

The ME Connection

UE Mechanical Engineering Newsletter

March 2022



Happy St. Patrick's Day! Did you know that St. Patrick is the patron saint of engineers?

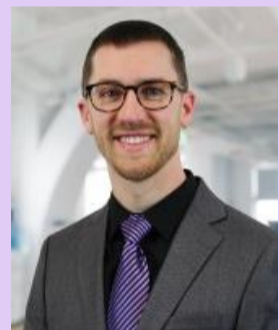


March Madness

In the spirit of championship season, we would like to recognize all past and present ME student-athletes. ME students have been setting records both on the track and in the pool this semester, including Riccardo Di Domenico ('23), Jakob Grundbacher ('25), and Danny Santos Lopez ('25) for men's swimming and diving, and Haley Dean ('22) for women's track and field. Although not every accomplishment will appear in a record book, we strive to celebrate the personal and professional successes of ME students and alumni. You continue to amaze us!



ME alumnus presents at Cityworks Converge 2022



Logan Guffey (Class of 2015) was selected as a guest speaker for the Cityworks Converge User Summit in February 2022. The Summit focuses on Cityworks and ArcGIS solutions and innovations across industries. The summit presentations, including Logan's, "Taking a Vertical Approach to Treatment Plant Maintenance," will be available soon on the Cityworks Converge website. Logan is the Facility Asset Manager for the Evansville Water & Sewer Utility. Congratulations, Logan!

Engineering Safer Classrooms

During Engineers Week, the School of Engineering and Computer Science participated in the UE-Harper Air Filter project by hosting a fabrication day. SECS students built 16 devices to be deployed in classrooms at a local elementary school. These devices, along with 16 additional units built by UE Physics and Biology students, UE's Center for Innovation and Change, as well as Perry Central High School and Harper Elementary will help maintain a healthier learning environment.



The units follow the open-source Corsi-Rosenthal Cube design for portable air cleaners conceived by Richard Corsi, PhD, P.E., Dean of the UC Davis College of Engineering, and first built by Jim Rosenthal, Chairman and CEO of Air Relief Technologies, Inc. and past president of the National Air Filtration Association.



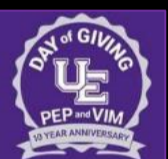
Several ME student participants can be seen in the image above with the finished air filter units. This project has been nominated for a Celebration of Leadership Award. The 27th annual awards ceremony will air on WNIN and stream online on March 30th.



UE's 10th annual **Pep and Vim Day of Giving** is scheduled for Friday, April 8th, 2022.

All alumni gifts are appreciated. Any time you make a gift to the university, you have the option to designate where it is applied, if you wish.

Suggested designations for gifts to engineering include: *Gerhart Legacy Fund*, *SECS Student Project Fund*, and *Mechanical Engineering*.



Alumni Spotlight: Austin Cibulka, Class of 2016

"Working in New Product Development has challenged me in many ways, allowing me to stretch my limits and grow as a professional. Our work begins with identifying unmet needs through market research and voice of customer feedback. After gaining enough knowledge of the market, we will create a marketing, engineering and financial concept. We then develop the concept into a prototype and eventually a finished good. This process entails many tasks along the way with engineering, marketing, sales, manufacturing, finance, quality and procurement teams. When leading a NPD project, I am responsible for driving progress with key stakeholders in each group, as well as providing updates to our leadership team."



Here, we are showcasing the All-Spark ignition module, a product I was able to lead the development on. This is a service part for HVAC contractors who are repairing heating equipment such as a furnace or an infrared heater. We also developed an intuitive mobile App that allows contractors using the product to be more efficient in their work. The AHR Expo is a great opportunity for us to meet HVAC contractors, distributors and other professionals in the field. We are able to receive instant feedback from our target audience on the products we develop for them."

Austin Cibulka, Product Manager, Emerson



2022 International Air-Conditioning, Heating, Refrigerating (AHR) Expo at the Las Vegas Convention Center

Congratulations Corner

Class of 2013 Congratulations to Trent Tenbarge, P.E. on his new role as a high pressure compressor module leader for large military engines at GE Aviation. His primary functions are to provide technical advice and priorities for an international design team.



Class of 1985 (B.S.) and 1987 (M.S.)



Congratulations to Costas Theofylaktos, with 25+ years of global experience in the energy field, on the publication of his co-authored book, *South East Europe Energy Outlook 2021/22*. He is a member of the Board of Governors and Secretary General of the Institute of Energy for South-East Europe and chairs the Energy Efficiency Committee.