Where Are They Now?

Brother Keith Monteiro graduated with a degree in computer engineering. He is now working at Invidi as an associate software engineer.

Brother Kevin Mehta graduated with a bachelor's degree in quantitative finance and a minor in pure and applied mathematics. He is now working at Protiviti.

Brother Zach Golebieski graduated with a bachelor's degree in mechanical engineering with a concentration in aerospace engineering. He is now working at the Naval Undersea Warfare Center in Newport, CT.

Brother Patrick Murphy graduated with a degree in electrical engineering and a minor in music and technology. He is now working at Schindler Elevator Corporation.

Brother Jeffrey Huber graduated with a bachelor's degree in electrical engineering. He is now working with BAE Systems in New Hampshire. He will be graduating with a master's degree in systems engineering in December.

Brother Logan Koester graduated with a degree in applied mathematics. He is now working in market research and studying to become an actuary.

Brother Shawn Maguire graduated with a bachelor's degree in chemical engineering. He is now attending the University of Pennsylvania for his PhD in materials science and engineering.

Brother Ryan Wilson graduated with a bachelor's degree in mechanical engineering. He is now traveling the country while searching for a job, waiting until the end of his trip to decide where he wants to live and work.

Brother Matt Heinrich graduated with a bachelor's degree in mechanical engineering. He is now continuing his studies at Princeton University. Brother Heinrich was also the Class of 2016 valedictorian as well as a three time All-American Tennis player and is the Stevens all time leader in wins.

Brother Jeremy Ocampo graduated with a bachelor's degree in mechanical engineering and a minor in pre-law. He is now working at General Dynamics Electric...
Boat in Connecticut.

Brother Brian Minevich graduated with a bachelor’s degree in chemical engineering. He is now pursuing his masters in material science at Columbia University.

Brother Ravi Sun, a nationally ranked swimmer for Stevens, graduated with a bachelor’s degree in biomedical engineering. He continues to pursue his academic interests at the University of Arkansas.

Brother Tommy Wolinski, one of the captains and top performers on the Stevens Swim team, graduated with a bachelor’s degree in chemical engineering. He is now working at Lindi.

Brother Sean Dirscherl graduated with a bachelor’s degree in civil engineering. He is now working in a rotational program with Weeks Marine.

On behalf of Rho-Omega we all want to say Congratulations to our new alumni! We hope to see you excel in your endeavors and do amazing things. Remember that Kappa Sigma is,

Not for a day, or an hour, or a college term only, but for life.

Leadership Conference Experience

By JACOB COUMANS

For all of us who were present at the 2016 Kappa Sigma Leadership Conference in Orlando, we were extremely proud to be part of something larger than ourselves. Being surrounded by brothers of different ages, backgrounds, and professions truly highlights the diverse brilliance that we offer to our respective college campuses and communities. Speaking to and learning from executive officers who have paved the way to leadership throughout their undergraduate careers inspired us as individuals to come back and constantly challenge ourselves for higher standards. We were all privileged to represent Rho-Omega specifically at this occasion as we continued to exemplify the true values of Kappa Sigma winning the Founders Award for Chapter Excellence and the Founder’s Circle award again amongst others. We also received the George Miles Arnold Cup for Ritual Excellence runner’s up which can be underlined by our Grand Master, Jesse Weaver, being elected to perform in the Model Initiation in front of nearly 2,000 brothers. Overall, it was a phenomenal experience where we learned to continue challenging and exceeding our standards, and truly be proud to be a Kappa Sigma. AEKDB.

A Look Into Iota

The Iota class consists of 11 brothers who come from various towns in New York and New Jersey. This is the 9th pledge class of the Rho Omega chapter since first being founded in January of 2012. Brother Christian Ribeiro was the top pledge brother of the Iota class. Since joining Kappa Sigma, members of the Iota class have shown strong leadership in the chapter and on campus as Residence Life Assistants or Orientation Leaders. We look forward to the continuous efforts of our new brothers as members of the Stevens and Hoboken communities and as future Kappa Sigma leaders.
Brothers Maguire and Minevich accepting a check from Stevens President Nariman Favardin for winning the senior elevator pitch competition, along with Janice Frontera, a sister of Delta Phi Epsilon.

Success at Senior Design Expo

Nuclear Solutions is a chemical engineering senior design team comprised of Janice Frontera, a sister from Delta Phi Epsilon Sorority, and Shawn Maguire, Brian Minevich, and Tomasz Wolinski, all brothers of the Kappa Sigma Fraternity. This group aims to provide an innovative method for separating uranyl nitrate from dissolved spent nuclear fuel (SNF) through a crystallization technique along with additional unit operations. This process allows for safer, more efficient, and more sustainable practices. Indian Point Energy Center, located in Buchanan, New York, was used as a base case for design. Currently, a 50 year old liquid-liquid extraction method is used for nuclear fuel reprocessing at nuclear energy facilities in France and Japan. However, the nuclear energy facilities within the United States do not use this technique, but rather store SNF using dry cask storage, and contribute to the Nuclear Waste Fund. Nuclear energy facilities in New York and New Jersey store nearly 3,950 metric tons and 2,940 metric tons of nuclear fuel, respectively. To date, New York and New Jersey have contributed $1.02 billion and $782.5 million, respectively, to the Nuclear Waste Fund. Across the country, almost 75,000 metric tons of nuclear waste has been generated with over $21 billion contributed to the Nuclear Waste Fund.

Nuclear Solutions aims to allow for the reprocessing of SNF which in turn eliminates storage costs of nuclear waste. Advantages of this novel recrystallization process for reprocessing spent nuclear fuel are sustainability, employee safety, waste volume minimization, and cost reduction. Using the simple separation process of crystallization through solubility control, the amount of nitric acid solvent needed is reduced compared to the existing liquid-liquid extraction method. The process uses a simple design to minimize the amount of moving parts and equipment that can be contaminated with nuclear particles. As a result, this reduces employee exposure to the radioactive material being processed. Nuclear Solutions offers this process to nuclear power plants across the United States at an initial expense of $1 million with annual expenses of $2.4 million. The current liquid-liquid extraction process costs a minimum of $500 per kilogram of crystal produced, whereas our process allows for the production of crystals at an estimated cost of under $100 per kilogram. In conclusion, Nuclear Solutions offers safer practices due to limited exposure to radioactive material and increased efficiency through reduced cost and storage volume, while saving a valuable resource.

Nuclear Solutions participated in the Ansary Business Services Pitch Competition held during the 2016 Innovation Expo and placed first in this competition after presenting a two-minute ‘elevator pitch’ to a panel of judges comprised of entrepreneurs, CEOs, and venture capitalist. This was a major accomplishment highlighting the efforts of the group on developing the business viability of this project. Nuclear Solutions was also invited to participate in the campaign kickoff for the Power of Stevens fundraising initiative. This event was an “Innovation Festival” where 19 teams of Stevens students and faculty presented research, devices, services, etc. that have been developed at the university. The team was thankful to have been invited to present our project to Stevens alumni, the Board of Trustees, donors, and others and we are hoping to continue working on this project in the future.
It was a successful semester for service in our chapter. Our service chair, Brother Zachary George, and our fundraising chair, Brother Sean Dirscherl, did a spectacular job of coordinating with companies and organizing events for our brothers to participate in. Some of our returning events include One Day Without, where our brothers and other Stevens students paid for a T-shirt denoting what they would be going one day without to honor the troops. Through this we raised $900 for the Military Heroes Campaign which aids veterans and their families across America and Canada, part of A Greater Cause. Another returning event (and a campus favorite) is our Kitten Party, which is co-hosted by the service fraternity Alpha Phi Omega. This event, where general admission allowed students to play with kittens, raised $450 towards the Liberty Humane Society. Another collaborative event we participated in with the sorority Sigma Delta Tau was making PB&Js for the Hoboken Homeless Shelter. Our brothers also continue to volunteer at the Hoboken Homeless Shelter location, as well as devote countless hours working with Habitat for Humanity.

In addition to these events, there were also some new ones. In particular, Brother Dirscherl spearheaded his original “Brunchraiser” initiative. The event was held at our Kappa Sigma house, where brothers made, served, and delivered breakfast to Stevens students on and off campus. The proceeds went towards aiding Steven Hensle, a Brother of Kappa Sigma at Stockton University who was diagnosed with brain cancer. We were able to raise about $420 for Brother Hensle. We also did our very first Polar Plunge. In February, brothers acted as sponsors to essentially “get paid” by friends and family to plunge into the icy waters of the Jersey shore. This event was a huge success, as we were able to raise $2,123 towards the Special Olympics of New Jersey. This spring, Stevens also brought on a version of Penn State’s famous THON, which raises money for children battling cancer. The same weekend as Stevens THON was a returning event, Relay for Life, which also supports cancer research. Our fraternity was able to raise $220 between the two causes.

Besides our fraternity-affiliated service events, brothers also took it upon themselves to participate in their own initiatives. These include tutoring, coaching, conferences, and much more. Most of these were done through other Stevens organizations and sports teams. For example, the Student Athlete Advisory Committee set up a weekly program (endearingly called the “Duckling Program”) in which every Friday, Stevens student athletes could travel to various local elementary schools to teach kids STEM-related material. The total amount of individual hours completed in our fraternity was about 670, so each of our brothers completed, on average, 7 to 8 individual hours.

Between all 86 of our active brothers, we found that we had completed just under 2,000 total hours of community service this semester, meaning that on average, each brother served for about 23 hours. The money we fundraised to various groups and organizations totaled to $4,640.
“Millions of Dreams Need Strong Shoulders.”

By ZACH GEORGE

Doing service has been something that I have enjoyed doing for a while. I never thought that this passion of mine would grow, but once I was initiated in spring of 2015 into the Rho Ome-ga chapter of Kappa Sigma, it has grown tenfold. Joining this chapter has provided me with a great group of men that enjoy giving back the community as much as I do and the opportunity to serve as the A Greater Cause chairman for two semesters. The amount of lives that we serve and the remarkable memories we have made through service are ones that we remember when looking back at our years as undergraduates. Through all of this, I had gained a deep connection with service; however, I can say that after this past summer, I can say that I have a much deeper connection with it.

Last year, a trip was offered through our school, in which sixteen students, as well as our Greek advisor, Thea, could embark on a Global Service Initiative Trip to Jamaica. Immediately seeing this as a great opportunity to learn more of what it means to serve, I applied instantly, and about six months later, I was on a flight to go on this incredible journey. On this experience with me were also fellow Stevens Greeks Corrine Casey (Delta Phi Epsilon), Jane Cruz (Delta Phi Epsilon), Kelly Munyan (Theta Phi Alpha), Allison Waters (Theta Phi Alpha), Angelo Popper (Sigma Phi Epsilon), Cris Collado (Sigma Phi Epsilon), and Andrew Falcone (Theta Xi). Most of our work involved school repair; in which we would help paint walls and playgrounds, put cement on a playground wall, build the roofing of a dining pavilion (that was worked on weeks prior and weeks after we arrived), and construct a ramp to get to the dining pavilion. After our days of service, we would reflect on the service we did through discussions about various topics; service in comparison to helping or fixing, privilege, philanthropy, and global citizenship. Through all of our discussions and days of service and life-changing moments, I think the concept of the trip can be summed up in one phrase: millions of dreams need strong shoulders. This quote was featured in an article we read about Usain Bolt and the amount of respect he receives from Jamaican citizens. It was featured on a billboard promoting Digicel, a Jamaican cellular provider.

What this quote means to me is that in order to achieve the dreams that we have for this world, the support of multiple people toward this dream makes it happen, which reminds me of what we do when we do service through Kappa Sigma. Regardless if the event seems to have a negligible effect on society, the work that we do makes a difference when we serve together, whether it be a clear immediate effect or a long-term effect. Through our service and philanthropy toward the A Greater Cause campaign, we provide a change to those that are supported by the Military Heroes Campaign or other philanthropies. I am grateful to be a part of an organization where

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