



NEWS & ANNOUNCEMENTS



J-WAFS team creates water treatment system

Patrick Doyle and his lab developed a technology to quickly and sustainably remove micropollutants from water.

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J-WAFS PI Taylor Perron speaks at MIT WORLDING

WORLDING, which explores climate futures through multimedia, selected five teams, including one addressing Mexico City's water crisis, to meet with MIT scholars like Perron, who researches how geology, climate, and life shape Earth's surfaces.

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MIT students prototype water and food products

As part of the Department of Mechanical Engineering's Product Engineering Processes course, students developed products like an automated water bottle cleaner and an automated fish food dispensing system for commercial fish farmers.

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MIT study on "food as medicine"

A new study from the Jameel Poverty Action Lab and others, examines dietbased treatments for Type 2 diabetes.

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MIT alum designs indoor garden

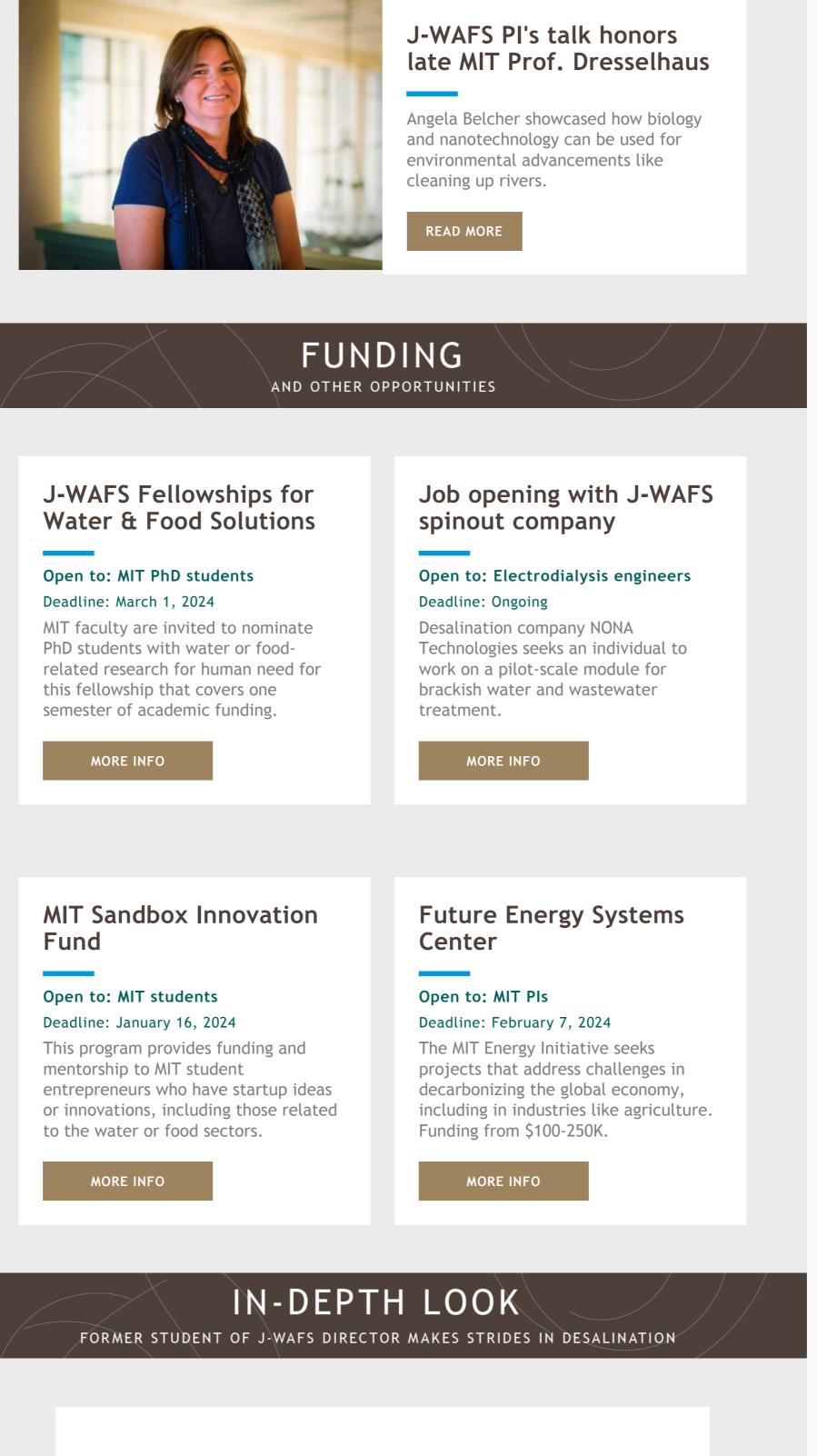
Randall Briggs '09, SM '18 created GardenByte, an indoor herb garden, which allows plants to grow three times faster than outdoors by using hydroponics, integrated sensors and powerful LEDs.

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J-WAFS PI co-authors a paper on biodiversity

Sara Beery and fellow researchers emphasize the use of advanced technology to collect high-resolution biodiversity data to enable scientific inquiry, conservation, and policy decisions.

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Harmony Desalting takes home recent awards from around the globe

During the summer of 2017, Quantum Wei BA '15, SM '17, PhD '21 started working on batch reverse osmosis technology in the lab of John H. Lienhard V, director of J-WAFS and MIT professor in the Department of Mechanical Engineering. Batch reverse osmosis refers to a desalination process in which water is treated in batches (as opposed to continuously) by pushing salty water against a membrane, forcing freshwater through.



Wei worked with others in the lab to create a technology that reduces energy use by 10% compared to conventional reverse osmosis (RO). The batch process allows for improved water recovery and operational productivity without sacrificing membrane longevity. In 2020, Wei co-founded Harmony Desalting to bring the technology to market and to make desalination more affordable and sustainable.

The company has gone on to win several awards, including \$2M as part of a team in Canada's Department of National Defence's Innovation for Defence Excellence and Security (IDEaS) Pop up city Contest. Harmony also received the award for "Most Promising Technology in Reducing Chemicals & Consumables" as part of the Global Prize for Innovation in Desalination in Jeddah, Saudi Arabia.

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EVENTS



Webinar on food security in the Horn of Africa (OPEN TO ALL) January 16, 2024, 9:00 a.m. ET, Online

The University of Natural Resources and Life Sciences, Vienna, a member of the JWAFS-led FACT Alliance, will host a webinar on climate change impacts on food production and livelihoods in the Horn of Africa. MORE INFO



MIT water reuse workshop (MIT ONLY) Tuesday, January 16, 10:00 a.m. - Noon ET, 26-033

MIT's Huang-Hobbs BioMaker Space will host this Independent Activities Period (IAP) workshop for the MIT community to explore unit operations of wastewater and water treatment and related topics in a hands-on wet lab. MORE INFO



J-WAFS ice cream social for MIT students (MIT ONLY) Thursday, January 18, 2024, 3:30-5:00 p.m. ET, RSVP for location

Are you an MIT student with a passion for water and food-related research for human need? Drop in to this informal event to network and engage with peers with similar water and food interests while enjoying a sweet treat! MORE INFO



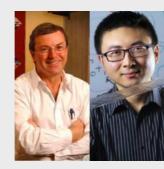
MITdesignX Climate Solutions IdeaThon (MIT ONLY) Tuesday-Thursday, January 23-25, 4:00-7:00 p.m. ET, N52 garage

MIT student teams will work together over three days to brainstorm, make observations, collect data, and design tools to both identify and frame a specific climate problem, and then design a viable and feasible solution. MORE INFO



Legal dos and don'ts of starting a startup (MIT ONLY) Monday, January 29, 2024, Noon - 1:30 p.m. ET, 32-155

Increase your knowledge during this Independent Activities Period (IAP) course from MIT Deshpande Center, featuring expert insight into the legal issues to consider when you start a company, including one in water or food. MORE INFO



MIT's Technology Licensing Office speaker series (MIT ONLY) Various dates from now until February 2, 2024, MIT campus

The series includes talks from J-WAFS PIs like Alan Hatton who will discuss how MIT IP is fighting climate change and Xuanhe Zhao who will share his academic, research, and tech transfer journey. MORE INFO



Lecture on the Grand Ethiopian Renaissance Dam (GERD) Wednesday, February 7, 2:30-4:00 p.m. ET, E38-346

The MIT, Harvard, and Tufts communities are invited to join J-WAFS Visiting Scholar Dale Whittington for a seminar on the filling of the GERD reservoir and its implications for Egypt, Sudan, and Ethiopia. MORE INFO

sustainability

MIT Sustainability Connect 2024 (MIT ONLY) Thursday, February 8, 8:45 a.m. - 2:30 p.m. ET, Samberg Attendees will get an inside look at the many climate and sustainability initiatives that exist at MIT, including MIT's Fast Forward Plan for Climate Action, from reimagining food systems to eliminating waste. MORE INFO

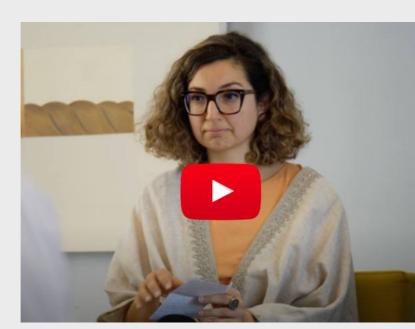
IN CASE YOU MISSED IT



J-WAFS PI works with students on water project

As part of MIT's DesignPlus learning community, D-Lab founding director Amy Smith helped students use solar disinfection for water treatment.





J-WAFS Fellow speaks on panel

MIT PhD student and former Rasikbhai L. Meswani Fellow Nadia Christidi was part of a Community Jameel event on the arts, health, and climate action.

WATCH NOW

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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> **RENEE J. ROBINS Executive Director**, J-WAFS rrobins@mit.edu 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.

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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