J-WAFS PIs lead Water Affordability Workshop

Researchers, community advocates, utilities, and federal officials discussed U.S. water equity & affordability.

J-WAFS spinout reduces smoke emissions from agri-waste

Kevin Kung co-founded Takachar with Vidyut Mohan to reduce smoke emissions from crop burning & incentivize farmers to sell agri-waste.

Fady Jameel says J-WAFS is advancing the food of the future

The deputy president and vice chairman of Abdul Latif Jameel highlights how J-WAFS technology and research transform food systems.

MIT D-Lab students test food preservation methods in Africa

Ava Dijstelbloem ‘25 and Christine Tang ‘25 researched evaporative cooling in

Kripa Varanasi develops water purification system

The J-WAFS PI and his group developed a water purification system which could reduce power plant water loss by
J-WAFS spinout reveals new food safety tech

Xibus Systems, founded by Tim Swager, created a system to quickly detect disease-causing bacteria in food.

Recent research explores food trade and income earnings

Using Ecuador as a case study, J-WAFS PI Dave Donaldson & others found that exports of products like fruit & seafood increase inequality.

MIT spinout creates technology for livestock feed

Fyto was launched to automate the production of aquatic “superplants” that can be fed to livestock to help farmers reduce water usage.

J-WAFS PI helps advance agriculture industry

Benedetto Marelli and other MIT researchers discovered that silk can be used as a biodegradable substitute for the microplastics added to agricultural chemicals.

MIT researchers use beer yeast to remove lead from water

The study shows that yeast, an abundant waste product from breweries, can filter out even trace amounts of lead from water.

MIT alum improves food challenges for farmers

J-WAFS PI featured in New York Times
A new research project, supported by Community Jameel, will study the implications of climate change on food security as they relate to trade

Global changes spurred by social and economic transitions, energy and environmental policy, regional geopolitics, conflict, and of course climate change, can impact food demand and supply. Despite the crucial need for more secure food systems, significant knowledge gaps exist when it comes to understanding how different climate scenarios may affect both agricultural productivity and global food supply chains and security.

To better understand and analyze food security, a new three-year research project will develop a comprehensive index assessing countries’ food security vulnerability, called the Jameel Index for Food Trade and Vulnerability. The index will measure countries’ dependence on global food trade and imports and how regional-scale threats like climate change might affect the ability to trade food goods across diverse geographic regions.
J-WAFS director, John H. Lienhard, was awarded the 2021 Donald Q. Kern Award from the American Society of Mechanical Engineers and the American Institute of Chemical Engineers. MORE INFO

J-WAFS PIs Saurabh Amin, Dan Frey, Ariel Furst, and Larry Susskind were honored at MIT’s 2022 Awards Convocation. MORE INFO

Mathias Kolle, a J-WAFS PI from MechE, recently received tenure at MIT. MORE INFO

J-WAFS PI Colette Heald received the Capers and Marion McDonald Award for Excellence in Mentoring and Advising. MORE INFO

J-WAFS PI Gang Chen received a 2022 Bose grant for ambitious ideas. MORE INFO

MIT students Jonathan Bessette, Chun Man Chow, Aditya Ghodgaonkar, and Gokul Sampath received 2022 J-WAFS Travel Grants for Water Conferences to attend Stockholm World Water Week. MORE INFO

Eric Verploegen and Daniel Sweeney received a 2022 J-WAFS Grant for Transforming Animal Agriculture to design an off-grid chicken brooder. MORE INFO

J-WAFS Fellow Danyal Rehman was named a 2022-23 Martin Fellow. MORE INFO

Josie Tracy began a six-month long co-op position as the communications and project assistant for J-WAFS. MORE INFO
Nucleate Summit 2022
*Monday-Tuesday, August 29-30, 2022, All day, In-person*

The inaugural summit will empower & educate the next generation of biotech leaders, including those innovating in food & agriculture. [MORE INFO]

J-WAFS Water Quality Month Twitter Chat
*Wednesday, August 31, 10:00 - 11:00 a.m. ET, Online*

The Twitter chat will engage our audience on the importance of clean drinking water for all, and discuss research to solve global water quality issues. [MORE INFO]

MIT Conference on Mining, Environment and Society
*Wed-Fri, September 7-9, 2022, 10:00 a.m. - 1:30 p.m. ET, Online*

The MIT Environmental Solutions Initiative event will feature Scott Odell, whose J-WAFS project explores glaciers, agriculture, and mining in Chile. [MORE INFO]

MIT Sustainability Conference: Technologies and Industry
*Tuesday-Wednesday, September 20-21, 2022, In-person*

J-WAFS research will be featured at this Industrial Liaison Program conference exploring new sustainable advances in the corporate world. [MORE INFO]

IDA 2022 World Congress
*Sunday-Thursday, October 9-13, 2022, All day, In-person*

J-WAFS director John Lienhard will begin his term on the 2022-24 International Desalination Association Board of Directors at this event for the desalination and water reuse industry. [MORE INFO]

MCSC Annual Symposium
*Tuesday, October 18, 2022, 9:00 a.m. - 6:00 p.m. ET, In-person*

The MIT Climate & Sustainability Consortium will host panels of key academic and industry experts who'll discuss the topics of climate & sustainability. [MORE INFO]
explores water and sanitation

The J-WAFS PI studies challenges to international development and urban planning in infrastructure projects in Maputo, Mozambique.

MORE INFO

applications in water treatment

Patrick Doyle, a J-WAFS PI, & his team published a paper on an immobilized micelle system that could be used for pollutant extraction from water.

MORE INFO

J-WAFS research scientist responds to GERD paper

Kenneth Strzepek & others offer a rebuttal to a flawed paper on the consequences of the planned Grand Ethiopian Renaissance Dam project.

MORE INFO

Assessing the impact of climate-related risks

Strzepek is also an author on a paper that examines models to improve the integration of climate-related risks into financial companies’ decisions.

MORE INFO

J-WAFS World Food Day Student Video Competition

Deadline: September 27, 2022
Open to: MIT students/postdocs/22 alum
Seeking short videos on agriculture and/or food systems-related research. Cash prizes will be given to winning videos!

MORE INFO

MIT Social Good Venture Showcase

Deadline: August 10, 2022
Open to: Companies with MIT-affiliated founder or C-level executive
MIT Sloan will provide action-oriented support to startups working to achieve the UN’s Sustainable Development Goals like zero hunger and clean water.

MORE INFO

The Engine Blueprint

MIT Water Summit looking
Program
Deadline: August 12, 2022
Open to: Tech startups
If you have a company or a breakthrough, including those related to water & food, this program can help with commercialization.

Activate Fellowship
Deadline: October 31, 2022
Open to: Scientists/engineers with a bachelor’s & 4+ yrs experience. Those in PhD programs must finish by Sept 2023
This fellowship will help turn technology concepts into products, including those addressing challenges in industries like agriculture.

Techstyle For Social Good International Student Competition
Deadline: August 31, 2022
Open to: Current and recent students
Young innovators with ideas related to agrifood should consider applying for mentorship and funding.

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.

INTERESTED IN SUPPORTING J-WAFS?

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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.