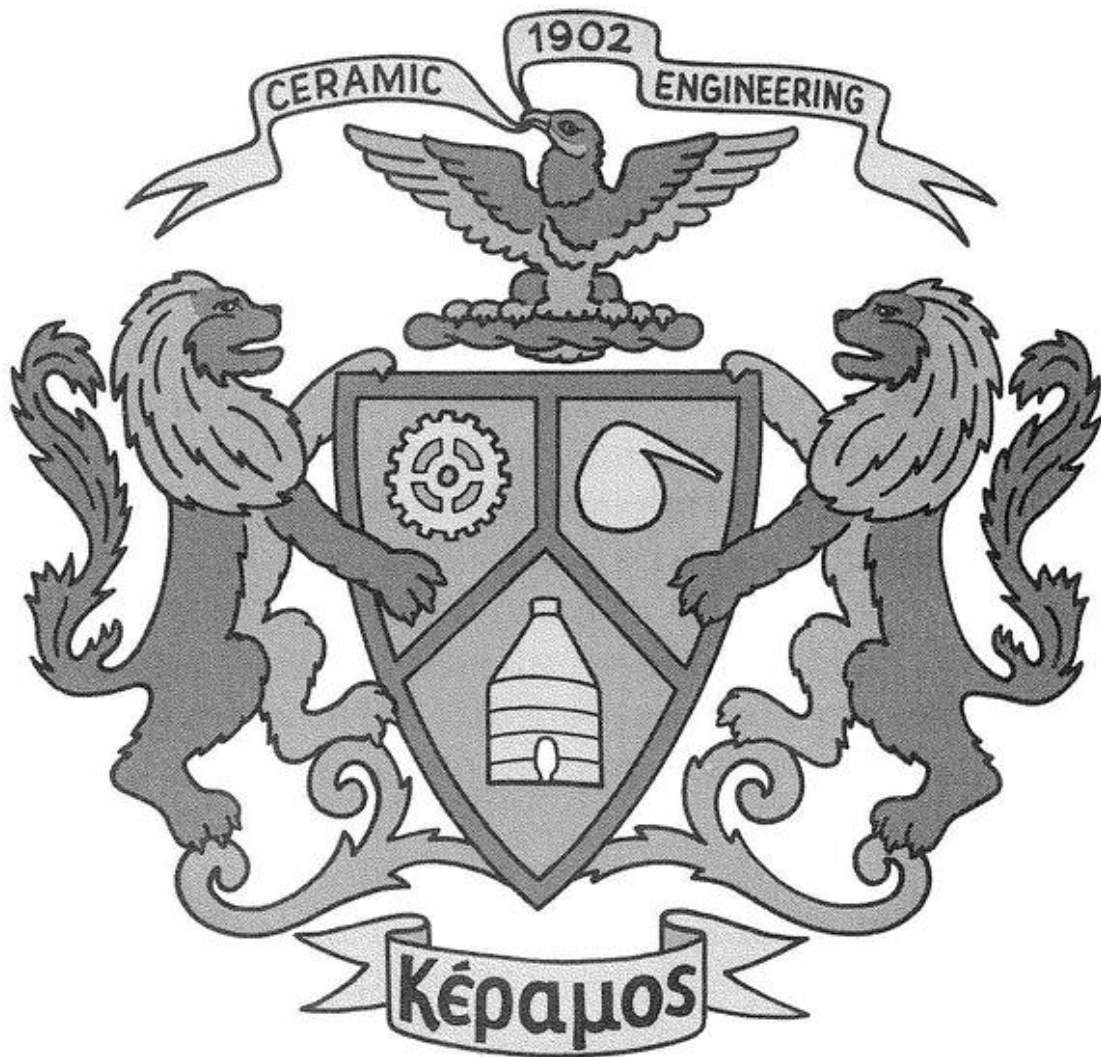


The University of Washington Chapter of Keramos



Executive Summary:

The University of Washington chapter of Keramos had no members carried over from previous years, so our chief goal was to increase membership, particularly with junior year students, who will be able to be active over several years. This is as opposed to focusing on seniors, who would only be active for one year. We hope to be able to maintain momentum with new membership as well as attract the membership of some of the university's graduate students.

The chapter also participated in many outreach activities at local schools and museums in order to increase interest in materials science and STEM subjects in general. It is our hope that the continuation of such activities in future years will foster a generation of budding scientists within our community.

Within this document is an enumeration and description of the main activities in which our chapter has participated thus far for the 2015-2016 academic year as well as our plans and aspirations for the future.

Fumio Ohuchi

2015-2016 Faculty Advisor

Annual Plan for the 2016-2017 Academic Year:

- **Increase membership:**
 - Introduce Keramos during freshmen and sophomore classes, as well as during the fall department orientation for UW MSE students
 - Have a t-shirt design competition and sale to increase awareness
 - Have our own mug drop competition open to all students within the department
- **Participate in the MS&T conference:**
 - Continue developing slurries and improving mug design
 - Coordinate transportation and lodging prior to the end of the academic year
- **Create easily reproduced outreach experiences:**
 - Create outreach demonstration kits with information and instructions such that they can easily be used at any time and without lengthy training
 - Develop demonstrations that are quick, have relatively little cleanup between runs, and provide useful learning to people with a broad range of educational backgrounds

List of Active Members:

Faculty Head: Prof. Ohuchi, Fumio

President: Joseph Myers [REDACTED]@uw.edu
Vice President: Adriana Raybould [REDACTED]@uw.edu
Secretary: Sierra Barajas [REDACTED]@live.com
Treasurer: Erica Robinson [REDACTED]@uw.edu
Outreach Coordinator: John Adolphsen [REDACTED]@uw.edu

Nema Rastami [REDACTED]@uw.edu
Fanqi Wang [REDACTED]@ew.edu
Joey Law [REDACTED]@gmail.com
Peyton Cholsaipant [REDACTED]@uw.edu

Treasurer's Report:

UW Keramos used utilized treasury funds to replenish ceramic supplies and to hold a barbeque, spending \$250 and \$150, respectively.

The purchased supplies include alumina powder, dispersal agents, gypsum mold mix, and fresh glazes.

Chapter Activities:

During the 2015-2016 school year, the University of Washington Keramos chapter focused on a few main activities. These activities are summarized as follows:

- Outreach-
 - An educational module is being developed to help High School students create ceramic mugs. A competition will be held to see which student group can create the most fracture-resistant mug. Students will focus on introductory atomic bonding and ceramic fractography in order to engineer stronger mugs from an engineering and atomic perspective.
 - Engineering Discovery Days- an event held by the University of Washington that gives science demonstrations to pre-engineering students to demonstrate what the field of engineering is like. Keramos will be holding a slip casting booth to demonstrate the basic process of ceramic production including pouring, green body formation, and sintering.
- General Meetings- General meetings were held which included both the undergraduate members and group leaders. During these meetings, future goals were discussed. Slurries were occasionally tested during the meetings, then left to dry until next week.
- Campus Involvement-
 - Additional meetings were held to promote Keramos to the Material Science and Engineering Department. Meetings generally consisted of food and games. The winner of the game competition would win an unglazed ceramic mug. They could then come to a later general meeting to glaze their mug.
 - Japanese International students were introduced to the procedure of slip casting, as well as thermal insulation properties of porous ceramics. The students were also taken on a tour of Seattle.

Summary:

We were able to rekindle membership in the UW chapter of Keramos after having zero members carry over from previous year. It is our hope that we can continue to rebuild membership to have strong representation in outreach activity and national competitions. While we say goodbye to our graduating seniors, we have faith that the remaining juniors will be able to make good progress toward this goal. With their help and participation, the club will continue to give our members hands on experience in ceramic processing, as well as share this knowledge with the other university students, and local high school students through outreach projects.