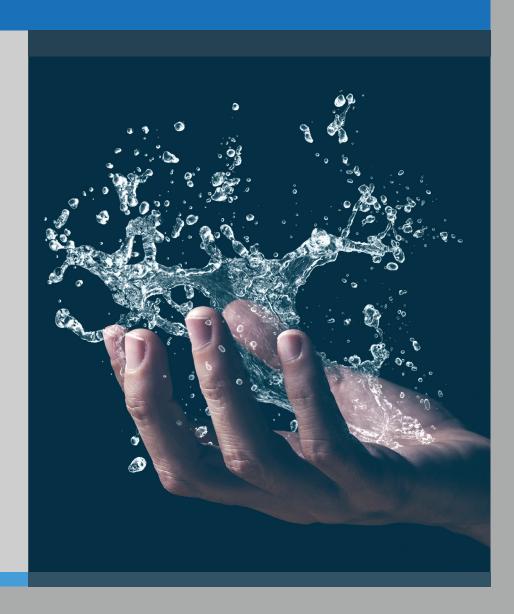


WATER OBSERVING TECHNOLOGY FORUM



April 23-25, 2024

Sellers
Auditorium
Tuscaloosa, AL



DAY 1

Tuesday, April 23, 2024 Central Time (CT)

Imagery as Data

Sellers Auditorium

Time	Topic
8:30-8:45	Welcome, Logistics and Introductions Steve Burian, Alabama Water Institute Matt Womble, Alabama Water Institute
	Keynote Presentations
8:45-9:00	The University of Alabama College of Engineering's Water Observing Technology Research and Education Cliff Henderson, University of Alabama College of Engineering
9:00-9:15	The University of Alabama Strategy to Support the Advancement of Water Observing Technology Bryan W. Boudouris, University of Alabama VP for Research and Economic Development
9:15-9:45	Next Generation Water Observing for the Nation Chad Wagner, USGS
9:45-10:00	Coffee/Soda Break
	Plenary Presentations
10:00-10:30	Camera Networks for Weather Monitoring Jerry Brotzge, Western Kentucky University
10:30-11:00	Operational Implementation of Imagery in USGS Water Science Jack Eggleston, USGS
11:00-11:30	Crewed to Uncrewed Systems: Transitioning Hyperspectral Imaging across Platforms to Monitor Harmful Algal Blooms and Water Quality Parameters Across the Great Lakes Andrea Vander Woude, NOAA Great Lakes Environmental Research Laboratory
11:30-13:30	Buffet Lunch/Poster Sessions
	Technology Application Presentations
13:30-13:50	WebCOOS: Delivering Data for Decisions Theo Jass, SECOORA
13:50-14:10	Leveraging USGS HIVIS to Remotely Monitor Streamflow Conditions in the US Marouane Temimi, Stevens Institute of Technology
14:10-14:30	GRIME-AI: Open-source Software for Ecohydrological Science and Education using Ground-based Time-lapse Imagery Troy Gilmore, University of Nebraska
14:30-15:00	Coffee/Soda/Snacks Break
15:00-15:20	Operationalizing Remote Measurements of Streamflow with Fixed and Mobile Camera Platforms Frank Engel, USGS
15:20-15:50	Hydrologic Monitoring using Cameras: Key Takeaways from Initial Deployments Sierra Young, Utah State University Erfan Goharian, University of South Carolina
15:50-16:50	Open Discussion: Imagery as Data for Inland and Near-Shore Waters
16:50-17:00	Day 1 Closing Remarks Steve Burian, Alabama Water Institute





DAY 2

Wednesday, April 24, 2024 Central Time (CT)

Mobile Monitoring Systems

Sellers Auditorium

Time	Topic
8:30-8:45	Welcome and Logistics Russ Lotspeich, USGS
	Keynote Presentations
8:45-9:15	Creating an Educational Pathway for Autonomous Technology Innovators David Young, RoboNation
9:15-9:45	The Global Drifter Program: Real-Time In-Situ Observation with Autonomous Drifters Luca Centurioni, Scripps Institute of Oceanography
9:45-10:00	Coffee/Soda Break
	Plenary Presentations
10:00-10:30	Autonomous Monitoring for Hypoxia in the Gulf of Mexico Stephan Howden, University of Southern Mississippi
10:30-11:00	Autonomous Distributed Measurement for Water Quality Estimation using Mobile Sensor Networks Bert Tanner, University of Delaware
11:00-11:30	Monitoring South Florida's Coastal Ecosystems: Protecting our Health, Wealth and Happiness Todd Crowl, Florida International University
11:30-13:30	Buffet Lunch/Poster Sessions
	Technology Application Presentations
13:30-13:50	Integrated Acoustic Communications with Underwater Autonomy Aijun Song, University of Alabama
13:50-14:10	USACE ERDC Uncrewed Survey System Development Ian Conery, USACE ERDC
14:10-14:30	Monitoring Great Lakes Fisheries 'at scale' with autonomous vehicles Peter Esselman, USGS
14:30-15:10	Coffee/Soda/Snacks Break
15:10-15:30	Autonomous Power Distribution System for Underwater Vehicles Nina Mahmoudian, Perdue University
15:30-15:50	Recent Development and Operation of CO-OPS' Real-Time, Shallow Water CURrents BuoY (CURBY) Laura Fiorentino - NOAA Center for Operational Products and Services (CO-OPS)
15:50-16:50	Open Discussion: Mobile Observing Platforms for Inland and Near-Shore Waters
16:50-17:00	Day 2 Closing Remarks Russ Lotspeich, USGS





DAY 3

Thursday, April 25, 2024 Central Time (CT)

Innovation
Partnerships
and
Technology
Showcase

Sellers Auditorium

Time	Topic
8:30-8:45	Welcome, Logistics and Introductions Brian Pellerin - USGS
	Plenary Presentations
8:45-9:15	Impact of UA Research and Economic Development Enterprise / Techstars Water Tech and Sustainability Accelerator Dan Blakley, University of Alabama Justice Smyth, Tuscaloosa County Economic Development Authority
9:15-9:45	The Alliance for Coastal Technologies: Enabling Environmental Innovations and Observations Mario Tamburri, University of Maryland Center for Environmental Sciences
9:45-10:15	Government - Industry Innovation Partnerships: How to Make Them Work Maggie Yancey, NASA
10:15-10:45	Smart Lake Erie and CWA Accelerator for a Freshwater Economy Jeff Pu, Cleveland Water Alliance
10:45-11:00	Closing Remarks Brian Pellerin - USGS Tim Haskew, University of Alabama
11:30-13:00	Boxed Lunch Pickup Window Generously Sponsored by Dell
11:00-17:00	Vendor Exhibits / HIF Tours / Government Tech Transfer and Partnership Talks
	Government Tech Transfer and Partnership Talks
13:00-13:30	NSF Convergence Accelerator Catherine O'Reilly, Program Director (virtual)
13:30-14:00	USGS Technology Transfer Office James Mitchell, Technology Enterprise Specialist
14:00-14:30	USBR Prize Competitions Christine VanZomeren, Program Administrator
14:30-15:00	USACE ERDC and ERDCwerx Lynn Zanow and William Klauser (virtual)
16:00	Adjourn (vendors have until 17:00 to exit Sellers)

DAY 3

Exhibitors

Ott HydroMet
Fluidion
Pacific Gyre
University of Alabama
Cradlepoint
Dell
Xylem Analytics — SonTek

Kisters North America

Evigia Systems

Stroud Water Research Center

Campbell Scientific

Trutta Environmental Solutions

Fondriest Environmental

RoboNation

Sofar Ocean

USGS

Jaia Robotics

iSENSYS, LLC

Aquatic Sensors

In-Situ Inc

Geolux d.o.o.



