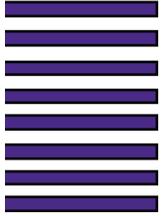




# SCHOOL OF ENGINEERING AND COMPUTER SCIENCE



## Bits & BYTES

ISSUE 1 | OCTOBER 2023 | VOLUME 1



### Welcome Class of 2027!

On August 22, The School of Engineering and Computer Science welcomed 77 new Freshmen and 13 transfer Students into our programs (Civil Engineering, Computer Engineering, Construction Management, Computer Science, Electrical Engineering, and Mechanical Engineering). We are excited to see so many new faces!

### 2 THE ASSOCIATE DEAN'S CORNER

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Meet a member of our Senior Class

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### HARLAXTON BOUND

On August 29, eight SECS students departed for Harlaxton to study abroad for the Fall 2023 semester. They joined SECS Associate Dean, Dr. Immanuel, who departed earlier that week to teach at Harlaxton this semester.

From late-August until mid-December, they will call the manor home. Classes, community activities, and travel will fill their time, while they experience the United Kingdom and beyond!



LECTURES

NOTRE DAME CLUB OF THE TRI-STATE  
UNIVERSITY OF NOTRE DAME HESBURGH LECTURE  
SERIES

&  
UNIVERSITY OF EVANSVILLE  
COLLEGE OF BUSINESS & ENGINEERING LECTURE  
SERIES

Present

ALEJANDRO ESTEFAN, PhD

*Digital Training in Developing Countries: The Case for  
Female Micro-Entrepreneurs and Sustainable Agriculture*

Dr. Estefan will discuss how remote areas in economic need are benefiting from technological advances in teaching.



October 26, 2023  
6:00 p.m.  
Eykamp Hall  
Reception Following



Proud Sponsor of

JA JobSpark

Hands on. Minds opened.

October 24-25, 2023



## Associate Dean's Corner

Dear Members of the School of Engineering and Computer Science (SECS) Community,

It is my distinct pleasure to introduce you to our first issue of the SECS newsletter. As the new academic year is underway, we welcomed an impressive group of freshmen into our six programs (Civil Engineering, Computer Engineering, Computer Science, Construction Management, Electrical Engineering, and Mechanical Engineering). The four-year Bachelor of Science in Construction Management is our newest offering, and I can't wait to see the growth of this program in the coming years. The world of technology and engineering is ever evolving, and so are we. We have made many exciting changes to our curriculum, and we will share them in our upcoming newsletters.

This edition provides a glimpse of some of the student projects, student organizations, and some important announcements that many may find useful and interesting. I invite you to read this newsletter and celebrate the success of our programs, announcements, and other stories that define our identity. Whether you're an alum looking to reconnect, a current student eager to know what is going on in our side of Koch Center or someone interested in our programs, there is something in here for everyone.

I hope that the news and articles provided in this newsletter underscore our commitment to providing excellent educational opportunities to our students, our efforts to foster a conducive and innovative environment to students and preparing them to become leaders in their respective fields. Thank you for your continued support.

Sincerely,

Suresh Immanuel, Ph.D., P.E.

Associate Dean and Professor

School of Engineering and Computer Science

## 2023-24 Senior Design Projects

### CE 495 SENIOR DESIGN TEAM

### THERMOSIPHON TEAM

### UE RACING TEAM

Senior design here at the University of Evansville takes a different approach from many other schools across the nation. At UE our senior design project provides hands on exposure to real projects that do come to life! We get client interaction, project design, and meetings similar to what you would in the real work world. As project manager for the '23-'24 school year I am getting the experience of a real project manager. I make schedules, delegate work to team members, and make sure we are staying up to date with current tasks. Upon completion of these tasks, I send our products out to contractors, owners, and other individuals who may be involved in the process. Overall, it has been a unique opportunity and I, as well as my other senior classmates, have genuinely enjoyed the participation in the class/project.

*Zach Worley*

Project Manager

The senior-led thermosiphon research team conducts tests with a thermosiphon system constructed in Koch, exploring its functionality with the goal of understanding its mechanics and its optimizing performance. To achieve these goals, tests are conducted with controlled and varied parameters to analyze how the system responds. Our team's control of the ambient temperature during tests sets our research apart from other research teams, making the results gathered by our team extremely relevant and potentially groundbreaking for others conducting similar tests. Our results are traditionally shared at the National Conference for Undergraduate Research (NCUR) in the Spring by the senior team members. NCUR provides the team with an unparalleled opportunity to network with other institutions, establish credibility as researchers, as well as giving the University of Evansville a presence in engineering research at the national level.

The UE Aces Racing team, traditionally known as SAE Baja, tasks team members with designing, fabricating, and testing a single seat racing vehicle. The name change comes from this year's deviation from competition as seen in previous years. The UE Aces Racing team will not be attending the national competition this year much like last year's team, however, this year the team plans to deviate slightly from the SAE regulations unlike any years prior. This will allow the team to build a higher performing vehicle that allows students to push the limits of their designs and hand-on capabilities. This year's section leads have conducted research into past SAE Baja cars as well as higher performing vehicles like those seen in the FSAE Formula events.

## IMPORTANT DATES

### October

**2** Deadline for Student Project Funding Proposals (5 pm)

**7-10** Fall Break



Make the Most of your future – attend the M&M Fair!

Tuesday, October 17, 2023 | 4:00 - 5:30 p.m.

Food, fun, and information for students and participants!

Eykamp Hall • Ridgway University Center

University of Evansville • 1800 Lincoln Avenue • Evansville, Indiana 47722

Students can register for the event in Handshake.



University of Evansville

For more information, contact [academicsservices@evansville.edu](mailto:academicsservices@evansville.edu)

**20** Midterm Grades Due

**26** CBE Lecture Series  
Alejandro Estefan, PhD

**30** Advising begins (for Winter, Spring & Summer)

**NOW  
HIRING**

The School of Engineering and Computer Science is looking for a current SECS student to help us broaden our activity and engagement on Social Media including Facebook, Instagram and LinkedIn.

If you are interested, please contact the Director of Marketing and Recruitment for the College of Business and Engineering, Rebecca Oates at [ro32@evansville.edu](mailto:ro32@evansville.edu).

## Remembering Dean Beverly Brockman

Members of the UE community were deeply saddened by the unexpected loss of Dr. Brockman, Dean of the College of Business and Engineering, in late August. She is survived by her husband of 32 years and their two daughters.

Before joining the University of Evansville in April 2020, Dr. Brockman served as the George Lester Nation Centennial Professor of Entrepreneurship at the University of Tennessee at Chattanooga (UTC). During her time at UE, Dean Brockman was committed to academic excellence, student success, and fostering an inclusive environment. She was known for her unwavering support of the UE mission and vision, her kindness, her leadership, and her willingness to lend a helping hand. The UE family was honored to have Dean Brockman as a leader, colleague, and friend.



## Student Organizations



ASCE stands for the American Society of Civil Engineers. We are a student organization hoping to instill a passion and understanding of the construction industry to our members while also helping them network with professionals in the field and their fellow classmates. We host a variety of activities ranging from social hangouts, guest speakers, and local outreach programs. We also have a lot of student-led projects such as Concrete Canoe, Concrete Cornhole, and many others. Our members will have the opportunity to travel to the Indiana-Kentucky Student Symposium in the spring for a weekend of friendly competition and fun activities with students from other universities in the region.

ASCE meetings are every other Tuesday at 4 pm. Here is our projected meeting schedule for this fall: Oct. 3rd, Oct. 24th, Nov. 7th, and Nov. 28th.

For more information about ASCE, contact Breanna Burke, [bb303@evansville.edu](mailto:bb303@evansville.edu).



ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) is a global society focused on "advancing the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve humanity and promote a sustainable world".

We plan to provide networking through events with local professionals as well as fun events with peers. Membership in ASHRAE also creates opportunities to apply for scholarships, go to competition, and conferences.

To learn more, contact Lydia Preske, [ashrae.evstudent@gmail.com](mailto:ashrae.evstudent@gmail.com).



The Society of Women Engineers is a professional organization with the mission to "empower women to achieve their full potential in careers as engineers and leaders; expand the image of the engineering and technology professions as a positive force in improving quality of life, and demonstrate the value of diversity and inclusion." In September, SWE members attended a UE Women's Soccer match to cheer on Civil Engineering majors Emily Wiebe and Ashlyn Koutsos as the Purple Aces took on Vincennes University at UE's Arad McCutchan Stadium.



### NEW ASME MEMBERS AND STUDENT SECTION OFFICERS

Ten ME freshmen students joined the UE ASME Student Section this semester as national ASME members. This academic year is certain to be energetic with planned monthly meetings, talks from graduated MEs working in professional practice describing firsthand what a "day in the life of a ME" looks like, local plant tours, taking part in the rich professional development offerings from the national ASME office, cross-disciplinary UE professional student organization collaboration in social gatherings on campus, student conference attendance, regional & national design competitions, just to mention a few topics discussed in the September meeting. If you would like to know more about joining the UE ASME Student Section contact Nate Bingham (nb214), Chair or Christopher Martin (cm527), Vice-Chair. You can also visit [ASME.org](http://ASME.org) (under Sections & Divisions) to learn of the national ASME Student Section organization and offerings.

## SENIOR SPOTLIGHT

### Weston Miller

Civil Engineering, Class of 2023

Hometown: Mt. Vernon, IN

**Why I Chose UE:** *I chose UE for the small school aspect and the opportunity to have more one-on-one with professors.*

**Clubs or Organizations Involved in At UE:** ASCE, Newman Club, Pro-Life, and Sigma Alpha Epsilon

**Internships or Co-op Experience:** I interned with Milestone Contractors

**Favorite UE memory:** *My favorite UE memory would have to be Bike race. Bike race is a time where the majority of campus comes together to watch the sororities and fraternities compete in a bike race. The atmosphere is incredible and a time of unity for the students on campus*

**Where do you go from here?** *I have accepted a full-time job offer from Milestone Contractors in Columbus, Indiana, so immediately following graduation I will begin my professional career with them. I will first be involved in a developmental program where I will be working hands-on in the field to gain experience before heading into the estimating office. I give all my thanks to the University of Evansville engineering faculty for preparing me for the professional world of Civil Engineering.*



## SECS INTRODUCES CONSTRUCTION MANAGEMENT PROGRAM

The University of Evansville School of Engineering and Computer Science introduced The Bachelor of Science in Construction Management degree program. According to the U.S. Bureau of Labor on average, about 38,900 openings for construction manager are projected each year, over the decade. This program will help meet this need.

Construction managers are responsible for the planning, coordination, budgeting, and supervision of construction projects. While they may have a main office to handle administrative duties, construction managers will spend much of their time in the field of onsite, monitoring projects and making important decisions for their team and the construction.

The construction management program at UE will give heavy emphasis to both technical and managerial skills. Students will not only learn design and planning, but also construction methods, equipment, and codes.

Graduates can choose from a variety of industries when entering the career field, including building construction, utility systems, land subdivision, street and bridge, oil and gas, and more.



### TIPS FOR ACADEMIC SUCCESS

**Get Enough Sleep**—Be consistent. Go to bed at the same time each night and get up at the same time each morning, including on the weekends. Make sure your bedroom is quiet, dark, relaxing, and at a comfortable temperature. Remove electronic devices such as TVs, computers, and phones from the bedroom.

**Accept Responsibility**—Remember that you alone are responsible for your academic achievement. Your instructor is your guide and your classmates may help you to understand your assignments; however, you are responsible for your own success.

**Schedule Time to Study**—Make a study schedule and stick to it. Establishing habits of study is extremely important. Be as specific as possible when making your schedule. Take breaks and switch between courses to keep your mind fresh. When things come up (and they will), intentionally find time to make up your missed studying. Procrastination is a subtle thief that will steal your academic success.

**Ask for Help**—If you are not keeping up in class, don't be afraid to ask for help. Peer Tutoring is a free service offered by Academic Services open to all students needing academic support. Students may drop in at any time during tutoring sessions as their schedule allows. Sessions can be used to ask questions, review content, or have a space to focus and complete coursework. See the [2023 Fall Tutoring Schedule](#) for details.

**Be Present and Prompt**—Avoid being absent or tardy. Don't stop coming to class because of a personal crisis, problem or frustration. If you cannot come to class due to illness, communicate with your instructors.

**Take a Break**—Allow time for fun activities in your schedule. Connecting with peers, participating in activities, and enjoying life are linked to high academic performance.

### SCHOLARSHIP OPPORTUNITY

#### INDOT seeks applicants for Engineering Scholarship Program

**INDIANAPOLIS** – The Indiana Department of Transportation (INDOT) is seeking applicants for its Engineering Scholarship Program, available for undergraduate and graduate students. Recipients receive financial assistance, as well as opportunities for paid employment during summer breaks and upon graduation.

Students must be accepted or enrolled full-time in one of Indiana's accredited Civil Engineering schools. The program must also be certified by Indiana's Accreditation Board for Engineering and Technology (ABET). Eligible universities with ABET-certified Civil Engineering programs include Purdue University, Purdue University Fort Wayne, Purdue University Northwest, Rose-Hulman Institute of Technology, Trine University, University of Evansville, University of Notre Dame, University of Southern Indiana, Indiana State University and Valparaiso University.

INDOT's scholarship program offers \$3,125 per semester or \$2,083 per trimester for up to five years of post-secondary Civil Engineering education. Scholarship funds may be applied to educational expenses, fees, and books. In return, recipients have the opportunity to work at INDOT in full-time, paid positions during summer breaks and upon graduation.

Learn more about the INDOT Engineering Scholarship Program and the application process at [indotscholarship.in.gov](http://indotscholarship.in.gov). Applications for the 2024-2025 school year must be emailed or postmarked by Sunday, December 31, 2023.

Those with questions may contact Adam Beasley at [ABeasley2@indot.in.gov](mailto:ABeasley2@indot.in.gov) or visit the website listed above.