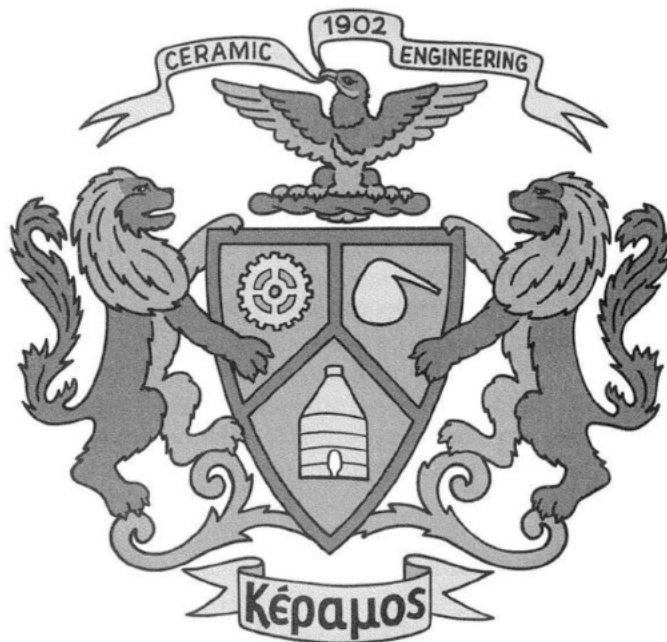


# KERAMOS STUDENT CHAPTER ANNUAL REPORT COVER SHEET



**Student Chapter Name:** \_\_\_ Rutgers University \_\_\_

**Academic Year:** \_\_\_ 2015 - 2016 \_\_\_

*I hereby submit the attached Annual Report on behalf of my chapter. The information contained within this report is accurate to the best of my knowledge.*

**Submitted by:** Denise Bion

**Date:** 05/16/16

## Executive Board

### Keramos Faculty Advisor (2015-2016):

Manish Chhowalla, Professor and Associate Chair - manish1@rci.rutgers.edu

### Keramos Executive Board (2015-2016):

President: Denise Bion ..... @gmail.com  
Internal VP: Max Kuciej ..... @comcast.net  
External VP: Casey-Ann Smith ..... @gmail.com  
Treasurer: Meredith Taghon ..... @rutgers.edu

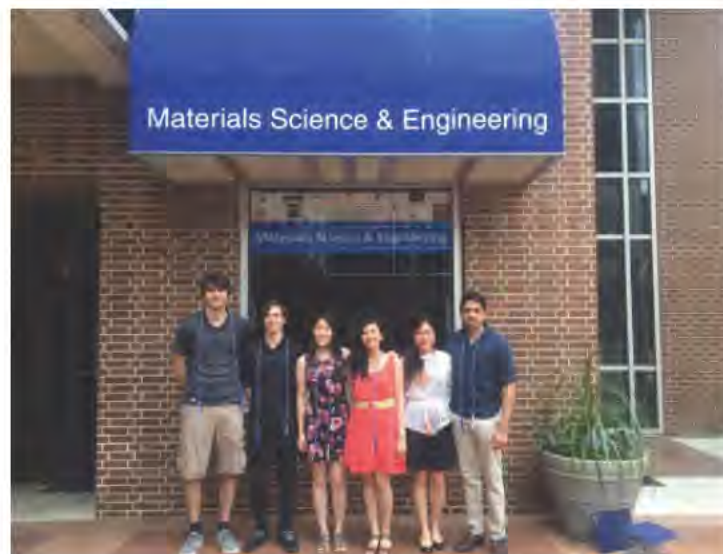
## Members

### Undergraduate Students

Ojaswi Agarwal  
Denise Bion - *graduating*  
Siddharth Borsadia - *graduating*  
Steven Cheng  
Amanda Chin - *graduating*  
Edmund Han  
Max Kuciej - *graduating*  
Zhenni Lin - *graduating*  
Benjamin Pearl  
Kelly Ruffenach  
Samuel Skran - *graduating*  
Casey-Ann Smith - *graduating*  
Joshua Tedesco  
Jamie Wooding  
Eric Zhang - *graduating*

### Graduate Students

Charlies Cao  
Ambar Deshkar  
Arya Tewatia



## CHAPTER ACTIVITIES

### Service

#### **Engineering First Year Kick-Off**

*September 2015*

Keramos participated in the EGC Engineering First Year Kick-Off event. As new freshmen went through their School of Engineering orientations in early September, many student organizations tabled at a campus courtyard to talk to the new students about their majors and clubs. Keramos members spoke to many students about material science and why it is a good major to go into. A crystal structure of diamond was displayed and those who guessed correctly about what it was got a free Material Science t-shirt.



#### **Senior Design Vs. Senior Lab Debate**

*November 17, 2015*

As the junior class began to make their second semester schedule, Keramos hosted a Senior Design Vs. Senior Lab debate to give the class some insights the two senior project options. In Materials Science and Engineering at Rutgers University, there are two tracks for students to choose for their final project in their undergraduate career that begins the second semester of junior year. Traditionally, 'Senior Lab' is geared towards a research-oriented path after college while 'Senior Design' is geared towards an industry-type setting for those who want to work right after graduating. Seniors finishing up their design and lab projects spoke to the juniors about what to expect from each choice and why they decided to go down that route. Overall, this was a very well received event and many students wanted to make this into an annual event.

## **Study Sessions**

*Multiple Dates throughout the year*

During the peak of exams, Keramos hosted multiple study sessions for students struggling with particular concepts for their upcoming midterm. The club provided donuts and coffee and an area to study. At these meetings, underclassmen asked for help in particular topics they didn't understand fully and upperclassmen were happy to review the concepts with them. Study sessions were implemented due to a high demand for more tutoring for particular subjects when professors and teaching assistants were unavailable in the later hours of the day.

## **N.E.R.D. Olympics**

*February 8, 2016*

This one of EGC's biggest events that has various engineering societies host numerous activities relating to science and engineering. This year's Keramos table had an activity called "Periodic Table Bean Bag Toss" where people would try to make a compound by tossing two beanbags onto a big periodic table and create as many compounds as they could in one minute.

## **SWE Major's Night**

*April 7, 2016*

Working with the Society of Women Engineers, Keramos gave a talk during the SWE Major's Night event where students were invited to give a presentation about their major and societies. Two members of Keramos spoke about why they decided to major in Material Science and Engineering and the benefits of being part of Keramos after declaring their major.

## **MSE Night**

*April 2016*

This event is for freshman engineers to show them what the MSE department has to offer before they officially declare their majors. Student volunteers would act as tour guides to various labs and to share their experiences throughout their years in MSE. This is one of the larger recruiting events for the department in which majority of the Keramos members dedicate the time to help in any way possible.

## **Rutgers Day**

*April 30, 2016*

Prospective students and families come to Rutgers to see what the university has to offer. The MSE department and organization reached out student members to explain various aspects of MSE, using various demonstrations and activities. This year, the activities varied to making crystal structures out of gum drops and toothpicks, serving ice cream made from the use of liquid nitrogen, a quicksand demo, and a general information booth talking about materials science and engineering.

## **Professional Development**

### **Internship Panel**

*March 4, 2016*

Seniors who have participated in an REU or had an internship over the summer were invited to speak to underclassmen about their experiences. Some students who spoke included those who have interned at TerraCycle, Alcoa, and those who had an REU at MIT. The audience were also allowed to ask questions at the end giving the speakers an opportunity to explain how they got their internship, when was the best time to apply, and what they should expect during it.

### **Graduate vs. Industry Panel**

*March 10, 2016*

The discussion of Industry vs. Graduate School was a hot topic among senior MSE students. We reached out to alumni to give the students an idea of life after graduation. The panel consisted of MSE alumni who went straight to industry, straight to graduate school, or those who picked one and switched to the other. Panel members explained their experiences and gave valuable tips to audience members.

### **Plant Tour - Stryker**

*April 19, 2016*

Keramos reached out the Stryker Corporation, known for making biomedical implants and devices, and were invited for a plant tour in their facility located in Mahwah, NJ. Students were shown presentations regarding the many different products and were then later given a tour of the production lines and learned about the manufacturing process. Students were also given information about different internship opportunities and how to apply for them.

## **Social Activities**

### **Annual Game Night**

*October 2015*

In October, after the majority of the first set of midterms, Keramos and Material Advantage co-hosted a Game Night at the student center. Students were invited to come and enjoy a night of Moe's catering and multiple games from the Wii, Settlers of Catan, and other activities. At this event, there was a good turn out of students from all classes allowing sophomores, juniors, and seniors in material science to get to know each other.



### **De-Stress: Worry Stones**

*February 2016*

Keramos hosted a de-stress event where students made worry stones before the start of midterms. This acted as a stress-relief activity before exams begin followed by a study session where students had the option to ask for extra tutoring.

### **First Annual MSE Game Day**

*May 4, 2016*

During the annual MSE BBQ hosted by the graduate student association and the MSE department at Rutgers, Keramos and Material Advantage co-hosted the first annual MSE Game Day where a team of undergraduate students competed against a team made up of graduate students and faculty in various events. These events included a relay race, tug-of-war, and volleyball. This was a huge end of the year event with an amazing turn out. Those who participated in the games bought a team t-shirt designed by one of the Keramos members. All proceeds went to Imagine, a free year-round children's grief support center that serves NJ children age 3-18 and young adults 18-30 who are grieving the death of a parent or sibling, or who are living with a parent or sibling with a life-altering illness.



