

## IN THE NEWS

APRIL 2018



### We Have a New Look!

We've spruced up our newsletter just in time for spring! Read on for the latest in MIT food and water research, funding, events, and more...

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### J-WAFS Fellowships for Water Solutions (MIT ONLY)

Calling MIT PhD students! Faculty nominations for students pursuing research in water and water supply due next month.

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### Sensors for Water, Food, & Environment Conference

MIT's [SENSE.nano](#) is collaborating with J-WAFS and [ESI](#) to explore how sensors could preserve our most essential natural resources.

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### J-WAFS Milk Sensor Featured by *Gulf News*

Learn about this [J-WAFS Solutions](#)-funded device by MIT MechE professor Sanjay Sarma's lab that tests the quality and safety of milk.

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### Global Water Awards Granted to J-WAFS Affiliates

Congrats to J-WAFS' Research Affiliate [Xylem, Inc.](#), awarded Water Tech. Company of the Year at the [2018 Global Water Awards](#). The J-WAFS Solutions spinout [Via Separations](#) was also recognized.

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### MIT Students Win National Water Prize Competition

A team of students in J-WAFS' director John Lienhard's lab were among 8 winning teams of the [Bureau of Reclamation's More Water, Less Concentrate](#) competition.

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### Low-cost *E. coli* test wins MIT Water Innovation Prize

Nine student teams pitched solutions to global water issues at this annual [MIT Water Club](#) event. Winning projects covered water testing, water harvesting, and aquaculture sensors.

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### Staff Spotlight: Jasmine Edo

We are glad to introduce J-WAFS' new financial and program coordinator, Jasmine Edo. Welcome to the team!

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# IN-DEPTH LOOK

MIT STUDENT SPOTLIGHT

## J-WAFS Fellow Grows a Living Water Sensor

Just one year ago, J-WAFS launched our inaugural [graduate student fellowship program](#). Nominated last spring by Prof. Tim Lu in the Department of Biological Engineering, PhD student [Tzu-Chieh Tang](#) (Zijay) was selected for the first J-WAFS Fellowship in Water Solutions. In this interview, Zijay shares details about his background and the unique water sensor he is developing that takes its inspiration from living systems found in nature.



Zijay, originally from Taiwan, came to MIT after completing a masters at the Masdar Institute in the United Arab Emirates. He is now a PhD candidate in biological engineering, where he works across disciplines to develop engineered living materials that can sense and respond to environmental stimuli—contaminants in particular—to become living sensors that can both record contaminant levels in water supplies and serve as bioremediation tools.

J-WAFS communications and program manager Andi Sutton interviewed Zijay about his fascinating research area and the path that led him to it.

[READ MORE](#)

# EVENTS

FOOD & WATER



### Rabobank-MIT Food and Agribusiness Innovation Prize

[MAY 2, 6:30-9 / E52 6<sup>th</sup> FLOOR / MIT CAMPUS](#)

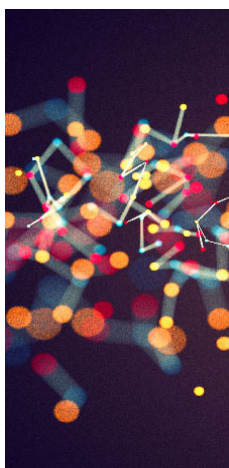
Join teams from around the US as they pitch new food and agriculture startup ideas at this J-WAFS-sponsored event and compete for \$25K in awards. [MORE INFO](#)



### MIT D-Lab Spring Prize

[MAY 4, 5-7 / N51 3<sup>rd</sup> FLOOR / 265 MASSACHUSETTS AVE](#)

Presentations of designs and prototypes by [D-Lab](#) students that offer solutions for smallholder farmers, climate's impact on water and health, and more. [MORE INFO](#)



### J-WAFS Project to be Presented at the 6th Annual Water Forum & Youth Summit

Attend the upcoming [Massachusetts Water Forum and Youth Summit](#) on May 3rd to learn about how nature-based solutions can solve water challenges. During one of the scheduled sessions, MIT graduate Tyler Swingle will present on the recently released design guidelines for urban stormwater wetlands, developed with the support of a [2015 J-WAFS seed grant](#).

[Design Guidelines for Urban Stormwater Wetlands](#) [MORE INFO](#)

[Summit Registration and Location](#) [MORE INFO](#)

### Other Water and Food Events

[Chasing Water: How NASA Monitors the Earth's Changing Water Cycle](#) [MORE INFO](#)

[APRIL 25, 2 pm / Online Webinar](#)

[The Future of Nutrition](#) [MORE INFO](#)

[APRIL 26, 6:30-8:30 pm / 50 Milk Street / Boston, MA](#)



Food Edge Summit [MORE INFO](#)  
MAY 1-2 / One Design Center Place / Boston, MA

## FUNDING AND OTHER OPPORTUNITIES

### Join the MIT FAC's Leadership Team (MIT ONLY)

**FOR 2018-2019 ACADEMIC YEAR**

The MIT Food and Agriculture Club is seeking current MIT students passionate about food and agriculture to lead annual innovation prize organizing and events team.

[MORE INFO](#)

### Apply for a Kirchner Food Fellowship

**DEADLINE: APR. 30**

The Kirchner Group, an agriculture-focused merchant bank, offers fellowships in 2018-2019 for students to learn about impact investing in food and agriculture.

[MORE INFO](#)

### CleanTech Open

**DEADLINE: MAY 1**

The CleanTech Open Accelerator Program is accepting applicants for the summer program, which provides mentorship, bootcamps, and more.

[MORE INFO](#)

### Job Opening at SEI-US

**SCIENCE & PUBLIC POLICY POSITION**

The Stockholm Environment Institute is seeking applicants for a Water Program Director and Water Resources Analyst for their US office.

[MORE INFO](#)

## INTERESTED IN SUPPORTING J-WAFS?

When you make a gift, you are making an investment in both the future of JWAFS 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 of food and water supply.

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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