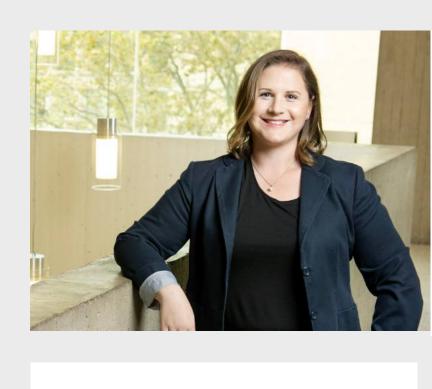
NEWS & ANNOUNCEMENTS



Furst creates microbial fertilizer coating

In work tied to a J-WAFS project, Ariel Furst developed a coating to protect bacteria that provide nutrients to plants and regenerate soil.

READ MORE

J-WAFS researcher gives interview on the environmental impacts of mining

In a PBS News Hour article, Scott Odell explains how dust from mining operations can contaminate local agricultural fields and water sources with heavy metals, leading to conflict between mines and communities.

READ MORE

advises MIT's climate clock teams Projected on the side of MIT's Green

J-WAFS PI Susan Murcott

building, the clock counts down the number of Boston sports teams' games before May 2024, a worst-case scenario for the planet to potentially warm 1.5 degrees Celsius. **READ MORE**

report

Bill Gates and Fady Jameel discuss food and farming on the sidelines of COP28

Bill Gates, co-chair of the Bill & Melinda Gates Foundation, and Fady Jameel, vice chairman of Community Jameel, co-hosted an interactive

breakfast discussion on agricultural adaptation and climate resilience. READ MORE

food insecurity in sub-Saharan Africa The Abdul Latif Jameel Poverty Action

New J-PAL effort tackles

Lab and Mohammed VI Polytechnic University developed an agriculture research lab to implement impact evaluations of policies and programs that improve food security.

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Will you support our

mission?

HELP TODAY!



Consider giving the gift of MIT water and food research this holiday season.

MIT's Climate Action Plan aims to decarbonize campus

READ MORE

food packaging.

The report states the latest projections for Earth's energy, water, food, and climate systems under current climate policies and those aligned with capping

global warming at 1.5°C.

READ MORE

J-WAFS signs COP28 call to action to transform food systems

The call to action builds on decades of

knowledge, experience, and advocacy

Systems Summits, and various other

from a wide range of non-state actors working on food systems, the UN Food

READ MORE

processes.

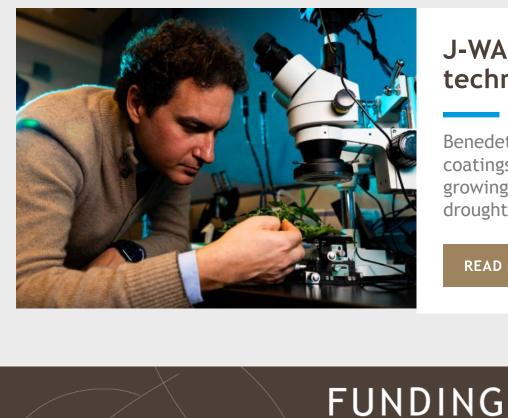
Developed with the help of staff, faculty, and researchers, the plan targets food, water, and waste goals, and encourages the MIT community to decarbonize MIT's operations by 2050.

press about bio-based plastics An MIT professor of chemical engineering, Olsen recently concluded a J-WAFS-funded project to develop new varieties of sustainable polymers

that can be used to make compostable

Brad Olsen speaks to

READ MORE



Benedetto Marelli developed silk coatings that aid in preserving foods and growing crops in unproductive soils and

drought-stricken lands.

J-WAFS PI develops

technology for food

READ MORE

MIT Energy Initiative Seed

for Design Fellowship **Fund Grants Program** Open to: MIT grad students Open to: MIT Pls Deadline: January 22, 2024

AND OTHER OPPORTUNITIES

Forward-thinking students with a strong interest in design, sustainability, and social impact are encouraged to apply. Past fellows studied floodplain

Deadline: January 16, 2024

MIT Morningside Academy

agriculture and coastal adaptation using oyster reefs. MORE INFO

research with high potential impact. Proposals across the spectrum of energy and environmental research

These grants support new lines of

areas are encouraged, including those related to water or food systems.

MORE INFO IN-DEPTH LOOK J-WAFS RESÉARCHERS SEEK TO UNDERSTAND WATER ACCESS IN INDIA USING "SMART BUCKÉTS"

Jonathan Bessette and Gokul Sampath will

conduct research on safe water access in Indian villages with the help of a J-WAFS India Grant

attending World Water Week. The two traveled to Stockholm, Sweden for the annual international water conference, where they were part of a cohort of four 2022 J-WAFS Travel Grantees. Expanding on the ideas they discussed during World Water Week, the two MIT PhD students have combined their expertise to address the global

In August of 2022, Gokul Sampath and Jonathan Bessette, two MIT PhD students, got to know each other personally and professionally while



Bessette and Sampath are developing small sensors to be placed inside water fetching vessels to make "smart buckets" that can help obtain a clearer picture of fetching practices in arsenic affected villages. By

demonstrating the efficacy of a sensor-based approach to understanding

AWARDS & RECOGNITIONS

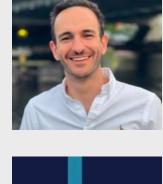
water fetching practices, the researchers hope to address a major data gap in international development. **READ MORE**

César Terrer co-authors paper in Nature Climate Change

preparedness enthusiasts. MORE INFO

system for drinking water. MORE INFO

research. MORE INFO



nona[†]

Adib's J-WAFS project developed a radio frequency identification (RFID) system that can sense food and liquids in closed containers. MORE INFO Nona awarded a Global Prize for Innovation in Desalination

Fadel Adib wins inaugural Great Arab Minds award

The paper, titled "A constraint on historic growth in global photosynthesis

Launched by HH Sheikh Mohammed bin Rashid, Vice President of the United Arab Emirates, the award was given to Adib for his work on wireless sensing.

The J-WAFS spinout company was awarded at a ceremony in Jeddah for their

portable, off-grid desalination device that turns seawater into drinking water

using solar power. The system can aid soldiers, boaters, and emergency

J-PAL celebrates 20 years of working to reduce poverty

The Abdul Latif Jameel Poverty Action Lab held a celebration event that brought together a diverse group of partners for panels and discussions, including one on the intersections of agriculture and climate change

due to rising CO2," helps resolve conflicting estimates of the historic sensitivity of global terrestrial photosynthesis to CO2 and highlights the impact anthropogenic emissions have had on ecosystems. MORE INFO



MIT student Gitanjali Rao honored at the White House A first-year student, Rao was recognized for inspiring youth in science and

Jill Biden. Among Rao's inventions are "Tethys," a patented lead warning

J-WAFS Fellow Jie Yun presents poster at recent conference

Yun attended a conference at the Cold Spring Harbor Lab on plant genomes, systems biology, & engineering, and presented her poster "Different carbon

innovation at the first Girls Leading Change celebration, hosted by First Lady



allocation strategies in annual and perennial species of Brachypodium at reproductive stage under carbon limitation induced by drought." MORE INFO

EVENTS

Webinar on food security in the Horn of Africa

Where: Online

When: Jan 16, 2024 9:00 a.m. ET When: Jan 10, 2024, 1:00 p.m. ET Where: Online The Univ. of Natural Resources and Life MIT student entrepreneurs, including Sciences, Vienna, a member of the those in the water and food space, can learn more about gaining potential JWAFS-led FACT Alliance, will host this

MIT TLO speaker series When: Jan 10 - Feb 2, 2024 Where: MIT campus MIT's Technology Licensing Office will

free event that will discuss climate

change impacts on the region's food

production & livelihoods.

RSVP & MORE INFO

host a series of events for the MIT community that will discuss a range of IP topics. Those with startups, including ones in water and food, are encouraged to attend. RSVP & MORE INFO

January 18th, 2023

MIT J-WAFS Abdul Latif Jameel Water & Food Systems

When: Jan 29 - Feb 2, 2024 Where: MIT campus E14, an MIT-affiliated early-stage venture fund, will host a week-long

entrepreneurs, including those in water

workshop where aspiring

successful MIT founders.

or food, can gain insights from

Workshop on startups

MIT Sandbox information

session for MIT students

mentorship and support through MIT's Sandbox program during this hour long,

virtual information session.

RSVP & MORE INFO

RSVP & MORE INFO J-WAFS ice cream social for MIT students MIT students interested in water and food systems research can network and

engage with peers at this informal IAP event on Jan 18, 2024. RSVP required.

RSVP & INFO

WATCH NOW

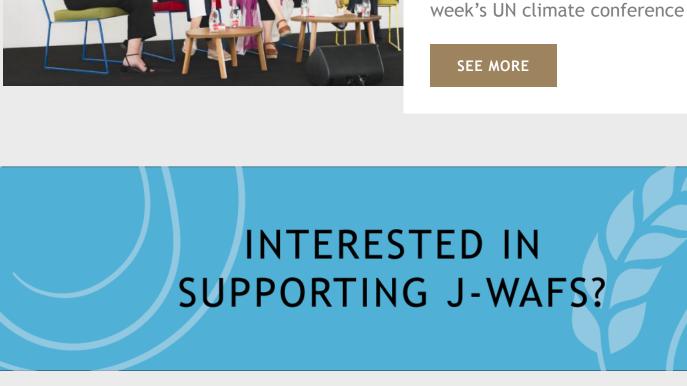
SEE MORE

IN CASE YOU MISSED IT

Hosted by the Univ. of Natural Resources and Life Sciences, Vienna, member of the JWAFS-led FACT Alliance, the event addressed food security in Africa's Lake Victoria Basin.

Webinar on food systems

COP 28 panel with J-WAFS **Fellow** MIT PhD student Nadia Christidi, who studies cities with water supply challenges, was part of a Community Jameel event on ocean health at last



FOR MORE INFORMATION ABOUT SPONSORSHIP OPPORTUNITIES, CONTACT: RENEE J. ROBINS Executive Director, J-WAFS

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.

Abdul Latif Jameel Water and Food Systems Lab Massachusetts Institute of Technology 77 Massachusetts Avenue, E38-325

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<u>rrobins@mit.edu</u> or (617) 324-6726 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.

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,

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and sustainability of the world's water and food systems.

Our program catalyzes MIT research,

innovation, and technology for ensuring safe