Engineering Club and Organization Updates

American Institute for Chemical Engineers

The American Institute of Chemical Engineers started out the year on a strong note by organizing a student-alumni networking event. The alumni included recent graduates of five years or less who mostly have jobs around the Philadelphia area, but some very dedicated alumni even flew in for this special event. This gave the Chemical Engineering undergraduates a chance to talk to people who were in their shoes just a few years ago and discuss what paths the alumni took; the students could even get a feel for what fields might interest them! The event was rounded out by some distinguished faculty coming to see some of their most recent students and chat about their achievements in the working world.

Arguably one of the most important things the American Institute of Chemical Engineers partakes in is the annual AIChE conference, which is being held in San Francisco this November. The conference will give students and teachers the opportunity to see some of the most recent work in Chemical Engineering and network with ChemEs from all around the world. This will help the Villanova chapter improve by hearing what other chapters achieve at their own schools. On a lighter note, AIChE is also hosting its annual Juniors vs. Seniors flag football game, which should also come around early November. Be sure to come out and support your favorite undergrads as they face off in this blood battle for bragging rights around the corridors of White Hall.

Institute of Electrical and Electronics Engineers

IEEE is has a few exiting things planned for this semester! We will kick off with a general body meeting which will be announced soon. We are also looking for guest speakers. If you have some inspiring ECE topic you would like to present, some helpful career advice to give, or would just like to present your company, do not hesitate to contact Eduard (ebachm01@villanova.edu). If you are an IEEE chapter member (or would to be one) and have suggestions for events, you are also very welcome to proposed your suggestions! IEEE is also investigating joint events with the IEEE honor society, HKN.
Formula SAE

Nova Racing’s VU05 was finally decommissioned in mid-September which has allowed the team to focus all its energy on VU06. The team has been busy all summer doing research and design work for the numerous systems on the car. And with the design freeze deadline fast approaching (end of September), design leads are now adding the final touches to their respective systems. There is much to improve from VU05, which did not perform as well as the team had hoped at competition. The team is motivated to improve on VU05 and carry on the knowledge learned from competition into the following season. Although from a design perspective VU06 will not differ greatly from VU05, the team is working hard on improving and understanding past designs in order to increase the car’s reliability and effectiveness at competition. 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)

EWB is off to a strong start this year with numerous projects in the works, including five international ones. So far, members have learned about each of the projects and have chosen the one they are most interested in working on. Additionally, this year we are working to incorporate more local projects and service opportunities under the lead of graduate student Gregory Morrin. The countries that we will be working include Panama, Nicaragua, The Philippines, Cambodia, and India. Over the summer a group of students travelled to Panama for three weeks, continuing research and work on the currently expanding water network. There will be two trips this fall break, one to Nicaragua and one to Panama. We are also planning on sending numerous trips to

American Society of Civil Engineers (ASCE)

The Villanova ASCE Chapter just finalized funding for the semester and is now beginning the process of contacting different companies about their interest in sending a speaker to campus to share their research / current projects. ASCE will be co-sponsoring the campus visit from Turner Construction on September 25th at 6:00 PM in Tolentine 210. ASCE is also working the ASCE YMF Philly to plan events with other ASCE Chapters in the area. We are looking forward to a great year!
Villanova Community Action by New Engineers (NovaCANE)

This year the engineering club Villanova Community Action by New Engineers (NovaCANE) is continuing their outreach to the middle schools of the greater Philadelphia area by adding even more schools and monthly visits. Members of NovaCANE will make trips to five different middle schools at least once a month starting in late September/early October to teach students engineering through hands-on activities. Villanova students will form groups to travel to Saint Martin of Tours in Philadelphia to teach the 6th, 7th and 8th grade; Saint Francis De Sales in Philadelphia to teach 6th and 7th grade; Villa Maria Academy in Immaculata to teach 6th and 8th grade; Ss. Colman-John Neumann School in Bryn Mawr to teach 7th and 8th grade; and they will also be going to Malvern Preparatory School in Malvern to teach 6th grade. Members of NovaCANE will also be participating in the upcoming Day of Service where they will be working on the rain garden at one of NovaCANE’s longest partnered schools, Saint Martin of Tours in Philadelphia.

Chem-E Car

This month was mostly an organizational month for the Chem-E Car Team. We had an informational meeting for new members where we discussed the team in general, and what we plan to do for the rest of the year. The individual teams are now beginning to meet weekly where they are carrying out their individual tasks. The driving team is experimenting with different reactions that will produce hydrogen that can be used as fuel for the hydrogen fuel cell. The stopping team is collecting data on the iodine clock reaction, and the chassis team is working on constructing a body for the car out of a more stable material, like wood.

American Society of Mechanical Engineers (ASME)

ASME is competing in Rowan University's Pumpkin Chunkin' event this October and will be building a catapult to launch a pumpkin over 100 ft. In addition we will be sponsoring a treasure hunter to come to Villanova and speak about the discovery of the largest wooden shipwreck ever found. Also this fall Villanova will be traveling to Swarthmore to meet at the Philadelphia Student Section Conference. ASME is looking for volunteers to help run this year's Beetle Bot competition in December and as always is open to suggestions for new events and speakers.
Institute of Transportation Engineers (ITE)

The planned events of the Villanova chapter of the Institute of Transportation Engineers along with events that have already taken place are as follows.

August: In August the ITE club was present at the activities fair held in the Pavilion.

September: During the month of September three ITE members, Adam Macker, Jonathan Mize and Michael Arensmeier attended the Student Development Leadership Conference on Sunday September 8th. The other event for the month of September will be the participation in the Villanova Day of Service later this month.

October: Planned events for October include ITE participation at the Villanova Special Olympics and a SYNCHRO education session that will be lead by Dr. Seri Park. A date and time for the SYNCHRO session has not yet been decided upon.

November: For the month of November the ITE club will look to bring a guest speaker/presentation to Villanova.

December: With the semester coming to an end the ITE club will hope to provide networking opportunities to Engineering students through guest speakers and presenters. Also for the month of December the ITE club will be looking for interested students to join them on a field trip to Independence Seaport Museum at Penn’s Landing.

American Institute of Aeronautics and Astronautics (AIAA)

AIAA is tentatively planning a trip to the American Helicopter Museum in November. 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.

PEERS

To start off the year, we were excited to welcome 16 new members. During orientation our 39 total members meet with the incoming class of engineers, each assigned a group of freshmen to mentor. We successfully ran a review session for the first test in the freshman engineering course with nearly complete attendance of the class of 2017. Our office hours have been heavily utilized by all years of engineers with help from calculus to upper level engineering.
International Society for Pharmaceutical Engineering (ISPE)

ISPE will be holding their initial meeting on September 23rd at 8:00 PM, in Bartley Hall – Room 3042. This will be a general body meeting and plans for the upcoming year will be discussed, which tentatively include having a speaker on campus, trips to networking sessions with people who currently have careers in pharmaceutical engineering and biotechnology, and possibly a tour of a facility. Free pizza will be provided at the meeting! This year one of ISPE’s main goals is to raise awareness of the organization on campus, especially emphasizing the multidisciplinary aspect of pharmaceutical engineering. If you would like to learn more or receive email alerts about the organization contact either Robert McGrane (rmcgra01@villanova.edu) or Lauren Woll (lwoll01@villanova.edu) to be put on the email list.

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

The Villanova Chapter of the Eta Kappa Nu Honor Society will be having its Fall Barbeque event Friday September 20 at the barbecue pit on South Campus, near the Spit. We also intend to begin our mentorship program in the coming weeks. Look for other events we plan to host this month, such as our Info Night and Scavenger Hunt!

Chi Epsilon (Civil Engineering Honor Society)

The fall 2013 semester has begun for Chi Epsilon. The civil engineering honor society is continuing its steadfast tradition of tutoring any student in need of help in any of their civil engineering classes. Please contact by email kspitz01@villanova.edu to set up a tutoring meeting. The Chi Epsilon members are looking forward to the upcoming school year and the great possibility of helping fellow civil engineers in their academics.
National Society of Black Engineers (NSBE)

So far, NSBE has worked to increase the membership of the organization, as well as the quality of the members. Along with making ourselves known at the activities fair, we hosted an ice cream social so that people could find out more about NSBE and meet new people. To increase the quality of our members we held a professionalism and resume workshop sponsored by Turner Construction Company. In this workshop, members were able to enhance their professional skills, making them more marketable to employers. It gave them full exposure to the professional world, enhancing their professional brand. Along with these events we are also looking forward to holding a kickoff event for two NSBE Jr. Chapters that we have adopted. If you have any further questions, please contact us at president@novansbe.org. We would be happy to answer any questions.

Society of Women Engineers (SWE)

The Society of Women Engineers started the year off strong with our first meeting, the annual ice cream social. Members are planning to volunteer with NovaCANE and attend Smart Start workshops. Additionally, a committee was formed to plan our upcoming networking dinner in November. Contact us at villanovaswe@gmail.com, or on Facebook under Groups at Villanova, or on twitter at #villanovaSWE.

Pi Tau Sigma (Mechanical Engineering Honor Society)

Villanova’s chapter of Pi Tau Sigma has welcomed twenty new members for the 2013-2014 school year. As a mechanical engineering honor society, the organization is founded on leadership and service. Its members are chosen based on sound engineering ability, scholarship, personality and likeliness to succeed in their respective fields (pitausigma.net). In accordance with its mission, Villanova Pi Tau Sigma members tutor undergraduate and graduate engineering students looking for a little extra help. If you would like tutoring help, please feel free to email chapter president Ryan Lester at rleste02@villanova.edu.
Engineering Student Council (ESC)

Engineering Student Council just finished recruiting for the 2013-2014 School Year, after a record turn out at the August activities fair! ESC is gearing up for a welcome BBQ for our new and returning members. ESC is extremely excited for the upcoming school year and already busy planning the Engineering Formal, and activities for the fall and spring.

Assorted t-shirts designed by our own engineers—available in CEER 309. Stop by and check them out.

Cash only -
“Vector” shirts - $10.
“Talk Nerdy to me”—$5.
“CEER Pong”—small only—$10.

National Society of Professional Engineers (VUNSPE)

VUNSPE is the Villanova University National Society of Professional Engineers student chapter. Our purpose is to strengthen the engineering profession by promoting and spreading awareness about engineering licensure and ethics. VUNSPE is open to all engineering majors and will focus on three core competencies: education, career/professional development, and service and social awareness.

A major focus of the club will be to encourage students to take the Fundamentals of Engineering exam which is the first step in becoming a licensed Professional Engineer. Our club will be organizing review sessions for selected topics on the exam for juniors/seniors and anyone interested.

VUNSPE is also affiliated with the Valley Forge PSPE Chapter and will have opportunities to attend monthly meetings and networking sessions. Networking with local professional engineers will provide our members with a better understanding of their careers and career possibilities.

Beyond the FE exam, our club will be hosting engineering company tours, networking dinners, competitions and other events. These opportunities are not limited to juniors/seniors; we strongly encourage freshmen and sophomores to participate to help foster a stronger and more tightknit engineering student body.