

Student Engineers' Council

at Virginia Tech

2017-2018

What is SEC?

The SEC is a student organization dedicated to serving the College of Engineering. We host many professional development events and undertake philanthropy efforts to improve the undergraduate engineering student experience and the University as a whole.

Our Mission:

The SEC is an organization dedicated to serving the College of Engineering and all its students. Our goal is to serve as a central resource for undergraduate students by...

- Fostering strong relationships between students, faculty, and industry.
- Providing meaningful professional development opportunities to students.
- Supporting student organizations through philanthropy and networking.

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Engineering Leadership Summit 2018

In March 2018, NAESC held the Engineering Leadership Summit (ELS) at Arizona State University. The SEC Executive Board travelled to Arizona for four days to meet and exchange ideas with other engineering student councils. Additionally, the attending councils were treated to industry tours, case study competitions, and informative breakout sessions. At the conclusion of ELS, there was an awards banquet to acknowledge the hard work of the various engineering student councils. As a council, the Student Engineers' Council at Virginia Tech was awarded with Most Outstanding Large Council of 2018, a highly prestigious award within NAESC!

NEW! Introducing...

The 2017-18 SEC Freshmen Committee:
This year, the SEC created a sub-committee of freshmen, led by the Freshman Chair, to provide a fresh perspective to the Board, as well as to plan events that target the freshman class specifically. The eight committee members hosted a number of events, including study sessions and major information sessions. We are incredibly proud of what they have achieved!



PHILANTHROPY

The Design Team Endowment (DTE) & Engineering Organization Fund (EOF):

The Design Team Endowment Fund through the Student Engineers' Council (SEC) at Virginia Tech was created in 2007 to grant funding to engineering design teams to support their projects. Through the DTE, \$17,000 was distributed during the Fall of 2017, and \$15,000 is being distributed to over 20 design teams during the Spring of 2018. These funds are used to finance materials and equipment for the design team projects, as well as travel costs for design team competitions.

The Engineering Organization Fund (EOF) was established to financially assist member organizations in sponsoring engineering-related events and programs. The funds provide for opportunities such as attending or holding engineering conferences, developing student projects, and sponsoring engineering outreach programs directed at elementary, middle, and high school students. Approximately \$30,000 was distributed in the Fall 2017 semester to 28 separate design teams and student organizations, and another \$30,000 was used to support 30 organizations in the Spring of 2018.

By providing avenues for these organizations to reach the logistical and material requirements for their unique objectives, the philanthropy we pursue through the DTE and EOF indirectly yields a much greater influence in the lives of young students and the potential they possess.



Big Contribution:

The Big Contribution is an opportunity for faculty and staff in the College of Engineering to acquire funds for their research and other projects.

This year, the SEC contributed to a variety of research endeavors in the College of Engineering. For example, one of these projects seeks to create and deliver prosthetics for Children affected by Amniotic Band Syndrome; led by Dr. Blake Johnson of the ISE department, the team focuses on modeling and 3D printing personalized prosthetics for children in the New River Valley, and updating them as they grow with prosthetics suited to their unique limb deformity. In total, the SEC distributed the allotted \$30,000 Fund to Hokie Prosthetics, V&V Planning Simulator, Mechanics of Animal Locomotion, Print Stations for Hancock and Goodwin Halls, and "Hands On" Workshops.

The SEC's Big Contribution has remained a valuable resource for researchers at Virginia Tech seeking to develop both cutting-edge technology and students' professional potential in the College of Engineering.

Awards & Scholarships:

Every year, the SEC recognizes outstanding students and faculty in the College of Engineering, and their merits within the realms of leadership, service, mentorship, and instruction. The following individuals have been selected as this year's award recipients because each of them demonstrated an exceptional commitment to excellence and the ideals Virginia Tech holds dear.

Paul E. Torgersen Leadership Scholarship

Emily Anne Bautista, Junior in Materials Science & Engineering – May 2019

Juliet Ariana Clark, Junior in Electrical Engineering – May 2019

Nathaniel Gebreyes Service Scholarship

Glenn Cheatham, Junior in Industrial & Systems Engineering, Psychology – May 2019

College of Engineering Sporn Award:

Dr. Roger Chang, Engineering Science & Mechanics

Undergraduate Research Advisor Award:

Dr. Blake Johnson, Industrial & Systems Engineering

Engineering Organization Advisor Award:

Dr. Richard Clark, BOLT Electric Motorcycle Team



EVENTS

Engineering Expo:

Engineering Expo is one of the largest student-run career fairs in the nation and by far our largest event. Held every fall, Expo brings hundreds of companies from across the U.S. to VT for an opportunity to network with and recruit students. This is the biggest opportunity to land an internship, co-op, or job available to VT Engineers. In addition to serving the College of Engineering, Expo serves as the primary income for the SEC, which is then pushed to our various philanthropies.

Katrina Pelkey, the 2017 Engineering Expo Chair, dedicated long hours of communication and organization in order to make the event a success. Despite many last minute cancellations caused by Hurricane Irma, the 2017 Expo was the most successful to date -- involving over 300 companies! Thanks to a superior effort from Katrina and the rest of the board, many students were given chances to pursue their career aspirations that they would not have received otherwise.



Leadership in Engineering Conference:

The Leadership in Engineering Conference is an event we host each fall that gives students a chance to learn about leadership practices and engineering-specific issues that industry professionals encounter every day. The LEC Chair, Charlie Lertlumprasert, was in charge of tackling every logistical challenge involved in planning the event. The event consists of a keynote speaker, followed by multiple breakout sessions led by representatives from various prominent companies in the engineering world! This year's event featured cybersecurity expert and Blackhat instructor James Fitts, who gave a fascinating opening keynote. Each breakout session appealed to multiple engineering disciplines, so it was easy for any student to find something that piques his/her interest. The 2017 Leadership in Engineering Conference was a highly successful event, and the SEC is very proud of Charlie's accomplishment!



E-Week:

In the spring, Engineers' Week (E-Week) is a week long event to celebrate all things engineering, as well as to highlight the success of the various design teams from VT. This year's E-Week Chair Ally Peck was met with many roadblocks. Inclement weather resulted in one of the week's biggest events, the Design Team Showcase, to be called off. Ally acted quickly and soon came up with many flash challenges and smaller activities for the design teams to compete in. Every participating design team would win points for each contest, depending on their performance. The final results standings were:

1st - Red Planet Robotics

2nd - Baja SAE

3rd - IISE

Congratulations to the winners, and to Ally for a highly successful E-Week!



Meet the Board

Members:

- President:
Rachel Iwicki
- Vice President:
Eugenia Walk
- Director of Finance:
Caleb Goertel
- Director of Philanthropy:
Chris Brassel
- Director of Relations:
Manisha Iruvanti
- Director of Administration:
Ryan Muller
- Expo Chair:
Katrina Pelkey
- LEC Chair:
Charlie Lertlumprasert
- IM Chair:
Ha Nuel Lee
- E-Week Chair:
Ally Peck
- Awards & Scholarships Chair:
Michelle Wu
- Publicity Chair:
Adam Baldwin
- Membership Enrichment
Chair:
Matt Conway
- Freshman Chair:
Shivani Bajaj
- Advisor:
Dr. Bevelee Watford



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We're on the Web!
<https://www.sec.vt.edu/>

The Student Engineers' Council (SEC) is an organization that serves the Virginia Tech College of Engineering, its engineering societies, and its students. Throughout the year, the SEC performs many functions, from running Virginia Tech's largest career fair to distributing thousands of dollars in philanthropic contributions to various parts of the College of Engineering.

There are many reasons to become an active member of the Student Engineers' Council. For individuals, the SEC offers opportunities to gain leadership experience through involvement in organizing and running major College of Engineering events, as well as through a variety of Council positions. It also provides an arena in which students may contribute ideas to debates over fund distribution, and a chance to be a participant in an organization that is locally and nationally recognized for its work and philanthropy. The SEC helps foster a social network for students from all engineering disciplines and organizes events such as E-week, Engineering Expo, and the Leadership in Engineering Conference.

To get involved, or for more information, contact Manisha Iruvanti at imani96@vt.edu!

