The American Institute of Chemical Engineers has had a very active month. The AIChE conference held in San Francisco was earlier this month followed closely by the moment every upper chemE upper classmen has been waiting for.

It was a cold, dreary day, but there was football to be played and bragging rights to be won. The annual Junior-Senior Chemical Engineering flag football game was upon us, and it was not a disappointment. Two thirty minute halves were played and the final score was 38-31 with the athletic juniors taking the win. QB Nate Swain led the juniors with a dominant performance other than the dreaded pick six to senior Joey Reckamp. A special thanks to Dr. Staffeld for reffing a fair game.

National Society of Professional Engineers (NSPE)

The first weekend in November, the Villanova Student Chapter of NSPE participated in Olympic Town at Special Olympics handing out hot apple cider to all participates. VUNSPE would like to congratulate all senior who took the FE exam in late October! Contact nspe@villanova.edu with any questions regarding the next FE exam, registration and how to get involved with the club.
Formula SAE

Nova Racing held its first Mock Design Review this past month which gave the design leads a chance to review their design and practice presenting their systems to design judges. The Design Review was held in front Dean Gary Gabrielle and Sr. Associate Dean Jerry Jones who grilled the design leads with their questions. The team has also held a successful driver training session at the New Jersey Motorsports Park in Millville, NJ. 20 members drove down to the track and competed in a mini Gran Prix. Progress on VU06 has been slow but steady these past few weeks as design leads are figuring out what needs to be done before thanksgiving break and the even larger Christmas break to keep VU06 on schedule. For questions regarding our team, our cars, or getting involved, please feel free to contact Souhail Halaby at mhala-by@villanova.edu.

Engineers Without Borders (EWB)

This year EWB has projects in five different countries, sending trips out three times a year. The trips to Nicaragua and Panama are finishing up their deliverables on the work they accomplished over October break. The teams traveling to Cambodia, India and the Philippines are preparing for their trips over this winter break. These projects involve: UXO Detection and Remediation (Cambodia), School Construction and Solar Pumping System (Cambodia) Sustainable Building Design and Water Supply Project (India), Municipal Solid Waste Management and Landfill Design (pending confirmation Philippines). The members of EWB are participating in Water Quality Sampling and Analysis Activities each week, to educate everyone on techniques involved with water testing across various levels. With less than six weeks left until leaving for these various projects, there is still a lot of work to do!

American Society of Civil Engineers (ASCE)

The Villanova ASCE Chapter hosted a presentation from Larry Novak from the Portland Cement Association and had over 75 students in attendance. On Thursday, December 5th, a panel of professionals from the various disciplines of civil engineering will be speaking about their experiences in the working world. This will be a great event for underclassmen looking to learn more about CEE.
National Society of Black Engineers (NSBE)

This month, NSBE has been very active. We recently held our NSBE Jr. Kickoff in which we introduced our High School chapters to the world on engineering and college life in general. It was a great success. Another major event we had this month was the Fall Regional Conference in Charlotte, North Carolina. At the conference we discussed improvements that could be initiated in our chapters. It was also an opportunity to get to know other chapters and increase our network for potential collaborations on events. Various companies were also present and hosted a career fair in which we were able to network on a professional level. In terms of plans to come, we plan to host an event called FelizNOVAdad in December which allows current and potential NSBE members to come together and celebrate the holidays with games and food. It will be a good way to get ready for the holidays while promoting the NSBE brand. The event will be taking place Saturday, December 7th at 1:30pm in CEER 105. If you have any further questions, please contact us at president@novansbe.org. We would be happy to answer any questions.

Chi Epsilon

This month, Chi Epsilon has continued its tutoring services to the junior and sophomore civil engineering students. Tutors will be available as the fall semester winds down, and finals begin. We will be available for individual study sessions for students, and we will also host a study session on reading day for any last minute questions or help regarding finals. The selection process for new members is ongoing, and the planning and preparation of our new member initiation ceremony is now underway! The ceremony will take place next semester for the new inductees. Please, feel free to contact Kayla Spitzer at kspitz01@villanova.edu to schedule a tutoring time or to ask any questions you may have regarding finals or Chi Epsilon in general.

American Society of Mechanical Engineers (ASME)

This month ASME has a Philadelphia Section meeting with Widener and Temple to talk about Bio-mechanical engineering. It currently has members attending the ASME national conference and is looking for students who want to attend the student section conference in California. Additionally, members are beginning preparations for the battle-bot competition in early December. After a successful presentation about treasure hunting, ASME is also looking for more speakers to host on campus. A trip to see the Myth-busters live on tour is being planned as well as an information session on how to use design software such as MathCAD or SolidWorks.
Society of Women Engineers (SWE)

November is likely the Society of Women Engineers busiest month. We hosted our annual networking dinner for all engineers, male or female. This year we were privileged to hear Joelle Haughey speak. She is a chemical engineer who graduated from Villanova’s class of ’85. Eighty engineers, and professionals in the respective engineering fields, attended the dinner. Besides a fabulous meal, students are encouraged to network with the professionals. As always, this year’s dinner was a success. For more information, contact us at villanovaswe@gmail.com and join our VU Groups page. We are still looking for more followers on Facebook under the Groups at Villanova, or on twitter at #villanovaSWE.

American Institute of Aeronautics and Astronautics (AIAA)

AIAA is going to the American Helicopter Museum on November 23rd. As the only helicopter museum in the country, the American Helicopter Museum restores and displays historical aircraft and focuses on the science and technology of vertical flight. AIAA is rescheduling a meeting with inspirational speaker Dr. McAssey for December. Dr. McAssey has been involved in a plethora of engineering projects throughout his life and was a professor at Villanova University (he still helps out ME students through after school tutoring).

PEERS

PEERS is continuing to help freshmen adjust to the college of engineering, and I have seen increases in activity as my years in the organization have gone on. Not only have I seen an increase in the number of freshmen helped by our open office hours throughout the week, but I have also experienced more social interaction between CEER PEERS and their freshmen.
Steel Bridge

The steel bridge team has made excellent progress on this year’s design. As it stands now, most of the design has been fleshed out. The team will be utilizing a truss design in order to minimize weight, maximize efficiency, and decrease build time. The only major remaining obstacle is the design of the connections. This portion of the design is crucial because the connections have the most direct impact on build time, which is a major consideration for competition scoring. Additionally, sloppy connections will lead to poor performance during load testing. Over the next several weeks, two or three different types of connections will be prototyped and tested. This timeframe should leave ample time for completion of the final design before Christmas break. As always, anyone interested is more than welcome to join. Email Sam Parenteau at sparen02@villanova.edu.

Eta Kappa Nu (HKN) (Electrical and Computer Honor Society)

We’re starting to consider new members for induction, so be sure to look out for emails from us if you’re a CPE or EE! Also, we will be hosting a movie night in honor of HKN Founder's Day, showing Wall-e on December 5. We hope to see you there!

Institute of Electrical and Electronics Engineers

The IEEE is the society for Electrical and Electronics Engineers here on campus and we have several noteworthy events coming up. We are looking to join some group competitions including an event which involves an innovation competition with Disney World. Additionally we will be having an internship panel and this will be a great chance for any student to ask questions and learn how to not only get an internship for the upcoming summer but to make it a successful experience as well. Internships are an amazing way to gain real professional experience, provide networking opportunities, as well as help you find a career path, so this is not an event that you want to miss! Stay tuned for details on time and location. Also later on in the month there will be a general body meeting where we will talk in detail about future activates as well as inform you on possible networking events. See you soon and watch your email for details on more IEEE events!
Chem-E Car

The Driving Reaction group is looking to shift from fuel cells to chemical batteries. Most of recent efforts have been aimed at creating graphene supercapacitors, which can be synthesized from graphite oxide. The supercapacitors can be charged by a Daniell cell. This project is dependent on the arrival of graphite oxide, and has been on hold until all necessary materials can be gathered. There is also the option of a zinc-oxide battery, and the option is being explored. The stopping reaction is continuing its progress with gathering data for the iodine clock reaction and interpreting this data so that it can be used for precise time measurements by the time of the competition. The chasis team is experimenting with different designs of the car in SolidWorks. They hope to have a full model soon so that construction of a suitable car can begin.

NovaCANE

During the month of November, the members of NovaCANE will be making many trips to local middle schools. The Structures group has made a trip to Saint Martin of Tours in Philadelphia where they made a gum drop dome with the students. The sustainability group has also made a trip to Sts. Colman and John Neumann Elementary school to teach the students about chemical reactions. In the next week, two more structures groups, two mechanical and electrical engineering groups, and also a chemical and environmental group will be making trips to five other middle schools within the area.

Pi Tau Sigma (Mechanical Engineering Honor Society)

Villanova's chapter of Pi Tau Sigma has had a successful semester so far and our members look forward to continuing our tutoring efforts of engineering students. We have tutored many students in Heat Transfer and Fluid Mechanics, as well as other areas. If you would like tutoring help, please feel free to email chapter president Ryan Lester at rleste02@villanova.edu

Tau Beta Pi

Tau Beta Pi is the only engineering honor society representing the entire engineering profession. It is the nation’s second-oldest honor society, founded at Lehigh University in 1885 to mark in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character as students in engineering, or by their attainments as alumni in the field of engineering, and to foster a spirit of liberal culture in engineering colleges.

There are now collegiate chapters at 241 US colleges and universities, 32 active alumni chapters in 15 districts across the country, and a total initiated membership of approximately 545,000.
Engineering Student Council (ESC)

Engineering Student Council has been busy since October. During Fall Festival, the Freshman Committee planned an Arts and Crafts booth where athletes and family alike could decorate pasta and bead jewelry. The Community Development Committee planned and executed a canned food drive and a tie dye on the CEER patio which raised $105 to donate to Campus Ministry to use as they see fit. The Engineering Traditions Committee sold out tickets in 1 hour for the long awaited Engineering Formal on November 21st. ESC could not be more excited to see the whole college at the occasion.

Wishing all a very Happy Thanksgiving. May you have many things to be thankful for.