AIAA is having a general body meeting on this coming Tuesday, April 1st. Dr. McAssey, who has done extensive work in the satellite industry and who was also a professor on campus for years, is coming to the meeting to talk about his career and to answer questions about the Aeronautical/Astronautic industry as whole. Plans are also being made to have a trip to Boeing by the end of the semester. Last semester, AIAA successfully made its first ever trip to the American Helicopter Museum. 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 engineering.

Pi Tau Sigma (Mechanical Engineering Honor Society)

Villanova’s chapter of Pi Tau Sigma had a successful fall semester, providing approximately 45 hours of tutoring. Our members are continuing this effort in the spring for undergraduate engineers. If you would like tutoring help, please feel free to email chapter president Ryan Lester at rles- te02@villanova.edu.

National Society of Professional Engineers (NSPE)

During the last week of January, the Villanova Student Chapter of NSPE hosted their second annual joint-chapter networking dinner where distinguished guest Eric Tappert spoke about the St. Francis dam failure. Students had a chance to network with professionals in their field of interest and gained valuable insight and connections. This coming March, we will be holding a general body meeting and executive board elections. Please contact us nspe@villanova.edu with any questions you may have.
Formula SAE

Having run into a few unexpected issues over spring break, Nova Racing Engineers are working tirelessly to troubleshoot these issues and put the car back on the track. However with the vehicle on stands, Powertrain team was able to conduct numerous tests on the engine, making sure the engine and its various subsystems will run reliable and efficiently at Competition in May. Over spring break, team members were able to meet with a number of Nova Racing Alumni to discuss and validate numerous systems on the vehicle. Plans for spring testing have been drawn up by the team, and will be implemented as soon as the vehicle is on the ground. The team wants to hit the ground running and conduct as many testing days as possible before May. For questions regarding our team, our cars, or getting involved, please feel free to contact Souhail Halaby at mhala-by@villanova.edu.

PEERS

Recently, PEERS has gone through elections and has a new executive board for the upcoming year. The PEERS office remains open to all students for help with courses as well as scheduled tutoring and organized review sessions. Soon we will be accepting applications followed by interviews for adding new students to our organization. Additionally, we are all happy for spring to finally arrive!

Eta Kappa Nu (HKN)

We have been working hard to recruit new members! Our inductions will be held in less than a month, so be sure to check your email to see if you’re eligible! As the weather warms up, HKN will be hosting barbecues and other fun outside activities. We will also be selling awesome bumper stickers! Keep an eye out for our emails!

American Society of Civil Engineers (ASCE)

The Villanova ASCE Chapter hosted PCA Resiliency Expert, Donn Thompson on Thursday, March 27th. We will be joining with DVGBC and hope to have over 100 people in attendance. This event was held in the Villanova Room and light refreshments were served.
Chi Epsilon

This month, Chi Epsilon has continued its tutoring services to all levels of civil engineering students. The fraternity is helping fellow students in all civil engineering classes such as Mechanics II, Environmental Engineering Science, and Steel Design. As the end of the semester approaches, tutors will be available for study sessions in preparation for finals. If you have any questions or would like to schedule a tutor, please contact Courtney Brown, at cbrown54@villanova.edu.

Chi Epsilon new officers:
President: Courtney Brown
Vice President: Dana Flood
Treasurer: Aaron Williams
Secretary: Katharine Jennings
Grand Marshall: George Zimmer
Editor: Samantha Butwill

International Society of Pharmaceutical Engineers (ISPE)

ISPE has had a very busy couple of weeks. On February 20th, a Careers in Biotech and Pharma Speaker Panel was held. Six speakers with diverse backgrounds came to give their advice and thoughts on how to best get into pharmaceutical engineering as well as provide great insight into the industry and its direction and challenges. Also, on March 14th, a tour of Morphotek’s award winning biopharmaceutical manufacturing facility was held for the Delaware Valley Student Chapters as well as members of the Delaware Valley Chapter’s Board of Directors, in Exton, PA. The tour consisted of both the upstream and downstream production facilities. Finally, we are proud to announce we will be hosting the Delaware Valley Chapter’s Student Poster Competition! The event will take place on Thursday, April 10th, from 4:30 to 7:00 PM. Registration is due by April 3rd. Contact Lauren Woll (lwoll01@villanova.edu) for more details.

NovaCANE

During the month of March, NovaCANE has been, and continues to be, making trips to varying middle schools around the greater Philadelphia area. Multiple structures groups recently made trips that involved a “Straw Tower” activity, while the sustainability group created a lesson which involved working with acids and bases. In the last weeks of March, the environmental group will be making a visit to Saint Martin of Tours, as well as the Mechanical/Electrical engineering group. The ME/ECE group’s lesson will involve building boats that can hold a certain number of coins, as well as a cost analysis for the materials they choose to use.

This month, NovaCANE has been, and continues to be, making trips to varying middle schools around the greater Philadelphia area. Multiple structures groups recently made trips that involved a “Straw Tower” activity, while the sustainability group created a lesson which involved working with acids and bases. In the last weeks of March, the environmental group will be making a visit to Saint Martin of Tours, as well as the Mechanical/Electrical engineering group. The ME/ECE group’s lesson will involve building boats that can hold a certain number of coins, as well as a cost analysis for the materials they choose to use.
Society of Women Engineers (SWE)

The Society of Women Engineers is holding our first meeting of the month on Monday, March 24th at 6pm in the East Lounge (above the Pit). Villanova SWE will be having a meeting with Halliburton professionals! There will be a brief panel discussion, a fun activity and dinner will be served. You do not have to wear business casual attire but please dress appropriately. An RSVP is needed to attend. To obtain the link, email villanovaswe@gmail.com. SWE would love more members on our Facebook group called the Society of Women Engineers under groups at Villanova. Through this Facebook group, members are provided with the most up to date status of SWE events and opportunities. Also tweet at us using the tag #villanovaSWE

Chem-E Car

Villanova University’s ChemE-Car club is composed of two subgroups. The team in charge of the driving reaction, responsible for coming up with a means to power a shoebox-sized car, and the team designated to synthesizing a stopping reaction, necessary to stop the car from traveling too far. At the regional competition, each school’s ChemE-Car club must present their car to carry a specified volume of water for a certain distance by only changing the driving and stopping reactions. Naturally, it’s pretty difficult.

This year, our driving team has been looking into creating a graphene super capacitor by oxidizing Graphite Oxide. Graphene, a substance of layered sheets of carbon is an up and coming material in our modern world, it is the subject of countless research projects (some even located here on campus!) and has shown promise in its ability to hold and carry charge. In theory, the car will be completely powered by electricity generated in a chemical reaction and stored in the graphene battery.

The stopping team has finished compiling almost all the data pertinent to an iodine clock reaction. This reaction is being used as the stopping method because at varying concentrations of the reactants, the time it takes for the solution to turn from a translucent, clear mixture to an opaque, dark-purple/black mixture changes considerably. With this data, the stopping team will be able to calculate the exact concentrations for the Iodine Clock reaction so that the car has just enough time to travel without going too far.

So far, both teams have shown progress but there is still work to do to get our car up and running. The amount of work and planning that has gone into bringing this project to where it stands, has made it a pleasure to participate. If you’re interested in working for Villanova University’s ChemE Car team, feel free to contact us at vu.chemecar@gmail.com.
American Institute of Chemical Engineers (AIChE)

The American Institute of Chemical Engineers here at Villanova has had some busy months even with all these snow days! AIChE is planning a large barbeque to welcome incoming freshman chemical engineers who have finally declared their major! The date is not yet determined, so keep your eyes peeled, but be ready to have some fun in the sun and meet some upperclassmen chemical engineers.

AIChE is also going through a transition of power with elections coming up soon. We thank those seniors who have worked so hard for this organization and wish them success in all their endeavors. With that being said, we are also excited to bring in some new faces with new ideas to make AIChE great!

As mentioned before, the senior research panel will be occurring some time next week before the juniors will decide whether or not they would like to do research for senior year. The panel will have senior chemical engineers, who have spent the year doing research, giving advice and answering any questions the juniors might have. Another great semester for AIChE!

Institute of Transportation Engineers (ITE)

Traffic Bowl. The Traffic Bowl is a jeopardy style competition where teams compete head to head answering questions related to the field of Transportation Engineering. On Friday April 11th the ITE club will be running a field trip for a tour of the Port of Philadelphia. Students interested in attending the field trip should speak with Dr. Seri Park or Dr. Leslie McCarthy. Finally the ITE club will be hosting a field trip to a Philadelphia Phillies game to help a former student of Dr. Park’s do travel surveys on people attending a large event such as a Major League Baseball game. The dates is still to be determined but interested students should contact Dr. Seri Park for more information.