Mechanical Engineering

FROM THE CHAIR / Spring 2024

Dear friends and colleagues,

As we embrace the vibrant energy of spring, it is with great pleasure we share the latest news from the **Department of Mechanical Engineering** at Northwestern University. From multimillion-dollar research endeavors aimed at enhancing the accessibility and safety of power wheelchairs to groundbreaking work at the forefront of computational tribology, we remain committed to pioneering advancements with significant societal impact. We are especially proud to highlight the remarkable achievements of our students,

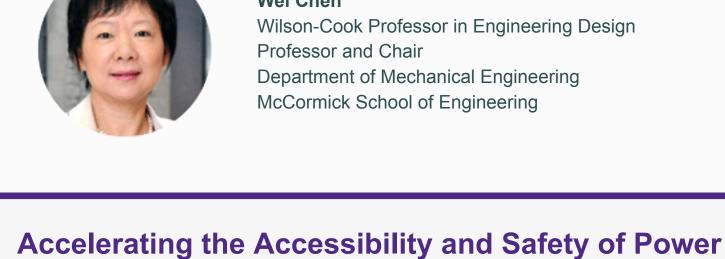
contributing to the historic first US moon mission in 50 years. These successes underscore the exceptional talent and ingenuity within our department. Furthermore, we celebrate the many prestigious honors and awards our faculty and students have received nationally and internationally for their technical excellence and

including triumphs such as winning the esteemed NASA BIG Idea Challenge and

leadership. Thank you for your continued support and partnership. Please take a moment to explore the exciting updates below.

Wei Chen

Professor and Chair



Wheelchairs

Department of Mechanical Engineering McCormick School of Engineering

Wilson-Cook Professor in Engineering Design



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Student Team Selected for NASA BIG Idea Challenge



Northwestern Robotics Team Demonstrates

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Mocobots to Tech Leaders

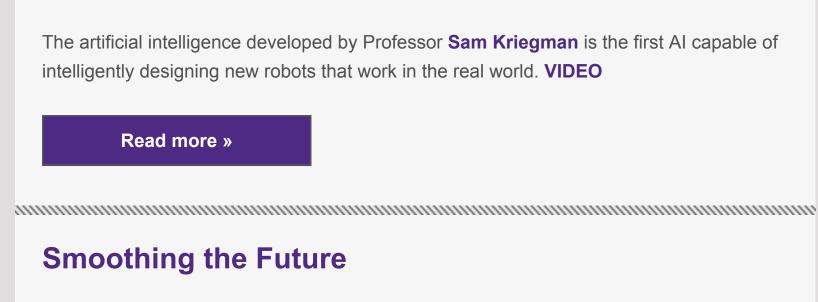
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Northwestern Student Makes History in Space



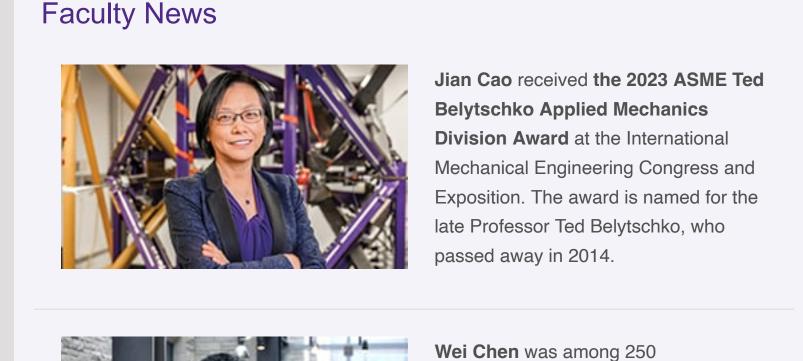
Instant Evolution: Al Designs New Robot from Scratch in Seconds



Working at the forefront of tribology, Professor Q. Jane Wang and her team continue to

advance next-generation technology. VIDEO

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Horacio Espinosa was selected to receive the P.S. Theocaris Medal from the Society for Experimental Mechanics.

Yonggang Huang was recognized by

the International Union of Theoretical

and Applied Mechanics with the Hill

will rename its Engineering Science

Prize. Also, beginning in 2024, the

Society of Engineering Science

Medal the Yonggang Huang

Engineering Science Medal,

recognizing a singularly important

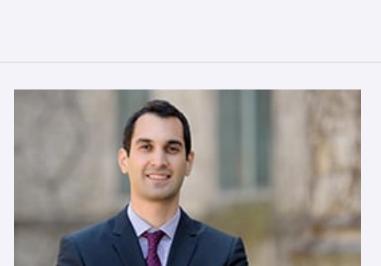
contribution to engineering science.

members elected to the American

Academy of Arts and Sciences in

2024, one of the nation's oldest and

most prestigious honorary societies.



Sinan Keten received the 2024 Gustus L. Larson Award from the American Society of Mechanical Engineers, which recognizes outstanding achievement in mechanical engineering within 10-20 years following graduation with a bachelor's degree in mechanical engineering or a related field.

Wing Kam Liu was named an inaugural

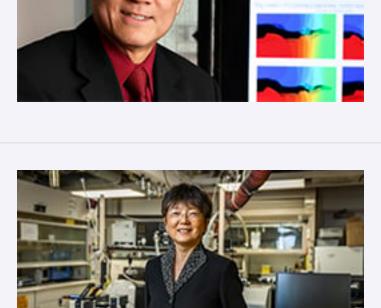
Highly Ranked Scholar by ScholarGPS,

percent of all scholars worldwide, No.

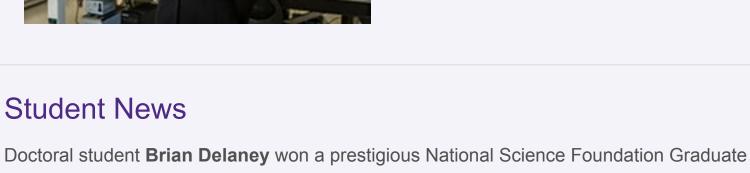
10 in Computational Mechanics and No.

which placed him in the top 0.05

21 in Numerical Method.



Q. Jane Wang won the 2024 ASME Mayo D. Hersey Award, which recognizes distinguished and continued contribution over a substantial period to the advancement of lubrication science and engineering.



Research Fellowship for his project, "Mechanics-based, Al-enabled Theorization Engine for Wear," under the guidance of Q. Jane Wang. Doctoral student Fiona Ann Neylon won a prestigious NSF Graduate Research Fellowship for her project, "Learning for a Customized Control," under the guidance of

Doctoral student **Tobias Marin** was awarded the Society of Tribologists and Lubrication Engineers Chicago section award. He is working with Q. Jane Wang and Jian Cao investigating the effect of texture on friction and wear in boundary lubrication conditions.

Doctoral students Leyun Feng, Vispi Karkaria, Satyajit Mojumder, and Sylvia Tan won the inaugural Graduate Mentorship Award for their exceptional commitment to excellence in mentorship.

among six Northwestern PhD students who were inducted to the Edward Alexander Bouchet Graduate Honor Society, which commemorates the first African American to earn a doctorate degree from an American university.

Doctoral student Sanjana Subramaniam, advised by Jian Cao and Kornel Ehmann, is

FACTS & FIGURES

Major centers, institutes, and

programs led by ME faculty

among mechanical and aerospace engineering programs

#6

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