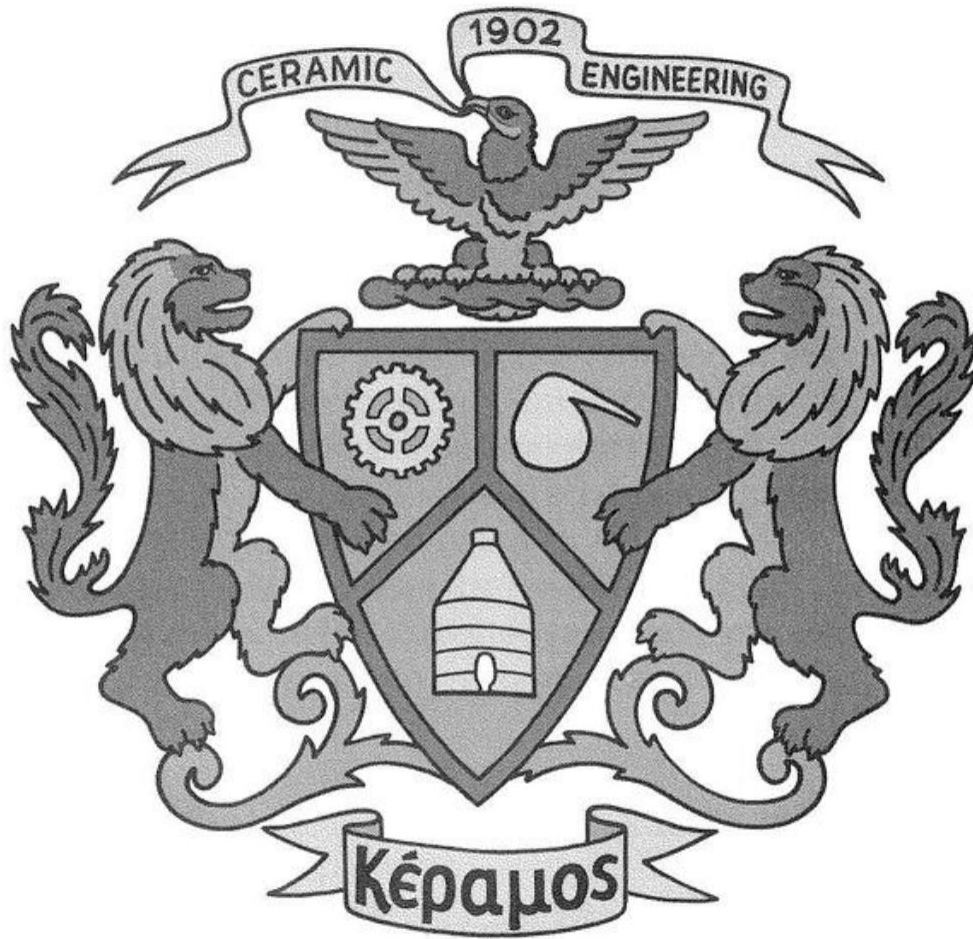


The Colorado Chapter of Keramos



Colorado School of Mines
2016-2017 Annual Report

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I. Chapter Advisor Executive Summary

Keramos finally has a chapter in Colorado! Our chapter is still getting off the ground, but we have a lot of energy and expectations for the coming year. The majority of the chapter efforts in the past year were dedicated to creating a robust framework (particularly in terms of relationship with the local--and very successful--MA chapter) that provides opportunities for a distinct Keramos identity in a way that complements without detracting from or threatening the established MA chapter. The current ceramics footprint at Mines is tiny compared to the strong metallurgy tradition, but it is growing, and the Keramos chapter will serve as an effective nucleation site, particularly as the managing organization of the new hot glass shop. We look to build on the strong Keramos tradition by learning from other chapters.

Geoff Brennecka

Keramos Faculty Advisor – Colorado Chapter

II. Annual Plan for the Upcoming Academic Year

As this year was the founding of the Colorado Keramos Chapter, the Chapter has been busy with its installation and the planning the next year's events and activities. The plan is to operate Keramos at Mines as a cooperative society with the Colorado School of Mines Materials Advantage (MA) Chapter, as all of the current initiates into Keramos are members of the MA Chapter. The Chapter plans to work toward providing experiences that MA traditionally has not. Throughout the past year the Chapter has met in conjunction with MA, but the plan is to organize independent Keramos meetings to meet biweekly; these meetings will consist of chapter updates and business to be conducted in the half hour preceding the MA meetings. Further, communication between the executive board and the Chapter will be increased through publishing a biweekly email with updates on chapter proceedings and events. The Chapter plans to compose an annual Keragram newsletter to update current members and alumni on events and developments within the Chapter.

The newly formed Chapter will be looking to provide industry contact in the form of trips to facilities to supplement the wealth of speakers that MA already brings to campus. One industry tour will be scheduled per semester, to expose students to real world materials processing, in hopes that these tours will solidify interest in ceramic engineering and provide students with valuable networking opportunities.

With the implementation of a brand new hot glass shop on campus, the Chapter will take over responsibility of the management of this facility. To most effectively do so, the Mines Keramos chapter will have a special committee dedicated to the operation, organization, and maintenance of the hot glass shop. Operation of the hot shop will include training qualified users, hosting university and community groups for, performing outreach demonstrations, and execution of group glassblowing workshops for glass sales and gifts for distinguished individuals.

Outreach efforts will be increased to communicate with other materials students and prospective students the message of Keramos and the value of materials science and engineering. The Chapter will host Demo Days for university students and administrators once per semester to showcase the capabilities and focus of the ceramics and glass laboratories and research groups. Demo Days will be put on once per year in the spring semester. This will also allow freshman engineering students to be introduced to materials science as a focus before they officially declare their intended major, and will hopefully result in an increase in enrollment to Metallurgy and Materials Engineering department.

III. List of Officers

Outgoing Officers (2016-2017)				
President	Kerry McQuaid	██████████ ██████████	██████████	██████████████████ ████
Vice President	Michelle Hoffmann	██████████ ██████████	██████████	██████████████████ ██████████
Treasurer	Josh Pelz	██████████ ████	██████████	██████████████████ ██████████████
Secretary	Ian Brummel	██████████ ██████████	██████████	██████████████████
Herald	Jake Ivy	██████████████ ████	██████████	██████████████ ██████████████

Incoming Officers (2017-2018)				
President	Katie Gann	██████████ ██████████	██████████	██████████████████ ████
Vice President	Melissa Thrun	██████████ ██████████	██████████	██████████████████ ██████████████
Treasurer	Bernardino Arriaza	██████████████ ██████████	██████████	██████████████ ██████████████
Secretary	Andy Ericks	██████████████ ██████████	██████████	██████████████████ ██████████
Herald	Jake Ivy	██████████████ ████	██████████	██████████████ ██████████████

IV. List of Active Members

Active Members	Initiation Date	Email	Phone	Address
Kerry McQuaid	Fall 2016	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
Michelle Hoffmann	Spring 2017	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
Ian Brummel	Fall 2016	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
Josh Pelz	Fall 2016	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
Katie Gann	Spring 2017	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
Bernardino Arriaza	Fall 2016	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED] [REDACTED]
Melissa Thrun	Spring 2017	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
John Copley	Spring 2017	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
Brandon Cox	Fall 2016	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
Valerie Jacobson	Fall 2016	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
Jake Ivy	Spring 2013	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]
Michael Walden	Fall 2013	[REDACTED] [REDACTED]	[REDACTED]	[REDACTED] [REDACTED]

Faculty Advisor				
Geoff Brennecka	Fall 1997	██████████ ██████████	██████████	██████████████████ ██████

V. Graduating Members

- a. Katie Gann
- b. Josh Pelz
- c. Kerry McQuaid
- d. Michael Keller

VI. Honorary Keramos Nomination

As establishment consumed most of the Colorado Chapter's planning for the 2016-2017 year, honorary membership nomination was put off, and will be discussed in the 2017-2018 year. The Colorado Chapter is favoring nominating Dr. Ryan O'Hayre for an honorary membership based on his work on fuel cells within the Colorado Center for Advanced Ceramics, his status as a NSF International Fellow and a recipient of the Ross Coffin Purdy Award this year. Dr. O'Hayre has been an advocate for CSMMAC membership and participation, and has encouraged the presence of the Colorado Keramos Chapter.

VII. Treasurer's Report

The following spreadsheet shows all deposits and withdrawals from our chapter account for the Fall 2016 and Spring 2017 fiscal year. Due to 2016/17 being our first year, this spreadsheet is less detailed than those of future years will be. The account number, 330318, will change next year once the Keramos bank account becomes active within Student Activities. In terms of deposits for the past year, the Colorado School of Mines Student Activities Organization awards new clubs \$100 dollars to help get them off the ground, and 10 dues of \$5 each were collected from this year's members. The one withdrawal corresponds to purchasing graduation cords for the graduating Keramos members.

Keramos		\$124.81
Access:	MME Dept. Secretary	
Payment:	MME Undergrad Purchasing Card	
Use For:	Deposits (Dues, Donations, Rollover), Food, Demo Supplies, Glass Shop Supplies, etc.	

Name	Description	Withdrawal	Deposit	Current Total
Rollover	2015/16 Rollover		\$0.00	\$0.00
Stipend	SAO		\$100.00	\$100.00
Dues	Meeting 01/23/17		\$25.00	\$125.00
Dues	Meeting 02/06/17		\$15.00	\$140.00
Dues	Meeting 02/27/17		\$10.00	\$150.00
Graduation Cords	x4	\$25.19		\$124.81
Balance:				\$124.81

VIII. Chapter Activities

Founding of The Chapter

After much discussion with the national board, the Colorado Keramos Chapter received approval for the proposed bylaws. After which, the founding class was initiated by members of the national board as well as students from the Missouri chapter. Due to the newly formed nature of the chapter, a second induction ceremony was held during the spring semester to accommodate those learning of Keramos during the year.

Hot Glass Shop

As mentioned in the Chapter's annual plan above, provisioning and setup for a hot glass shop has been an ongoing project this year. During the fall semester, a melting furnace, annealer, and glory hole furnace arrived along with tools and a beginning stock of raw materials. At the time of writing, all heavy equipment has been moved into place in the Colorado School of Mines Foundry and is awaiting natural gas and electrical drops by facilities management.

Ceramics Expo Attendance

The current chapter vice president, Michelle Hoffmann, has received funding to attend the upcoming Ceramics Expo in Cleveland, Ohio. She will be joined by Dr. Brian Gorman, as well as another student that has expressed interest in Keramos, but has not been initiated. This will be her second time attending the Ceramics Expo, but first time attending as a Colorado Keramos delegate.

Plaque Making

The Chapter plans to hold a plaque making event toward the end of the semester in order to provide all newly inducted members with a Keramos plaque to signify their induction. The plaques will be produced by first 3D printing a plastic negative to be used for creating a slip casting mould. As soon as the mould has been produced, the Chapter will host members throughout the day to produce their own plaques as they are available.

IX. Executive Summary

Work on bringing Keramos to Colorado School of Mines started in the fall of 2015 with encouragement from the now Faculty Advisor, Geoff Brennecka. Prospective members reached out to and met with Kevin Fox and Brian Gilmore at the Annual Convocation in 2015. With advice from Dr. Fox and Dr. Gilmore, Dr. Brennecka and CSMMAC began advertising Keramos and recruiting members. Keramos membership recommendation and recruitment has continued through the 2016-2017 year, and interest has been significant enough to warrant an initiation ceremony for both the fall and spring semesters.

The Colorado School of Mines approved a draft of Keramos bylaws in April 2016, and was approved by the Keramos National Board in July 2016. The Colorado Chapter held its first initiation in November 2016 with aid from the Missouri Chapter and was overseen by Dr. Gilmore. Spring initiation occurred in March 2017. At the end of the 2016-2017 academic year, the Colorado Chapter consists of twelve members, including five graduate students.

Looking forward into the 2017-2018 academic year, the Colorado Chapter is poised to thrive. Two graduate student members that were initiated in the Missouri Chapter have generously passed along expertise to the Colorado Chapter. The incoming president, Katie Gann, will be a first-year graduate student and has a lot of passion to bring to the Colorado Chapter as it establishes itself in the department and alongside CSMMAC.

Kerry McQuaid

Keramos President - Colorado Chapter, 2016-2017