



16th Annual EPA Drinking Water Workshop: Small Systems Challenges and Solutions

September 24-26, 2019 · Cincinnati, Ohio

Earn up to 15
Continuing Education
Contact Hours

Where

Duke Energy Convention Center
525 Elm St, Cincinnati, Ohio 45202

Agenda and Registration

Online registration and the agenda are available on the workshop website. Registration will also be available on a walk-in basis during the workshop, although pre-registration is encouraged as space is limited.

epa.gov/water-research/16th-annual-epa-drinking-water-workshop

Cost

The workshop is free. There is no registration fee to attend.

Purpose

To support the efforts of state and local officials to assist small systems, this workshop will provide attendees with in-depth information and training on various solutions and strategies for handling small drinking water system challenges. The focus will be on drinking water distribution monitoring and treatment topics.

Who Should Attend

The workshop is primarily designed for state personnel responsible for drinking water regulations compliance and treatment technologies permitting; however, others may also benefit, including system owners and operators, local and tribal government personnel, academics, design engineers, technical assistance providers, and consultants.

Experts

The speakers and group leaders are experts in their fields from EPA and other federal agencies, state and local agencies, academia, associations, and other groups.

Live Broadcasts

For those unable to attend the workshop in person, some sessions will be broadcast live as part of EPA's Small Systems Monthly Webinar Series. Details are available on the workshop website.

Sponsors

This workshop is sponsored and hosted by EPA's Office of Research and Development and Office of Water, in partnership with the Association of State Drinking Water Administrators.



Questions? Contact Ashley Arayas of The Cadmus Group (Contractor to EPA) at (703) 247-6155 or 16thAnnualDWWorkshop@cadmusgroup.com.



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Sponsored by U.S. Environmental Protection Agency's (EPA) Office of Research and Development (ORD) and Office of Water (OW)
in partnership with the Association of State Drinking Water Administrators (ASDWA)

Preliminary Agenda

(as of July 26, 2019)

Tuesday, September 24, 2019

7:30 am	Registration Location To be Determined	
8:30 am – 9:45am	Location TBD SESSION 1 – OPENING PLENARY	
8:30 am	Welcome and Opening Remarks	
9:00 am	Keynote Address: Corrosion Control and Water Quality Impact Management for Mixed Water Sources <i>David Hokanson, Trussell Technologies</i>	
9:30 am	Agenda Review and Logistics <i>Thomas Speth; Michelle Latham; Darren Lytle; and Sandhya Parshionikar, EPA-ORD</i>	
9:45 am – 10:30 am	Location TBD SESSION 2: Networking Icebreaker <i>Moderator: Michelle Latham, EPA-ORD</i>	
10:30 am	Break/Transition	
11:00 am – 12:30 pm	Location TBD SESSION 3A – DISTRIBUTION SYSTEMS I: LEAD AND CORROSION <i>Moderator: Simoni Triantafyllidou, EPA-ORD</i>	Location TBD SESSION 3B – MONITORING AND TREATMENT I: PER- AND POLYFLUORALKYL SUBSTANCES (PFAS) <i>Moderator: Ryan Albert, EPA-OW</i>
11:00 am	Pipe Scale Analyses for Solving Lead Problems <i>Mike Desantis, EPA-ORD</i>	Sources of PFAS <i>Marc Mills, EPA-ORD</i>
11:30 am	Flush Sampling and Sequential Profile Sampling for Lead Service Identification <i>Ryan James, Batelle</i>	PFAS Drinking Water Analytical Methods <i>Steve Wendelken, EPA-OW</i>
12:00 pm	How Plumbing Products are Certified Under NSF/ANSI/CAN 61 and 372 <i>Kathryn Foster, NSF International</i>	PFAS Treatment <i>Jonathan Burkhardt, EPA-ORD</i>
12:30 pm	Lunch (on your own)	
1:30 pm – 3:00 pm	Location TBD SESSION 4A – DISTRIBUTION SYSTEMS II: QUALITY CHANGES <i>Moderator: Mike Schock, EPA-ORD</i>	Location TBD SESSION 4B – MONITORING AND TREATMENT II: MANAGING CONTAMINANTS <i>Moderator: Chris Impellitteri, EPA-ORD</i>
1:30 pm	Blending and Water Quality <i>Miguel Del Toral, EPA-Region 5</i>	An Integrated Approach to Monitor Algal Blooms <i>Hunter Adams, City of Wichita Falls, Texas</i>
2:00 pm	Changing Water Sources <i>Helene Baribeau, Brown and Caldwell</i>	State Perspective on Contemplating a 5 ppb MCL for Arsenic <i>Paul Susca and Cynthia Klevens, New Hampshire Department of Environmental Protection</i>
2:30 pm	Colorado's Approach to Avoiding Unintended Corrosion Impacts <i>Melanie Criswell, Colorado Department of Public Health and Environment</i>	Microbial Contamination in Minnesota Groundwater <i>Anita Anderson, Minnesota Department of Health</i>
3:00 pm	Break/Transition	

Tuesday, September 24, 2019 (cont.)

3:30 pm – 5:00 pm	Location TBD SESSION 5A – DISTRIBUTION SYSTEMS III: PATHOGENS AND DISINFECTION <i>Moderator: Sandhya Parshionikar, EPA-ORD</i>	Also a Live Broadcast Session!	Location TBD SESSION 5B – MONITORING AND TREATMENT III: MANGANESE <i>Moderator: Darren Lytle, EPA-ORD</i>
3:30 pm	Nitrification Plans <i>Clayton Nicolardi, Texas Commission on Environmental Quality</i>		Treatment for Manganese <i>TBD</i>
4:00 pm	Disinfection Penetration into Biofilms and Sediments <i>David Wahman, EPA-ORD</i>		Manganese Removal Success in Minnesota <i>Karla Peterson, Minnesota Department of Health</i>
4:30 pm	Legionella Management Plan <i>Rachel Cicigline, New York State Department of Health</i>		Iowa DNR Water Supply Manganese Protocol <i>Anne Lynam, Iowa Department of Natural Resources</i>
5:00 pm	Adjourn		
6:00 pm	Networking event: baseball game		

Wednesday, September 25, 2019

7:30 am	Registration (Location TBD)		
8:30 am – 10:00 am	Location TBD SESSION 6A – DISTRIBUTION SYSTEMS V: POTPOURRI <i>Moderator: Greg Carroll, EPA-OW</i>	Location TBD SESSION 6B – MONITORING AND TREATMENT V: NITRATE AND PERCHLORATE <i>Moderator: Sarah Bradbury, EPA-OW</i>	
8:30 am	A Collaborative Approach to Harmful Algal Bloom Treatment Optimization and Source Water Management <i>Austin Prokup, Hull and Associates</i>	Biological Treatment for Nitrate and Perchlorate <i>Jess Brown, Carollo Engineers, Inc.</i>	
9:00 am	Key Management Challenges in Operating Small Water Distribution Systems <i>Lindell Ormsbee, University of Kentucky-Kentucky Water Resources Research Institute</i>	Costs of Nitrate and Perchlorate Treatment <i>Thomas Speth, EPA-ORD</i>	
9:30 am	Development of Design Criteria to Supplement Ten State Standards in Ohio <i>Linda Weavers, Ohio State University</i>	Consolidated Management of Nitrate Treatment: Implementation, Demonstration, and Affordability <i>Chad Seidel, Corona Environmental Consulting</i>	
10:00 am	Break/Transition		
10:30 am – 12:00 pm	SESSION 7 – BREAKOUT GROUP DISCUSSIONS		
	Location TBD Group 1: Approval/Permitting of Novel Technologies	Location TBD Group 2: Disinfection Byproducts and Consecutive Systems – State Implementation	
	Location TBD Group 3: Analytics and Laboratory Issues	Location TBD Group 4: Iron and Manganese	
	Location TBD Group 5: Corrosion	Location TBD Group 6: Lead in Schools (3Ts)	
	Location TBD Group 7: Legionella and Water Quality	Location TBD Group 8: Per- and Polyfluoroalkyl Substances (PFAS)	
	Location TBD Group 9: Partnerships and Consolidations		
12:00 pm	Lunch (on your own)		

Wednesday, September 25, 2019 (cont.)

1:00 pm – 2:30 pm	Location TBD SESSION 8A – DISTRIBUTION SYSTEMS VI: DISINFECTION BYPRODUCTS <i>Moderator: Mike Finn, EPA-OW</i>	Also a Live Broadcast Session!	Location TBD SESSION 8B – MONITORING AND TREATMENT VI: MONITORING AND METHODS <i>Moderator: Wendi Wilkes, ASDWA</i>
1:00 pm	Stage 2 Disinfection Byproduct Rule and Consecutive System In-Depth Analysis <i>Brooke Porter, EPA-OW</i>		Verifying Chlorine Meter Performance <i>Susan Yi, EPA-Region 3</i>
1:30 pm	Area-Wide Optimization Program (AWOP) <i>Alison Dugan, EPA-OW</i>		Unregulated Contaminant Monitoring Rule <i>Melissa Simic, EPA-OW</i>
2:00 pm	Identifying Factors Impacting Consecutive System Disinfection Byproducts Compliance <i>Carleigh Samson, Corona Environmental Consulting</i>		Updated Gross Alpha Methods <i>Glynda Smith, EPA-OW</i>
2:30 pm	Break/Transition		
3:00 pm – 4:00 pm	Location TBD SESSION 9 – ASK THE EXPERTS, MODELS AND TOOLS DEMOS, AND POSTERS		
4:00 pm	Break/Transition		
4:15 pm – 5:05 pm	Location TBD SESSION 10 – CLOSING PLENARY <i>Moderator: Michelle Latham, EPA-ORD</i>		
4:15 pm	Report-Out from Breakout Groups		
5:00 pm	Closing Remarks <i>Wendi Wilkes, ASDWA</i>		
5:05 pm	Adjourn		
6:00 pm	Networking event: local venue to be announced		



Thursday, September 26, 2019

7:30 am	Registration (Location TBD)			
8:00 am – 12:00 pm	SESSION 11 – IN-DEPTH TRAINING			
	Location TBD 11A: Setting up Bench- and Pilot-Scale Studies Cost-Effectively	Location TBD 11B: Evaluation of Inactivation at Drinking Water Treatment Plants	Location TBD 11C: UV 101	Location TBD 11D: Understanding Drinking Water UV Validation Reports
Trainers:	<i>Darren Lytle, EPA-ORD Dan Williams, EPA-ORD</i>	<i>Mike Finn, EPA-OW Brooke Porter, EPA-OW Sarah Bradbury, EPA-OW</i>	<i>Ernest (Chip) Blatchley, Purdue University</i>	<i>Christopher Schulz, CDM Smith</i>
Description:	This training will discuss approaches to designing, constructing, and operating a variety of drinking water treatment bench- and pilot-scale studies—specifically, jar tests, pilot-scale conventional treatment systems, corrosion control pipe rigs, batch adsorption and ion exchange test, membrane evaluations, and several other examples. Bench-and pilot-scale units will be available during the training session for attendees to experience firsthand.	This training will provide Safe Drinking Water Act program staff with information needed to evaluate disinfection processes in public water systems. Specifically, this training will cover disinfection chemistry and processes, measurement and instrumentation, and reaction kinetics. Following the presentations, participants will work on case studies and activities. There will be opportunities for open discussion among participants, and Q&A with the presenters.	This training will provide a basic understanding of principles that govern the behavior of UV disinfection systems and their operation. It will help prepare state regulators for review of UV projects or inspection of UV facilities.	This training is intended for the regulatory community responsible for approval of UV disinfection systems for drinking water. It focuses on the concepts behind validation reports and how key elements within those reports may be interpreted. This material is largely contained within Chapter 5 of the EPA UV Disinfection Guidance Manual.
12:00 pm	Adjourn			