

OSU'S GIGANTICS PROJECT EXPANDS SWARM TRACKING TO INFLUENCE FUTURE DESIGNS OF ROBOTICS, AGRICULTURE AND DEFENSE

Research on the movements of bee swarms, which could influence the design of robotics, drones and national defense technology, is underway. Dr. Imraan Faruque, associate professor in the School of Mechanical and Aerospace Engineering, is the principal investigator on a project called "GIGApixel iNsect Tracking" to Investigate Collaboration in Swarms (GIGANTICS)."

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JULY 2026 CEAT HIGHLIGHTS



OSU PROJECT AIMS TO STRENGTHEN OCEAN THREAT DETECTION

The ocean is vast and increasingly difficult to monitor. From illegal trafficking operations to threats against offshore infrastructure, the challenge of keeping watch over hundreds of thousands of square miles has outgrown what traditional surveillance methods can realistically handle. Dr. Baski Balasundaram from the School of Industrial Engineering and Management is developing a mathematical optimization framework designed to help improve persistent maritime surveillance using fleets of unmanned surface vehicles that support national security and critical infrastructure protection.

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RESEARCHERS STUDYING AN INNOVATIVE APPROACH TO REDUCE CONSTRUCTION RUNOFF POLLUTION IN OKLAHOMA

While construction sites are a sign of growth in a community, the exposed soil during earthwork can create serious water quality problems long after the equipment has left the site. Researchers in the School of Civil and Environmental Engineering are studying an emerging stormwater treatment approach designed to reduce sediment and pollutant runoff from construction sites before it reaches nearby bodies of water.

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FUTURE FEMALE FIREFIGHTERS FIND THEIR SPARK AT CAMP FIERCE

Women from across the region are stepping into firefighter boots during Camp Fierce, a three-day, immersive training experience at CEAT's Fire Service Training grounds, designed to inspire and empower females of all ages to explore careers in the fire service.

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OSU RESEARCHERS EARN HAMM INSTITUTE SEED GRANTS TO ADVANCE OKLAHOMA'S ENERGY FUTURE

Two researchers from the School of Chemical Engineering, Drs. Yu Feng and Praveen Meduri, have received grants from the Hamm Institute of American Energy to support innovative projects aimed at addressing some of the energy sector's most pressing challenges, managing the growing power demands of artificial intelligence and transforming oilfield waste streams into valuable resources.

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A TEAM OF OSU STUDENTS AND FACULTY HAS DEVELOPED REARGEAR 3.0, A MACHINE DESIGNED TO HELP USERS SAFELY SIT, STAND AND REBUILD STRENGTH

By not using traditional weights, REARGEAR 3.0 aims to reduce both the physical and psychological barriers often associated with rehabilitation.

WATCH THE VIDEO



LEY FEATURED ON INFRASTRUCTURE TECHNOLOGY PODCAST

This episode of the Infrastructure Technology features Roads and Bridges with Staff Writer Jessica Parks interviewing Dr. Tyler Ley, a structural engineering professor in the School of Civil and Environmental Engineering. A self-described “concrete freak”, Ley discusses why concrete matters so deeply to infrastructure, how better concrete design can create structures that last generations and how innovation is transforming the field.

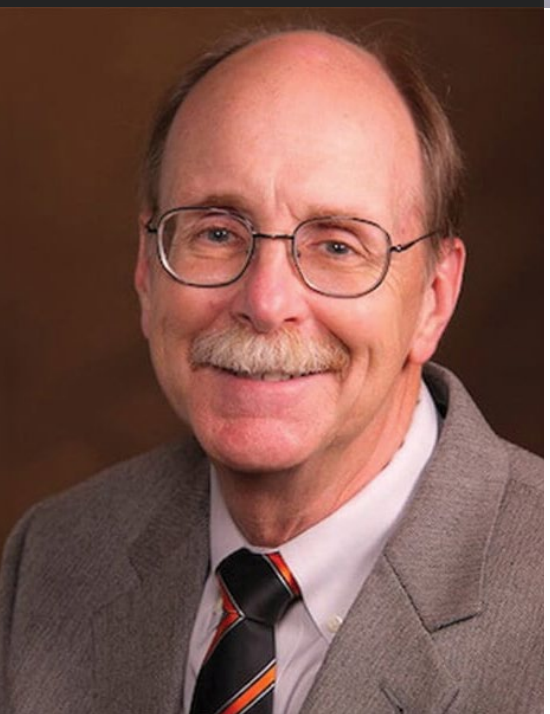
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VEENSTRA ONE OF THREE TO BE INDUCTED INTO OKLAHOMA HIGHER EDUCATION HERITAGE SOCIETY HALL OF FAME

Associate Dean John Veenstra will be inducted into the Oklahoma Higher Education Hall of Fame on Nov. 2 in the Nigh University Center Ballroom at the University of Central Oklahoma

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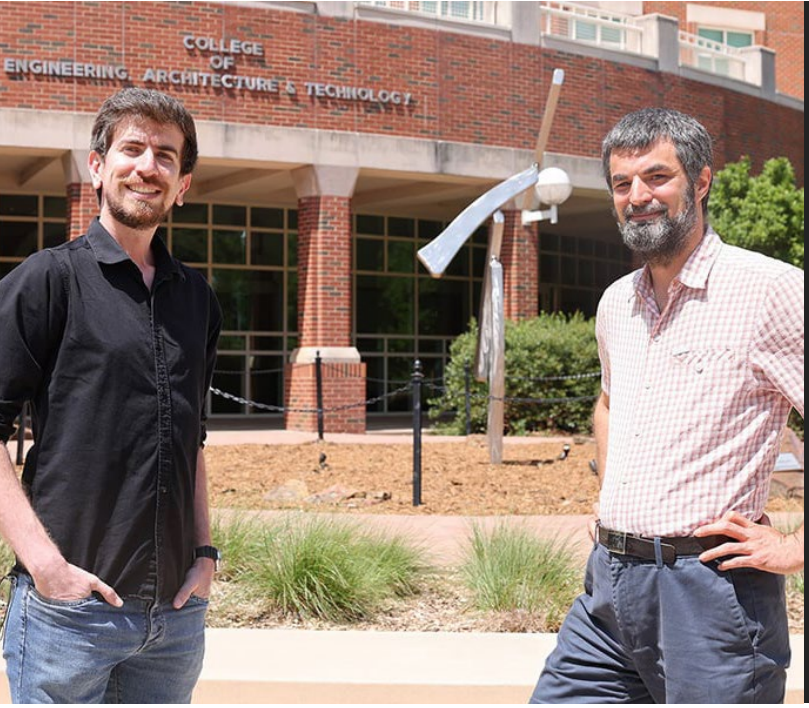




OSU UNVEILS RESEARCH AFFILIATE MODEL AT ANNUAL IGNITE SYMPOSIUM

What do the Avengers and researchers at OSU have in common? Each brings a distinct strength — but their greatest impact comes when those strengths come together. On April 15, that idea came to life as faculty from across disciplines gathered at the IGNITE Symposium, where the Human Performance and Nutrition Research Institute is facilitating a more connected, collaborative approach to advancing health research.

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MAE GRADUATE STUDENT AZADDEL NAMED RECIPIENT OF ASHRAE GRANT-IN-AID AWARD

Mohammadreza Azaddel has always aimed to help mankind live more easily, whether on Earth or another planet.

This passion has led him to become an engineer researching ways to make heating, ventilation and cooling more efficient while using environmentally friendly refrigerants. For his work, Azaddel has been named a recipient of a 2026 ASHRAE Graduate Student Grant-in-Aid award.

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FROM PROBLEM TO PRODUCTION: A COOL IDEA TAKES OFF

When an Oklahoma resident realized the air conditioning in his house could not keep up with the heat, he put his engineering mind to work.

Jeff Hill, a Navy veteran, tackled a widespread challenge caused by Oklahoma's intense heat — overworked AC units. With support from CEAT's New Product Development Center, Hill created a solution to keep his AC running efficiently and for a long time.

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BIAN NAMED HEAD OF IEM

Dr. Linkan Bian has been named professor and head of the School of Industrial Engineering and Management. Bian brings a national perspective and a proven record of leadership in advanced manufacturing, AI and systems engineering.

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CARRIE PARKER, A 2012 ARCH ALUMNUS, RECEIVED THE 2026 AIA YOUNG ARCHITECT AWARD

Carrie Lee Parker, AIA, is an associate vice president at CannonDesign and a national leader in shaping the future of the profession through mentorship, advocacy and service. A powerful voice for emerging professionals, she has dedicated her career to creating pathways for architects to thrive, guiding students, supporting licensure and elevating early-career voices across the industry.

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JESSICA O'DONNELL NAMED AIA FELLOW, RECOGNIZING HER SIGNIFICANT CONTRIBUTIONS TO THE PROFESSION AND SOCIETY

When Jessica stepped foot into the School of Architecture as a freshman, she had no way of knowing what would come next. That year, she got involved with the AIAS chapter and a student-run program called ASTEK (Architecture Students Teaching Elementary Kids). Those experiences ignited a passion for giving back and investing in the future of the profession..

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OSU RESEARCHER ADVANCES NEW MATERIALS TO REDUCE FRICTION, IMPROVE ENERGY EFFICIENCY

Dr. Pranjal Nautiyal, an assistant professor in the School of Mechanical and Aerospace Engineering, is conducting new research to address a widespread challenge in modern engineering — friction and wear in mechanical systems. Supported by the National Science Foundation's EPSCoR Research Fellows program, Nautiyal's project explores advanced materials known as MXenes.

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ALUMNI HIGHLIGHT - LESLIE USED HIS ENGINEERING DEGREE FOR THE BETTERMENT OF THOSE IN NEED

Dr. John H. Leslie Jr. built a successful career by bridging engineering, rehabilitation science, public service, and academic leadership. Leslie earned his Ph.D. in industrial engineering at OSU and was the recipient of a National Science Foundation Science Faculty Fellowship that launched his teaching career.

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FROM STILLWATER TO SPACE: SPEARS BUSINESS GRADUATE RUNS COMPANY POWERING LUNAR MISSIONS

On April 1, hundreds of thousands of spectators swarmed Florida's Space Coast for a glimpse at a historic marvel. Four astronauts embarked upon NASA's Artemis II mission, the first to carry humans around the moon in over half a century. From the ground, Spears graduate Dr. Brenda Rolls proudly gazed at the rocket roaring through the evening sky for liftoff.

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ALUMNI HIGHLIGHT - LEE EASTON TURNS WORK ETHIC INTO INNOVATION AND IMPACT

For Lee Easton, success didn't come from taking the easiest path. It came from finding where he could grow, putting in the work and building something meaningful along the way. A 2014 electrical and computer engineering graduate, Easton now balances a full-time engineering career with entrepreneurship, leading multiple companies and teams.

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