



Excellence • Scholarship • Tradition

Missouri Chapter of Keramos

2023 Annual Report



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I. Chapter Advisor Executive Summary

It was an interesting year for the Missouri Chapter of Keramos. The chapter attempted to “get back to the pre-pandemic norm” by going back to in person weekly meetings, restarting professional and social events and increasing activities related to younger student outreach. These were great intentions. What the executive board learned was that many of these things are hard. The events often require significant advanced planning and attention to detail. As such some of the events were a little rougher than they were pre-pandemic as no one on the executive board had any experience with such things. For some it was painful and stressful but for all it was professional development as these skills have to be learned and that has always been one of the key aspects of being on the chapter executive committee.

As advisor, I too have been trying to get back to pre-pandemic operation, with difficulties relating mostly to lack of bandwidth. I have fixed much of that by dramatically reducing my teaching and service loads, so hopefully next year I will be a better chapter advisor and we can get all of our activities going smoothly again.

Although these may sound somewhat like problems, the reality is that the Keramos leaders did a terrific job and many of the new initiates recognized that and have become interested in getting involved themselves, a great sign for the future of the chapter.

I am thankful for all that was accomplished this past year and look forward to the coming years. It is always a pleasure to be involved with the very best students we have in the very best department at the university.

Kind Regards – Jeff Smith, MO Chapter Faculty Advisor

II. Annual Plan for Upcoming Year

There were a lot of exciting events that took place this year. We have many new members, some of which are underclassmen that we are super excited about. We are glad to see more involvement from the younger students and hope that continues next year. The 2023-2024 year will continue to focus on strengthening outreach efforts, creating interesting social events to get students enthusiastic about the department again, raising our membership numbers, fundraising to help with more socials, and trying to grow a culture of innovation with the MS&T student competitions.

This year we did not put on as many outreach events as we hoped. The Missouri Chapter of Keramos will focus on these outreach events by having a strong student presence. Creation of new demos and outreach materials would also be a big help to this part of the plan. Introducing new material helps to reinvigorate the outreach effort. Another goal for next year is to bring more ceramic and metallurgy students into Keramos. The best way to do this is to get to know the younger students on a more personal level. We plan on increasing the amount of socials so that a better camaraderie can be built between all of the students in the department. Hopefully this can help involve more students, especially the underclassmen, than in the previous year.

The Missouri Chapter of Keramos had an outstanding performance at the MS&T student competitions this year, and it would be nice to make that a tradition like it used to be. Just like a good shift from old officers to new, we need to be able to transition the procedures for the competitions to the younger generations. It would also be nice to see innovation in the competitions as well with students trying to push the limits as much as they can. It is going to be another busy but exciting year, and I can't wait to see things progress even more!

I hope to lead the Missouri Keramos Chapter the rest of the way into a new year.

~Josie O'Dell - 2023-2024 MST Keramos President

III. List of Officers for Upcoming Year

Name: Josie O'Dell
Office: President
Address: [REDACTED]
[REDACTED]
Phone Number: [REDACTED]
E-mail Address: [REDACTED]

Name: Amelia Martinez
Office: Secretary
Address: [REDACTED]
[REDACTED]
Phone Number: [REDACTED]
E-mail Address: [REDACTED]

Name: Grace Epp
Office: Herald
Address: [REDACTED]
[REDACTED]
Phone Number: [REDACTED]
E-mail Address: [REDACTED]

Name: Lucas Rackers
Office: Nominations Chair
Address: [REDACTED]
[REDACTED]
Phone Number: [REDACTED]
E-mail Address: [REDACTED]

Name: John Paul King
Office: Vice President
Address: [REDACTED]
[REDACTED]
Phone Number: [REDACTED]
E-mail Address: [REDACTED]

Name: Rose Himmel
Office: Treasurer
Address: [REDACTED]
[REDACTED]
Phone Number: [REDACTED]
E-mail Address: [REDACTED]

Name: Michelle Woodley
Office: Historian
Address: [REDACTED]
[REDACTED]
Phone Number: [REDACTED]
E-mail Address: [REDACTED]

Advisor: Dr. Jeff Smith
Address: [REDACTED]
[REDACTED]
Phone Number: [REDACTED]
E-mail Address: [REDACTED]

IV. List of Active Members

A. New Members

Over the 2022-2023 academic year, the Missouri S&T Keramos chapter welcomed thirteen new members. Seven members joined at the Fall Initiation, and six at the Spring Initiation. The Initiation process and requirements were intended to build on Ceramic Engineering knowledge, introduce new students to the Materials Science and Engineering Department, and develop a community amongst the S&T Keramos chapter. As such, initiates are required to participate in several of the key events hosted by Keramos: Lunch & Learns, Miner Jobs for Major Cash (if held), a Keramos Etiquette Dinner, and the S&T Career Fair. Initiates also make a ceramic plaque and take a pledge quiz covering Keramos history and ceramic knowledge.

Initiation was held on November 17, 2022 and March 23, 2023. Prior to initiation, new members collected signatures on their plaques from faculty, staff, and Keramos members. Following Initiation, the Keramos chapter celebrated the new members at Alex's Pizza, a Rolla, MO classic.





B. Full Member List

<u>November 17th, 2022 Initiates</u>		
Biernacki, Katherine	Boland, Frederick	Codner, Will
Gamiel, Makayla ¹	Jones, Talara	Moore, Daniel
Pitz, Julia		
<u>March 23rd, 2023 Initiates</u>		
Epp, Grace	Murphy, Taylor	Piathek, Kiley
Scott, Hannah	Stump, Elizabeth	Sullens, Corey
<u>Undergraduate Members</u>		
Basler, Grace ¹	Malins, Lukas	Schuman, Audrey

Christian, Jordan	Malpocker, Sophia ¹	Sutalski, Elliot ²
Goodman, J	Mcgarvey, Seamus	Thien, David ²
Hilmas, Krista ¹	Moeller, Lauren ¹	Vortmeier, Jack
Himmel, Rose	O'Dell, Josie	Wannenmacher, Jacob
Johnston, Julie ¹	Rackers, Lucas	Woodley, Michelle
King, John Paul	Reed, Zoe ²	
<u>Graduate Members</u>		
Blatt, Nathan	Lapeyre, Jonathan	Sabata, Clare
Blatt, Rebekah	Lewis, Theodore	Scott, Jonathan
Boland, Sydney	Martin, Austin	Smith, Steven
Brune, Paul	Martin, Hannah	Stacy, Jacob
Cook, Rachel	Murchie, Alec	Timme, Nicholas
Duncan, Katie	Pommerenke, Hans	Volz, Steven
Jarmann, Jecce	Read, Aaron	Weyrauch, Noah
Jarvis, Leiren	Richards, Tyler	Wittmaier, Connor
<u>Faculty</u>		
Dr. Laura Bartlett	Dr. Aditya Kumar	Dr. Mark Schlesinger

Dr. Richard Brow	Dr. David Lipke	Dr. Bob Schwartz
Dr. Anthony Convertine	Dr. Scott Miller	Dr. Jeff Smith
Dr. Fatih Dogan	Dr. Joe Newkirk	Dr. Jeremy Watts
Dr. Bill Fahrenholtz	Dr. Ron O'Malley	Dr. Kelley Wilkerson
Dr. Greg Hilmas		
<u>Emeritus Faculty</u>		
Dr. Harlan Anderson	Dr. Darrel Ownby	Dr. Dave Van Aken
Dr. Delbert Day	Dr. Mary Reidmeyer	Dr. Von Richards
Dr. Wayne Huebner		
<u>Honorary Members</u>		
1947 – John C. Hostetter	1987 – Mohamed Rahaman	2007 – Eric Bohannan
1948 – Frederick Norton	1988 – Lokeswarappa Dharani	2008 – Matt O’Keefe
1950 – Paul Smith	1989 – James Stoffer	2009 – Ted Ruppert
1953 – Charles Smith	1990 – Daniel Armstrong	2010 – Sam Stang
1961 – William James	1991 – Larry Heying	2012 – Cindy Schwartz
1970 – John Arthur	1992 – Richard Hagni	2013 – S. Jill Glass
1970 – John Holt	1994 – Daniel Stutts	2014 – Jaci Huebner
1971 – Harlan Smith	1996 – Bill Hibler	2015 – Mike Carson
1973 – Hector McDonald	1997 – Kent Peaslee	2016 – Glen H. Kirby
1975 – Leroy Hart	1998 – Eric Schramm	2017 – Kathleen Shugart
1977 – Manfred Wuttig	1999 – Ken Goretta	2017 – Mrityunjay Singh

1978 – Paul Cash	2000 – Terry Tiegs	2018 - Gary Penell
1980 – Edward Epstein	2001 – William Dawson	2019 - John Story
1981 – John Bartel	2002 – Carl Moody	2020 - Sylvia Johnson
1983 – Melvin Churovich	2003 – Scott Miller	2021 - David Lay
1984 – Don Sparlin	2004 – Chris Ramsey	2022 - Jie Huang
1985 – John Dial	2005 – Ted Day	2023 - Joseph Graham
1986 – Chandra Ray	2006 – Ron Kosher	

¹Members Graduating Fall 2022

²Members Graduating Spring 2023

V. Graduating Members

Fall 2022 Graduates

Grace Basler

Address: [REDACTED]

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

Makayla Gamiel

Address: [REDACTED]

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

Krista Hilmas

Address: [REDACTED]

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

Sophia Malpocker

Address: [REDACTED]

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

Julie Johnston

Address: [REDACTED]

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

Lauren Moeller

Address: [REDACTED]

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

Spring 2023 Graduates

Zoe Reed

Address: [REDACTED]

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

David Thien

Address: [REDACTED]

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

Elliot Sutalski

Phone: [REDACTED]

Email: [REDACTED]

Katherine Biernacki

Address: [REDACTED]

[REDACTED]

Phone: [REDACTED]

Email: [REDACTED]

Seamus Mcgarvey

Email: [REDACTED]

VI. Missouri Chapter Honorary Keramos Nominations

The Keramos chapter of Missouri University of Science and Technology nominated Dr. Joseph Graham to be an honorary Keramos member for the 2022 calendar year. Dr. Graham is an associate professor of Nuclear Engineering and the faculty director of the campus nuclear reactor, MSTR. He received his Ph.D. and M.S. degrees in Nuclear Engineering from The



University of Texas at Austin and a B.S. in Physics from McGill University in Montreal, Canada. He holds a joint appointment in the Department of Nuclear Engineering and Radiation Science and the Department of Material Science & Engineering at Missouri S&T. Dr. Graham has received the Academy of Mines and Metallurgy Junior Faculty Award here at Missouri S&T

Dr. Graham is an expert in radiation effects in ceramics. He and his research group have conducted extensive experimental and computational research on materials in extreme radiation environments. This includes fundamental interactions of energetic particles in solids, and he has developed advanced characterization tools to study the properties and performance of nuclear fuels and advanced materials. He has worked with a large variety of ceramics used in nuclear applications including Zirconium Carbide, Strontium Titanate, and Silicon Carbide. Much of his work examines how radiation can affect materials and how to prevent damage of the material.

During his time at Missouri S&T, Dr. Graham has collaborated closely with the Ceramic Engineering Department. He has multiple research papers made jointly with professors from the Ceramic Engineering department. This semester, he gave a presentation over radiation effects in ceramics at a Missouri S&T Keramos chapter lunch & learn. His enthusiasm for his research in ceramics and emphasis on multidisciplinary research merits him the Missouri S&T Keramos chapter honorary member nomination.

Phone Number: [REDACTED]

Email: [REDACTED]

VII. Treasurer's Report

The Missouri Chapter of Keramos spent a total of \$2401.80 and collected a total of \$831.00 over the course of the 2022-2023 academic school year. The \$2401.80 was spent on Lunch & Learns, initiation activities, ordering department merchandise, and department socials. The \$1235.00 was collected through selling department merchandise, MJMC's, and member dues. The following three tables show the annual expenditure report of the bank account, cash bag, and Venmo account for the Missouri Chapter.

Bank Account				
Date	Debit	Credit	Balance	Description
05/09/2022			\$963.70	Beginning Balance
05/09/2022	-\$107.44		\$856.26	Coffee and Donuts
09/09/2022	-\$750		\$106.26	Etiquette diner deposit
09/19/2022		\$200	\$306.26	MJMC
09/22/2022	-\$41.31		\$258.95	Lunch and Learn food
11/07/2022		\$502	\$760.95	Cash Deposit
11/08/2022		\$259.10	\$1020.05	Venmo Transfer
11/17/2022	-\$917.02		\$103.03	Polos
12/08/2022		\$157	\$260.03	Venmo Transfer
12/08/2022	-\$89.05		\$170.98	Lunch and Learn food
03/08/2023	-\$6.09		\$164.89	Blank Raffle tickets

03/28/2023		\$398.99	\$563.88	Venmo Transfer
03/28/2023	-\$278.69		\$205.19	Initiation dinner
04/04/2023		\$187	\$472.19	Cash Deposit
04/04/2023	-\$15		\$457.19	Etiquette dinner deposit refund
04/05/2023	-\$154		\$303.19	Raffel (50-50) winner
04/07/2023	-\$43.2		\$259.99	Lunch and Learn

Cash Bag				
Date	Debit	Credit	Balance	Description
05/05/2022			\$502	Beginning Balance
11/07/2022	-\$502		\$0	Cash to Bank
12/07/2022		\$70	\$70	Polo Sales
03/13/2023		\$107	\$177	Raffle sales
04/04/2023	-\$177		\$0	Cash to Bank

Venmo Account				
Date	Debit	Credit	Balance	Description
05/09/2022			\$129.48	Beginning Balance
10/03/2022		\$40	\$169.48	Etiquette dinner payments
11/07/2022	-\$169.48		\$0	Transfer to Bank
11/18/2022		\$60	\$60	Honor Cords
12/07/2023		\$210	\$270	Polo Sales
12/07/2022	-\$270		\$0	Transfer to bank
03/15/2023		\$139	\$139	Raffle sales
03/16/2023		\$5	\$144	Etiquette dinner deposit
04/04/2023	-\$144		\$0	Transfer to Bank account

VIII. Chapter Activities

A. Educational Outreach

One of the main focuses of Missouri's Keramos Chapter this year was to reach out to as many prospective college and high school students as possible. We hosted a few events on campus geared towards freshman and sophomore students and even more for prospective

students visiting campus. The creation of demo boxes over the last two years has also allowed us to reach more students than ever before. To make sure there are enough students that can perform the demos at these outreach events, demo training is coordinated with Material Advantage and typically a graduate student that has given the demos before.

McNutt Breezeway Outreach

The Materials Science and Engineering Department wanted Keramos and the other department organizations to get involved with more out of department students and convince them to join us. This led to having booths set up outside of McNutt hall during opening week. The use of a cotton candy machine to explain how fiberglass is made is always a great way to draw people in to talk. The new department stickers also helped with that as well. Then Keramos was able to demonstrate many of the interesting sides of materials science to these students with our typical glass and crystal structure demos. The jolly rancher fiber pull demo was also a big hit. These outreach activities were successful in reaching far more college students than normal.

Open Houses and Field Trips

Throughout the year, middle and high school students take trips to the Missouri S&T campus, and Keramos and Material Advantage take advantage of this opportunity to show them exciting demos. The same thing is done whenever prospective students and their families visit on open house days. We bring these students into the lab and cover many relevant topics in materials science and engineering. These topics include things like crystal structures, glass forming and dopants, heat treatments, semiconductors, and particle packing. For these visits, Keramos usually also incorporates the tempered glass demo, a glass fiber pull right out of the furnace, the space shuttle tile demo, and a thermal shock demo with alumina if there is time. The students always seem to enjoy this time in the lab, and we make sure to give the younger students some of our old take home experiments that were originally created by Dr. Reidmeyer.

Ceramics in the Modern World Demos

Keramos members aided our advisor in giving the demos about slip casting and glass science to the introductory ceramic engineering class. It is generally the first class that incoming freshmen and sophomores take and gives a brief introduction to all of the different aspects of ceramic engineering. The slip casting demo consisted of showing the students the mud lab and explaining the process of what goes into a slip cast. The glass demo consisted of walking the students through several topics of glass science, from the raw materials and colorants to special applications within the medical and nuclear fields. Two physical demonstrations performed with the students were tempered glass breaking and pulling of a glass fiber.

B. Professional Development

Etiquette Dinners

Each year the Missouri chapter of Keramos holds two etiquette dinners for members of Keramos, students, faculty, guests, and industry professionals. It serves as an opportunity to learn how to dine and conduct yourself properly in a professional setting. The main goal of the dinner is that attendees are able to develop good habits and they leave with an increased knowledge of culture and technique for formal dining. The dinner is sponsored by an industry company, which allows for networking opportunities for our students and faculty with professionals from the company.

The Fall 2022 etiquette dinner was hosted in conjunction with the American Foundry Society (AFS) at Just a Taste in St James, MO. The dinner was sponsored by Nucor. Dr. Mario Buchely led the dinner presentation that night, informing attendees of the Do's and Don'ts of formal dining through humorous pictures. A total of 67 people attended the dinner, including four representatives from Nucor: Ashish Singh, Jaeger Schlumpberger, Obina Ababa, Madhuri Varadajan, Kim Johnston, and Jack Weaver. Several prizes, brought by Nucor attendees, were awarded throughout the night by use of a random name drawing.

The Spring 2023 etiquette dinner was at Just a Taste in St James, MO. The dinner was sponsored by Kohler and had 38 people in attendance, including 3 representatives from Kohler: Megan Doege, Elizabeth Roberts, and Jordan Christian. Dr. Anthony Convertine led the dinner presentation, complete with new pictures and slides of faculty professors acting out the Do's and Don'ts of proper etiquette. Prizes brought by Kohler were once again awarded to attendees through a random name drawing.

Lunch and Learns

Keramos hosted seven Lunch & Learn seminars over the 2021-2022 academic year, with one more planned after. The Lunch & Learns consist of interactive, informal presentations and sandwiches or pizza. These are open to all students, and are intended to provide resources on careers in the ceramic engineering industry.

This year two of the presentations focused on preparation for the Missouri S&T Career Fair. Experts on ceramics and metallurgy from GE Research and an expert on glass and ceramics from OI glass also presented to the chapter. Dr. Darryl Butt led a discussion about his experiences in the ceramic engineering field. In all, Keramos students were able to learn about jobs at Kohler, Los Alamos National Labs, GE Research, and OI. An expert on materials in

nuclear engineering also presented to the chapter.

2021-2022 Lunch & Learn Presentations

Topic	Presenter	Date
S&T Career Fair Preparation	Missouri S&T Career Opportunities & Employer Relations	September 23, 2022
GE Aviation	Andrew Jacobs and Halle Bischoff, GE Aviation	September 26, 2022
Life Lessons from Fulltime Engineers	Megan Doege and Stephanie Soendker, Kohler	November 16, 2022
Radiation Effects in Ceramic Materials	Dr. Joseph Graham, S&T Professor of Nuclear Engineering	December 30, 2022
S&T Career Fair Preparation	Missouri S&T Career Opportunities & Employer Relations	February 15, 2023
OI Glass	William Pinc, OI Glass	February 22, 2023
Career Progression: From Industry to National Labs to University	Dr. Darryl Butt, Dean of College of Mines and Earth Sciences at University of	April 6, 2023

Career Fair Prep

Two resume review sessions were held over the course of the year, one before each semester's career fair. Resumes from Keramos and department members were sent in for review by the Keramos Executive board two weeks prior to the career fairs. This helped members to improve their resumes and have a better chance of finding an internship or job. Mock interviews were also held the week prior to each career fair. Members were paired with a faculty member who volunteered to host the interview. Each student's interview was 30 minutes and they were asked several common interview and behavioral questions. This event helped members to prepare for the career fair and gain confidence for any future internship or full-time position interviews.

Graduating with Honors

This is an honor given to the outstanding members of Keramos. Graduating seniors are able to wear blue and gold honor cords at graduation and seniors who receive the graduating with honors distinction also get to wear a Keramos gold pin. Seniors fill out an application and write about the following criteria and how they went above and beyond: departmental activity, professional development, research, and other campus involvement. Any E-Board members who are not graduating evaluate the responses and choose the top candidates as compared to the rest of their class.

C. Service to the Community

St. Patrick School Science Fair

On January 26, 2023, members of the chapter assisted at the St. Patrick School Science Fair by helping judge. This is an annual event hosted by the school in which students in grades 5-8 spend several weeks researching and conducting a science project. The students then prepared a poster board detailing the entire scientific method they used during the experiment. The event was able to be held in-person this semester with accommodations made to be safe such as all participants wearing masks and only one class presenting at a time. Keramos members aided in the judging process, in which each student was seen by three different judges and asked a series of questions to gauge how well they understood their project. Judges then completed a short scoring rubric to help determine the winners from the fair. Fair winners were then eligible to compete in the next level of competition.

Keramos' participation was vital to the success of the fair and ensuring that the fair ran smoothly. Keramos was able to provide the number of judges necessary for each class to shift their schedules by less than an hour for judging. We also were able to provide a unique viewpoint of a student while still having the knowledge of several science topics. Finally, we gave the students feedback on their projects and presentation skills based on our previous experience in giving presentations.

STEMfest

STEMfest was an event created for the community in association with the 150th anniversary celebration of Missouri S&T. The event consists of many of the school's math and science based student organizations putting on interactive activities for younger students and their parents. We were able to bring our cotton candy and jolly rancher demo which always gets people excited about materials science. We also brought out liquid nitrogen to show the kids

superconductors in action and have some racquetballs shatter. Biomaterials were also showcased with Dr. Convertine's 3D printers. The event was rather successful for letting the community know what Keramos is all about and how they can get involved. Hopefully, the school will continue to put on the event every year to promote all of the STEM fields. It was a great opportunity to see some of the youngest and oldest people in the community learning and asking questions all about materials science.



Christkindl Market

Each December, the city of Rolla hosts the annual Christkindl Market to celebrate the holidays and Rolla's sister city in Germany. The event is a local favorite and is filled with entertainment, food, and local arts and crafts vendors. Keramos partnered with Material Advantage this year to set up a booth for the Materials Science and Engineering department where we passed out cotton candy and small items with department information. All proceeds from the event were donated back to the Christkindl Market to help them have another successful event next year.

Spring Banquet

Keramos will organize and host the Materials Engineering (MSE) department spring banquet dinner to be held on April 20 at Matt's Steakhouse, with 100 anticipated guests. The banquet serves as a way to honor everyone that has contributed to the department this year and to appreciate what we've accomplished together. Several awards will be given, including the recognition of outstanding undergraduate students, outstanding graduating students, outstanding graduate students, and outstanding faculty members for both the ceramic and metallurgical engineering fields. Other awards will be presented by student groups to Keramos members graduating with honors. All award winners are nominated by faculty and voted upon by both faculty and students in their respective fields.

D. Fundraising

Miner Jobs for Major Cash

Each year, the Missouri S&T Keramos chapter puts on a fundraiser known as "Miner Jobs for Major Cash" (MJMC), a pun off our school mascot Joe Miner. During these events, Keramos members will do miscellaneous work for faculty and staff in the Materials Science and Engineering department. Faculty members will make a donation to the Keramos chapter in return. In addition to the monetary value of these events, MJMC helps to introduce new students to faculty members and promote a community in the Materials Science and Engineering department.

This year, two MJMC events were held for two different professors. On September 18, 2022 a MJMC was held for Dr. O'Malley to rake leaves and do yard work. On February 24, 2023 a MJMC was held for Dr. Smith to clean out and organize his basement, as well as raking leaves and dead branches from his property. In total, the MJMC events raised \$120 and an in-kind donation of pins for Keramos members Graduating with Honors.

March Madness Raffle

This year, we ran a 50/50 raffle drawing in conjunction with March Madness. When someone purchased a ticket, they got to pick a team from the tournament and if that team won they got 10 free tickets into the final drawing. Thanks to UConn, three participants were given extra chances. We raised just over \$150, so it was a successful fundraiser.

E. Networking and Social Events

Trivia Nights at Hopper's

In conjunction with Material Advantage, Keramos plans a chapter social at Wednesday night trivia at Hopper's Pub in Rolla. Trivia happens every week, but we tried to get as many people to come on the third Wednesday every month. While we may win a few rounds, everyone is there to have a good time. Often the money earned from winning a round goes toward an appetizer for everyone to share.

End of Semester Events

To make sure that everyone is awake and not hungry for finals, Keramos bought donuts and coffee to give out in the commons of McNutt for the first two days of finals week.



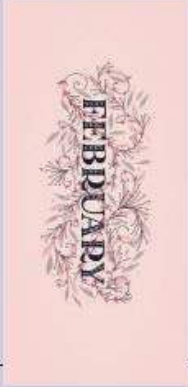

Keramos wants to end the Spring 2023 semester on a high note, so a bonfire is being planned at Dr. Huebner's house. This event will be open to everyone in the department and previous bonfires have been great stress relievers before finals week. Keramos and Material Advantage also put on a dinner at one of the local Mexican restaurants at the end of each semester to serve as a send-off event for the seniors. They were both nights of storytelling by both the professors and graduating seniors. It is always sad to see the seniors go, but these send-off events are light-hearted and help us to remember all of the great things our friends have accomplished.

F. Alumni Engagement

Alumni Keragram

Keramos has continued to send a monthly newsletter, titled Keragram, to the chapter's alumni. The Keragram keeps the alumni updated with some of the events that happen within the department and Keramos's involvement on campus and in the community. The Keragrams allows

us to stay connected with numerous alumni which has allowed us to find speakers for lunch and learns and other events.

<p>Keramos Date: February 27th, 2023</p>	
<h2 style="text-align: center;">Keragram</h2> <h3 style="text-align: center;">SEE WHAT KERAMOS HAS BEEN UP TO RECENTLY!</h3> <h4>MINOR JOBS FOR MAJOR CASH</h4> <p>On February 25th, we had our first MJMC for the semester. Keramos was able to help out Dr. Smith. They helped with yard work and helped organize his basement storage rooms.</p> 	
<h4>NEW EDITOR ALERT</h4> <p>Hello everyone! My name is Rose Himmel and I am the new Historian for this semester. I am a junior majoring in Ceramic Engineering and minoring in Chemistry and Studio Art. Last semester I was on Co-Op with Bayer. I enjoy drawing and painting in my free time and I also enjoy spending time with my dog. I am excited for what the semester has to bring.</p> 	<h4>FEbruary EVENTS</h4> <ul style="list-style-type: none">• February 15th: Lunch and Learn with COER• February 22nd: Lunch & Learn with O-I Glass• February 25th: MJMC <h4>FUTURE EVENTS</h4> <ul style="list-style-type: none">• March 23rd: Initiation• April 2nd: Etiquette Dinner• April 20th :Spring Banquet

Keragram

HAPPY SPRING!

KERAMOS INITIATION

Congratulations to our new initiates! On March 23rd, we initiated seven new Keramos members. Pictured from left to right is Elizabeth Stump, Kiley Piatchek, Taylor Murphy Corey Sullens, Hannah Scott and Derek Martin. Not pictured but initiated as well is Grace Epp.

Some of our professors attended as well to welcome the new members. After initiation some members, professors, and initiates gathered at Alex's Pizza in celebration.



MARCH FUNDRAISER

Keramos this month decided to raise money by doing a 50-50 raffle related to March Madness where donors purchased tickets and selected a winning team for a chance for more entries into the raffle drawing. The winner of the 50-50 raffle was Holly Smith. Congratulations to Holly and we thank everyone who participated and donated to Keramos for future events.



MARCH EVENTS

- March 23rd: Initiation

FUTURE EVENTS

- April 2nd: Etiquette Dinner
- April 20th :Spring Banquet

G. Convocation and Conferences

Another focus for the Missouri Keramos Chapter this year was to have a large group of students attend and participate in the MS&T 2021 student competitions. We were glad to have many Keramos students from our chapter attend the MS&T 2021 conference as well as the annual Keramos Convocation. Both of these were very important to us this year as they were

fully online in 2020.

MS&T 2021

There were around 10 of the Missouri Keramos Chapter members that were able to attend MS&T this year. They had many opportunities to learn about novel research and network with many other students and industry professionals. The Missouri Chapter came to the conference with a few entries into the student competitions. We had one student compete in the poster competition and several entries in the disc throwing competition. Unfortunately, several mug drop entries broke prior to the conference. This year we were lucky enough to have Makayla Gamiel take 1st in the aesthetic disc competition. Many of the other students participating placed as well, including a 2nd place finish for Will Codner in the disc golf contest. The conference was a great way for Keramos to connect and do more events as a chapter.



Keramos Convocation

Convocation was presided over by Katherine Cissel and the Keramos National Student Representative Aidan Ravnik. The Missouri Chapter was fortunate enough to have five members

in attendance. There were only three chapters present at convocation this year: the Colorado Chapter, the Illinois Chapter, and the Missouri Chapter. Each president gave a report of the previous year's activities. The Missouri Chapter was happy to win the Outstanding Chapter Award and the Diamond Award.

H. Miscellaneous

Officer Changes

There were lots of changes between the Fall and Spring semesters as several officers were graduating or transitioning away from positions. Jacob Stacy stepped away from the president position to focus on grad school and was replaced by Jack Vortmeier. Krista Hilmas graduated in December and the vice president position was filled by John Paul King. Since Jack moved into the president position, Amelia Martinez took over the secretary position. Julie Johnston graduated in December and the historian position was filled by Rose Himmel

IX. Executive Summary