

October 2023

Moussa Awarded NIH Grant to Design Algorithms for Studying Cancer Initiation

Marmar Moussa, of the School of Computer Science, secured a nearly \$1 million award from the National Institutes of Health for her research on computational genomics. Her study, “Computational approaches to the mechanistic elucidation of the serrated pathway of human colon carcinogenesis,” aims to uncover the mechanisms behind human colon cancer’s serrated pathway using computational methods to explain its development. [Learn more.](#)



OU's Project Wins NSF Grant for Carbon-Free Hydrogen Energy Research

OU’s Carbon-Free H₂ Energy Production and Storage project, CHEPS, is set to receive a \$3.6 million grant from the National Science Foundation over five years. Led by Dimitrios Papavassiliou, of the School of Sustainable Chemical, Biological and Materials Engineering, the project will focus on co-developing and implementing socially equitable hydrogen energy solutions in rural and Tribal communities in Oklahoma. [Learn more.](#)



Yeary to Lead \$8.16M Grant from Office of Naval Research

OU's Advanced Radar Research Center and Epirus have secured an \$8.16 million grant from the Office of Naval Research for a three-year collaboration. Led by Mark Yeary, of the School of Electrical and Computer Science, the research will focus on boosting the power output of digital, solid-state arrays, specifically phased arrays. The project aims to overcome radar range limitations and address the increasing threat of unmanned aerial systems by increasing the transmitted long-distance power density. [Learn more.](#)



Kazempoor Successfully Wraps Up DOE Project on Reversible Electrochemical Technology

Pejman Kazempoor, of the School of Aerospace and Mechanical Engineering, and his research team have wrapped up a Department of Energy supported project titled "Reversible Methane Electrochemical Reactors as Efficient Energy Storage for Fossil Fuel Power." The reversible electrochemical technology promises to minimize energy loss during the storage and retrieval process, making it a game-changer for the industry, he says. [Learn more.](#)



Oklahoma Transportation Research Day Spotlights Innovation, Collaboration

The [Southern Plains Transportation Center](#) and Oklahoma Department of Transportation, along with Accelerated Bridge Construction University Transportation Center, co-hosted the annual Oklahoma Transportation Research Day on Oct. 17 at the National Cowboy and Western Heritage Museum. A major technology transfer event in Oklahoma, the day consisted of oral and poster presentations, discussions and identification of potential research topics for ODOT, the Oklahoma Turnpike Authority, Federal Highway Administration and other transportation stakeholders.



Six of the speakers represented four SPTC consortium partner institutions. The event included keynote lectures from Tara Brown, ODOT deputy chief innovation officer, and Atorod Azizinamini, a structural and bridge engineering professor at Florida International University. *From left, Tara Brown with poster winners Mohamed Ali Habib of OU Engineering, Sina Mousavi Rad of Oklahoma State University, Omar Yadak of OU Engineering, and Bryan Cooper, ODOT transportation manager. Not shown is poster winner Francis Ashu of Missouri University of Science and Technology.*

In Memory of Lt. Gen. Gene Kirkland, 1961-2023

OU Engineering grieves the loss of Lt. Gen. Donald E. “Gene” Kirkland II who died Oct. 5, 2023. He came to OU in late 2021 after a 34-year career in the U.S. Air Force, culminating with his service as the commander of the Air Force Sustainment Center at Tinker Air Force Base. At OU, he served as the Oklahoma Aerospace and Defense Innovation Institute's inaugural executive director. Learn more about [Lt. Gen. Kirkland's legacy](#).



History Pages

1972

The OU College of Engineering's first computer center was established in 1972 with 20 machines for use by students and faculty. In the 21st century, the college maintains instructional computer labs, but also requires all students to have their own laptops.

Source: Martinelli, D. (2010). 100 Years of Engineering. Sooner Magazine, 8-13.

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