NEWS & ANNOUNCEMENTS



I&E network at MIT advances J-WAFS projects

Securing humankind's vital resources

MIT's innovation and entrepreneurship ecosystem helps launch water and food startups with social and economic benefits. READ MORE

J-PAL research explores ways to help farmers

Improved agricultural technologies, financial services, and social assistance programs can enhance the resilience of small-scale farmers facing climate shocks.

READ MORE

Sloan alum pursues sustainable coffee pod

Neha Thatte Mallik, MBA '16 leads an initiative at Keurig Dr Pepper to develop a plastic-free coffee pod that enhances both sustainability and flavor of the coffee.

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desalination

J-WAFS Fellow improves Jon Bessette worked with J-WAFS PI

communities with safe drinking water. READ MORE

Amos Winter on a solar-powered desalination system that can provide

MIT ILP The Industrial Liaison Program spoke

J-WAFS PI interviewed by

with Sara Beery about how she uses machine learning and AI to improve ecosystems and biodiversity. LEARN MORE

MIT students present food and ag startups

MIT Climate Project hosts

kick-off event

At Demo Day, the capstone event for MIT delta v's student venture accelerator, innovations included ways to minimize restaurant waste and improve the agriculture industry.

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Several J-WAFS community members

have been named mission directors who will lead interdisciplinary teams to identify gaps in the global climate response that MIT can help fill.

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J-WAFS PI and MIT Pres. talk water and food

Benedetto Marelli discusses his research

on silk-based coatings used in agriculture and water filtration with Pres. Sally Kornbluth. LISTEN NOW

FUNDING

J-WAFS Seed Grant LOIs J-WAFS Grant for Water

AND OTHER OPPORTUNITIES

Open to: MIT faculty, research staff, students Deadline: October 31, 2024 Applicants may request up to \$15,000

and Food Projects in

India

in funding for projects that address a water or food-related challenge in India.

MORE INFO

MIT ESI Journalism

Open to: U.S. journalists

Deadline: October 14, 2024

Fellowship

security, safety, and sustainability for human need. Must submit a letter of interest, after which full proposals will be welcome by invitation based on

Grants for early-stage MIT research in

areas related to water and food

Open to: MIT Pls

Deadline: December 9, 2024

review of the LOIs. MORE INFO

Open to: Students over 18 Deadline: October 18, 2024

Hackathon

The MIT Environmental Solutions Journalism Fellowship supports journalists who cover how climate change impacts their local community and region, including impacts to water and food systems.

MORE INFO

Ideas workshop for MIT

MAD and HPI

Open to: MIT researchers

Deadline: October 20, 2024

Apply to present your research

November 15-17, where students will come to MIT for three days to hack solutions to problem including ones in

Apply to earn a spot at this event,

MIT Energy and Climate

renewable energy, transportation and mobility, and circularity. MORE INFO

Innovation Challenge Open to: MIT students

MIT's IDEAS Social

remotely at a workshop on Nov. 18-19 to identify project ideas for MIT Morningside Academy for Design and the Hasso Plattner Institute's "Designing for Sustainability" grant. MORE INFO

MIT's PKG Public Service Center invites MIT student-led teams to apply to this challenge to address social and environmental challenges, including

Deadline: November 25, 2024

systems. MORE INFO

those related to issues in water or food

NEWEA Annual

MIT Solve is supporting 5 consultations for the United Nations Environment Programme's Global Environmental

Notetakers & facilitators

for UN workshops

Open to: MIT community

Deadline: October 31, 2024

Data Strategy. Notetakers and facilitators will receive training. MORE INFO

the Whitehead Institute.

Conference and Exhibit

Deadline: December 6, 2024

Up to 12 companies will be selected to showcase their innovations at New **England Water Environment** Association's Water Innovation Day in Boston from January 26-29, 2025. MORE INFO

Open to: Emerging water businesses

IN-DEPTH LOOK COMMUNITY JAMEEL VISITS MIT AND MEETS WITH J-WAFS RESEARCHERS

Colleagues from Community Jameel take a lab

On September 26th, 2024, members of Community Jameel, including director George Richards, visited MIT campus and toured the lab of J-WAFS PI and Professor Mary Gehring of the Department of Biology and

tour and learn about J-WAFS projects

Gehring's lab is working on a J-WAFS Seed Grant project, titled "A new approach to enhance genetic



Robert Wilson, a research scientist in MIT's Department of Chemistry,

(EPiC)." Gehring is also a part of this project, which is led by Professor Matt Shoulders of the Department of Chemistry. The team aims to build a better, more efficient RuBisCO enzyme, which is responsible for fixing CO2 in plants during photosynthesis. Since RuBisCO is a very slow-acting

also took part by presenting his work on the 2023 J-WAFS Grand Challenge Grant project titled "Enhanced photosynthesis in crops

enzyme, the researchers are using molecular biology and machine learning to identify, predict, install, and screen improvements to RuBisCO's kinetic activity. READ MORE

World Food Day Wednesday, October 16, All-day, Online

EVENTS



Oct 16, Nov 7, & Nov 14, *Click below for updated times, In-person Chandra Madramootoo of McGill Univ, Joanne Tingey-Holyoak of the University of South Australia, and Neda Trifkovic of the University of Copenhagen present in this seminar series on climate and agricultural adaptation and mitigation. MORE INFO

2024 Norman E. Borlaug International Dialogue Tue, Oct 29 - Thur, Oct 31, All day, In-person in Iowa and online J-WAFS researcher Prof. Kenneth Strzepek will introduce the Jameel Index and Greg Sixt, director of the J-WAFS-led FACT Alliance will facilitate a panel further exploring the Index's value in building food trade resilience. MORE INFO

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

Attend three virtual seminars on how climate change impacts water and food security. Co-hosted by the J-WAFS-led FACT Alliance and the University of Natural

Oct 31, Nov 21, and Dec 12, 9:00 - 10:00 a.m. ET, Online

Resources and Life Sciences, Vienna (BOKU). MORE INFO

A day to commemorate the founding of the United Nations Food and Agriculture Organization in 1945. This year's theme explores foods for a better life and future.

Stay tuned for a special edition of the J-WAFS newsletter. MORE INFO

Fall 2024 seminars with J-WAFS visiting scholars



NORMAN E. BORLAUG INTERNATIONAL DIALOGI

MIT ILP webinar on decarbonization Thursday, November 7, 11:00 a.m. - 12:40 p.m. ET, Online J-WAFS PI Jennifer Morris will be one of two guest speakers at this MIT Industrial

discuss land-based carbon dioxide removal and emissions trading. MORE INFO

PUBLICATIONS

Liaison Program webinar on decarbonization strategies for corporations. Morris will



Study on regulation of MIT alum develops India's rice exports irrigation tools

resource-constrained farmers. READ MORE

on microbiome determinants of productivity for whiteleg shrimp—one of the most predominant animal species in global aquaculture. READ MORE

J-WAFS researchers Ken Strzepek, Greg

simulation model to analyze bilateral

trade welfare impacts of India's export

J-WAFS PI studies shrimp

Otto Cordero's preprint paper focuses

Sixt, and others used the global

ban of non-basmati rice.

READ MORE

aquaculture

AWARDS & RECOGNITIONS

J-WAFS participates in

Renee Robins, J-WAFS executive

Climate Week

Mrin

Penumaka

2024

J-WAFS

Travel

Grantee

J-WAFS students discuss U.S. wastewater Arjav Shah and Devashish Gokhale say current micropollutant treatments are

project that aims to develop

fish vaccine delivery.

LEARN MORE

technologies and policies.

READ MORE

inadequate in this MIT Science Policy

Review article on industrial wastewater

Georgia Van de Zande, a former

that brings water efficiency to

student in the J-WAFS community,

developed a precision irrigation tool

MIT postdoc awarded **USDA** fellowship

director, and Greg Sixt, director of the J-WAFS-led Food and Climate Systems Transformation (FACT) Alliance, spoke at side-events outside of the 79th Session of the UN General Assembly and Climate Week in New York City this September. LEARN MORE

Meng Li, a postdoc in the lab of J-WAFS PI Benedetto Marelli, received a fellowship from the USDA's National Institute of Food and Agriculture to further work on a J-WAFS Seed Grant

Mrin Penumaka receives J-WAFS travel grant The PhD student in Urban Studies and Planning will attend the UNC Water and Health Conference to inform her work on

South Africa's water & energy needs.

J-WAFS team wins big at

microneedle technology for underwater

Pat Doyle's J-WAFS-funded hydrogel system for water and food purification won two awards in the Northeast Regional Finals.

LEARN MORE

Cleantech Open

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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

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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.



local and global needs of a rapidly expanding and evolving population on a changing planet.

Our program catalyzes MIT research,

Cambridge, MA 02139 E: <u>jwafs@mit.edu</u> P: (617) 715-4222 W: <u>jwafs.mit.edu</u> Forward to Friend

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