CEER Inquirer

November 2019

Rolling into 2020!
NovaRacing

This month, NovaRacing finalized manufacturing plans. We've started to make jigs for welding tabs precisely onto the frame with a new QA process to make sure manufacturing is accurate. The aerodynamic molds also arrived this month and we're ready to shape our wings. Our aerodynamic leads, Harrison and CJ, are excited to begin the next phase of aero manufacturing. Come visit us in the garage located behind CEER or contact us at villanovafsae@villanova.edu to see how you can help out!
In November, the Society of Hispanic Professional Engineers (SHPE) continued its activities on and off campus. Along with SWE, NSBE, and SASE, SHPE hosted five alumni from the consulting firm T&M Associates to come visit and talk about their experiences to interested students on Taco Tuesday with T&M. Additionally, SHPE ran a booth during Special Olympics weekend working with moon sand, the kinetic sand that acts like play-doh (pictured). SHPE is also involved in planning for a CoE community service initiative focusing on diversity in STEM for interested local high-school students. SHPE's last activity in December is hosting its traditional end-of-semester dinner for its members. Learn more about our events and join SHPE by emailing villanovashpe@gmail.com.
AIAA

This month the AIAA has discussed a number of mini projects for club members to work on in the future. Additionally, discussions are being held to consider the different types of events that we would like to host in the future to attract new members. Updates will be provided in the near future about these discussions. Keep an eye out for an email from the AIAA after Christmas Break!

AIChE

This month, AIChE hosted an info session with guest speaker Dr. Maureen Tang, PhD., an assistant professor in the department of chemical and biological engineering at Drexel University. Dr. Tang discussed the different PhD projects Drexel currently has, the application process for the PhD program, and the different paths that are available for PhD students after graduation. Stay tuned for other guest speakers and info sessions we plan to hold in the future!

ChemE Car

Chem-E-Car has been working on improvements to our battery. We switched the main chemical in our battery paste from manganese dioxide (MnO2) to permanganate (MnO4). This improvement will lead to an output of 24 volts with our 3D printed casing, enough to power all aspects of our car.
This past November, the American Society of Civil Engineers (ASCE) board members attended a conference at Drexel University. There they participated in career-based workshops as well as lectures about the civil engineering world today and the future vision of the field as technology advances and our world changes. More informative and intriguing presentations in the upcoming months! For more updates and information, follow ASCE on Instagram @villanovaasce, or email us at asce.villanova@gmail.com.
ASME board members were able to attend IMECE: The International Mechanical Engineering Conference and Exposition in Salt Lake City, Utah earlier this month. At this conference, members were able to network with other student chapters, attend Collegiate networking events, and attend research talks that spanned multiple different areas of Mechanical Engineering. Later in November, 16 student members attended a site tour at Boeing in Ridley Park, PA thanks to the help of Professor Mike Simard who arranged the trip. Those in attendance were able to see the manufacturing floor for one of Boeing's helicopters as well as learn about the role an engineer plays at Boeing.
Over the past month, the Villanova CubeSat Club has done a lot of work in building our antenna ground station. This antenna will be positioned on the roof of Tolentine and will be able to receive radio signals in the 2-meter band from any satellite that happens to be in orbit above Villanova. We hope to have the antenna and ground station up and running by the end of the semester. The CubeSat Club is excited to continue its projects in the upcoming months. We plan on launching a balloon with the intent of receiving telemetry from its payload and to start the planning of a radio ground station.
IEEE

IEEE hopes you all had a great Thanksgiving break! IEEE is thankful for all their group members and opportunities that Villanova facilitates for the club. Earlier this month, IEEE hosted a fun, fall-themed soldering workshop that drew out students of all majors. Also, dedicated Executive board members attended the Philadelphia section’s IEEE Student Night Dinner. This event opened up a fantastic networking opportunity for the Villanova division. Finally, IEEE hosted an internship panel for all undergraduate engineering students where Villanova students who have had internship experience talked about how they got the opportunity and what skills they developed from the experience. This event helped students gain a better understanding of the process of applying for an internship as well as an understanding of the exposure in a real work environment. IEEE wishes all students good luck with finals as they approach!

ITE

This month, the ITE board members have been working to put together fun events for the coming months. We have scheduled a trip to tour McCormick Taylor. On this trip, students will have the opportunity to see the daily work of a transportation engineer. Furthermore, students will have the opportunity to have their resume reviewed by professionals currently in the working field. Email us at ite.villanova@gmail.com for any questions and to find out more about upcoming events.
This past month, we had the privilege of attending the annual Fall Regional Conference, where our members were able to receive interview opportunities and meet with other chapters in the region. Our seniors even received their stoles, which we are very proud of. We gave out bagels and coffee in CEER, which was a great way to meet other engineering students and spread the mission of NSBE. Following that, we had an event titled “CEER’s Declassified School Survival Guide”, where we had upperclassmen give tips and tricks on surviving college. Before the break, we joined together for a potluck, which was a great way to destress from classes and get to know each other. We look forward to what the next semester brings, such as our annual conference in the spring!
NovaCANE

During November, NovaCANE held its first ever trip to a new school, CCATE, where many SHPE members joined our team to attend an event there. We have continued to host trips at 4 schools this semester where we have done a Pumpkin Launcher experiment as well as a Water Filtration Experiment. We look forward to our upcoming trips in December where we will be doing our Gingerbread house experiment, which is one of our students favorites. Look out for more information regarding events and committees next semester!

NSPE

The VU Chapter of NSPE had the distinct pleasure of welcoming Dr. Peter Staffeld and four distinguished EIT panelists to campus for a Crash Course on the Fundamentals of Engineering Examination. With an attendance of 60+ Villanova Engineering Students, the presentation and panel-style discussion of the exam were both enriching and entertaining, and a second "Spring-edition" of the event will be held early next semester!
**OXE**

Omega Chi Epsilon has had an exciting semester as we have held many study sessions for Chemical Processes, Thermodynamics, Heat Transfer, and Process Design. In addition, we are currently preparing for a Congenital Heart Disease fundraiser called “Puzzle Box”, an immersive “escape the room” type competition. The puzzle box is in its final stages of set-up and will be ready for a full start up at the beginning of next semester! As the semester comes to a close, OXE will be hosting an all day Reading Day room.

**ESC**

Engineering Student Council has had an exhilarating month. To start, we held a Resume Review event with Engineering Alumni Society, where professionals came and helped students advance their professional careers. In addition, ESC hosted a cross-committee bonding event at the Franklin Institute, where 8 students participated in a space themed adventure. Members of the board contributed their thoughts and experiences at a Diversity and Inclusion committee meeting, and an academic climate on campus meeting. Contact has been made with the Counseling Center to host a mental health positive event in CEER for early next semester. In addition, ESC is closing out the semester by hosting one last, BIG meeting where we will be hosting a watch party for the Villanova vs. Penn game, a gingerbread house making contest, and announcing the new ESC President, Vice President, and Treasurer! It has surely been a busy end of the year.
This past month has been very productive for the PEERS organization. The first half of November was an exciting time for us as we had the opportunity to advise the new freshman as well as other students about the courses that they should be registering for in the spring semester. We showed them how to go about registering for classes at our Ice Cream Social and the PEERS did a great job letting their fellow students know all the information that they needed. After the social, some freshmen did come in to the PEERS office asking follow-up questions which we are always happy to answer. The rest of the month was spent continuing to help students that came to the PEERS office with their questions and are looking forward to continue to do so as finals approach in the coming weeks.

This month, Tau Beta Pi has been busy planning initiation for our new members, which will be taking place in December. We are so excited to have them join our organization! Additionally, we are planning programming for next semester, such as ordering graduation cords for the seniors or polishing the bent outside of CEER.
Pi Tau Sigma

Pi Tau Sigma is assisting Mechanical Engineering students with class tutoring as well as helping out on campus for any possible volunteering initiatives. The upcoming Beetlebot competition will include PTS members helping to setup the arena and organizing this fun, yet competitive, event for Sophomore Mechanical Engineering students. PTS has organized an Escape room activity for its members last month. So far, more than ten one-on-one tutoring requests have been fulfilled in the past couple of months with the aim of helping fellow students prepare for tests and better grasp course material. With finals right around the corner, the society will continue to reach out to get the word out about exactly what this club does and how to contact us with tutoring or general requests.
The month of November was a particularly busy one for Villanova SASE. The organization participated in many events and hosted certain events for the general body members. The first week of November is SASE Spirit week, and each day of this week represents something special about SASE. This week is recognized nationally, for all of the SASE chapters at different universities across the country. For example, November started with Special Olympics and one of the pillars of SASE is service, so to honor that pillar, some members of the club participated in the event at Jake Nevin Fieldhouse for the day. A few days after Special Olympics, SASE had a General Body Meeting to catch up with members and to let members in the organization know about upcoming events. For this GBM, E-Board members made ingredients for a Korean dish called Kimbap, and during the meeting, the general body members were allowed to roll their own kimbaps with the ingredients. November was also a busy month as SASE was interviewing candidates for the two open Freshman Ambassador positions, and an open Finance Chair position. The interview process went very well, and now the Executive Board is comprised of ten members, which will greatly help in the organization of group events. Overall, the month of November was extremely productive for SASE, and the club is heading in a very positive direction.
SWE members have had a very busy November, which started off with the annual Networking Dinner where professionals and students enjoyed a night of networking and dinner. Then, 12 members were able to attend WE19, SWE's National Conference, in Anaheim, California. Members networked with other SWE students and with many top named companies. Additionally, Villanova SWE was honored with a Gold Mission award, representing our chapters achievement in fulfilling the mission of SWE. During the remainder of the semester, members have been busy with events for our first ever NovaDANCE team, preparing to volunteer at a local home for senior citizens, and attending a Friendsgiving event!