

future in Auburn Engineering.

Hello and War Eagle! Welcome to the spring edition of the Auburn University Department of Industrial and Systems Engineering (ISE) Newsletter. With the conclusion of the spring semester, we invite you to reflect with us on the department's most recent updates and accomplishments. We are excited to announce that the former dean of the

Samuel Ginn College of Engineering, Dr. Chris Roberts, was recently named the 21st president of Auburn University. Dr. Steven Taylor served the college admirably for a year as interim Dean while the university executed a national search for Dr. Roberts' replacement. We are now excited that Mario Eden, the Joe T. and Billie Carole McMillan Professor and Chair of Auburn University's Department of Chemical Engineering, has been selected as the new Dean of the College of Engineering. Additionally, Dr. Taylor has been named the Senior Vice President of Research for the university. We are well set for an exciting

expenditures in the department have grown 360 percent in the last five years. New research areas include product innovation and potentially healthcare. With a growing trend of industrial engineers working in healthcare, our department is working to prepare our students for those Healthcare Systems, Policy, and Culture was offered for the first time this spring.

The ISE Department also continues to look for new opportunities for growth. Our research

opportunities. We are in the process of creating three new healthcare courses. The course We graduated 91 students with bachelor's degrees, 85 students with master's degrees, and 9 doctoral degrees in the last year. Additionally, we have 15 tenure-track faculty, two lecturers, and two professors of practice, making all we do possible in the ISE department.

Our current faculty members continue to strive for excellence. We learned just this week that Jia (Peter) Liu has been awarded a National Science Foundation CAREER award! These awards are offered in support of junior faculty who exemplify the role of teacher-scholars through research

achievement. Our graduate program also continues to thrive. Spring graduate enrollment was 221, the largest in the College of Engineering, with more than 116 online graduate students. A good portion of this growth can be attributed to our graduate cohort industry partnerships. We currently have five partnerships through which groups of employees are earning graduate degrees. The newest partnerships include Honda Manufacturing and Jacobs Engineering. U.S. News and World Report

recently ranked our online program as number eight in the nation.

and education. This is the first CAREER award for our department and we are thrilled about his

The department recently filled a faculty position with the hire of assistant professor Rongxuan Wang. Dr. Wang is a recent doctoral graduate of Virginia Tech with a focus in advanced manufacturing systems. His skills and knowledge will be a great benefit to the Interdisciplinary Center for Advanced Manufacturing Systems (ICAMS) and the department as a whole. We will be adding two additional tenured faculty positions to replace Sean Gallagher, who retired in January, and Jeff Smith, who will retire in September.

This first semester serving as chair of the ISE Department has been one of personal and professional growth, challenges, and excitement. The opportunity for a more in-depth understanding of the work of our faculty, staff, and students has made this transition one I am deeply proud to undertake. I look forward to learning even more and doing my part to support all of the great work that is to come. Please read more about our latest achievements below and thank you for continuing to support the Auburn University Department of Industrial and Systems Engineering.

War Eagle! **Greg Harris**

student wins regional Three

Industrial and Systems Engineering Professor & Department Chair



Shivaprasad Nageswaran, a graduate student in industrial and systems

DoD awards ICAMS

ISE graduate

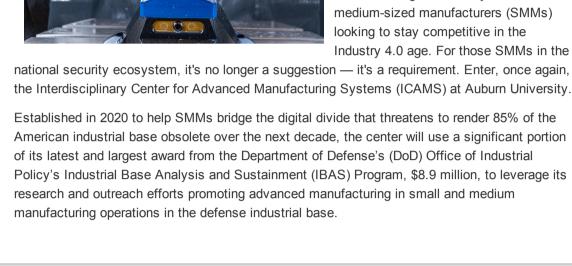
Minute Thesis

competition

safety and ergonomics program in the Department of Industrial and Systems Engineering, Nageswaran examines seat belt safety in both personal vehicles as well as school buses.

\$8.9M for smart manufacturing initiatives The adoption of Smart Manufacturing is fast becoming a necessity for small and

belt if inverted after an automobile crash. As part of his doctoral research in the occupational



medium-sized manufacturers (SMMs) looking to stay competitive in the

Industry 4.0 age. For those SMMs in the

<u>undergraduate</u> student of the year

Auburn University senior Drew Nardone

Doctoral students

departmental award

Madison Evans and Victoria Ballard, two doctoral students studying industrial and systems engineering, were recently awarded the Samuel Ginn College of Engineering's 100+

<u>ISE names</u>

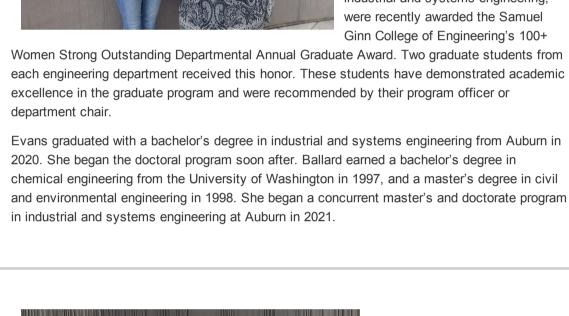
has been named the Department of Industrial and Systems Engineering's Undergraduate Student of the Year. Nardone was drawn to industrial and systems engineering because of how it combines engineering, technology, people and business to help solve problems. He enjoys learning how to analyze a complex system and then finding ways to optimize it. "I also like the wide variety of fields open to ISE graduates after college," he said. "After taking

my first few ISE classes, I knew this was the right major for me and have enjoyed it since."

is a member of social fraternity Alpha Tau Omega, and the Italian Club.

Nardone is also a member of ISE honors society Alpha Pi Mu, is a peer tutor for the college, and

awarded 100+ women strong



ISE professor

earns Spanish

<u>degree</u>

In an effort to further collaborations with student

recruiting in Latin America, Alice Smith, the Joe W. Forehand/Accenture Distinguished Professor of the Auburn University Department of Industrial and Systems Engineering, recently earned a Bachelor of Arts degree in Spanish from Auburn University.

Smith's original intent was not to earn a degree, but only to learn the language. She began by taking one course each semester. She wanted to earn grades in the classes as motivation and to do so she was required to register as an undeclared liberal arts undergraduate student. One fall semester, Smith was unable to register for classes. When she inquired about the problem with her advisor, she learned that she had too many credits to have an undeclared

"I told the advisor I was not interested in getting a degree, but she said I could by just taking

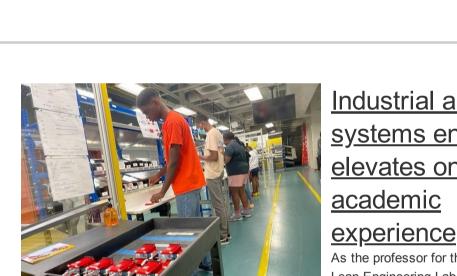
undergraduate Spanish student. It was a thrilling transition for me and one I never anticipated."

hears from online graduate students that they would love the opportunity to participate more in

"The online students have felt a little left out," Devall said. "We have wanted to make it a better

The Tiger Motors team decided to work to install high-quality cameras and microphones in the lab to make the experience better. The Department of Industrial and Systems Engineering

more Spanish classes, as I intended to do anyway," Smith said. "So, I became an



major.

lab activities.

experience for them for a while."

and chat live with TAs.

Industrial and systems engineering elevates online

As the professor for the Tiger Motors Lean Engineering Lab, one of the more popular labs in the Samuel Ginn College of Engineering, Tom Devall regularly

recently invested \$26,000 in the lab to install five ultra-HD digital cameras that can pan and zoom, five wireless microphones, and 10 drop-down mics that can capture all five areas of the lab. During broadcasts, students can log on to Panopto to view several camera angles, listen in,

<u>Occupational</u>

safety education

Safety, Ergonomics, and Injury Prevention, part of the Auburn

and research <u>programs</u> <u>renewed</u> The Center for Occupational

University Department of Industrial and Systems Engineering, recently had two education and research training programs renewed for five years by the National Institute for Occupational Safety and Health (NIOSH). The programs are part of the Deep South Center for Occupational Health and Safety, a collaboration with the University of Alabama at Birmingham (UAB). The

NIOSH and Auburn University have a history dating to the early 1970s, but the history of the Auburn University Department of Industrial and Systems Engineering safety and ergonomics

grants supporting the programs bring approximately \$2 million to Auburn.



program goes back to the late 1960s.

ISE graduate student presented Lean Engineering Award Diego Caputo, a graduate student in the Auburn University Department of Industrial and Systems Engineering, was recently named the 2022 JT Black Lean Engineering Student of

experience at **ICAMS** A local Girl Scouts troop recently gained some hands-

> on manufacturing experience at the Interdisciplinary Center for Advanced Manufacturing

Girl Scouts

troop gains

hands-on

Systems (ICAMS) at Auburn University. The visit earned the girls, who ranged from first to fifth

"The badge is meant for girls to visit a variety of STEM onsite locations and learn what careers girls can do in STEM and what they could get excited about," said troop leader Karen Dane. "The



future students in the Lean Lab."

to have such incredible students!"

awarded at the event.

grade, their STEM Career Exploration Badge.

group had a great experience."

The team created a simulation of the Tiger Motors Lab through simulation software. The model created an environment for students to learn about Lean Engineering tools outside of the lab. "This project was really in-depth and we all worked together really well," said team member

Auburn University Department of Industrial and Systems Engineering

Andrew Cox. "We all put our minds together and put out a great product for Tom Devall to use for

ISE Undergraduate Student of the Year, as well as ISE Student of the Year nominees, were also

"I'm so proud of this year's outstanding undergraduate students," said ISE Student Services Coordinator Branden Farmer. "They are such an amazing group with bright futures. We're lucky

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