


NEWS & ANNOUNCEMENTS



MIT announces new Center for Sustainability Science and Strategy

Past J-WAFS PI Noelle Selin will be faculty director and J-WAFS researcher Adam Schlosser will be deputy director.

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MIT researchers create novel water filter


J-WAFS PI Benedetto Marelli, postdoc Yilin Zhang, and others developed a thin membrane from cellulose and silk to remove chemicals like PFAS from water.

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J-WAFS spinout AgZen profiled in Forbes

Founded by Prof. Kripa Varanasi and Vishnu Jayaprakash SM '19, PhD '22, AgZen's precision agriculture system lets farmers fine-tune application of sprays on crops.

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J-WAFS announces RFP for India Grant

Open to MIT faculty, research staff, and students with research on water or food challenges in India. Due Oct 31!

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Community Jameel pilots new water filtration device


Shinshu University and Community Jameel developed a water filter prototype that aims to reduce water-borne diseases and other drinking water risks in rural India.

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Past J-WAFS fellow interviewed in The Boston Globe

Peter Godart developed a method to produce aluminum-generated hydrogen and leads Found Energy, which explores applications of this clean energy technology.

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J-WAFS brooder project continues with D-Lab

MIT D-Lab is working with Cameroonian poultry farmers to keep newborn chicks warm with thermal batteries made out of local beeswax instead of open fire.

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AWARDS & RECOGNITIONS

Carlos Portela honored by U.S. Army

The J-WAFS PI received the Army Early Career Program Award for his work to understand the mechanics of granular metamaterials with tunable mechanical properties.

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J-WAFS Solutions team awarded grant

Prof. Pat Doyle and his team received a grant from the Massachusetts Clean Energy Center to further develop a pilot-scale, reusable water treatment system first supported by J-WAFS.

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Scott Odell promoted at MIT's ESI

The J-WAFS researcher will be the full-time program scientist for MIT's Mining and the Circular Economy program at the Environmental Solutions Initiative.

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J-WAFS student defends thesis

Congrats to Arjav Shah for successfully defending his MIT Chemical Engineering PhD thesis, titled "Metrology and Elastometry of Nanoscale Objects."

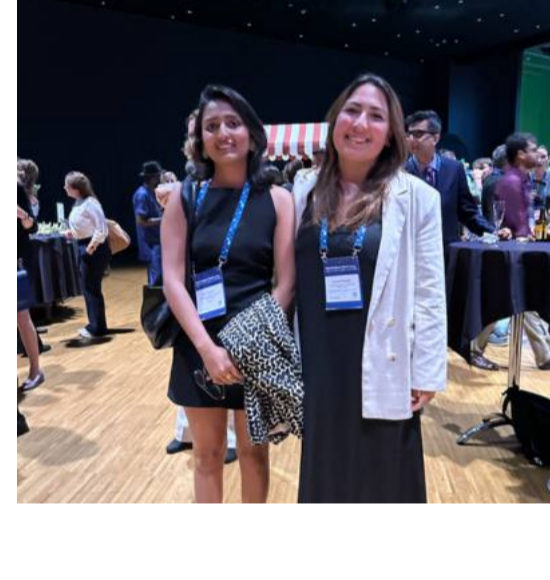
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IN-DEPTH LOOK

J-WAFS STUDENTS ATTEND STOCKHOLM WORLD WATER WEEK

MIT students gain valuable insights from Stockholm World Water Week

J-WAFS travel grants allow MIT graduate students to attend select international water conferences to further their professional development for careers in the water sector. This year, Shubhi Goyal and Daniela Morales, master's students from MIT's Department of Urban Studies and Planning, received J-WAFS travel grants to attend World Water Week in Stockholm, Sweden in August. The 2024 conference theme, "Bridging Borders: Water for a Peaceful and Sustainable Future," focused on the interconnections between regional and global water systems and highlighted the importance of collaborative efforts for securing a sustainable future.



Both grantees were able to participate in a series of workshops on topics like water quality, water management, and nature-based solutions for water security. Throughout the event, the students networked and made valuable connections with policymakers, engineers, and professionals in the water industry. They even had the opportunity to tour the facilities of Xylem Inc., a leading water technology company, J-WAFS Research Affiliate, and sponsor of the travel grants and Stockholm Junior Water Prize, which is part of World Water Week. Shubhi and Daniela visited the Xylem headquarters with J-WAFS executive director Renee J. Robins, who also attend the conference. At Xylem, they were able to meet Vikram Nanwani, Vice President of Product Management, and Roxana Marin-Simen de Redaelli, Vice President, Central and Northern Europe.

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EVENTS



MIT Global Summit on Mine Tailings Innovation

Thur, Sept 19 - Fri, Sept 20, 2024, All day, In-person and online

Hosted by MIT's Environmental Solutions Initiative, the conference will address the increasing challenge of mining waste, which can pollute water sources. The agenda includes talks from several J-WAFS community members. [MORE INFO](#)



Community Jameel and J-WAFS food and water discussion

Mon, September 23, 2024, Noon - 1:00 p.m. ET, In-person in NYC

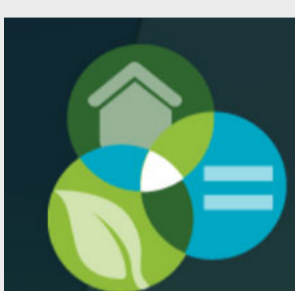
At this UN General Assembly side event, Greg Sixt, director of the J-WAFS-led FACT Alliance, will preview the Jameel Index for Food Trade and Vulnerability—a platform on climate change implications on international food trade. [MORE INFO](#)



Water and sanitation seminar by past J-WAFS visiting scholar

Mon, Oct 21, 12:30 - 1:30 p.m. BST (7:30 - 8:30 a.m. ET), Online


Prof. Dale Whittington of the University of North Carolina at Chapel Hill will lead a seminar on how cities enhance water and sanitation services and the challenges they face as they navigate changing climate conditions. [MORE INFO](#)



MIT 2024 Sustainability Conference

Tuesday, October 22, 2024, All day, In-person


Featured speakers include J-WAFS PIs Cem Tasan and Yogesh Surendranath, who will speak about engineering solutions for sustainable steel and decarbonizing chemical manufacturing, respectively. [MORE INFO](#)



2024 Norman E. Borlaug International Dialogue

Tues, Oct 29 - Thur, Oct 31, All day, In-person in Iowa and online

This World Food Prize Foundation event will feature a panel on food trade and security, featuring J-WAFS researcher Kenneth Strzepek and Greg Sixt, director of the J-WAFS-led FACT Alliance. [MORE INFO](#)



Webinars on climate change impacts to land, water, and food

Oct 31, Nov 21, and Dec 13, 2024, 9:00 - 10:00 a.m. ET, Online

J-WAFS' Greg Sixt is a featured speaker in these webinars co-hosted by the J-WAFS-led Food and Climate Systems Transformation (FACT) Alliance and the University of Natural Resources and Life Sciences, Vienna (BOKU). [MORE INFO](#)



Fall 2024 seminars with J-WAFS visiting scholars

October through November, dates and times TBD, In-person

This fall, J-WAFS will host three seminars on climate and agricultural adaptation and mitigation, given by J-WAFS visiting scholars Joanne Tingey-Holyoak, Chandra Madramootoo, and Neda Trifkovic. [MORE INFO](#)

IN CASE YOU MISSED IT

New paper on lithium recovery

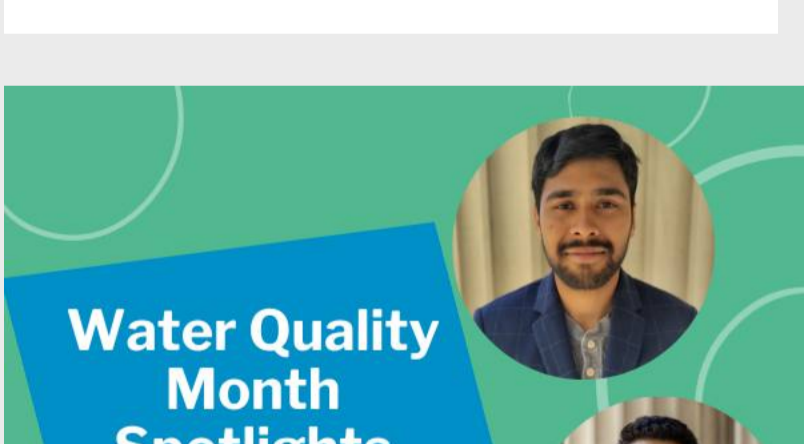
J-WAFS director John Lienhard and his team introduced a nanofiltration membrane to enhance lithium extraction from salt-lake brines and battery leachates.

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J-WAFS spinout noted in ASES article

The American Solar Energy Society highlighted NONA Technologies' solar-powered desalination system as a promising solution for water security in rural areas.

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Water Quality Month Spotlights

[WATCH NOW](#)

August Water Quality Month videos

J-WAFS fellows Akash Ball and Jon Bessette discuss water filtration and desalination, respectively.

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Amos Winter discusses love of tinkering

The past J-WAFS PI shares his love of fixing cars and says he has liked building things since he was a kid.

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INTERESTED IN SUPPORTING J-WAFS?

When you make a gift, you are making an investment in both the future of J-WAFS and our Institute-wide work to improve the productivity, accessibility, and sustainability of the world's water and food systems.

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FOR MORE INFORMATION ABOUT SPONSORSHIP OPPORTUNITIES, CONTACT:

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J-WAFS is an Institute-wide effort that brings MIT's unique strengths to bear on the many challenges our food and water systems face.

Our program catalyzes MIT research, innovation, and technology for ensuring safe and resilient supplies of water and food while reducing environmental impact, to meet the local and global needs of a rapidly expanding and evolving population on a changing planet.



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