OU ENGINEER

Gallogly College of Engineering — The UNIVERSITY of OKLAHOMA

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In the October issue of OU ENGINEER, learn how engineers at the University of Oklahoma rise to the challenge of an ever-changing world.

Economic Development Administration Awards OU Engineering $7M for Bioprocessing Core Facility

The coalition is supported by more than 40 partners across academia, tribal nations, government, industry, community, investors, and other key stakeholders involved in the continued development of the burgeoning biotechnology cluster in Oklahoma.

The Oklahoma Biotech Innovation Cluster Initiative, a coalition spearheaded by the Greater Oklahoma City Chamber alongside the University of Oklahoma, the Oklahoma City Innovation District and Echo Investment Capital, has been awarded $35 million through the Build Back Better Regional Challenge of the U.S. Economic Development Administration.

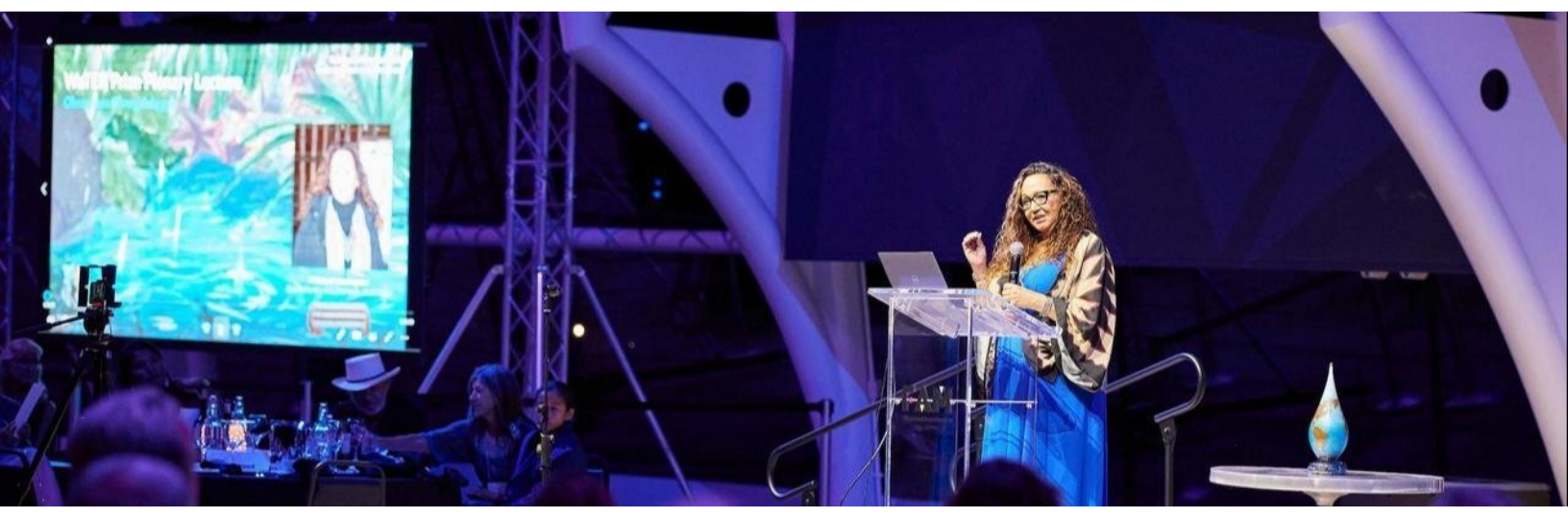
Gallogly College of Engineering is one of six projects supported by the award receiving $7 million for the initiative. In 2023, the college will open an interdisciplinary workforce education and research center to serve the growing biopharmaceutical industry in Oklahoma. Named the OU Bioprocessing Core Facility, the center will serve as a shared research resource in the fields of biopharmaceutical manufacturing and bioprocess engineering. Read more.

OU Engineers Receive Department of Energy Support

Cai, Moses Win EPSCoR Award. Jie Cai, School of Aerospace and Mechanical Engineering, and Paul Moses, School of Electrical and Computer Engineering, were awarded funding to study thermal energy storage in commercial and residential buildings. The project is titled “Aging-Aware Management of Motorized Energy Storage for Grid Flexibility Provision” and is made possible by the U.S. Department of Energy through its Establish Program to Stimulate Competitive Research (EPSCoR). Read more.

Crossley Receives EPSCoR Award. Steven Crossley, School of Chemical, Biological and Materials Engineering, received $749,190 in funding for a project titled "Interrogating Complex and Dynamic Interfaces During Carbon-free H2 Production." The project is supported by the DOE's EPSCoR program that recently announced $21 million in funding for 29 new projects to support energy-relevant research in underrepresented regions. Learn more.

Wang Receives DOE Funding. School of Chemical, Biological and Materials Engineering faculty member Bin Wang's three-year project, “Computational Design of Heterogeneous Catalysts for Coupling CO2 and Ethylene to Manufacture Acrylic Acid Derivatives,” is funded by a $677,925 award from the DOE through a Chemical and Materials Sciences to Advance Clean Energy Technologies and Low-Carbon Manufacturing funding opportunity. The funding is part of a $540 million DOE initiative to “Reduce Climate Impacts of Energy Technologies and Manufacturing.” Read more.



OU International Water Prize Recipient Dawn Martin-Hill: 'Our entire way of life is governed by water'

Cultural anthropologist Dawn Martin-Hill is the recipient of the 2022 OU International Water Prize presented Sept. 26 at the OU International WaTER Conference at First Americans Museum in Oklahoma City.

An associate professor at McMaster University in Ontario, Canada, she was recognized for her contributions to understanding how water quality and security are linked to Indigenous community culture, livelihood and health.

Martin-Hill's research examines the sources of water contamination in both Six Nations and the Lubicon Cree in Alberta. At the banquet, she spoke of her commitment to studying and improving the health impacts of water quality on people and animals that live in both communities. Read more.

View program, presentations and photos here.

OU, Air Force Engineers Work to Create Non-Toxic Primer for Aerospace Applications

A research team, coordinated by the Oklahoma Aerospace and Defense Innovation Institute at the University of Oklahoma, is working with members of the 76th Maintenance Wing at the Oklahoma City Air Logistics Complex to develop a novel chromium-free organic primer for aerospace applications. Gallogly College of Engineering Dean John Klier is leading the project alongside Brian Grady, a professor in the School of Chemical, Biological and Materials Engineering. Read more.

OU, Phillips 66 Collaboration Earns OU Engineer International Honor

The American Chemical Society honored Daniel Resasco with the Exceptional Achievements in Catalysis award at a special symposium of the Catalysis Division during its Fall 2022 national meeting in Chicago.

Resasco, a professor in the School of Chemical, Biological and Materials Engineering, was recognized for advancing solutions for a lower-carbon future working with researchers at Phillips 66. Walter Alvarez, principal scientist at the Phillips 66 Research Center in Bartlesville, Oklahoma, led the nomination effort. Read more.

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