caitlin Strong</td>
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<tr>
<td>Head of Outreach</td>
<td>Jessica Nelson</td>
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<tr>
<td>Head of Activities</td>
<td>Tim Milan</td>
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<tr>
<td>Head of Recruitment</td>
<td>Kayla Thurman</td>
</tr>
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After last year’s successful trial run of adding three additional Head of Outreach, Activities, and Recruitment to the executive team and the continued success this year of these added helping
hands, it is important to note that these individuals were elected because their skillset will certainly help further the mission and values of the Norwood Chapter of SME. Although our chapter is small compared to other universities, we believe that this helps us bond and work together more cohesively to accomplish things that large groups may have difficulty in doing.

Next year’s team will face similar challenges as this team did, from the recruiting hindrance of the common freshman year to launching a new fundraising campaign for the 2019-2020 school year. Although the challenges seem to persist year over year, our attitude and ideas for tackling these challenges seem to improve more and more. Next year’s team already has a plan in place for improvement in many areas of operation and we are certain they will have great success. Multiple members of next year’s executive team served on this year’s team and it will be a great benefit to have their knowledge and expertise for next year’s events. We wish next year’s team the best of luck and we look forward to seeing them succeed.

Best Regards,

2018-2019 SME Norwood Chapter Executive Team
2019-2020 Presidential Outlook

To whom it may concern,

The SME Norwood Chapter is extremely excited for the upcoming year, we plan to continue the great success that our chapter has had for many years. For the fall semester we have many great recruiting and outreach events aimed towards our younger class (freshman and sophomores). One of these events being the fundraising tailgates. While we plan to continue the home tailgates that allow these students a chance to interact and engage in the upper classman and faculty of the Department, we have planned to do a tailgate located at the Mining and Mineral Resources Building on campus. At this event we will focus our attention solely on the younger classes and make sure to involve them and get to know them on a closer basis than years previous. We aim that this even will be more relaxed and less crowded event to ensure that we will have a high attendance from the younger classes. As for keeping the current members engaged, we plan to continue doing outreach events such as; tailgates, open houses, weekly SME meetings as well as the various groups and teams that the members take part in.

As previously mentioned, the fundraising tailgates are a very large part of our recruiting as well as an outreach event. At the tailgates, companies come and interact with both the students as well as the faculty. These events help us create a greater bond within the industry and academia sides of the mining business. These events have led to many students receiving both full time as well as internship offers from these sponsoring companies. Another important tool we will continue to use is the weekly meetings. Within these meetings important information is passed along such as volunteer events, tailgate schedule for set up and take down to earn points, and other outreach events. Most importantly, at these weekly meetings, we mining companies come in and talk to the students as a recruiting event for themselves. At the meeting, the company will take down times for people to interview for both full time as well as internship positions.

Our main goal for the 2019-2020 year is to increase involvement. Mainly within the younger classes of the department. We will as if we are missing this group at most events and feel that if we get them more involved, we as a chapter can grow as well as better teach them too to run this chapter when their time comes.

Sincerely,

Brian Watkins
President, SME Norwood Chapter 2019-2020
Appendix

Bylaws of the Norwood Student Chapter

Article I – Name

Section 1. This Chapter shall be known as the Norwood Student Chapter of the Society for Mining, Metallurgy, and Exploration, Inc.

Article II – Object

Section 1. This Chapter's object shall be to promote among its members continued professional growth in the areas of mining, metallurgy, and exploration, and to encourage professional responsibility that includes ethical, social, economic, and safety considerations.

Article III – Conformity with SME

Section 1. The governance of this Chapter shall at all times conform to the Articles of Incorporation and Bylaws of SME, a member society of the American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME), Inc.

Article IV – Membership

Section 1. Any student in good standing at University of Kentucky, in the Department of Mining Engineering shall be eligible for membership. Meetings are open to all students, alumni and others who care to attend.

Section 2. Membership shall continue as long as the member remains enrolled and in good standing in the school and pays annual national and/or local dues.

Article V – Dues

Section 1. A member in arrears one term shall lose voting privilege and, if in arrears one year, membership.

Section 2. The Chapter shall have the right to levy special assessments by a two-thirds vote of all present at any regular meeting.

Article VI – Officers

Section 1. The officers shall consist of a President, Vice President, Secretary, and Treasurer.
Section 2. Officers shall be elected for a term of one year at a regular meeting of the Chapter prior to the close of each academic year. (Note: It is often advantageous to have new officers assume their duties before the previous officers depart the campus.) Upperclassmen and postgraduate students only shall be eligible for the offices of President and Vice President. Each officer so elected shall personally thereupon accept election and pledge to assume the duties of the office.

Section 3. Vacancies during an academic year shall be filled at a called election at a regular meeting.

Section 4. To be eligible for election, the nominee must be a Student Member of SME (or another member society of the AIME) or must have applied for such membership.

Section 5. Election shall be by a majority vote of the members present.

Section 6. At the time of the annual election, there shall be an SME member identified from the faculty who shall act as Faculty Sponsor, a source of inspiration and counsel to the officers.

Section 7. The newly-elected President and the Faculty Sponsor shall secure a Counselor from the SME Local Section who is an SME member, preferably practicing in industry or government. (If there is no Local Section in your area, SME headquarters will assist in obtaining a Section Counselor.)

**Article VII – Duties of the Officers**

Section 1. The President shall preside at all Chapter and Executive Committee meetings, render the prescribed Chapter requirement of an Annual Report to SME headquarters, and assume all executive duties not otherwise delegated by these bylaws.

Section 2. The Vice President shall preside during the absence or at the request of the President and shall automatically succeed to the Presidency in case of vacancy.

Section 3. The Secretary shall keep a record of all meetings of the Chapter and the Executive Committee in the official minute book. The outgoing Secretary shall fulfill the Chapter requirement of reporting the election of new officers to SME headquarters and shall act as librarian. At the end of the term and during vacation, the minute book shall be left for safekeeping with the Faculty Sponsor (or school librarian).

Section 4. The Treasurer shall handle and account for all funds, paying out funds only upon approval of the President (or the Executive Committee). At the end of the term, the Treasurer shall submit a report with cash balance to the Executive Committee for audit and approval.
Article VIII – Committees

Section 1. The officers of the Chapter, including the Faculty Sponsor as advisor, shall constitute the Executive Committee charged with the responsibility of a successful year's program.

Section 2. The President, as Chair of the Executive Committee, shall appoint, with the approval of the Executive Committee, the personnel of the standing committees.

Section 3. The standing committees shall include:

   a) Program Committee — to arrange and be responsible for speeches and papers presented.

   b) Field Trip Committee — to arrange and carry out trips.

   c) Membership Development Committee — to promote local and national membership and to encourage involvement in Chapter activities of freshmen and non-members; promote and arrange social activities for the Chapter.

   d) Publicity Committee — to bring all meetings to the attention of members, potential members, the school(s) and the press.

   e) Outreach Committee – to promote and arrange outreach activities for all members

The President shall be an advisory member of the standing committees. The committees shall be directly responsible to the Executive Committee, which shall have the power to change the personnel of the standing committees and to appoint special committees as deemed necessary.

Article IX – Meetings

Section 1. Regular meetings shall be held on the second full week of each month during the academic year or on a postponed date set by the Executive Committee, which may also call a special meeting at any time.

Article X – Amendments

Section 1. These bylaws may be amended by a two-thirds vote of the members present at any regular meeting, provided notice of the proposed amendment shall have been given in writing at the last regular meeting.

Section 2. Amendments to these bylaws must be approved by the SME Board of Directors.