Northwestern | Mocormick School of ENGINEERING

Materials Science and Engineering

FROM THE CHAIR / Spring 2021

Dear friends and colleagues,

Spring has arrived in Evanston, and although we are all still abiding by rules that keep us masked and socially distanced, we are all welcoming the chance to spend a bit more time outdoors.

Although the pandemic has affected the way we do things, it has not hampered our progress in research or our efforts to stay connected and to provide a quality educational experience to all of our students. The articles in this issue highlight recent research accomplishments and also how our students have dealt with the pandemic.

and experiences. This year, the annual Hilliard Symposium keynote address will be given by Mariana Bertoni (PhD '07), and the event highlighting student research will also feature a DEI workshop and a talk on diversity, equity, and inclusion delivered by Michael J. Rawlings (PhD '15). In faculty news, Steve Carr retired in January and transitioned to professor emeritus. An interview below highlights just a few of Steve's many accomplishments. Congratulations

Along with being mindful of the challenges we face, we embrace our diverse backgrounds

also to all faculty and students who have recently received honors and awards. I hope you are staying healthy and safe, and I am hopeful for the prospect of seeing each other in person again soon.

Erik Luijten

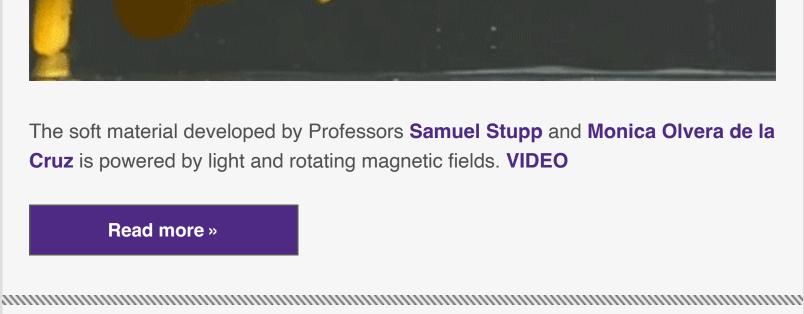
McCormick School of Engineering

Professor and Chair

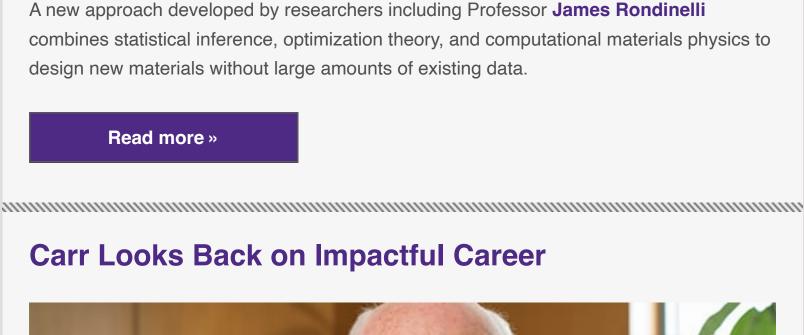


Aquatic Robot Inspired by Sea Creatures Walks,

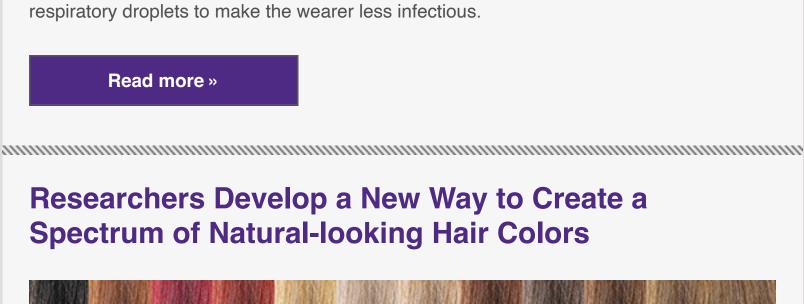
Department of Materials Science and Engineering



Optimizing the Design of New Materials

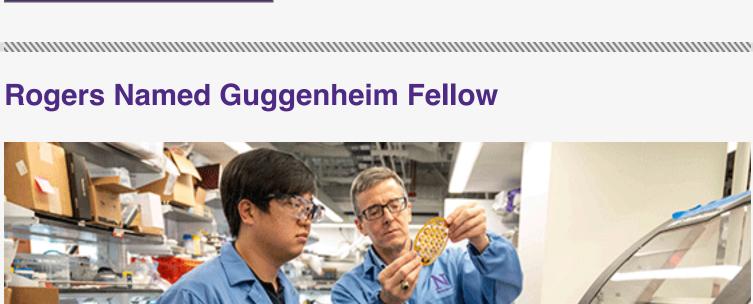


Face Mask Aims to Deactivate Virus



Professor Jiaxing Huang developed a mask with an anti-viral layer that attacks

Created by Professor **Nathan Gianneschi**, the dyes use synthetic melanin to mimic natural hair pigmentation.

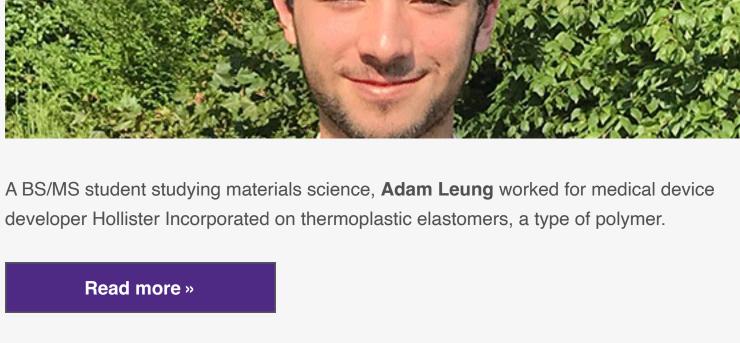


each other deal with serious home remodeling issues while juggling research and the pandemic.

Luijten Part of Group Tackling Plastic Waste with

PhD students and neighbors - Lauren Lopez and Maryam Kazemzadeh-Atoufi helped

Leung Named Co-op Student of the Year



Read more » Wearable COVID-19 Sensor Invented by John Rogers **Receives Major Award from US Department of**

Huang among Northwestern Engineering Professors

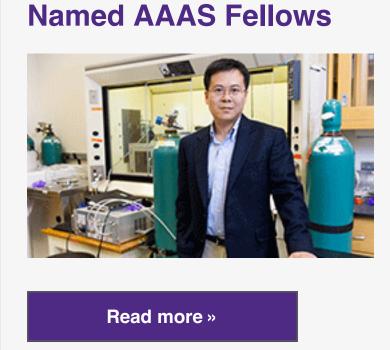
The symposium will feature presentations highlighting our students' original research.

Mariana Bertoni (PhD '07) will deliver the keynote address, and the event also feature a

workshop and talk on diversity, equity, and inclusion by Michael J. Rawlings (PhD '15).

David Dunand, David Seidman, and post-docs Anthony DeLuca and Shipeng Shu

Friends and alumni of the department are welcome, and attendance is free.



Read more »

Seven Faculty Members Named Among Global 'Highly Cited Researchers' The annual list identifies researchers who demonstrated significant influence through the publication of multiple highly cited papers during the last decade.

If you have any questions or want to register, please contact program assistant Kristina Lugo.

Graduate School at Northwestern.

Opportunity.

FACULTY NEWS

ALUMNI AND STUDENT NEWS received 2021 National Science Foundation graduate research fellowships.

were awarded the TMS Light Metals Subject Award - Aluminum Alloys.

National Science Foundation graduate research fellowships. Graduate student Thomas Song (Hersam) and senior Naomi Pieczulewski (Snyder) were recognized with honorable mentions. James Male (Snyder) received the NASA Space Technology Graduate Research

Lele Mathis (Odom) and Jose Martinez ('18) were awarded a National Defense Science

and Engineering graduate fellowship. Graduate students Roger Reinertsen (Bedzyk), Donghoon Shin (Mirkin), Ramya Gurunathan (Snyder), Emily Greenstein (Poeppelmeier, L. Marks), Christopher Sharpe

Jin Suntivich ('06) was promoted to associate professor with tenure in the Department of Materials Science and Engineering at Cornell University. Maria Vratsanos was awarded a Dr. John N. Nicholson Fellowship, which provides financial support for outstanding Northwestern graduate students enrolled in PhD

Zhehao Zhu (Lauhon) received the Best Poster or Talk award for at the 2020 MRS Fall Symposium for Symposium EL04: Beyond Graphene 2D Materials—Synthesis, Properties and Device Applications.

Clarivate Analytics

Highly cited researchers by

Affiliated research centers

and institutes



Stephen Carr, who became a professor emeritus in January, impacted the McCormick

community through both his research and his time as senior associate dean for



One of four Northwestern faculty members to earn the prestigious honor in 2021,

Professor John Rogers will use the fellowship to continue developing wireless,

bioresorbable stimulators as bioelectronic medicine.

McCormick Where We Are

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Defense

\$12.8 Million Award from Department of Energy

An interdisciplinary team of researchers

new methods of plastic upcycling.

including Professor Erik Luijten is exploring

A Northwestern spinout commercializing the

\$2.4 million grant from the US Department of

sensor has received a highly competitive

Defense through a Medical Technology

Enterprise Consortium award

The American Association for the

science and its applications.

Advancement of Science recognizes faculty

who have made significant contributions to

Read more »

EVENT: 38th Annual Hilliard Symposium

Thursday, May 20, 8:20 a.m-4 p.m., CDT

Eric Anderson ('18), Evan Guo ('19), Yakira Mirabito ('18), and Joshua Roan ('20) Songting Cai (Kanatzidis, Dravid) received the Johannes and Julia Randall Weertman Graduate Fellowship. Jingshan Du (Dravid, Mirkin) was awarded an SPIE Optics and Photonics Education

Scholarship and the Materials Research Society Graduate Student Silver Award.

Carolyn Duran (PhD '98) was appointed an adjunct member of the MSE faculty.

Hareland (Voorhees), Justin Qian (Hersam), Alessandro Benadia (Wessels,

Haiyue Huang (Huang), Young-Ah (Lucy) Lee (Odom), Chamille Lescott (Dravid),

Kanatzidis), and John Hegarty (Dravid) were awarded Ryan Fellowships from The

PhD students Jaron Ma (Joester) and Corey Thomas West (Hersam) were awarded

Kelly Parker (Dravid), Adam Ladd (Gianneschi), Thomas Song (Hersam), Christopher

(Gianneschi), Louis Wang (Haile), Haiyue Huang (Huang), and Garrett Watson (Luijten) were awarded PPG Fellowships for professional development. Stephanie Ribet (Dravid) was awarded the Raleigh and Clara Miller Scholarship Award from the Microscopy Society of America.

programs in the sciences, engineering, and management. **Grace Wang** (PhD '01) was appointed to serve as the executive vice president for research, innovation, and knowledge enterprise at Ohio State University.

FACTS & FIGURES 13 20+

in

National Academy

memberships

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