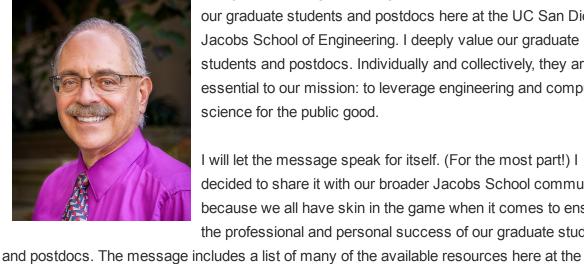


## Our grad students and postdocs



Jacobs School and across campus.

our graduate students and postdocs here at the UC San Diego Jacobs School of Engineering. I deeply value our graduate students and postdocs. Individually and collectively, they are essential to our mission: to leverage engineering and computer science for the public good. I will let the message speak for itself. (For the most part!) I

Today I am sharing a message that I sent earlier this week to all

decided to share it with our broader Jacobs School community because we all have skin in the game when it comes to ensuring the professional and personal success of our graduate students

through technical innovation. Graduate students and postdocs are, of course, critical to these ecosystems. Our work to build and strengthen these ecosystems is never done. As I wrote last month, we are

Directly or indirectly, everything that we do here at the Jacobs School supports our efforts to

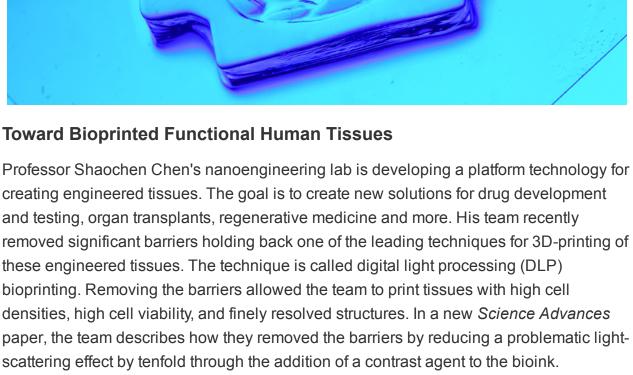
create and maintain intellectual, academic and physical ecosystems that drive real-world impact

a world-class engineering school that celebrates what we value. To truly celebrate our graduate students and postdocs, we must work together to co-create the intellectual, academic and physical ecosystems that fully empower our entire community. This is how we train and inspire tomorrow's innovation workforce.

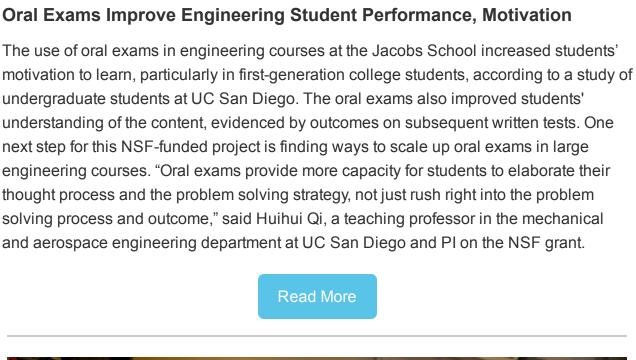
look forward to engaging with an ever wider circle in our community. Together we leverage engineering and computer science for the public good. This is, indeed, how we make bold possible. As always, I can be reached at DeanPisano@eng.ucsd.edu.

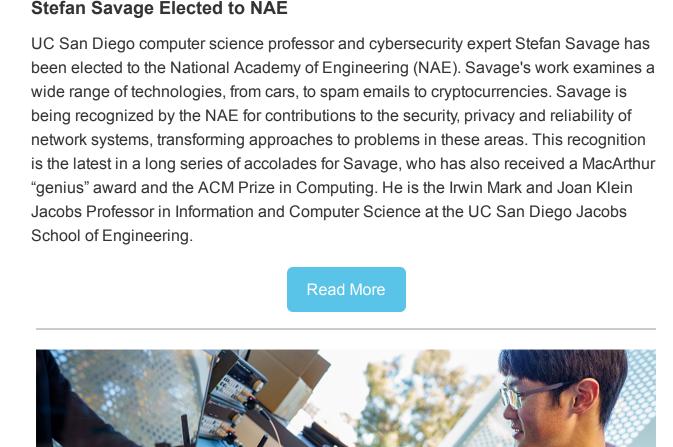
I am profoundly grateful to everyone who has stepped up to support our mission over the years. I

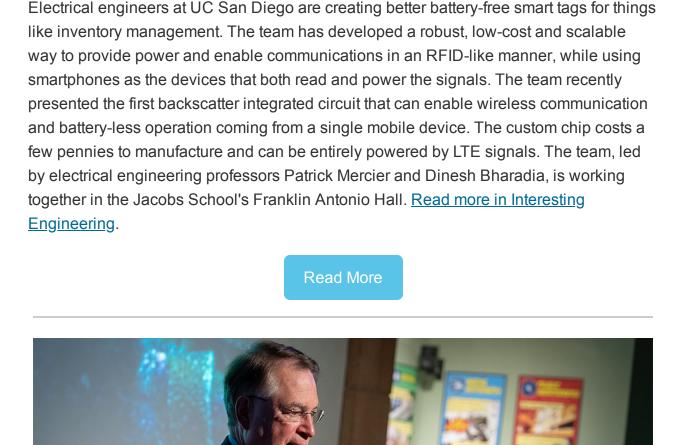
Sincerely, Αl Albert ("Al") P. Pisano, Dean UC San Diego Jacobs School of Engineering

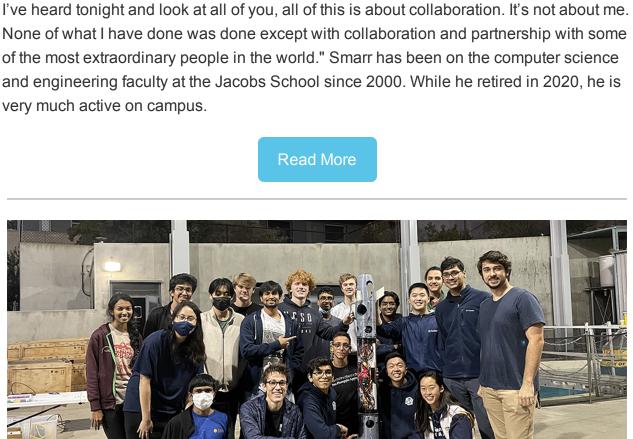


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the program. The NRP facilitates high-speed data access for science and computation,

conference event held in his honor, Smarr said, "As I think about all the wonderful things

made possible through partnerships connecting more than 50 institutions. At a

**Two Engineers Named Sloan Fellows** 

Oceanography at UC San Diego who mentors the team.

Fast-charging lithium-metal batteries By growing uniform lithium crystals on a surprising surface, UC San Diego engineers have opened a new door to fast-charging lithium-metal batteries. In a *Nature Energy* paper, the Jacobs School nanoengineers report progress toward lithium-metal batteries that charge fast. To grow the lithium metal crystals, the researchers replaced the ubiquitous copper surfaces on the negative side (the anode) of lithium-metal batteries with a nanocomposite surface made of lithium fluoride (LiF) and iron (Fe). Using this lithiophobic surface for lithium deposition, lithium crystal seeds formed, and from these

seeds grew dense lithium layers – even at high charging rates. This work is tied to the

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**Oral Exams Improve Engineering Student Performance, Motivation** undergraduate students at UC San Diego. The oral exams also improved students' next step for this NSF-funded project is finding ways to scale up oral exams in large thought process and the problem solving strategy, not just rush right into the problem and aerospace engineering department at UC San Diego and PI on the NSF grant.



**Better Battery-free Smart Tags** 



**Undergrads Developing Low-cost Arctic Explorer** Jacobs School of Engineering undergraduates are developing a low-cost autonomous underwater vehicle that could soon help UC San Diego ocean researchers monitor

glaciers melting in the Arctic. The team, called Yonder Deep, is one of the student

organizations working in the Qualcomm Student Space in Franklin Antonio Hall here at the Jacobs School. "The Yonder Deep team is pushing the frontier of low-cost, high-value

marine platforms for research in high-risk polar regions. This kind of work is critical to understanding sea level rise and developing systems for monitoring the Greenland ice sheet," said Grant Deane, a researcher in the Marine Physical Lab at Scripps Institution of

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Nanoengineering professor Tod Pascal and bioengineering professor Lingvan Shi are

Research Fellows, a prestigious award for early-career scientists of outstanding promise. Pascal exploits quantum effects at the nanoscale to both create new materials from the atomic level up, and to modify existing materials to give them more desirable properties. Shi is pushing the boundaries of what's possible when it comes to using targeted light to

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among the four UC San Diego professors to be selected as 2023 Alfred P. Sloan

look inside living cells with high resolution both in terms of space and time.

# UC San Diego Join us for Research Expo on April 26 Looking to recruit top tech talent? Want to see the latest technologies in development, and talk with the graduate students and faculty bringing them to fruition? Join us on Thursday, April 26 for our 41st annual Jacobs School of Engineering Research Expo, to connect with students, faculty,

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alumni and industry partners of the #10 engineering school in the nation. Research Expo will be free of charge this year.

Jacobs School's Sustainable Power and Energy Center.

Newsletter editor, Daniel Kane: dbkane@ucsd.edu

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