

The E&S Magazine

Volume 63
Issue 2 *The Innovation Issue*

2019

Organizations : BMES, AIChE, ECO-CAR, and Louisiana Tech ESA

Follow this and additional works at: <https://digitalcommons.latech.edu/engineering-science-magazine>

Recommended Citation

(2019) "Organizations : BMES, AIChE, ECO-CAR, and Louisiana Tech ESA," *The E&S Magazine*: Vol. 63 : Iss. 2.

Available at: <https://digitalcommons.latech.edu/engineering-science-magazine/vol63/iss2/23>

This End Matter is brought to you for free and open access by Louisiana Tech Digital Commons. It has been accepted for inclusion in The E&S Magazine by an authorized editor of Louisiana Tech Digital Commons. For more information, please contact digitalcommons@latech.edu.



The Biomedical Engineering Society (BMES) is a professional development organization designed to benefit those hoping to work in the biomedical field. However, starting this year we are hoping to expand into helping students in other fields as well. To begin, we have started improving our mentorship program to better serve our members. There are also developing plans to incorporate two new events into our yearly schedule.

The first new event is a design competition. While the competition is based in the biomedical field, it will give another project for students to add to their portfolio regardless of whether they are in mechanical engineering, biomedical engineering or some other discipline. We hope to gather a group of engineers from several disciplines to give the most versatility to our project design.

Our second goal is to implement an event called the Make-a-Thon. The Make-a-Thon is a rapid prototyping competition again focusing on medical devices. Projects collected from professors and other sources will be announced to students who will then have a week to design a product that satisfies as many criteria from an individual project as possible. Not only will this competition be open to Tech students but it also will be open to students at nearby universities. Once products have been chosen, students will then have 48 hours to design and produce a prototype.

Our mentorship program first began during the last academic year. It is designed to pair underclassmen with upperclassmen that have more experience in the biomedical engineering program. This year we are assigning a mentee to two mentors who will help them choose a concentration based on their future career goals. Mentors will also be available to help choose classes, help with homework and help with finding and applying to undergraduate research experiences, or REUs, and internships. The goal is that this program will help retain and encourage the biomedical engineering students at Tech.



AIChE is the professional society for students seeking a Chemical Engineering degree, but any Louisiana Tech student can join! We aim to promote professional development of the members through our programs and to promote relations between students within the College of Engineering and Science. AIChE is involved on campus with both service and social events, but also offers industry tours and information sessions with companies every quarter.



In April 2018, Louisiana Tech Eco-Car brought home the Innovation and Design award from the Shell Eco-marathon in Sonoma, California. The competition hosts more than 125 teams from 9 countries across North and South America. While the innovation and design award is a routine accomplishment for our team, we also put up a fight in the off-track safety and communication competitions as well.

Since returning to campus in September, the team has made significant strides for the 2019 season. We're revolutionizing part production, becoming an officially recognized organization and building our car earlier than ever. What are our best used resources? They are none other than the Thingery shop in University Hall, machinery in Bogard Hall and a trusty Airtech Vacuum.

We spent the entirety of the 2017-2018 academic year designing the 2019 competition car digitally. This allowed the team to hit the ground running upon return to Ruston this fall. The new car will turn heads from multiple industries— not just the automotive world. The design is technical at every turn. Accounting for aerodynamics, weight reduction and driving technique is no easy task. It takes expertise from across the University to keep this team operating as such a well-oiled machine.

Our goals for 2019 include maximizing fuel efficiency, winning innovation and design, placing top three in communication and advancing to the Driver's World Championship in London. We do not know where or when our competition will be in 2019, but we ask for your various forms of support. As always, Ever Loyal Be, from the Eco-Friendly Dogs.

The Engineering and Science Association (ESA) is the official student body organization that governs the organizations for the College of Engineering and Science. The ESA serves as a liaison between students, faculty and staff at Louisiana Tech University. The purpose of this organization is to further promote interest and the spirit of friendship among College students and to acquaint prospective students and the public with the engineering and science professions.

Louisiana Tech's ESA includes all students in the College of Engineering and Science and strives to promote a sense of community amongst the students. By hosting unique events and service activities throughout the year, ESA hopes to unite everyone with a shared fascination of the STEM fields. Many exciting things on the ESA agenda are set to take place this year.

ESA is excited for the addition of several new positions and opportunities to be involved with our organization. As the student population grows, ESA is expanding to accommodate successful social events and professional development opportunities for our College. This year our Freshmen Council doubled in size, and we added a Professional Development Chair and a Service Chair. The addition of service and social committees is also in the works!

The organization is eager to introduce a new Winter Quarter event: Professional Development Week. The ESA is planning a Resume Roast with company representatives, LinkedIn 101 and Interview Prep night, all of which are aimed at helping prepare students for the Spring Career Fair. Be on the look out for more details to come!

Other upcoming events include the annual COES Christmas Party, Christmas Carnival with the Boys' and Girls' Club and exciting Freshmen Council events. With the COES organizations being so involved on and off campus this year, the COES Cup Competition is very close! ESA is looking forward to announcing the the results at our end of the year celebration, Spring Release.

If you have any questions or would like more information regarding ESA, please contact ltuesapresident@gmail.com.