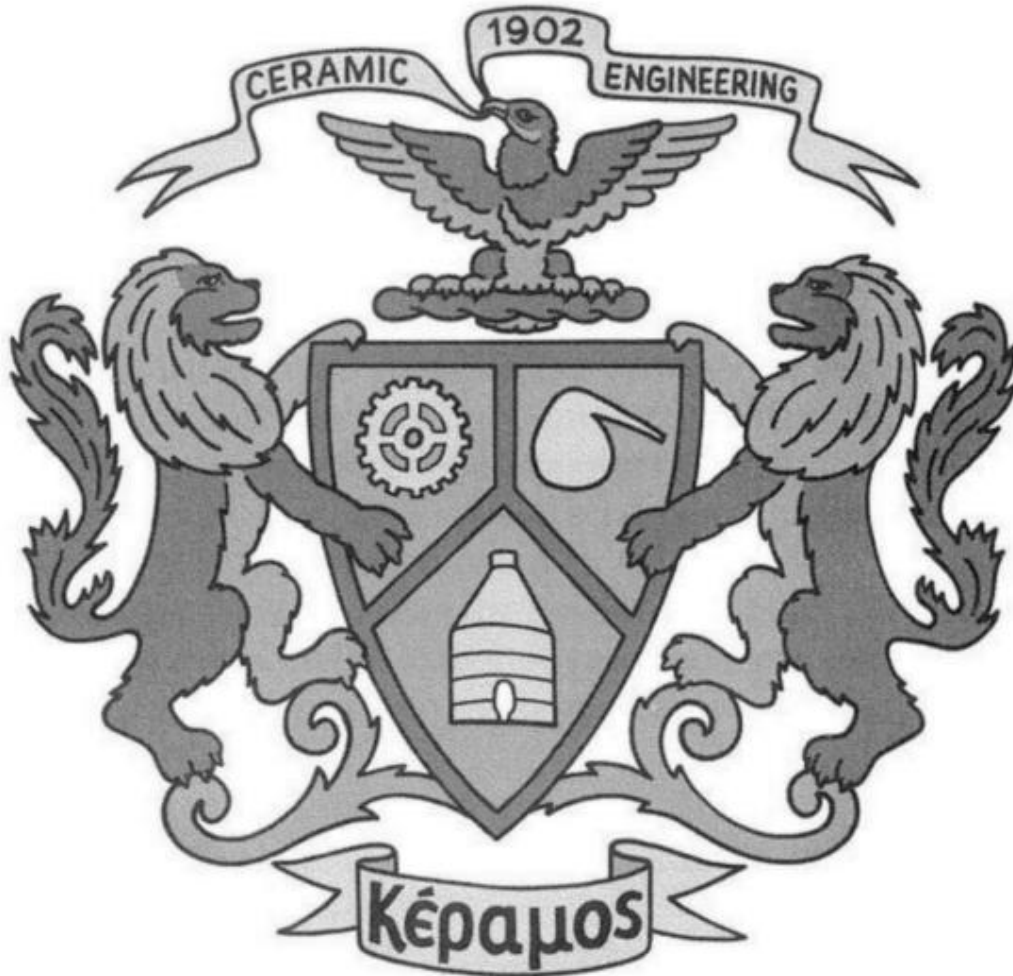


The Colorado Chapter of Keramos



COLORADO SCHOOL OF MINES.
EARTH • ENERGY • ENVIRONMENT

2018-2019 Annual Report

Table of Contents

Keragram Summary Article.....	3
Chapter Advisor Executive Summary.....	4
Annual Plan for Upcoming Year.....	5
List of Officers.....	6
List of Active Members.....	7
List of Graduating Members.....	9
Honorary Member Biosketch.....	10
Treasurer's Report.....	11
Chapter Activities.....	12
Educational Outreach.....	12
Professional Development.....	15
Service to Ceramics Community.....	18
Alumni Engagement.....	19
Participation at Annual Convocation and Business Meeting.....	19
Interchapter Communications and Collaboration.....	20
Social Events.....	20

Keragram Summary Article

The Colorado School of Mines (CSM) Keramos chapter strove to make the 2018-2019 year one of both preserving our recently established traditions and creating many firsts.

We have continued holding biweekly meetings, many of our pun-themed events, and our glass shop operations. Simultaneously, we have worked to accelerate chapter activities in all realms, particularly in terms of outreach and professional development.

A few key notes from the past year include our chapter's participation in a dozen educational outreach events, reaching top rankings in scientific competitions, our excellent and continually expanding glass shop management, and helping Virginia Tech begin their inaugural year. Through speaking with students of all ages and educators of all levels, and showing them what it means to be a ceramist or materials scientist, we have noticed astounding understanding of the field. We were extremely excited to find success in connecting with others in these events and hopefully beginning the development of the next generation of materials engineers! Simultaneously, the chapter worked to leave its mark at competitions, most notably at MS&T's Aesthetic Mug Competition and TMS's Materials Bowl, where CSM Keramos members played a leading role. When not in the lab, classroom, or conference room, members could be found in the glass shop. Management of glass shop activities became seamless over the course of the year as we implemented new ways to manage space, time, gaffers, gaffers-in-training, and most of all, our Soda Lime Saturday events. It has been wonderful to see members eager to make pieces and to help others in the glass shop, to mix art and science together. Furthermore, we were delighted to receive the chance to help with Virginia Tech's initiation and to share ideas, advice, and our excitement for pun-themed events.

We are elated by the progress our tight-knit chapter has made in such a short time and all that is to come!

Kelsey Cannon
President 2018-2019

Chapter Advisor Executive Summary

The Colorado chapter of Keramos has quickly become one of the strongest organizations on the Mines campus as well as one of the strongest Keramos chapters in the country. Keramos cooperates well with CSMMAC, the local Material Advantage chapter, and even manages to engage students from other departments in activities thanks to the glass shop operations. Strong leadership continues to be key to the chapter's success. The past year saw continuation of activities such as the pun-themed meetings, glass shop operations and sales, and an etiquette dinner; it also saw significant expansion of the scale and scope of Keramos activities. For example, the chapter reached over 6000 8th graders by participating in the Adams County Career Expo, is hosting 100 underprivileged middle school students for an entire day of demos and outreach activities, hosted an AACCM meeting, and flew officers to (re)initiate a chapter at Virginia Tech! The following report provides additional details on the incredible activities this year, but it simply cannot convey the energy and enthusiasm of this year's chapter, and the officers in particular. It truly has been an honor and a privilege to be associated with the CO chapter of Keramos this year.

Geoff Brennecka

Faculty Advisor 2018-2019

Annual Plan for Upcoming Year

This past year, the Colorado Keramos chapter has continued to grow with a larger membership, more events, and expansion of the hot glass shop. The chapter plans to continue to grow by reaching out to underclassmen with an interest in ceramics in addition to upperclassmen in the Metallurgical and Materials Engineering department.

This year, the chapter plans to continue to look for new areas of growth, particularly in expanding events such as the outreach made possible by generous support from the Ceramics and Glass Industry Foundation (CGIF). The CGIF funding for 2018-19 brought middle school students to Mines to learn about materials science and what it is like to be a materials engineer. For the coming year, we plan to impact even more students by instead bringing in teachers and instructing them on demos and lessons. They can use the demos and lessons in their classrooms so that materials science and engineering can reach many more students than before. We look forward to this and many more outreach events.

The chapter also anticipates further professional development programs for our members. In addition to scheduling industry speakers and trips, Colorado Keramos plans to continue sending members to conferences such as the MS&T conference and participating in associated competitions. Our chapter has done well in competitions this past year, such as the Aesthetic Mug competition, and we want to continue to improve and become more competitive in other events, including the mug drop and disk golf.

The chapter would also like to continue with the many traditional events set in past years, such as Celebration of Mines, Soda Lime Saturdays, and the Etiquette dinner. In addition, we would like to continue with seasonal glass sales such as the Fall/pumpkin sale and the Holiday/ornament sale.

The chapter looks forward to many more fun themed events based the Keramos name. This past year the chapter put on Cornamos, Festimos, Merrymos, and Care-amos, to name a few. This year the chapter looks forward to the challenge of coming up with new puns and having fun with the events.

We are very excited for all that is to come this year!

Alexandria Mares
President Elect 2019-2020

List of Officers

Outgoing Officers (2018-2019)				
Position	Name	Email	Phone Number	Address
President	Kelsey Cannon	[REDACTED]	[REDACTED]	[REDACTED]
Vice President	Brionna Dumlao	[REDACTED]	[REDACTED]	[REDACTED]
Treasurer	Joseph Van Sant	[REDACTED]	[REDACTED]	[REDACTED]
Secretary	John Copley	[REDACTED]	[REDACTED]	[REDACTED]
Herald	Victoria Avance	[REDACTED]	[REDACTED]	[REDACTED]
Glass Shop Manager	Robert Puerling	[REDACTED]	[REDACTED]	[REDACTED]

Incoming Officers (2019-2020)				
Position	Name	Email	Phone Number	Address
President	Alex Mares	[REDACTED]	[REDACTED]	[REDACTED]
Vice President	Mary Dougherty	[REDACTED]	[REDACTED]	[REDACTED]
Treasurer	Nathan Martin	[REDACTED]	[REDACTED]	[REDACTED]
Secretary	Olivia Denonno	[REDACTED]	[REDACTED]	[REDACTED]
Herald	Nyomi Martinez	[REDACTED]	[REDACTED]	[REDACTED]
Glass Shop Managers	Samantha Baumann	[REDACTED]	[REDACTED]	[REDACTED]
	Emma Braun	[REDACTED]	[REDACTED]	[REDACTED]
	April Garlin	[REDACTED]	[REDACTED]	[REDACTED]

List of Active Members

Active Undergraduate Members			
Name	Initiation Date	Email	Phone Number
Addison Wong	Spring 2018	[REDACTED]	[REDACTED]
Alexandria Mares*	Fall 2018	[REDACTED]	[REDACTED]
Ankya Bergerson Keller*	Spring 2019	[REDACTED]	[REDACTED]
Bobby Puerling	Spring 2018	[REDACTED]	[REDACTED]
Brionna Dumlao	Fall 2017	[REDACTED]	[REDACTED]
Colin Gilgenbach	Spring 2018	[REDACTED]	[REDACTED]
Grace Rome*	Fall 2018	[REDACTED]	[REDACTED]
Isabel Govett*	Fall 2018	[REDACTED]	[REDACTED]
Joe Van Sant*	Fall 2018	[REDACTED]	[REDACTED]
Jordan Palka	Fall 2017	[REDACTED]	[REDACTED]
Katherine Fisk*	Fall 2018	[REDACTED]	[REDACTED]
Kelsey Cannon	Fall 2017	[REDACTED]	[REDACTED]
Mary Dougherty*	Fall 2018	[REDACTED]	[REDACTED]
Michael Thuis*	Fall 2018	[REDACTED]	[REDACTED]
Monica Carreta	Spring 2018	[REDACTED]	[REDACTED]
Nathaniel Martin*	Fall 2018	[REDACTED]	[REDACTED]
Nyomi Martinez*	Spring 2019	[REDACTED]	[REDACTED]
Olivia Denono*	Fall 2018	[REDACTED]	[REDACTED]
Scott Thompson ¹	Spring 2019	[REDACTED]	[REDACTED]
Stuart Shirley	Fall 2017	[REDACTED]	[REDACTED]
Victoria Avance	Spring 2017	[REDACTED]	[REDACTED]
Zachary Long*	Fall 2018	[REDACTED]	[REDACTED]
Active Graduate Members			
Name	Initiation Date	Email	Phone Number
Brian Davis	Spring 2018	[REDACTED]	[REDACTED]

Enrique Pacheco*	Fall 2018	████████████████████	██████████
Jake Ivy	Spring 2013	████████████████	██████████
John Copley	Spring 2017	██████████████████	██████████
Katie Gann	Spring 2017	████████████████	██████████
Michael Walden	Fall 2013	██████████████████	██████████
Rachel Sherbondy	Spring 2015	██████████████████	██████████
Valerie Jacobson	Fall 2016	██████████████████	██████████
*new initiate within last academic year ¹ Honorary Member			

Active Faculty			
Name	Initiation Date	Email	Phone Number
Brian Gorman	Fall 1993	████████████████	██████████
Garritt Tucker	Spring 2018	██████████████	██████████
Gerald Bourne	Fall 2017	██████████████	██████████
Geoff Brennecka	Fall 1997	██████████████	██████████



Fall Initiation



Spring Initiation

List of Graduating Members

Graduating Members		
Name	Graduation Date	Email Address
Brionna Dumlao	May 2019	[REDACTED]
Joe Van Sant	May 2019	[REDACTED]
Katherine Fisk	May 2019	[REDACTED]
Kelsey Cannon	May 2019	[REDACTED]
Stuart Shirley*	May 2019	[REDACTED]
Victoria Avance*	May 2019	[REDACTED]
<i>*staying at Mines for graduate school, mines.edu email address remains valid</i>		

Honorary Member Biosketch



The Colorado Chapter of Keramos initiated Scott Thompson, a Research and Development Manager at CoorsTek, to honorary membership for the 2018-2019 academic year. Thompson is highly involved in organizations outside of CoorsTek such as ACerS and has played an instrumental role in contributing to materials science.

Thompson first attended Navy Nuclear Power School in 1990 before becoming an E-6 MM1(SW) Nuclear Operator and Work Center Supervisor where he was able to reorganize and streamline power plant programs and processes. From 1996-2001, he earned a double B.S. in Chemical Engineering and Materials Engineering at the University of Connecticut, followed by an M.S. in Material Science. At the same time, Scott served as treasurer of the joint ACerS, TMS, and ASM chapter.

By 2001, Thompson began his ceramics career as a Ceramics Engineer at Carpenter Technology Corporation before moving further into a Senior

Materials Engineering role at Saint Gobain in 2005. Here he led two Air Force Research Lab projects with over \$1 million funding for silicon nitride hybrid products, improved processes in international facilities, and served as a technical expert witness in an infringement penalties court case. In 2011 Thompson then earned an MBA from Babson College. At this time, Thompson worked on the Member Board of Directors in the Denver Business Series, where he revamped event promotion communications and co-chaired the Events Committee. Simultaneously, Thompson worked in CoorsTek Corporate Research and Development, where he has spearheaded the development of multiple materials. Additionally, Thompson was recognized at the 2015 CoorsTek Ignite Conference for Best Non-Technical White Paper in front of 400 global leaders.

We feel that Keramos as a whole can learn from Thompson, his experiences, and his resulting insight into the industry. It is for his contributions to the ceramics world and his continuing involvement in ACerS that he is a great fit for Keramos Honorary Membership.

(Scott Thompson, phone: [REDACTED], email: [REDACTED])

Treasurer's Report

This academic year produced significant financial gains within our Mines Keramos chapter due to increased sales of glass artwork created by club members through our hot glass shop on campus. Our expenditures were minimized in order to create a solid backbone savings account to support future glass shop purchases and planned maintenance. We estimate that in the next 5 years, significant expenditures will be needed to support glass shop activities (a major function of Keramos), so we are preparing over \$5000 in funds to support such upgrades. It should be noted that Keramos is likely the most productive fundraising club (Tier 1) on campus—Keramos is highly self-supporting.

Within campus accounting infrastructure, Keramos controls three accounts for separate purposes: a foundation account (1) to accept donations and grants, a student life account (2) to accept fundraising sales (required by school and state accounting rules), be available for day-to-day club purchases, dues deposits, and the like, and (3) a Hot Glass Shop account to control sales outside of general fundraising efforts done as campus events. The accounting structure within the university requires the separation of these accounts.

The account detail is listed below, showing categorically arranged balance changes. Detailed sales reporting is omitted for brevity and due to the high volume of sales over the past academic year. We are very grateful for the grants received and for the success of glass sales over the past year.

Account (1)

Created to accept CGIF grant funds

Initial Balance: \$1,500.00

Expenditures: -\$1,500 (MS&E Day)

Final Balance: \$0.00

Account (2) - Student Activities Account

Initial Balance: \$1862.43

Expenditures: -\$229.50

Income: \$3,253.84 (Fundraising, Dues)

Final Balance: \$4,886.77

Account (3) - Hot Glass Shop Account

Initial Balance: \$0.00

Expenditures: -\$0.00

Income: \$3525.94 (Glass Sales)

Final Balance: \$3525.94

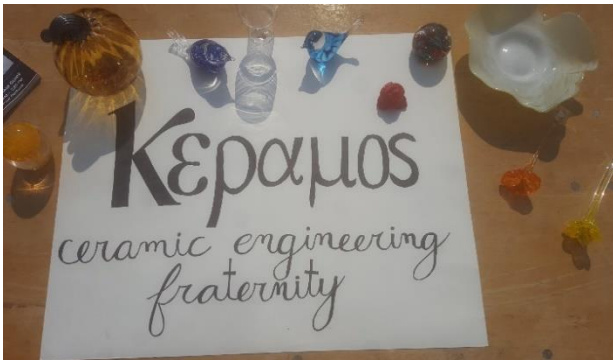
Total Income for 2018 - 2019 Academic Year: \$8,050.28

We expect to generally maintain these income amounts in future years. The CGIF grant can be expected to be a recurring payment pending successful re-application each academic year. Fundraising sales can be expected to remain relatively constant throughout the upcoming academic year. We expect to continue these fundraising efforts in the future. Glass shop operations require the periodic purchase of new glass stock, colored frit, and heating elements as well as spot repairs to the furnaces. Additionally, it is anticipated that the melter crucible will need to be replaced every 8-10 years, though we are budgeting to be in a position to replace it after 4 years of use, just to be safe, at least until we have sufficient experience to plan less conservatively.

Chapter Activities

Educational Outreach

Celebration of Mines



Keramos members participated in the annual Celebration of Mines event, hosted by the Student Activities Office. The goal is to allow organizations on campus to display what they do and who they are to the incoming freshman class, as well as anyone else who attends. The glass and ceramic pieces we showcased were an excellent way to get the attention of anyone walking past. Members volunteered to talk to anyone interested about everything from our outreach and professional development activities, to the glass shop and social events. The curiosity we received about materials science, ceramics, and Keramos was truly exciting, and the event was a great success.

Shelton & Mitchell Elementary Math and Science Night



Keramos partnered with the Mines Materials Advantage Chapter (CSMMAC) to participate in two local elementary school's math and science nights. Many young students attended each event and chapter members were able to show material science demonstrations to both parents and students. The students were very engaged and interested in the demos and often asked to see more. At Shelton Elementary School, the members had more one-on-one time with the students and were able to show multiple demos as well as give the students some hands-on experience. At Mitchell Elementary School, members gave demos to large groups and were able to interact with many of the students. Keramos members were able to educate parents on the ceramics focused activities at Mines and how ceramics are incorporated into everyday life. It was great to see the extent to which younger generations are interested in science.

6th Grade Demo Day

A demo day was planned for a sixth grade class from Renaissance ELOB School to see the Metallurgical and Materials Engineering (MME) department at Mines. The Mines MA chapter requested volunteers, and Keramos members quickly seized the opportunity to both lend a helping hand and foster an interest in engineering fields with the kids. The students were given tours of the department, pewter cast their own keychains, learned about ESEM imaging and 3D printing, and saw the glass shop. The goal of this event was to not only get the students interested in pursuing a STEM career, but to introduce them to ceramic engineering specifically.

Joy Carnival

Chapter members further expanded our support of other organizations on campus by helping APO, the service fraternity on campus. They hosted a carnival for kids of all ages to participate in interactive science booths. Keramos hosted a booth that demonstrated Prince Rupert's drops, oobleck (cornstarch and water), and bouncy balls with different chemistries. The demonstrations made science fun and interactive for the younger kids, as well as interesting and educational for older kids and parents. Members built new relationships with other organizations, promoted STEM and ceramic engineering, and informed the next generation of ceramists and engineers on the work done at CSM.

National Service Week

During National Service Week, chapter members volunteered to help spread mental health awareness on campus. The goal was to interact with other clubs and show support for the Mines community. Members handed out flyers, ribbons, and answered any questions about resources available for students. This event allowed CSM Keramos to build relationships with other campus organizations, as well as emphasize the importance of mental health among the members.

8th Grade Career Expo



(including Keramos). Blown glass pieces from the CSM glass shop were also displayed to showcase the potential for art. Students were very interested in all that was offered and many asked for advice on what classes to take in high school.

Keramos partnered with CGIF to host a booth at the annual Adams County 8th grade Career Exposition. More than 6,000 middle school students attended the event over the course of the day. Mines Keramos members ran material science demonstrations for the students, and showcased the ACerS Classroom Kit for educators. In addition to the demos from the kit, volunteers showed off Prince Rupert's drops, ductile-to-brittle penny transformation, oobleck, and the function of a piezoelectric component from a grill lighter. While running the demos, volunteers told the students about the ceramics engineering field and opportunities at Mines

It was particularly remarkable to see the interest from teachers in the Classroom Kits. Their names, contact information, and school were passed along to the CGIF board for further action.

Outreach with Admitted Mines Students

Mines hosts an annual event for admitted students to tour the school and visit departments. Keramos was happy to form a troop of volunteers to give tours and run demonstrations. Members were able to connect with potential Mines students and tell them about the classes we have taken as undergraduate students. The admitted students were very interested in hearing about the ceramic and materials classes available to them. Keramos members were successful in educating the students and piquing their interest in ceramic engineering.

MS&E Day

During the Fall semester, Keramos was granted \$1,500 in order to host an outreach event and execute CGIF's goal of cultivating interest in the next generation of materials scientists and engineers. The event, called MS&E Day, will bring middle school students from an economically depressed district to campus for a day of ceramic, glass, and materials demonstrations and hands-on activities.

The CGIF funding was combined with over \$600 from chapter funds to cover transportation costs for 100 students between their school and Mines. MS&E Day engages knowledgeable volunteers circulating the 9 stations alongside the 7 groups of ~14 students each. Each station is run by lab managers and experienced volunteers, and includes a range of ceramic and materials related activities such as glass blowing, SEM, 3D printing, and Virtual Reality Exploration of Materials. Throughout the day the students interact with many Mines students, giving them the opportunity to learn what it means to pursue a STEM degree.

Because of a weather-related cancellation MS&E Day had to be re-scheduled for April 25th; the students are extremely excited to attend.

Discover/Preview Mines

Mines hosts an event for prospective students to see the campus and learn more about available majors. The majority of the students are not familiar with what materials science is when they arrive, and they were able to learn by talking with our chapter members. It is our hope that volunteering at this event can interest students who are already engineer-bound in the ceramic engineering field.

Department Tours

Chapter members also volunteered on a number of occasions to lead tour groups for prospective students interested in the MME department. Visiting students received in depth tours of the ceramic and materials laboratories along with explanations of the courses offered to undergraduates. These tours exposed students to the materials field and were successful in attracting students to the department.

Professional Development

Conferences

Keramos members made their mark at multiple conferences throughout the year. We first attended the Materials Science and Technology (MS&T) conference in Columbus, Ohio. Six members of our chapter actively participated in the events, including the annual Keramos convocation and business meeting, lectures, technical presentations, and aesthetic mug competition. Our chapter was proud to have a member participate in the undergraduate poster session and to have a beautiful glass mug win first place in the aesthetic mug competition.





Five Keramos members attended this year's TMS Conference in San Antonio, Texas. Keramos members were able to attend various lectures and networking events to broaden their knowledge of materials, including Luana E. Lorio's plenary speech about GE Aviation's implementation of ceramic matrix composites in turbine engines to improve their durability. Additionally, members were able to present their research and served as session chairs. Four out the five members of this year's Materials Bowl Team were also Keramos members, two of which are current executive

members and one of which is a former Vice President. We are honored to say they brought home first place in the Materials Bowl competition (for the second year in a row).

Members of the chapter attended the annual Congressional Visit Days (CVD) event in early April. It was an exciting opportunity to visit with legislators and congressional staff from our home state of Colorado. The goal of the event is to educate Congress about the importance of research in materials science, engineering, glass and ceramic science, manufacturing, and the need to increase federal research and development funding. It was a vital and educational experience and a great mode by which to emphasize the long-term importance of science, engineering, and technology through meetings with congressional decision makers.



AACCM Business Meeting



The Colorado Chapter of Keramos was honored to host the Association of American Ceramic Component Manufacturers (AACCM) for their Fall 2018 business meeting. The day consisted of a business session, tour of the Metallurgical and Materials Engineering building, presentations to undergraduate and graduate students about each respective company's business and specialty, presentation to the AACCM members about Keramos' service to the ceramics community, and a networking session.

Colorado ACerS Section Meeting

Chapter members attended the inaugural meeting of the Colorado Section of the American Ceramic Society. The meeting was held at a CoorsTek facility and chapter members attended a talk by Sadrine Ricote (the Colorado ACerS Section Chair) and presentation as well as a tour from the CoorsTek hosts. At this event, members networked with local ceramics professionals and represented the student body. Chapter members saw industrial applications of ceramic engineering as well as their ongoing research and development. This meeting was educational for chapter members and gave more exposure to the industry of ceramic engineering.

Etiquette Dinner

The goal of the (now annual) etiquette dinner was to have a fun, yet refined meal accompanied by a presentation on various etiquette rules. This was done in an effort to prepare members for interviews and other professional company events that may arise in the future. We were able to fulfill our goal of catering the event and had 3 courses. The presentation was revised from last year's to include more fun etiquette facts and useful information. We hope that next year we can host industry professionals to join us for this event so it can serve as a networking opportunity as well as an educational one.



Career Development Focused Meeting

In order to further advance our members' preparation for interviews, we aligned a career development meeting with the semesterly career fair held at Mines. The career fair is a large event where hundreds of companies and their recruiters attend to speak with, interview, and (hopefully) employ Mines students. Our meeting consisted of a resume review and discussion of mock interview questions to provide members with the necessary documents and practice to feel prepared in front of recruiters.

Service to Ceramics Community

Glass Shop Management



Our glass shop has been growing rapidly now that we have had our first two semesters of the Art and Science of Glassblowing class. This class has even convinced a handful of students to switch majors to, or get a minor in, Metallurgical and Materials Engineering. With the growth of the shop, we found ourselves in need of more tools and materials, which we were easily able to purchase with the funds raised during our glass sales. The glass shop has been such a hit and has become large enough that next year we will have three managers instead of one.

Soda Lime Saturdays



This year, we changed our Soda Lime Sunday events to Soda Lime Saturdays (SLS) to better accommodate hot shop demands and volunteer schedules. Most importantly, we more than doubled the number of SLSs we held. There were 10 SLSs in total, six open to any Mines students, two for Mines staff, and two dedicated to off-campus groups (one for a local Girl Scout troop and one for a local chapter of the Osher Lifelong Learning Institute (OLLI)). For the staff-focused event, we specifically targeted faculty and staff who are in constant contact with new and prospective students in an effort to further put ceramic and glass engineering on the map.

The Girl Scout troop consisted of eight 7-10 year old girls. Professor Brian Gorman first gave an interesting lecture about glass, then brought the troop into the glass shop, where chapter members volunteered to make each girl glass flowers and to show them the process of forming glass. In an effort to encourage each troop member to pursue a career in the STEM fields, this girl scout SLS was held by primarily women. They all had so much fun and so many great questions that the event ran longer than expected.

Glass Shop Sales

Four glass sales were held this year: a Fall-themed pumpkin sale, an ornament sale (Festimos), a Valentine's Day flower sale, and a Spring sale. All have been crucial to our fundraising efforts and have enabled the purchase of equipment to expand our capabilities. Two of the sales are described in more detail below:



In the spirit of pun-themed events and merriment, we held a glass ornament sale called Festimos. It was wonderful to see everyone's festive excitement, their admiration of glass, and the event raised over \$700.

Similarly, the Valentine's Day Sale was a great success in terms of raising funds for the chapter and helping students and faculty find unique, handmade gifts for their loved ones.

Girl Scout Engineering Day

Mines hosted Sylvia Acevedo (author, Girl Scouts CEO, and former NASA Rocket Scientist) in honor of the 2019 National Women's History Month Celebration. Colorado Keramos did its part by accepting the commission request for a girl scout themed glass bowl and attending the celebration's luncheon to present it to Acevedo.



Alumni Engagement

Many of our alumni are current graduate students at Mines and are tremendously helpful with chapter activities. Most notably, they readily volunteered for MS&E Day, are active in the glass shop, attended the etiquette dinner, help with glass sales, and attend meetings and social events. The Colorado chapter of Keramos is in its third year, so as our alumni base grows we look forward to specifically inviting them to etiquette dinners, holding alumni-specific SLS events, and inviting them to hold technical presentations.

Participation at Annual Convocation and Business Meeting



Three of our members attended the annual convocation and business meeting at MS&T18, and six members attended the conference as a whole. It was especially helpful to speak with the executive members of other chapters and hear their ideas and thoughts. This was followed by updating all chapters and the national executive board on our chapter's plans; our chapter president also attended the CGIF Board of Directors meeting.

In addition, former Herald, Jake Ivy, and current Glass Shop Manager, Robert (Bobby) Puerling won first place in the aesthetic mug competition for a clear glass mug with a reduced

metallic blue handle and foot; since neither Jake nor Bobby were able to attend MS&T, the mug was entered by chapter president Kelsey Cannon.

Interchapter Communications and Collaboration

Virginia Tech Initiation



The Colorado chapter of Keramos is honored to have played a leading role in (re)initiating Virginia Tech's chapter. Our advisor and four members who attended were pleased to get to know the peer chapter, learn about each others' campuses, conduct the initiation ceremony, and of course, exchange ideas over dinner and drinks afterwards.

We were sure to relay our ideas and past experiences with everything from outreach and meetings to member development and social events--puns included, as always. The Colorado chapter of Keramos is still in our early years, so it was our hope to provide help and advice in order to alleviate some of their initial bumps in the road, and we continue to mentor their leadership as needed.

We are profoundly excited for Virginia Tech's future in Keramos. We would like to thank them for hosting us and wish them all the best in their inaugural year. We would also like to extend a special thank you to VaTech advisors, Caro Tallon and David Clarke, and to Nathan McIlwaine for kickstarting the process.

Social Events

Scare-amos



Chapter members embraced the Halloween spirit by pumpkin carving and eating a pumpkin shaped cake made by Secretary John Copley. We are very glad to be able to hold social events like this, where members can bond as a group in a non-academic setting.

Merry-mos

The chapter celebrated the end of the semester by getting in the holiday spirit, listening to holiday music, eating sugar cookies, and having fun with a white elephant gift exchange. It turns out that people have some truly random stuff laying around at home, making the gift exchange interesting!

Care-amos



It came to our chapter's attention that the local Denver-area network of Children's Hospitals were experiencing a severe shortage of "cheer cards" and "care cards," so members jumped to action by holding Care-amos. Dozens of cards were created for ill children, both electronic ones to be delivered by nurses and hand-made ones delivered by our chapter's president. All cards were signed that they came from the Colorado chapter of Keramos and a short blurb on ceramic engineering.

Cornamos

If there was ever an excuse to eat a lot of corn chips and play cornhole with bags of corn, this event was it. Corn-amos was held in September in order to bond with the new members and get to know them better earlier than usual.

Mines Keramos is excited to have such a great year and looks forward to all that is to come!