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Northwestern | Mocormick School of ENGINEERING

Dear friends and colleagues,

The hot summer months have faded in memory and fall has arrived. Students and faculty have returned to Cook Hall. It is wonderful to experience the excitement and bustle of students, postdocs, and faculty running to and from classes, and engaging in discussions that make our research programs so strong.

There have been many exciting and impactful events since I last wrote. Sossina Haile is

leading a new Department of Energy Frontier Research Center that employs the unique ways that hydrogen influences the properties of materials. The center will focus on materials discovery and design to develop materials for carbon-neutral energy production and for electrochemical-based computing. After many postponements during the COVID-19 pandemic, the Northwestern-Tel Aviv University workshop took place in Tel Aviv this summer with a focus on advanced materials for future infrastructure. Many faculty from MSE participated and developed new or cemented deeper collaborations with colleagues at Tel Aviv University. To introduce high school students to the excitement of materials research, MSE graduate-students created and led the Northwestern University Research Program for High Schoolers, which engaged students from the Chicago Math and Science Academy this summer. It was a great success, and we are looking forward to another program this coming summer. More information on these and other highlights is below. Fall brings many transitions. Cécile Chazot, our new assistant professor, has arrived on

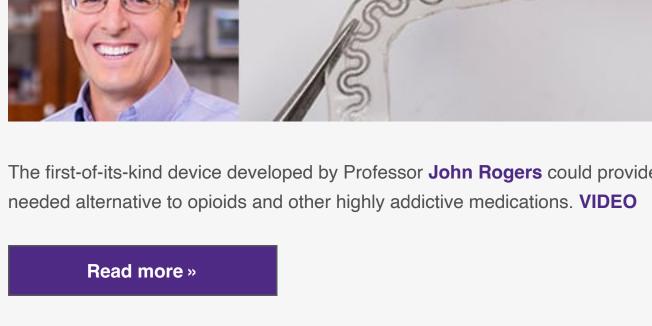
new MSE department business administrator, and wish long-time employees, Boe Welter and Alice Camacho, the best with their new positions at Northwestern. A new cadre of PhD and MS students have arrived on campus increasing our total graduate student enrollment to nearly 250 students. While there are many changes, one thing remains constant, our focus on interdisciplinary collaborative research at the forefront of materials science and engineering.

Please stay in touch and consider visiting if you should be in the Chicagoland area. I look forward to hearing from you.

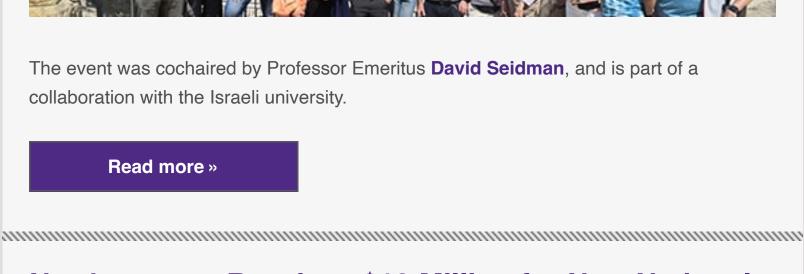
Peter W. Voorhees Frank C. Engelhart Professor and Chair



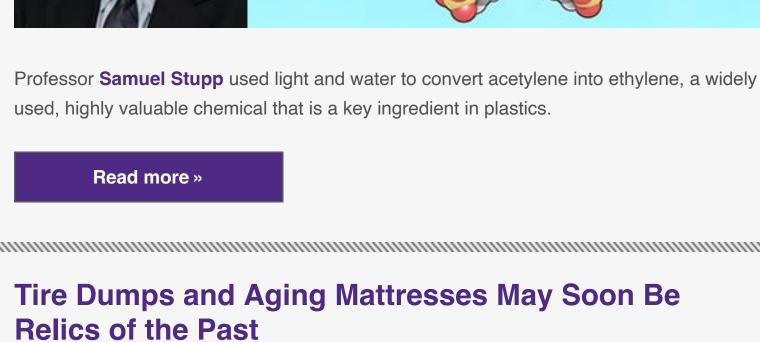
Dissolving Implantable Device Relieves Pain without



University







Professor John Torkelson used simple chemistry to address long-standing barriers

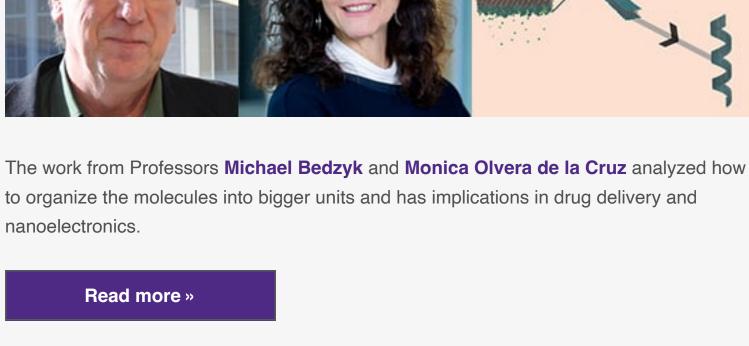
associated with recycling about a quarter of today's plastics. VIDEO





Solving the Puzzle of 2D Disorder

understanding and improving their performance. Read more »



Controlling the Shape of Chiral Molecules

Dunand Project Receives DOE Funding to Reduce Industrial Emissions

High schoolers Ahmed Abukar, Warda Aftab, and Andrew Green had the opportunity to

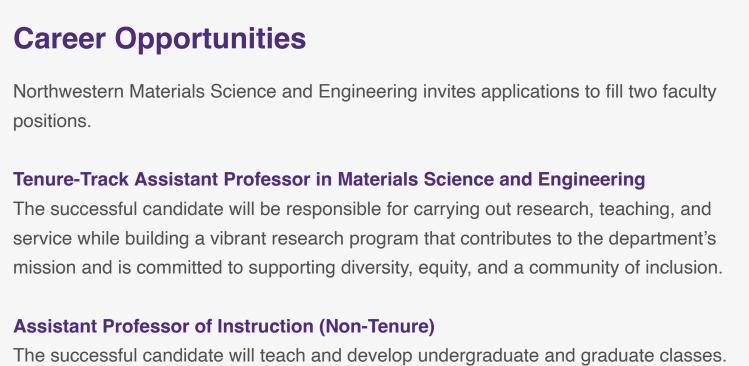
perform research in MSE laboratories and participate in materials science tutorials,

professional development, and college preparatory workshops.

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Advanced Manufacturing Office.

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Samuel Stupp was named the recipient of the 2022 Von Hippel Award by the Materials Research Society for pioneering contributions to the development and understanding of a broad range of molecularly designed supramolecular soft materials that function as bioactive scaffolds in regenerative medicine, matrices for photocatalytic activity, and

ALUMNI NEWS

the University of Florida.

stimuli-responsive robotic structures.

Phase Transformations in Materials."

the Rossin College of Engineering and Applied Science at Lehigh University. Chow was also recently promoted to associate professor. Jamie Heisserer ('03) is now deputy director, Division of Operating Reactor Licensing in Nuclear Reactor Regulation at the U.S. Nuclear Regulatory Commission.

Deep Jariwala (PhD '15), assistant professor in the Department of Electrical and Systems

Laura Mirkarimi (PhD '94) now vice president, 3D semiconductor portfolio and technology

of Adeia, appeared on the Times Square NASDAQ billboard as her spin-out company

Lesley Chow (PhD '09) received the Interdisciplinary Research Excellence Award from

Jennifer Andrew ('02) was promoted to professor of materials science and engineering at

Prize in Semiconductors from the International Union of Pure and Applied Physics. Along with colleagues at Penn, Jariwala also won the 2022 Nokia Bell Labs Prize. Boran Ma (PhD '20) will begin a new faculty position in the School of Polymer Science and Engineering at the University of Southern Mississippi in January.

Engineering at the University of Pennsylvania, was awarded the 2022 Young Scientist

Adeia rang the closing bell. Rick Schneider (PhD '89) is now senior director, Raxium Development at Google. In 2017, Schneider cofounded Raxium, which demonstrated monolithic integration of ultrabright, micron-scale InGaN RGB LEDs in dense arrays. The company was acquired by Google this year.

Grace Jinliu Wang (PhD '01) was appointed the 17th president of Worcester Polytechnic Institute, starting early in 2023. Wang is moving to WPI from her inaugural role as executive vice president for research, innovation, and knowledge at Ohio State University.

Chemical Student Award in Applied Polymer Science. **Donghoon Shin** was named teaching assistant of the year for 2021-22. Shin was nominated by both students and faculty for his contributions as a TA to both "Mat_Sci 331:

Soft Materials" and "Mat_Sci 332: Mechanical Behavior of Solids." Beata Szydlowska, an MSE postdoc (Hersam group) received the 2022 Benjamin Walter Fellowship from the German Science Foundation.

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Materials Science and Engineering

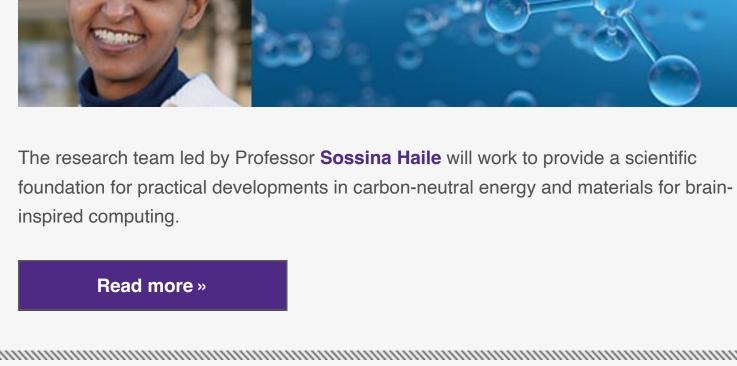
FROM THE CHAIR / Fall 2022

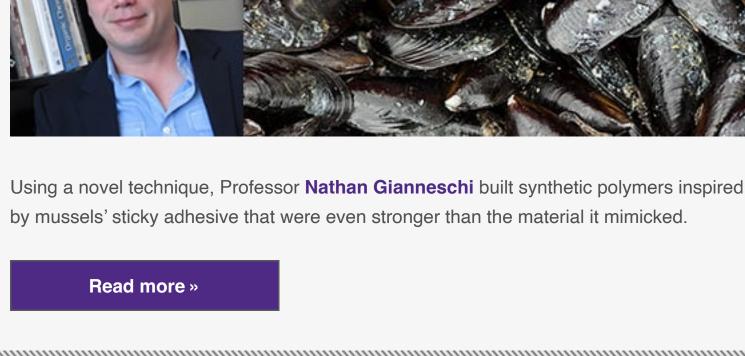
campus, and we have initiated two faculty searches, one for an assistant professor and the other for an assistant professor of instruction. We also welcomed Marilyn Hall as the

Department of Materials Science and Engineering McCormick School of Engineering



Northwestern Receives \$10 Million for New National Energy Research Center





Engineering. Read more »

Starting in January, Chazot will be the Julia Weertman Professor in Materials Science and

An interdisciplinary team including Professors Vinayak Dravid and Mark Hersam developed a new method to characterize disorder in 2D materials, which is crucial to

NURPH Shows High Schoolers Top-Level Science

The project led by Professor **David Dunand** is receiving \$500,000 from the DOE's

Responsibilities could also include mentoring and advising students, developing approaches to improve student learning and persistence, and performing other administrative duties as required. **FACULTY NEWS**

Yip-Wah Chung was voted Teacher of the Year in 2021-2022 for teaching "Mat_Sci 408:

Mercouri Kanatzidis was chosen Laureate of the Global Energy Prize 2022 for his work

on halide perovskite-based materials enabling a new generation of solar cells.

STUDENT NEWS **Mohammed A. Bin Rusayyis** (advised by John Torkelson) won the 2022 Eastman

FACTS & FIGURES

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Northwestern Department of Materials Science & Engineering