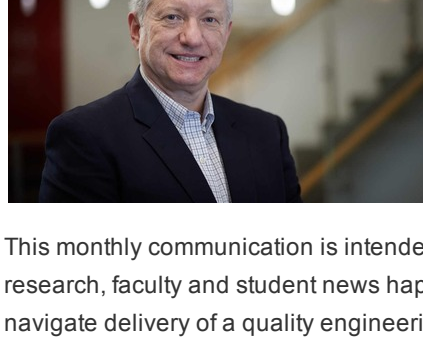




A Message From Dean Klier



After several months on the job as your new dean, I am so proud to be a part of the amazing Gallogly College family. From getting to know our faculty and staff, to interacting with our incredibly talented students, there is no other place I would rather be than at the University of Oklahoma.

This monthly communication is intended to keep you current with the exciting research, faculty and student news happening in the College. We continue to navigate delivery of a quality engineering education in the midst of the COVID pandemic. The University has provided our faculty with the tools necessary to do this effectively. Our students have proven their flexibility to adapt and our staff is providing the essential support that keeps us all moving forward. With the latest announcement from President Harroz that all but our research enterprise will be delivered virtually post-Thanksgiving break, it is apparent that OU leadership is keeping our safety as their number one priority. [Read announcement.](#)

Please enjoy this November edition of OU Engineer and please stay safe and well!

Best regards,

John Klier

Dean and AT&T Chair

November 2020

The mission of the Gallogly College of Engineering is to foster creativity, innovation and professionalism through dynamic research, development and learning experiences.

If you plan to make a gift before the end of the year, learn more about [making tax-deductible gifts during the holiday season](#) and special information about the implications of the [CARES Act](#) on charitable gifts.

[Invest in Our Mission](#)

Our international students need our support now more than ever. There are two options for supporting these students:

[College of International Studies Thousands Strong Campaign](#)

[Gallogly College Operation Engineering Emergency Fund](#)



Follow our [Research Blog](#) to stay current on the impact OU engineers are making!

[October Research Awards](#)

I-Net: AI-Based Self Organizing Network (SON) Framework for 5G and beyond Sponsor: Qatar University
Ali Imran, ECE

Transit Operations: Administering the Compliance Program - Drug and Alcohol Policies | Sponsor: ODOT
Sidhar Radhakrishnan, CS

Further Implementation of ODOT Knowledge Management Framework | Sponsor: ODOT
Michael Molina, Engr Dean
Musharaf Zaman, CEES

Transportation Research and Connectivity | Sponsor: Boeing Defense and Space Group
Michael Molina, Engr Dean
Musharaf Zaman, CEES

SII Planning: Theory, Practice and Reality of Spectrum | Sponsor: Texas A and M University
Jessica Ruyle, ECE

An Improved Approach to Estimate Bearing Capacity of Soil Using Laboratory and Field Data and Artificial Intelligence | Sponsor: State of Oklahoma, Center for the Advancement of Science and Technology
Musharaf Zaman, Matias Mendez Larrain, Talayeh Razzaghi, CEES

Development of Color Changing Polymer for Water Detection in Water Height Applications
Sponsor: Alliance for Affordable Energy
Keisha Walters, CBME

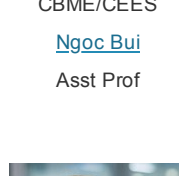
[In Memoriam](#)

Honoring the memory of those in our OU Engineering family

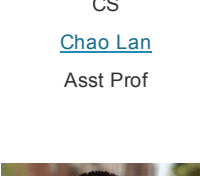
[Read more.](#)

- Col. Harold L. Beasley
- Maj. Gen. Carl Neil Beer
- Larry Canter
- Roger A. Chapman
- Omer Kircher, Jr.
- Theodore "Ted" Achilles Kritikos
- Mark McKinsey Jr.
- Christopher "Chris" E. Politte
- Kenneth L. "Ken" Smalley
- Lee Clayton Stoldt
- Franklin E. "Mike" Withrow, Jr.
- Leon Zelby

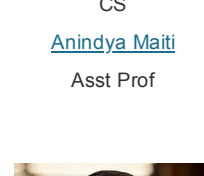
Introducing New Gallogly College Administrators and Faculty Members



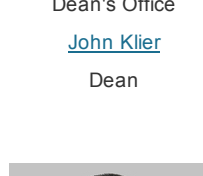
CBME/CEES
[Ngoc Bui](#)
Asst Prof



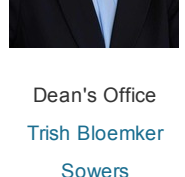
CS
[Chao Lan](#)
Asst Prof



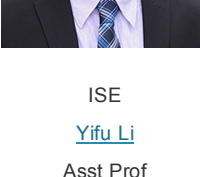
CS
[Anindya Maiti](#)
Asst Prof



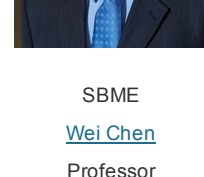
Dean's Office
[John Klier](#)
Dean



Dean's Office
[Trish Bloemker](#)
[Sowers](#)
Exec Dir of Advancement



ISE
[Yifu Li](#)
Asst Prof



SBME
[Wei Chen](#)
Professor



SBME
[Yuan Yang](#)
Asst Prof

Leadership Transitions in the Dean's Office



John Antonio



Randa Shehab



Zahed Siddique

There are several leadership transitions taking place this fall including [John Antonio](#), who will assume the role of Senior Associate Vice President for Research and Partnerships at OU. In this position, he will provide leadership in the development and implementation of the OU Norman Research Strategic Framework and Plan. John will remain a valued member of the GCoE faculty as professor of computer science and a strong partner in the development and implementation of our research strategy.

[Randa Shehab](#) will be promoted to Senior Associate Dean for Academic Affairs. In this new role, Randa will continue to oversee undergraduate programs and take on additional responsibilities in the area of faculty development.

[Zahed Siddique](#) is being promoted to Associate Dean for Research. In this role, he will take the lead in refining and executing our strategic research plan, including focus on growing our graduate programs. As Zahed begins his transition to the role of ADR, we will be working with the faculty in the School of Aerospace and Mechanical Engineering to appoint an interim director.

\$4 Million Gift from Charles Jones and Madelaine Pfau Establishes Two Key Chair Positions



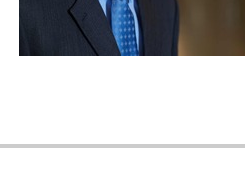
This \$4 million investment to make OU and the Gallogly College of Engineering a world-class leader in Data Science and Analytics and in Industrial and Systems Engineering was initially intended as a planned gift. After Madelaine's passing in 2019, Charles decided the time to invest is now.

\$2 million funds the Charles Jones Endowed Chair in Data Science and Analytics and \$2 million funds the Madelaine Pfau Chair in Systems Engineering Leadership.

I decided to make this gift now so I can see the impact it will have in the development of a world-class program in data science and analytics and in systems engineering. I look forward to seeing OU, the Gallogly College and the School of Industrial and Systems Engineering rise in national prominence as a premiere destination for students, researchers and faculty members.

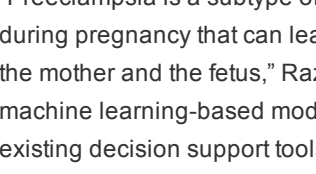
- Charles Jones ('69 ISE)

SBME's Wei Chen Professor Conducts Study to Develop Booster with Potential to Improve Eventual COVID-19 Vaccine



A study to determine the effectiveness of the drug IP-00 in producing immune responses as a booster for the eventual vaccine for COVID-19 is being conducted by researchers in the Biophotonics & ImmunoEngineering Laboratory, led by [Professor Wei R. Chen](#) in the Stephenson School of Biomedical Engineering at the University of Oklahoma. The OU researchers are collaborating with Immunophotonics, Inc., St. Louis, Missouri, on the study. [Read more.](#)

ISE's Talayeh Razzaghi Uses Artificial Intelligence to Predict Preeclampsia Risk

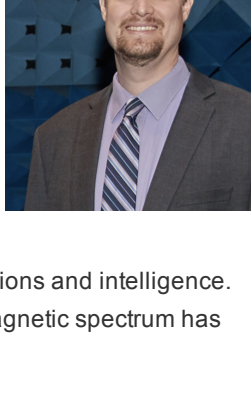


[Talayeh Razzaghi](#), an assistant professor in the School of Industrial and Systems Engineering, is leading a project using machine learning and artificial intelligence techniques to predict when pregnant women may have increased risk of preeclampsia.

"Preeclampsia is a subtype of hypertension (high blood pressure) developed during pregnancy that can lead to serious, even fatal, complications for both the mother and the fetus," Razzaghi said. "Our central hypothesis is that machine learning-based models can fundamentally transform clinicians' existing decision support tools for detection and monitoring preeclampsia for minority groups by addressing the key issues specific to preeclampsia datasets. [Read more.](#)

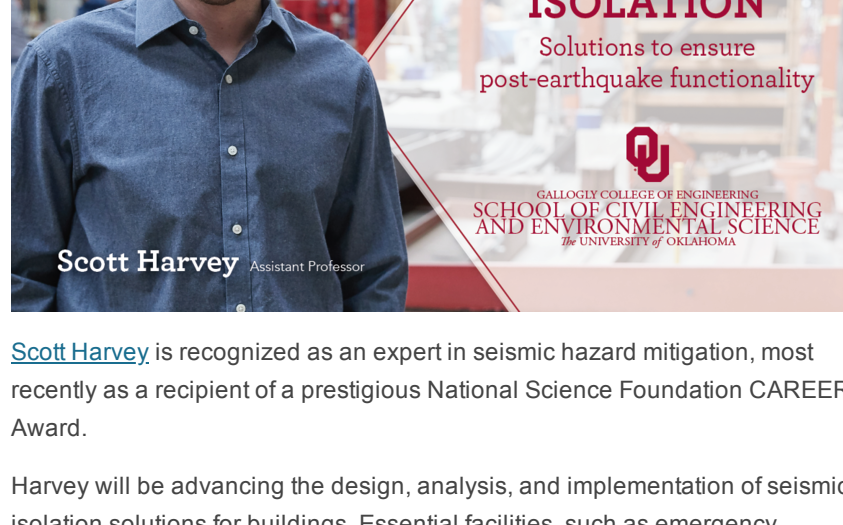
ECE's Justin Metcalf Receives Department of Defense Young Faculty Award

[Justin Metcalf](#), assistant professor in the School of Electrical and Computer Engineering in the Gallogly College of Engineering at the University of Oklahoma, has received a Young Faculty Award from the Defense Advanced Research Projects Agency.



In recent years, commercial and military demand for using the electromagnetic spectrum has exploded. Mobile devices, digital audio and streaming platforms compete with military needs for communications and intelligence. Metcalf's research project explores how the electromagnetic spectrum has become critically congested. [Read more.](#)

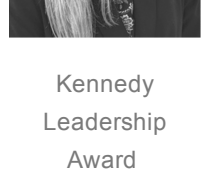
CEES' Scott Harvey Receives NSF CAREER Award for Efforts in 3D Seismic Isolation



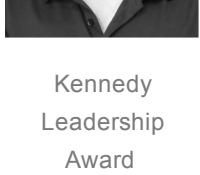
[Scott Harvey](#) is recognized as an expert in seismic hazard mitigation, most recently as a recipient of a prestigious National Science Foundation CAREER Award.

Harvey will be advancing the design, analysis, and implementation of seismic isolation solutions for buildings. Essential facilities, such as emergency response centers and hospitals, must remain operational during and after an earthquake for the public welfare and safety. The proposed isolation solutions will overcome existing limitations to ensure post-earthquake functionality of mission-critical equipment in essential facilities. [Read more.](#)

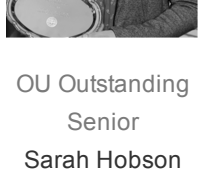
Seniors Recognized by OU and GCoE



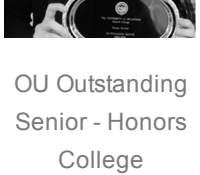
Kennedy Leadership Award
Catherine "Katie" Vopat Senior, SBME



Kennedy Leadership Award
Benjamin "Ben" Basden Senior, AME



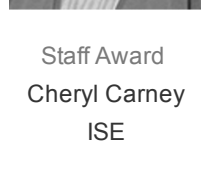
OU Outstanding Senior
Sarah Hobson Engr & Global Energy, Env & Resources Studies



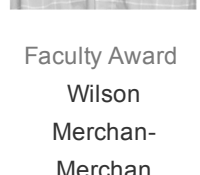
OU Outstanding Senior - Honors College
Emma Kuttler Senior, ISE

[Read more](#) about each of these senior award winners.

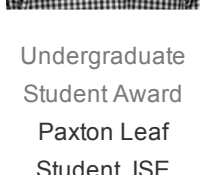
J.H. Felgar Society Pursuit of Excellence Awards



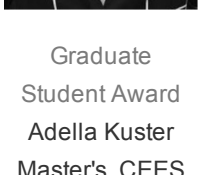
Staff Award
Cheryl Arney ISE



Faculty Award
Merchan Merchan AME



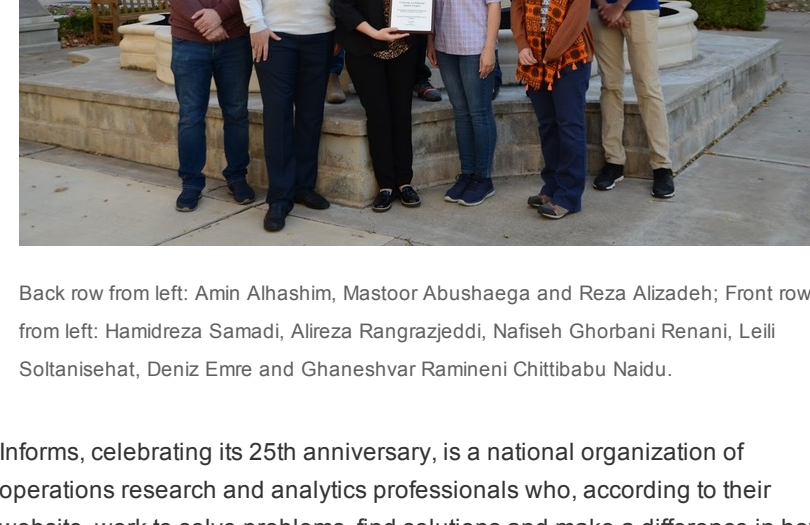
Undergraduate
Paxton Leaf Student, ISE



Graduate
Adella Kuster Master's, CEES

[Read more](#) about each of these J.H. Felgar Society Pursuit of Excellence award recipients.

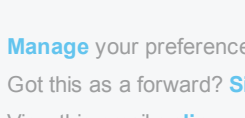
Graduate Student Chapter of Informs Recognized by National Organization



Back row from left: Amin Alhashim, Mastoor Abushaega and Ghora Alizadeh; Front row from left: Hamidreza Samadi, Alireza Rangrazjeddi, Nafiseh Rezobani Renani, Leili Soltanisehat, Deniz Emre and Ghaneshvar Ramineni Chittibabu Naidu.

Informs, celebrating its 25th anniversary, is a national organization of operations research and analytics professionals who, according to their website, work to solve problems, find solutions and make a difference in how the world works. The OU Informs student chapter, consisting of doctoral students in industrial and systems engineering, has been recognized and selected for its achievement and involvement at the Magna cum laude level.

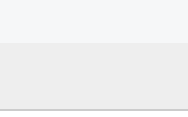
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