American Institute of Chemical Engineers (AIChE)

AIChE hit the ground running this semester. The first event was held on January 26th where three Arkema employees came to share their backgrounds in Chemistry as well as an overview of the company as a whole. There were over 50 students there and we received some very positive feedback! The Arkema employees were helpful and knowledgeable and shared that they are hiring for a part-time internship starting this semester or summer of 2016. One woman focused on chromatography and another on NMR, so it was great for the sophomore chemical engineers to be able to see how organic chemistry is applied in the field. The students who attended were enthusiastic and asked great questions to the speakers; they are encouraged to contact Keith Argue if they wish to get in contact with the guest speakers. AIChE will have another guest speaker next month, so stay tuned!

American Society of Mechanical Engineers (ASME)

This month the student section has brought to you Praxair! For those of you unfamiliar with the event it was an internship review and networking opportunity hosted by ASME on February 9th in the MDL. Representatives came to speak on behalf of Praxair and their wide variety of internship opportunities for Villanova students. Thanks to those who came out to the spring activities fair where represented and recorded some new members! Please be sure to spread the word about ASME as the more members we have, the more capable we are of hosting events for you!

COMING SOON: The Restoration of Norfolk and Western Railroad Steam Engine on March 15 from 6:30-8:00 in Tolentine 215. Dinner will be provided and it is FREE for students who register ahead of time in the following link. REGISTRATION ENDS MARCH 13 so sign up now to save your spot for a wonderful dinner and talk on heavy, high speed locomotives! Mechanical and Civil Engineers are strongly encouraged to attend and all majors are welcome. This event is PD APPROVED so sign up TODAY.

https://docs.google.com/spreadsheets/d/1CGbZAaWHZeTvSTWiaQ02JAhGbsM_rziXlBnhFa-n9iE/edit?usp=sharing
American Society of Civil Engineers (ASCE)

ASCE recently submitted the 2015 Student Chapter Annual Report for grading. The Concrete Canoe Team is currently in the process of ordering the materials for the mix design of the concrete to be used, as well as the foam mold designed by our hull design team. The team is looking forward to successfully testing and then finalizing the mix design, creating the foam hull, and ultimately competing in the regional competition at Drexel University in April.

Formula SAE

This past month the team has been busy finishing up VU08's manufacturing phase. Rocker machining was completed, the differential mounts were received from our sponsor Windle Mechanical Solutions, and all of the powertrain systems were assembled on the vehicle. In addition to the progress on VU08, the team spent the past two weeks showing off last year's car, VU07, at the Philadelphia Auto Show. The team met a lot of great people and gained a handful of new connections. Thank you to everyone who came to check us out at the show! This month the team will be preparing for the car's first drive upon the completion of the wheel assembly.

NovaCANE

NovaCANE is off to a strong start this semester. We’ve enjoyed visiting all our students and doing new activities. The 6th graders at St. Martin’s learned about foundations and structural shapes by building structures to support a soda can with straws, paperclips and tape. On introduce a girl to engineering day (2/25) NovaCANE will be partnering with AECOM engineers to give our students at St. Martin’s a look at what professional engineers do. For more information please contact Tori Henck at vhenck@villanova.edu
Steel Bridge

The Steel Bridge Team is off to a great start this semester. We have finalized our design, tested our connections, and ordered steel. Over the next few months we will be in the lab to fabricate our members. In April we will go to Drexel to compete. Now is a great time to get involved with the club as we need all the help we can get. If you would like to come into the lab and help build contact Sean at 267-885-3767 or Mike at 786-376-5683.

Institute of Transportation Engineers (ITE)

The Institute of Transportation Engineers is looking forward to an exciting second semester following its semesterly recruitment night that took place on January 21st. This semester, ITE plans host numerous guest speakers from the transportation industry, engineering project presentations, plan and attend a field trip to SEPTA, and conduct pavement inspections around campus. Overall, ITE hopes to cultivate an enthusiastic membership representing many civil engineering disciplines to highlight the variety of career and research opportunities available in the transportation engineering field.

Pi Tau Sigma

Pi Tau Sigma is The National Mechanical Engineering Honor Society. Here at Villanova, our chapter offers tutoring to undergraduate mechanical engineering students. If you would like additional help with your coursework or have questions about becoming a member please contact Lindsay Ellerthorpe, at lellerth@villanova.edu to set up a meeting time with one of our members.
**Eta Kappa Nu (HKN)**

HKN - ECE tutoring is in full swing for the Spring semester! If you're an underclassmen looking for some extra homework help, stop by the ECE reading room on the fourth floor of Tolentine. We are collaborating with IEEE once again to bring back the popular Fireside Chats! February 18th at 6 pm in the MDL, ECE upperclassmen will describe their experiences as a Villanova student and will offer the opportunity for underclassmen to ask questions in a laid back setting. Freshman thinking of declaring as an ECE should definitely consider going, be on the lookout for details on how to sign up!

**Society of Women Engineers (SWE)**

Villanova’s Society of Women Engineers is excited for a busy semester. In January members attended the VU Women in Tech event where they got the opportunity to network and learn about opportunities in technology. We are looking forward to our SWE internship panel where current members and a career center professional will give advice on how to land an internship or job. Finally, February 25th is Introduce a Girl to Engineer Day. Our members are planning to travel to a local school to work with students and inform them about women in engineering. 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 and Instagram @villanovaSWE

**American Institute of Aeronautics and Astronautics (AIAA)**

AIAA has a very exciting spring semester planned. So far, we have calibrated the flight control board for the quadcopter and are planning for the boost glider completion in April. A boost glider is a small model rocket with the goal being to have the rocket stay in the air as long as possible after it launches. In addition, we plan to bring in another guest speaker from the aerospace industry. For more information, email the president, John Coppa, at jcopp-pa@villanova.edu.
Institute for Electrical and Electronics Engineers (IEEE)

IEEE continues to grow as a club, not only in membership but activities as well. This semester we have already had several successful events. We had a soldering workshop a few weekends ago where our members learned how to solder and all walked away with a fun beginning soldering kit. Dr. Singh was also kind enough to present us with a new IEEE program called SIGHT, working towards more service outreach. We are still looking for members to head this effort. Please talk to Emmanuel Almonte or Dr. Singh for more details. IEEE continues to have study hours from 7-9pm on Mondays, in either the MDL or Idea Accelerator as available. We also have several plans for the rest of the semester, including another Fireside Chat with HKN (Feb. 18th), a Philadelphia Student Section Social Night (Feb. 20th), Northrop Grumman Professional Talk (March 13th), and Sumobot Competition (Apr. 2nd). Be sure to sign up for our email list at this link: http://goo.gl/forms/bbbIQQMeHV

Engineering Student Council (ESC)

Engineering Student Council has been off to a great start this semester! We have been very busy planning lots of fun activities for E-week, which will take place the week of February 21st. There will be an egg hunt, quizzo, free breakfast, and so much more, so make sure to celebrate with us! ESC has also been working on some activities for Pi Day and on designing a t-shirt that will be on sale later this year, so stay tuned!

Structural Engineering Association of Pennsylvania (SEA0P)

The SEA0P is still a relatively new club on campus, and is actively looking for new members to fill its executive positions. Last year, the club hosted two guest lecturers who spoke to students about different aspects of structural engineering and the different projects that they were involved in. This year, the club hopes to host more guest lecturers, and also have a career development event. This event would serve as both a chance for students to network with local structural engineering firms, and also get critiqued on their résumé and interviewing skills. If you are interested in joining the SEA0P or would like to learn more about the club and its mission, feel free to contact the club president Matt Mancini (mmancin3@villanova.edu) or the club advisor Dr. Frank Hampton (francis.hampton@villanova.edu).
EWB - Villanova Engineering Service Learning (VESL) Student Projects

Engineers Without Borders - VESL has been busy preparing to send student teams to Panama, Ghana, Nicaragua, and Madagascar in two short weeks. The Panama team is working frantically in the machine shop to finish building a hand-crank rice dehuller. It will be used for individual families who live in rural areas far from mills and therefore lack a means to husk their rice. The India team recently held an informational meeting on their biogas digester project. For more information on any of the projects or if you would like to become involved, please contact Marissa Cucinotta at mcucinot@villanova.edu or Seth Bryant at sbryant2@villanova.edu.

National Society of Professional Engineers (NSPE)

NSPE just hosted our 4th Annual Joint Chapter Meeting with the local Valley Forge NSPE chapter. A few words were said by the President Elect of the state PSPE chapter, John Nawn, as well as our keynote speaker, Villanova Professor Zeyn Uzman. Looking forward, we look to plan the 2nd Annual Order of the Engineer Ring Ceremony for graduating Senior Engineers, as well as any grad students or professors who are interested in attaining this ring as well. The ceremony will be open to any spectators. If you are interested in participating or attending please reach out to Megan Clarke, mclark26@villanova.edu

National Society of Black Engineers (NSBE)

In the month of January, NSBE held its first General Body Meeting of 2016. We had COMTO (Conference of Minority Transportation Officials) participate and present in the GBM. We are planning another GBM as well as preparing for the Spring Zone Summit at Lehigh University. The Summit will be on February 27, and will include other local NSBE chapters such as Temple and Drexel universities.
International Society of Pharmaceutical Engineers (ISPE)

This past month ISPE visited Morphotek. Morphotek is a local biotech company that produces antibody products used in clinical stage trials. At this visit we were able to tour their entire facility. This gave us the opportunity to learn about GMP (Good Manufacturing Processes) as well as the upstream and downstream processes used to make these antibodies in their pilot scale plant.

ChemE Car

The Chem-E Car team is working hard to prepare for the competition in the end of March. Recently, the materials in the galvanic cell for the driving reaction were changed to improve the output voltage and current. The stopping reaction has been diligently working on perfecting the iodine clock reaction. Finally, the chassis of the car is being assembled and the driving and stopping reactions will be added shortly. Completion of these last steps will ensure the car is ready for competition.

PEERS

As the freshmen start their second mini-projects, the CEER PEERS have been helping answer new questions. We are still offering help with chemistry and physics, so look for information from Gayle Doyle regarding review sessions. We enjoy seeing new faces, so feel free to stop by the office during the posted hours and a PEER will be there to help with any questions.