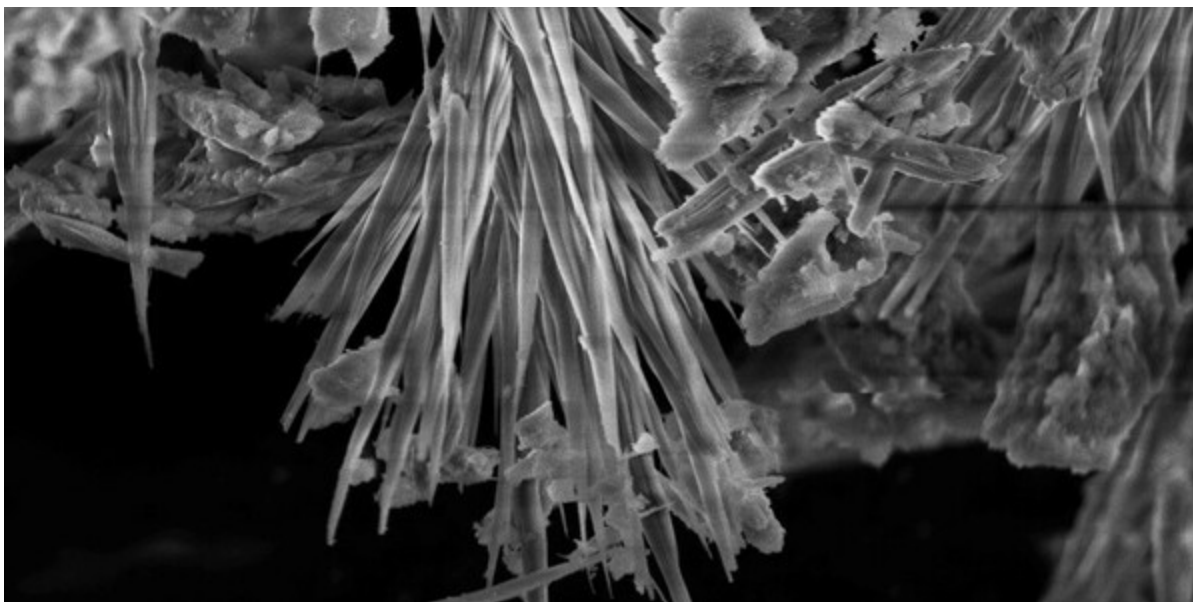


Division of Mathematical and Physical Sciences Spring 2023



These nanocrystal spikes, formed from nickel and iron, can convert water into oxygen and hydrogen. Rutgers chemist Kate Waldie is studying these and other new materials to improve the efficiency of producing hydrogen fuel using renewable energy.

Dean's Address:

Happy New Year!

I hope everyone had a good holiday season and is refreshed for the new semester. As you will see in this newsletter, we have a variety of MPS accomplishments and exciting faculty and student news to share. As an overview, we welcomed seven new faculty to the division, an alumni received a prestigious award, a graduate student was selected for a highly competitive fellowship, and our faculty launched a training program to provide students with real-life opportunities to combat climate change. We look forward to continuing to share new and exciting divisional news with you this spring. My best wishes for the spring semester (and beyond).

Thu D. Nguyen



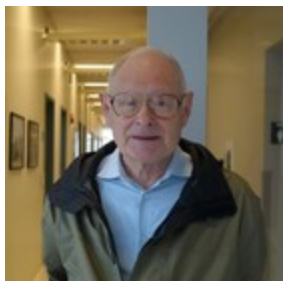
Departmental Highlights



Chemistry and Chemical Biology

Sagar Khare received a \$1.5 million grant from NSF to develop technology to modify or edit protein molecules in the body—an advance that could spur major breakthroughs in human health.

[Read more](#)



Computer Science

Casimir Kulikowski received the Distinguished Fellowship Award from the American College of Medical Informatics (ACMI). Recipients of this award have made significant and sustained contributions to ACMI and bioinformatics.

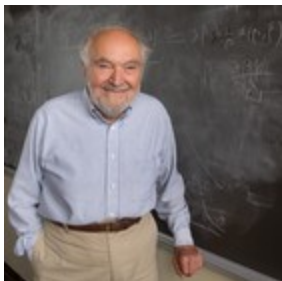
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Earth and Planetary Sciences

A training program founded by Bob Kopp and Rutgers colleagues equips graduate students with the skills to solve real-world climate change problems.

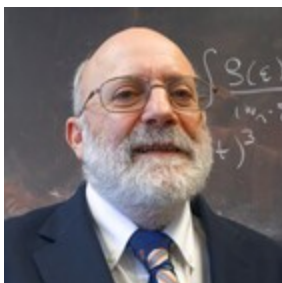
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Mathematics

Joel Lebowitz was awarded the 2022 Dirac Medal, one of the top honors in mathematical physics, for his “groundbreaking and mathematically rigorous contributions to the understanding of the statistical mechanics of classical and quantum physical systems.”

[Read more](#)



Physics and Astronomy

Gabriel Kotliar was awarded the 2022 Eugene Feenberg Memorial Medal for his collaborative work on the Dynamical Mean Field Theory (DMFT). The Feenberg medal is extremely prestigious, having been awarded only 18 times since 1985.

[Read More](#)



Statistics

Statistician Rong Chen discusses strategies and the odds of winning the lottery.

[Read more](#)

Departmental Highlights

Chemistry and Chemical Biology

Richard Remsing received the OpenEye Outstanding Junior Faculty Award from the American Chemical Society (ACS) Division of Computers in Chemistry. This competitive award identifies junior stars in the area of computational chemistry and modeling.

[Read more](#)

Computer Science

Computer Science seniors, Arpan Gupta and Michael Schleppy, won the Association for Computing Machinery (ACM) Student Research Competition (SRC) undergraduate division at Parallel Architectures and Compilation Techniques (PACT) 2022. They presented their work on understanding correlated error events in quantum computers.

[Read more](#)

Earth and Planetary Sciences

A co-investigator on several NASA missions, Lujendra Ohja's cutting-edge research on Mars focuses on the evolution of terrestrial planets, including thousands of potential Earth-like exoplanets.

[Read more](#)

Mathematics Natasa Sesum is the co-recipient of the 2023 Ruth Lyttle Satter Prize for groundbreaking work in the study of ancient solutions to geometric evolution equations.

[Read more](#)

Physics and Astronomy

Graduate student Diane Salim was awarded the Quad Fellowship. She is one of 100 gifted STEM students from Japan, Australia, India, and the U.S. to receive this honor. The Quad Fellowship is designed to build ties among the next generation of scientists and technologists.

[Read more](#)



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