

C&PE NEWS

Chemical & Petroleum Engineering

October 1, 2021



SAVE THE DATE

All Department Networking Social

Friday, October 15th | 4:30 - 6pm | Beren Petroleum Conference (G192 Slawson Hall)

This is an opportunity for ALL students to meet with faculty, C&PE Advisory Board Members, and distinguished alumni. Appetizers and drinks will be provided. Guests over 21 will be offered one glass of beer or wine.

Link to RSVP:

https://kuservey.ca1.qualtrics.com/jfe/form/SV_b8vfSaX8YrpwFCe

Grad Student Ice Cream Social

Sponsored by GEA | Starts at 4pm on Friday, October 15th. This is an informal event for graduate students, faculty, and researchers specifically.

Link to RSVP:

<https://forms.gle/bYrJSm34WKzjLNCE8>

IN THE NEWS

Two Students Receive Undergraduate Research Awards



Amanda Hertel (left) and Greta Olsen (right) Receive Undergraduate Research Awards (UGRA)

This fall, 13 University of Kansas students will receive an Undergraduate Research Award (UGRA), and two of those students are from the CPE Department. UGRA recipients are awarded a \$1,000 scholarship as they work on mentored research and creative projects.

Amanda Hertel, a senior from Shawnee: "Tau Protein and Lipid Dysregulation: Potential Role in Alzheimer's Disease Progression," mentored by Prajna Dhar.

Greta Olsen, a senior from Bartlesville, Oklahoma: "Physical Property Characterization of Ionic Liquids Using a High-Pressure View Cell," mentored by Mark Shiflett.

"These student projects explore innovative ideas in different disciplines across campus," said Alison Olcott, director of the Center for Undergraduate Research and associate professor of geology. "With their mentors' support, these students are learning to use the tools of their disciplines to make important contributions to their fields of study."



Dr. Jennifer Robinson Receives 2021 MIRA Award

Please join The Chemical & Petroleum Engineering Department at the University of Kansas in congratulating Dr. Jennifer Robinson for being awarded an NIH NIGMS ESI Maximizing Investigators' Research Award (MIRA).

Dr. Robinson's research program aims to develop natural and synthetic polymer-based biomaterial tools to interrogate sex differences in tissue repair, regeneration, and homeostasis.

Learn more online @ cpe.ku.edu/cpe-news

THE UNIVERSITY OF KANSAS



NIH National Institute of General Medical Sciences

NSF to establish the Research Experience for Teachers: IDEA-BioE

KU has secured a three-year, \$586,645 grant from the National Science Foundation to establish the Research Experience for Teachers: IDEA-BioE.

The project will pair six middle school math and science teachers from the Topeka Public Schools and six pre-service science teachers from KU's STEMTeach program with researchers in the School of Engineering.

[CLICK HERE](#) to read the full article.

Introducing COGEIS: The Center for Net Carbon Zero GeoEnergy Intelligence and Sustainability

The Chemical & Petroleum Engineering Department is excited to announce a new research center COGEIS: The Center for Net Carbon Zero GeoEnergy Intelligence and Sustainability. This new center stems from a collaboration between CPE faculty members Amirmasoud (Masoud) Kalantari (top, left), Shahin Negahban (right, center), Mark Shiflett (left, bottom), their respective research groups, and their external collaborators at UCLA and the Illinois State Geological Survey. Through this new center, Dr. Kalantari is the Principal Investigator and leading a \$3.49 million project funded by The US Department of Energy (DOE) to develop a novel "Smart Microchip Proppants" technology for precision diagnostics of hydraulic fracture networks (project duration 2019- 2023).

Learn more about their projects, mission, and objectives on their website <https://c0geis.ku.edu/>



NSF EPSCOR Grant Will Advance Manufacturing Of Renewable And Recyclable Plastics

Plastics are an indispensable part of today's society. These nimble polymers help keep foods fresh, cars safe, arteries clog-free and have countless other uses. But the benefits come at a cost. Each year millions of tons of discarded plastic pollute ecosystems, harm animals and exacerbate climate change.

Now, a \$4 million award from the National Science Foundation's EPSCoR RII Track 2 program will bring together the researchers from Kansas and Delaware and fund work to improve how plastics are manufactured and recycled.

Subramaniam is one of five professors who will lead and supervise specific parts of the research. Others include Alan Allgeier, associate professor of chemical & petroleum engineering and CEBC deputy director; Donna Ginther, Roy A. Roberts Distinguished Professor of Economics and director of KU's Institute for Policy & Social Research; Timothy Dawsey, executive director of the Kansas Polymer Research Center at Pittsburg State University; and Raul Lobo, Claire D. LeClaire Professor of Chemical & Biomolecular Engineering at the University of Delaware.

[CLICK HERE](#) to read full article.

RESOURCES & REMINDERS

KEY DATES

- October 6 | AIChE General Meeting, 6-7pm, G415 LEEP2
- October 7 | Research @ KU & Elsewhere, 4-5pm, [LEARN MORE/SIGN UP LINK](#)
- October 9 - 12 | Fall break
- October 15 | Department Networking Event (see 'Save the Date' above)
- November 1 | Undergraduate Application for Graduation deadline
- November 17 | Last day to withdraw from a class or the University
- November 24 - 28 | Thanksgiving break

MONTHLY SAFETY SEMINAR

CPE department will be holding a monthly safety meeting on the 3rd Wednesday of each month from 9 - 10 AM in the Beren Center in G192 Slawson Hall or via Zoom.

[Zoom Meeting Details](#)

Meeting ID: 915 3822 6380 | Passcode: 264403 | <https://kansas.zoom.us/j/91538226380>

HELPFUL LINKS

- Internships, REU program flyers, and job postings @ <http://cpe.ku.edu/opportunities>
- Assistance with learning/teaching remotely @ [Remote Learning Resources](#)
- Stay up-to-date with all department news @ [CPE News page](#)
- Learn about active research areas @ [CPE Research](#)
- Commonly needed [Engineering Forms](#) & [Department Forms](#)
- Find campus-wide events @ [KU Calendar](#) | Engineering events @ <https://calendar.ku.edu/engineering>

PROTECT KU TOGETHER
FOR THE GREATER GOOD

Help protect the spread of COVID-19 by maintaining your distance, wearing a mask, and washing your hands. Stay updated @ <https://protect.ku.edu/>

Have a story to share? Send details to cpe@ku.edu. The University of Kansas and the Chemical & Petroleum Department are dedicated to protecting your privacy. If you wish to unsubscribe from future newsletter, email cpe@ku.edu.