



U.S. *Smart* Water Conference 2018 :

Intelligence, Innovation & Tomorrow's Technologies

May 30 – May 31, 2018

University of Akron

Agenda & Program



DANIEL HARRIGAN, MAYOR





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US Smart Water Conference 2018



Agenda & Program

Hotels:

Conference Hotels: Hilton Garden Inn & Courtyard by Marriott, Akron

CEUs:

Please be sure to register your CORE ID for CEUs credit.

11.5 CEUs/contact hours are available for this conference

Please remember to Scan in and Scan Out for CEUs/Contact Hours

Breakouts

30 minute presentations with 10 minute break between each session

Transport Schedules

Wednesday, May 30, 2018

7:00 am Conference Shuttles depart every 30 minutes from
Hilton Garden Inn & Courtyard by Marriott for Conference location

4:30 – Conference Shuttles depart Conference Location for
5:30 pm Conference Hotels

5:45 – Conference Shuttles between Conference Hotels and
10:00 pm BLU every 45 minutes

Thursday May 31, 2018

7:00 - Conference Shuttles depart every 30 minutes between these times
9:00 am only from Hilton Garden Inn & Courtyard by Marriott for Conference
location

3:30 - Conference Shuttles depart for Conference Hotels
4:30 pm

4:30 pm **Last shuttle leaves Conference Location for Conference Hotels**

7:30 – 8:30 am

Breakfast and Registration

8:30 – 8:45 am

Introduction and Welcome - Akron – Smart City

Honorable Mayor Dan Horrigan, City of Akron, Ohio

8:45 – 9:15 am

Smart City, Smart Water 1

Intelligent Water Systems from Understanding the Concepts to Current Practices and Future Innovations

Presenter: Jim Cooper - Arcadis

9:15 - 10:30 am

Smart City, Smart Water 2

Understanding the Needs and the Opportunity in the USA

Panel Session:

Panelists: Graham Symmonds, FATHOM

Jennifer Warner, Water Research Foundation

Christine Boyle, Valor Water Analytics

Moderator: Christopher Miller, PhD, FontusBlue,

10:30 – 10:45 am

Break

10:45 -11:45 am

Ohio EPA Regulatory Overview

Amy Jo Klei, Ohio Environmental Protection Agency

11:45 - 12:45 pm

Business Luncheon and Networking

12:45 - 1:30 pm

WRF Intelligent Water Systems & Cyanobacteria Research Overview

Jennifer Warner, The Water Research Foundation

1:30 – 2:00 pm

European Smart Water Initiatives

Hans Wouters, Netherlands Water Alliance

2:00 – 2:30 pm

Smart Water Adoption in the Great Lakes

Emily Hamilton, SplashLink

2:30 - 3:00 pm

Ice Cream Breakout and Networking

3:00 – 5:00 pm

Water Pitcher

New Water Technology Presentations

(6 sessions–see list of Companies & Tables)

5:00 pm

Adjourn

6:00 -10:00 pm

Conference Networking Event

Drinks, heavy Hors d'oeuvres and Music at BLU, Akron's Jazz Bar at
47 E Market Street, Akron, OH 44308 330.252.1190

10:00 pm

Last transport returns to Hilton Garden Inn & Courtyard by Marriott Hotels

Dinner on your own at one of Akron's restaurants

Dinner is not included in the Conference Registration

Thursday May 31, 2018

5.5 CEUs/Contact Hours available

7:30 – 8:00 am

Breakfast and Registration

BREAKOUT SESSIONS			
	Smart Watershed & Toxins <i>Erie Room</i>	Smart Water Plant <i>Cuyahoga Room</i>	Smart Water Distribution <i>Rockwell Room</i>
8:00 – 8:30	Treatment Optimization for HABs Heather Raymond <i>Ohio Environmental Protection Agency</i>	Asset Management Regulations Are Coming, Are You Ready? Kevin Slaven <i>Arcadis U.S., Inc</i>	Smart Data Collection Practices in Water Distribution Systems Ben Chenevey <i>Arcadis</i>
8:30 - 8:40	Break	Break	Break
8:40 – 9:10	Akron's Multi-Barrier Approach to HAB Prevention, Avoidance & Treatment George Sendrey <i>Environmental Design Group</i>	Show Me the Money: Finding Dollars in Your Data Graham Symmonds <i>FATHOM</i>	Role of Internet of Things (IoT) & Cloud Computing in Water Innovation Dr Sudhir Kshirsagar <i>Global Quality Corp</i>
9:10 – 9:20	Break	Break	Break
9:20 – 9:50	Control of HABs through a more Rational Use of Copper: Deepening the Conversation about Cell Lysis and Cyanotoxins - What's Really Happening? David Hammond <i>Earth Science Labs</i>	Finding & Reducing Bacteria at the Source with Droplet Digital PCR Daron Stein <i>Source Molecular Corp</i>	A Brave New World of Apparent Loss Detection using Machine Learning Christine E Boyle <i>Valor Water Analytics</i>
9:50 - 10:00	Break	Break	Break
10:00 - 10:30	Detection & Monitoring of HABs in Theory & Practice Sheela Agrawal <i>NEORSD</i>	Outperform Regulatory Compliance to Produce Exceptional Water Christopher Miller <i>FontusBlue</i>	Fort Wayne Answers 5 Core Questions about Asset Management as Defined by the EPA Ben Groeneweg <i>City of Fort Wayne</i>
10:30 - 10:40	Break	Break	Break
10:40 - 11:10	Lake Erie HABs Data Management & Communication Network Max Herzog <i>Cleveland Water Alliance</i>	Sand Cycle RFID for sand filter monitoring Hans Wouters <i>Brightwork</i>	Louisville MSD's "One Water" Commitment to Reduce Energy & Water Usage Rich Atoulkian <i>HDR Engineering, Inc</i>

Thursday May 31, 2018

BREAKOUT SESSIONS			
	Smart Watershed & Toxins <i>Erie Room</i>	Smart Water Plant <i>Cuyahoga Room</i>	Smart Water Distribution <i>Rockwell Room</i>
11:10-11:20	Break	Break	Break
11:20-11:50	Multiagency Partnership & Cooperation: One Smart Way to Manage Algal Toxins in a Drinking Water Source through Mitigation & Treatment Edward Pfau <i>Hull & Associates, Inc</i> Fernanda Craig <i>Muskingham Watershed</i>	Lessons learned from managing plant outages on Columbus's Water & Wastewater Plant upgrade projects Michael Hondel <i>H R Gray</i> Phillip Boss <i>H R Gray</i>	Using Cityworks to support Akron Water Supply Bureau's asset management program Lee Halbrook <i>Power Engineers</i> Darren Rozenek <i>City of Akron</i>
11:50-12:40	Lunch and Networking		
12:40-1:10	Liquid Ionic Copper Offers 3-for-1 as Drinking Water Pre-Treatment David Hammond <i>Earth Science Labs</i>	Asset Management – How the latest Ohio Senate Bill affects your Water System George Sendrey <i>Environmental Design Group</i> David McCallops <i>Environmental Design Group</i>	A Look into the Stormwater Revenue Crystal Ball: A Stormwater Fee Simulator for New York City Christine E. Boyle <i>Valor Water Analytics</i>
1:10 – 1:20	Break	Break	Break
1:20 – 1:50	Superoxide Remediation of Various Organics Such as Disinfectant Byproducts, Cyanobacteria & Related Toxins, PCBs, Geosmin, & Others Michael Mangham <i>EcoUSA</i>	Intelligent Distribution Systems: Communication; Challenges & Security Risks for Water Utilities Bob Daly <i>EMA, Inc</i>	MAP Sewer- Delivering predictive analytics of the sewer network at scale Mike Everest <i>Meniscus System Ltd</i>
1:50-2:00	Break	Break	Break

BREAKOUT SESSIONS			
	Smart Watershed & Toxins <i>Erie Room</i>	Smart Water Plant <i>Cuyahoga Room</i>	Smart Water Distribution <i>Rockwell Room</i>
2:00 – 2:30	Using models to make smart decisions while managing drinking & recreational waters affected by cyanobacterial Harmful Algal Blooms Donna Francy <i>U S Geological Survey</i>	Making Your Water System Work Smarter, Not Harder The AWWA Partnership for Safe Water Program to Improve Water Quality & Optimize Water System Operations John Civardi <i>Mott MacDonald</i>	Data-Integrated Network Models as a Foundation for Smart Distribution System Management Jim Uber, <i>CitiLogic</i>
2:30 - 2:40	Break	Break	Break
2:40 – 3:10	Applications of Algaecides for suppression of HABs: From Bench to Reservoir Elizabeth Crafton <i>University of Akron</i>	Water Quality Benefits & Treatment Optimizing using VFDs to better control process flow in plant & distribution system flow rates. David Kohlmeier <i>CTI Engineers, Inc</i>	Changing the economics of pipeline inspection PIPER Miniature Sensors Hans Wouters <i>Brightwork</i>
3:10 - 3:20	Break	Break	Break
3:20 – 3:50	ELISA for Anabaenopeptins & its use for the monitoring of source waters Fernando Rubio <i>Abraxis, Inc</i>		Evaluation of Alum-based Water Treatment Residuals to Absorb Phosphorus George Carleton <i>University of Akron</i>
	End	End	End

WATER PITCHER – COMPANIES AND TABLES

Table	Name	Company	Product/Innovation Description
1	Hans Wouters	Brightwork	<i>Sand-Cycle RFID</i> for sand filter monitoring- a new tool based on RFID for moving bed filters, to improve operations & lower costs.
2	Greg Ford	Phytoxigene	The Phytoxigene test kit measures the amount of Cyanobacteria in water samples & the number of genes responsible for production of toxins.
3	George Sendrey & Jim Demboski	Environmental Design Group	Akron-Israel Smart Water Asset Management System
4	Christopher Miller	FontusBlue	DecisionBlue HAB Monitor – a web-based advanced monitoring & decision support system for managing HAB treatment barriers.
5	Hunter King	Erie Open Systems	A new, Akron-developed, DIY low-cost Spectrometer for phosphorous & nitrogen measurements
6	Sudhir Kshirsagar	Global Quality Corp - HydroTrek	HydroTrek Smart Water Internet of Things (IoT) & Analytics uses multiple software modules that integrate IoT, SCADA and Analytics.
7	Graham Symmonds	FATHOM	FATHOM is a proven integrated suite of advanced technology products for utilities to improve their operations & billing.
8	Christine Boyle	Valor Water Analytics	Valor's new Cutoff Reducer solution lets utilities reduce outstanding bills by implementing intervention strategies for potential cutoff customers.
9	Kevin Kinder	SplashLink	SplashLink presents a new view of Smart Water Adoption in the Great Lakes
10	David Charlton & Tim Arnold	Rice Environmental Service	Regenex Wastewater Treatment uses innovative regenerable media with continuous wastewater treatment for industry.
11	Patrick Moore & Eric Stam	120WaterAudit	120WaterAudit's software, point-of-use testing kits, & managed services allow better compliance with Ohio's Lead & Copper Rule
12	Jeff Randall	Agro Shield LLC	Blue Green Water Technologies Lake Guard – slow-releasing algaecides designed to prevent intensification of cyanobacterial toxic blooms in freshwater bodies
13	Daron Stein	Source Molecular	Droplet Digital PCR - a unique system to detect DNA and identify pollution sources in environmental samples, even complex stormwater outfalls.
14	Max Herzog	Cleveland Water Alliance	A new plan for Lake Erie HABs Data Management & Communication Network based on operational real-time sensors.
15	Jeff Bronowski	City of Akron Water Supply	Smart Water Initiatives at the City of Akron



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