



NEWS & ANNOUNCEMENTS



Forbes recognizes J-WAFS Fellow

Hilary Johnson was named to Forbes' "30 Under 30" list for her adaptive centrifugal pump that improves energy efficiency in key applications like wastewater transport.

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The Washington Post supports J-WAFS director's report

A Post editorial supports a report co-written by J-WAFS director, John Lienhard, on the future of the Diablo Canyon Nuclear Power Plant. The [LA Times](#) also supported the report and [CNBC](#) covered it. The report shows the plant could help produce other products like desalinated water.

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J-WAFS visiting scholar addresses Zimbabwe's climate change risks

Brent Boehlert co-authored "Potential Climate Change Risks to Meeting Zimbabwe's NDC Goals and How to Become Resilient," which uses Open-Source energy Modelling SYstem (OSeMOSYS) to consider two adaptation pathways for the impacts of climate change on hydropower.

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J-WAFS wishes you a happy New Year



If you'd like to give the gift of research this year, consider donating to J-WAFS to help us fulfill our mission to secure water & food for all!

[GIVE NOW](#)

MIT startup raises \$11M to help mitigate food waste

Spoiler Alert, a company which launched out of MIT in 2015, reroutes food that might have been wasted to the places that need it most.

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Rajeev Ram helps improve agricultural productivity

The J-WAFS PI helped develop a rapid Raman spectroscopy-based method to detect early bacterial infection in crops.

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Oyster bag flipping robot advances aquaculture

MIT researchers and students are developing a robot that can flip heavy oyster bags, reducing biofouling for greater food sustainability.

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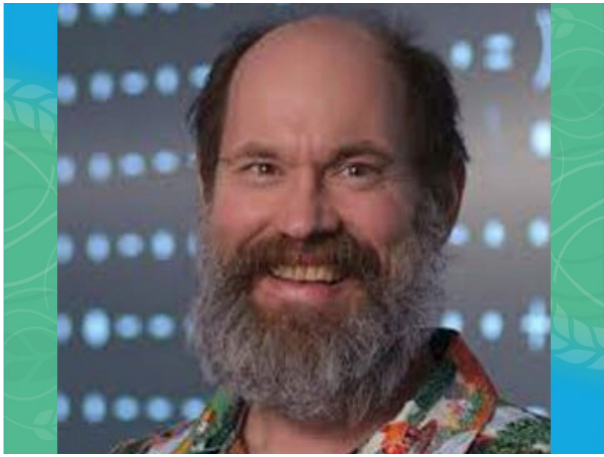
MIT alum's food tech company pivots during Covid-19

Christine Marcus made Forbes "Next 1000" list after she shifted the target market of her food tech business due to the devastating impact of Covid.

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J-WAFS PI named NAI Fellow

Alexander Slocum is a 2021 National Academy of Inventors Fellow for being an inventor who's made an impact on quality of life, the economy, & society.



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IN-DEPTH LOOK

J-WAFS AND MIT AT UN CLIMATE CONFERENCE

J-WAFS joins MIT delegation at UN Climate Change Conference

Last month about 20 faculty, staff, and students from MIT attended COP26, the United Nations climate change conference in Glasgow, Scotland. The MIT representatives observed the negotiations, shared and conducted research, and participated in panel discussions.



Included in the group were J-WAFS PI Elfatih Eltahir and J-WAFS research manager for climate and food systems, Greg Sixt. Both Eltahir and Sixt were featured in a panel where they presented initial key findings from research they respectively conducted for Community Jameel and one of its collaborators. Sixt also led another panel where he announced the launch of the J-WAFS led Food and Climate Systems Transformation (FACT) Alliance, an initiative to drive

research-based innovation in food systems.

Other MIT representation included Sergey Paltsev, deputy director of MIT's Joint Program on the Science and Policy of Global Change, who presented findings from the latest MIT Global Change Outlook and called on countries to do more to cut emissions.

Marcela Angel, a research associate from MIT's Environmental Solutions Initiative (ESI), moderated a panel discussion featuring John Fernández, professor of architecture and ESI's director. Fernández discussed the

importance of protecting and enhancing natural carbon sinks, particularly tropical forests such as the Amazon.

The Institute's delegation was led by Maria Zuber, MIT's vice president for research. "Glasgow showed, once again, what a wicked complex problem climate change is, technically, economically, and politically. But it also underscored the determination of a global community of people committed to addressing it," Zuber noted.

[READ MORE](#)

EVENTS

FOOD & WATER



Environment & Sustainability Minor Info Session (MIT ONLY)

Friday, December 10, 12:00 - 1:00 p.m. ET, In-person

Join the MIT Environmental Solutions Initiative for an info session about the MIT-wide undergraduate Environment & Sustainability Minor. [MORE INFO](#)



MIT Sandbox Info Session (MIT ONLY)

Friday, December 10, 12:00 - 1:00 p.m. ET, Online

MIT undergrad & grads who have ideas or product concepts (including those in water/food), can learn about this program, which funds entrepreneurs. [MORE INFO](#)



Discussion Panel: The Process of Engagement at COP26

Friday, December 10, 3:00 - 4:00 p.m. ET, Online

Join J-WAFS' Greg Sixt & others from MIT for lessons we can learn from COP26's process of engagement, sponsored by the Technology & Policy Program. [MORE INFO](#)

FUNDING

AND OTHER OPPORTUNITIES

MIT Water Innovation

Rabobank - MIT Food &

Prize

Deadline: January 14, 2022

Open to college & university student teams

Co-sponsored by J-WAFS, this startup competition focuses on water innovation and awards up to \$50K in grants to student-led teams from around the world.

[MORE INFO](#)

Agribusiness Innovation Prize

Deadline: January 16, 2022

Open to U.S. university & grad students

Supported by J-WAFS, this prize awards teams with new products or business models that can improve sustainability in the food system.

[MORE INFO](#)

MIT Energy Initiative Energy Research Seed Fund Program

Deadline: January 14, 2022

Open to MIT PIs

The program awards 6-7 grants of up to \$150,000 for exploratory proposals on energy topics and related environmental research.

[MORE INFO](#)

Project Technician

Deadline: Asap

Open to all

Takachar, co-founded by two-time J-WAFS-funded postdoc Kevin Kung, is helping to end the burning of agricultural waste. The project technician will be responsible for testing & demonstrating a new hardware prototype.

[MORE INFO](#)



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.

[DONATE ONLINE](#)

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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