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## OSU Fire Service Training provides 2025 Oklahoma Swiftwater Rescue Conference & Competition

Water rescues occur nearly every day in Oklahoma, where flash flooding is a recurring hazard and one of the deadliest severe weather threats. According to the National Weather Service, flash floods claim more than 100 lives annually in the United States and often place first responders themselves at significant risk. That reality is what brought first responders from across the nation and around the world to Oklahoma City, where Oklahoma State University's College of Engineering, Architecture and Technology's Fire Service Training program recently hosted the 2025 Oklahoma Swiftwater Rescue Conference & Competition

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## Vision to voltage: ECE researcher leads trustworthy AI-driven energy revolution

School of Electrical and Computer Engineering researchers led by Jack H. Graham Endowed Fellow of Engineering and Assistant Professor Dr. Ying Zhang, are involved in a three-year Hamm Institute project to help the energy sector meet its security needs for future energy networks.

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## FCEM research optimizes fleet management for electrical contractors

A team of researchers led by Dr. Amy Lewis, assistant professor in the School of Fire, Construction and Emergency Management in the College of Engineering, Architecture and Technology, is part of a project that was selected by ELECTRI to study how electrical contractors can optimize the management of their vehicle fleets.

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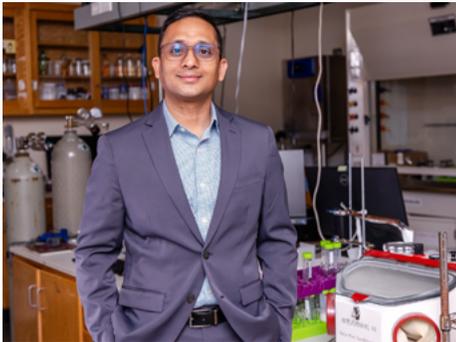


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## Undergraduate research program bridging advanced manufacturing and cybersecurity coming to OSU

The U.S. is facing a projected shortfall of 2.1 million unfilled manufacturing jobs by 2030. Two researchers from the College of Engineering, Architecture and Technology, Drs. Sri Ramesh and Ranji Vaidyanathan, are prepared to face this issue head-on with an award from the National Science Foundation to launch a Research Experiences for Undergraduates site focused on the intersection of advanced manufacturing and cybersecurity.



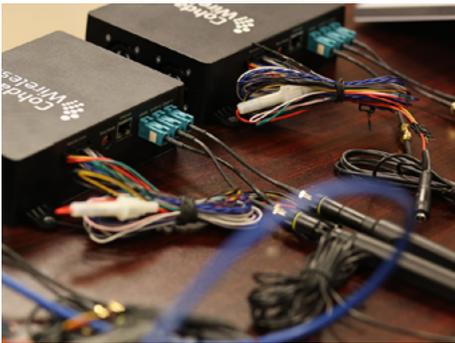
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## OSU researchers combine expertise to study Oklahoma's white hydrogen availability

The global energy landscape is changing as alternative energy has started to play a larger role. Meeting this challenge requires forward-thinking researchers developing innovative technologies and exploring revolutionary new concepts. One energy carrier, hydrogen — a versatile element with uses ranging from industrial production to clean transportation — has shown tremendous versatility with a multitude of uses.

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## CIVE research studies rural readiness for AVs

Dr. Joshua Li, associate professor of CIVE, has been involved with numerous projects that have made great contributions to drivers being safer on roadways. Earlier this year, Li's team was awarded \$60,000 from the Southern Plains Transportation Center for a project titled "Preparedness of Autonomous Transportation in Rural and Tribal Communities."

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## James Stine opening doors in integrated circuit design

In the College of Engineering, Architecture and Technology at Oklahoma State University, electrical engineering professor Dr. James Stine is doing something quite radical: unlocking the black box of integrated circuit design. Stine, Edward Joullian Endowed Chair in Engineering, is on a mission to make it open, teachable and — most importantly — accessible.

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## Alumni Highlight - Ray Koons

For one Oklahoma State University College of Engineering, Architecture and Technology alumnus, an education in electrical engineering was more than a degree; it's what allowed him to find the frequency that resonated, leading to a lifetime of innovation. From his earliest days on campus, Ray Koons learned to embrace challenge, adapting and leading with confidence.

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## Sophie Hawkins receives the ASHRAE Charles E. Henk Scholarship

Oklahoma State University senior Sophie Hawkins, majoring in mechanical engineering with a minor in management and business sustainability, has been awarded the American Society of Heating, Refrigerating and Air-Conditioning Engineers Charles E. Henk Scholarship.



## CEAT SEMINAR SERIES

Sept. 9 (CHE)

### Dr. Kosma Szutkowski

NanoBio Medical Centre  
*Mapping long-range 3D lithium diffusion in solid electrolytes using pulsed-field gradient NMR and MD simulations*

Sept. 9 (ZINK)

### Capt. Aaron Stutzman

U.S. Navy  
*Designing and Building the USS Oklahoma Nuclear Submarine.*

Sept. 10 (ARCH)

### Dr. Kim Yao, FAIA

*Architecture. Research. Office.*  
*The design of architecture practice.*

Sept. 16 (PETE)

### Dr. Christine Ehlich - Economides

University of Houston  
*Models for emerging enhanced geothermal system concepts*

Sept. 24 (CHE)

### Thomas J. Schwartz

University of Maine  
*Liquid-phase, acid-base catalytic conversion of biomass to fuels and chemicals.*

Sept. 30 (CHE)

### Dr. Daniel D. Burkey

University of Connecticut  
*Teaching and assessing engineering ethical decision making using pretrained language models and text analytics.*

*Check out the upcoming scheduled speakers!*

**8TH ANNUAL**

**9/11 Memorial**

**SEPT. 06** | **MEET @ 7:30 AM** | **START @ 8:00 AM**

**STAIR CLIMB**

GATE 3 WEST BOONE PICKENS STADIUM // PARKING AVAILABLE IN LOT 10

CLIMB THE EQUIVALENT OF 110 FLOORS IN BOONE PICKENS STADIUM TO HONOR THOSE 343 FIREFIGHTERS WHO LOST THEIR LIVES TRYING TO SAVE OTHERS IN THE ATTACK ON THE WORLD TRADE CENTER TOWERS IN NYC ON SEPT 11, 2001.

Funds raised to benefit the National Fallen Firefighters Foundation: <https://www.firehero.org/>.  
Registration is free for our climbers and volunteers. Sponsorship information is available by scanning the QR code below.

Sponsored by OSU Fire Protection Society

Co-Sponsored by OSU Firefighter Combat Challenge Team