



# CEAT Highlights

July 2018



## Nancy Trench from Fire Protection Publications Talks About the Importance of Firework, Water and Storm Safety.

Click the image to view the video.

## Academics

### OSU's Master of Science in Industrial Engineering and Management Ranked Third in the Nation

Oklahoma State University's Master of Science in Industrial Engineering and Management has been ranked number three by OnlineColleges.com for online colleges in industrial engineering in the United States.

"The MS program in IEM is a highly competitive program that produces students with strong optimization and data analytics skills who are sought after by employers such as 3M, Amazon, Apple, Dell, Home Depot, Mercedes-Benz, Tesla, and scores of other companies large and small," said Sunderesh S. Heragu, Regents Professor, Head and Humphreys Chair for IEM. "We have top-notch faculty offering courses in applied statistics, data analytics, logistics, management, operations research, supply chain management, and many other areas, making it a highly successful graduate program at OSU."

In this program, students have the opportunity to learn about industrial engineering from both a broad and a narrow perspective, with particular attention to the business and social parameters of the field; the university's website stresses that "industrial engineering is the most people-oriented discipline within the engineering family," and the priorities of its program reflect this viewpoint. Undergraduate courses in engineering are also available online, for those who are working their way up to the master's level.

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# Academics

## Rama Ramakumar to be Inducted into Oklahoma Higher Education Hall of Fame

Rama Ramakumar, regents professor in electrical and computer engineering and PSO/Albrecht Naeter Professor, will be inducted into the Oklahoma Higher Education Hall of Fame on Nov. 5, 2018.

Since 1994, the Oklahoma Higher Education Heritage Society has recognized individuals, living and deceased, whose achievement and leadership in scholarship, teaching, research, administration, staff support, outreach and public service have brought honor and distinction to higher education in the state by inducting them into the Oklahoma Higher Education Hall of Fame, according to their website. To date, more than 200 men and women have been so honored.

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## OSU Chemical Engineering Professor Continues Tradition of National Science Foundation Awards

Dr. Jeffery L. White, Professor of Chemical Engineering at Oklahoma State University, was recently recognized as the Principal Investigator on a new award from the Chemical Catalysis division of the National Science Foundation entitled “Understanding an Active and Beneficial Role for Water in Solid-Acid Catalyzed Hydrocarbon Chemistry”. The \$848K project includes three collaborators at OU with whom Dr. White has worked for many years, Dr. Daniel Resasco, Dr. Steven Crossley, and Dr. Bin Wang. This is Dr. White’s seventh consecutive nationally-competitive NSF grant as Principal Investigator, having received his first in 2001. In addition to

this new award, Dr. White is currently PI on another NSF grant from the Division of Materials Research for his polymer research, and from the Division of Chemistry for a Research Experience for Undergraduates (REU) project administered through the Department of Chemistry.

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## Professor Wang Named Subject Editor for Leading Scholarly Journal

Recognized for the critical research he’s achieved in process safety and fire protection engineering, Dr. Qingsheng Wang has been appointed subject editor of the Process Safety and Environmental Protection (PSEP), Elsevier publication of the Institution of Chemical Engineers (UK) and the official journal of the European Federation of Chemical Engineering: Part B.

PSEP is one of the most prestigious journals in the safety and environment areas with an Impact Factor of 3.441. It is the principal international journal for publication of high quality, original papers in the branches of engineering concerned with the safety of industrial processes and the protection of the environment.

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## OSU FPST Alumnus Will Serve as President of ASSP

For the first time in over 100 years, an Oklahoma State University Fire Protection Safety Technology alumnus will serve as president of the American Society of Safety Professionals (ASSP). Rixio Medina was recently elected to serve as president starting July 1, 2018 and will serve through June 30, 2019.

Medina holds a bachelor’s degree in Fire Protection and Safety Engineering from Oklahoma State University and a master’s degree in industrial security from the University of Central Missouri. He is a certified safety professional, certified protection professional and a Fellow of ASSE. Medina served as a presidential appointee to the U.S. Chemical Safety Board and was president of the Board of Certified Safety Professionals. He was introduced to the CEAT Hall of Fame in 2013 and recognized as a Distinguished Alumni by the OSU Alumni Association in 2009.

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# Academics

## OSU Supporter Delores M. Etter Awarded Top Honor

Former electrical and computer engineering student and OSU supporter, Delores M. Etter, was awarded the IEEE James H. Mulligan, Jr. Education Medal on Thurs., May 11 in San Francisco, Cal. This selection was for her contributions to engineering through innovative textbooks on problem solving with computing languages and software tools.

Etter holds a bachelor's and master's in mathematics and a Ph.D in Electrical Engineering. After serving as a faculty member for several years, she was nominated in 1991 to serve as the Deputy Under Secretary of Defense for Science and Technology by President Bill Clinton. In 2001 she became the first Office of Naval Research Distinguished Chair in Science and Technology. President George W. Bush nominated Etter as Assistant Secretary of the Navy in 2005. An IEEE Life Fellow and member of the U.S. National Academy of Engineering, Etter is now a Professor Emeritus with the department of electrical engineering at Southern Methodist University.



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## Bailey Whitman Bonjour Wins Again



Bailey Whitman Bonjour, master's student in industrial engineering and management (IEM), placed first in the graduate category of the Charles K. "Chuck" Nelson Student Paper Competition by APICS. She will receive \$1000 at the APICS Annual Conference October 2, 2018 in Chicago.

The Charles K. "Chuck" Nelson Paper Competition, now in its sixth year, challenges students to submit their original work relevant to the field of operations management/supply chain management.

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# Extension

## United States Fire Administration Releases Report Developed by IFSTA

The United States Fire Administration (USFA), an agency within the U.S. Department of Homeland Security, has announced the release of the updated edition of their Safety and Health Considerations for the Design of Fire and Emergency Medical Services Stations. The report was produced under a cooperative research agreement with the International Fire Service Training Association (IFSTA), headquartered at Fire Protection Publications (FPP) at Oklahoma State University.

"The IFSTA/FPP have a longstanding relationship for performing cooperative research agreements with the U.S. Fire Administration on a variety of fire service operational and safety issues," said Mike Wieder, associate director of FPP and executive director IFSTA. "These projects provide a number of benefits to all of the involved parties. The USFA makes the information directly available to the fire service community. The fire service can use the information in these reports to improve the efficiency and safety of their operations."

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# Extension



## OSU's LTAP Working to Make Bike Trails Safer for Communities

– Oklahoma State University's Local Technical Assistance Program is working with the Federal Highway Administration (FHWA) to make our bike trails safer for bikers, pedestrians and automobiles. Last week, a group of 25 educators, engineers, designers and officials gathered to learn about designing safe bike trails for Oklahoma communities.

The increase in bicyclist fatalities and injuries underscores FHWA's awareness of the need for this class, which identifies specific measures Oklahoma officials can take to make the trails safer.

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## Erick Reynolds Named Shey P. Francis Award Winner

The Oklahoma State Firefighters Association presented the Shey P. Francis Award to Erick Reynolds, director of OSU's Fire Service Training, on June 15 in Tulsa.

This award is presented to persons who are deemed worthy of Shey P. Francis' example, who have made a sincere dedicated effort, the sincere desire to improve working conditions, funding, training opportunities, and salaries and/or pensions for the firefighters of the State of Oklahoma. It has only been presented to four individuals since it was established in 1988.

Reynolds has been a volunteer fire fighter and fire chief for over 30 years. He holds three degrees from Oklahoma State University which include a bachelor's in trade and industrial education, and a master's and Ed.D. in Occupational and Adult Education.

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## CEAT Alumnus Becomes New Fire Chief in Safety Harbor

Florida was never on the radar for Josh Stefancic, who started his fire service career in the suburbs of Chicago.

But then a mentor encouraged him to think bigger, so he applied for a job at Tarpon Springs Fire Rescue. He left a blizzard in the throes of winter to visit the area and thought, “Man, this is really nice.”

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# Research

## NASA Selects OSU Team to Develop System Prototypes for Deep Space



NASA and the National Space Grant Foundation have selected Oklahoma State University among the 10 university teams to design systems, concepts and technologies to potentially support the agency’s deep space exploration capabilities, including the Lunar Orbital Platform-Gateway.

This selection is part of the eXploration Systems and Habitation (X-Hab) 2019 Academic Innovation Challenge and include proposals to advance 3D printing in space, improve spacecraft environmental recycling systems, refine plant growth systems and create conceptual habitat designs.

“The X-Hab challenge is a great example of how NASA is using non-traditional approaches to developing important technology, while providing unique technical student experiences that can inspire future careers,” said Jason Crusan, director of Advanced Exploration Systems at NASA Headquarters in Washington.

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## New Research On Sound Could Make Tornado Warnings More Accurate

Forecasters have gotten better giving advance notice of when tornadoes might strike. Now, there’s a new technology that may help researchers even more: listening for the sounds of a tornado that humans can’t hear.

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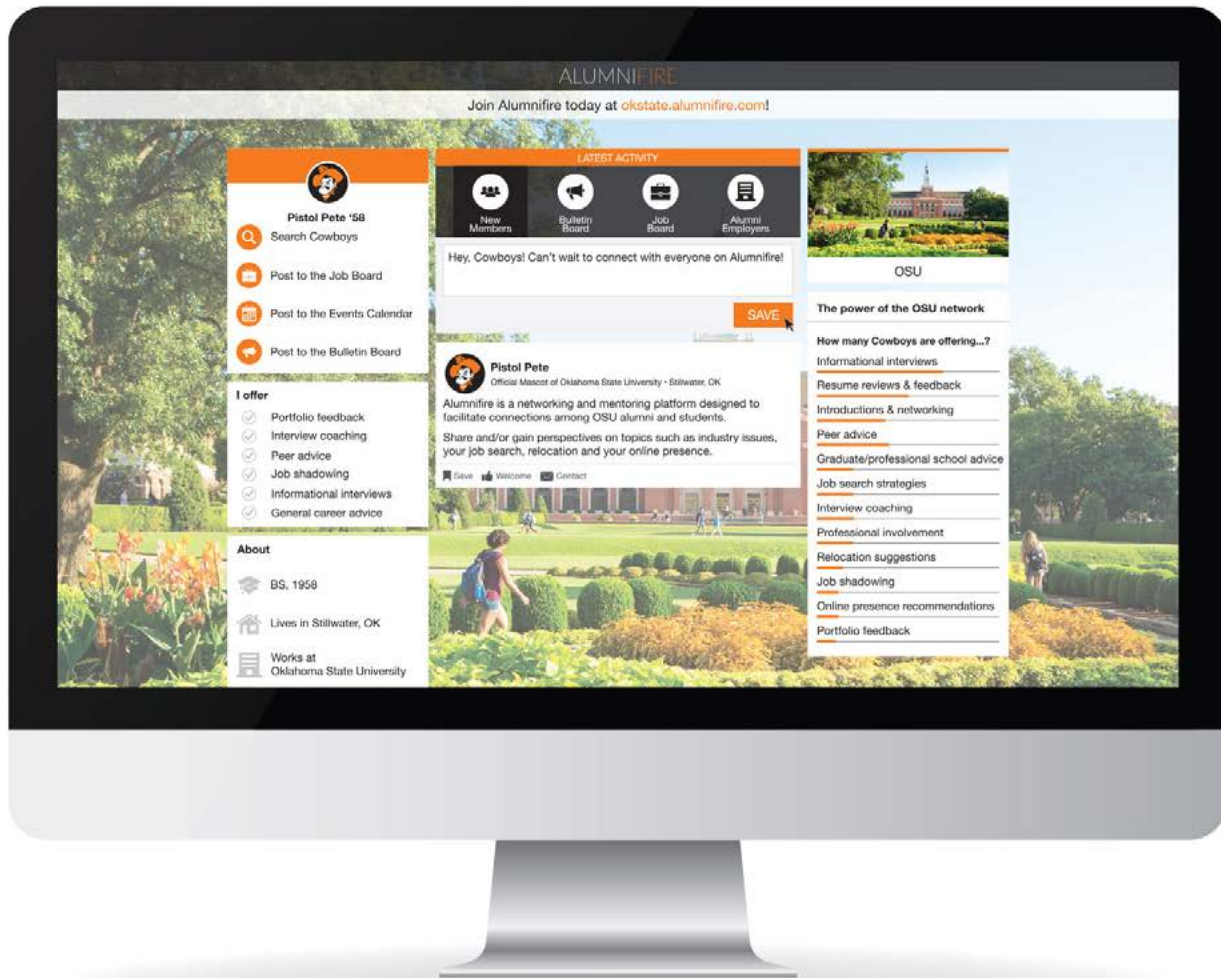
## Omer San Selected to Receive Early Career Research Funding

The Department of Energy (DOE) has selected Omer San, OSU mechanical and aerospace engineering associate professor as one of 84 scientists from across the nation to receive significant funding for research as part of the DOE Office of Science’s Early Career Research Program.

“Supporting talented researchers early in their career is key to building and maintaining a skilled and effective scientific workforce for the nation. By investing in the next generation of scientific researchers, we are supporting lifelong discovery science to fuel the nation’s innovation system,” said Secretary of Energy Rick Perry “We are proud of the accomplishments these young scientists have already made, and look forward to following their achievements in years to come.”

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