



# 14th Annual EPA Drinking Water Workshop Small Systems Challenges and Solutions

August 22-24, 2017 · Cincinnati, Ohio

Continuing education contact hours will be offered

## Where

### Hilton Cincinnati Netherland Plaza

35 W. 5th St., Cincinnati, OH 45202  
(513) 421-9100

## 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 workshop will focus on distribution system and monitoring and treatment topics.

## Speakers

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.

## 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.

## Cost

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

## Lodging

A block of rooms has been reserved at the Hilton on a first-come, first-served basis at a group rate of \$136.00 plus 17.5% tax per night. The cut-off date for reservations within the group room block is Tuesday, August 1. Online reservation: <https://aws.passkey.com/go/EPAAug2017>. Phone reservation: (800) 445-8667 and mention *14th Annual EPA Drinking Water Workshop*.

## Agenda and Registration

To register online and view the preliminary agenda, go to [www.epa.gov/water-research/14th-annual-epa-drinking-water-workshop-small-systems-challenges-and-solutions](http://www.epa.gov/water-research/14th-annual-epa-drinking-water-workshop-small-systems-challenges-and-solutions).

Registration is also available on a walk-in basis during the workshop, although pre-registration is encouraged as space is limited.

## Sponsors

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 [14thAnnualDWWorkshop@cadmusgroup.com](mailto:14thAnnualDWWorkshop@cadmusgroup.com).





# 14th Annual EPA Drinking Water Workshop

## Small Systems Challenges and Solutions

August 22-24, 2017 · Hilton Netherland Plaza · Cincinnati, Ohio

Sponsored by the U.S. Environmental Protection Agency (EPA)  
in partnership with the Association of State Drinking Water Administrators (ASDWA)

### Agenda

Tuesday, August 22, 2017			
7:45 am	<b>Registration</b> ( <i>Pavillion Ballroom entrance</i> )		
8:30 am	<b>Pavillion Ballroom</b> <b>Welcome:</b> <i>Cynthia Sonich-Mullin, Director of EPA's Office of Research and Development (EPA-ORD), National Risk Management Research Laboratory</i> <b>Introduction:</b> <i>Thomas Speth and Michelle Latham (EPA-ORD)</i>		
9:00 am – 12:00 pm	<b>SESSION 1: OPENING SESSION</b> <i>Moderator: Thomas Speth, EPA-ORD</i>		
9:00 am	<b>Keynote Address</b> <i>Bob Kaplan, Acting Regional Administrator for EPA Region 5 (Invited-Tentative)</i>		
9:30 am	<b>Keynote Address</b> <i>Craig Butler, Ohio EPA Director and The Environmental Council of States (ECOS) Committee Chair for Water and Region 5 Representative</i>		
10:00 am	Break		
10:30 am	<b>D.C. Update and other Challenges in the Water Sector</b> <i>Alan Roberson, Executive Director at ASDWA</i>		
11:00 am	<b>Optimizing Water Infrastructure Investments</b> <i>Anita Thompkins, Director of EPA's Office of Water (EPA-OW), Drinking Water Protection Division</i>		
11:30 am	<b>U.S. Department of Agriculture (USDA) Grants Funding for Small Systems</b> <i>Nicole Schindler, Senior Engineer at USDA</i>		
12:00 pm	Lunch (on your own)		
1:30 pm – 3:00 pm	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Pavillion Ballroom</b>  <b>SESSION 2A – DISTRIBUTION SYSTEMS III: PATHOGENS AND BIOFILM</b>  <i>Moderator: Darrell Osterhoudt, ASDWA</i> </td> <td style="width: 50%; vertical-align: top;"> <b>Hall of Mirrors</b>  <b>SESSION 2B – MONITORING AND TREATMENT I: MANGANESE AND IRON</b>  <i>Moderator: Darren Lytle, EPA-ORD</i> </td> </tr> </table>	<b>Pavillion Ballroom</b> <b>SESSION 2A – DISTRIBUTION SYSTEMS III: PATHOGENS AND BIOFILM</b> <i>Moderator: Darrell Osterhoudt, ASDWA</i>	<b>Hall of Mirrors</b> <b>SESSION 2B – MONITORING AND TREATMENT I: MANGANESE AND IRON</b> <i>Moderator: Darren Lytle, EPA-ORD</i>
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3:00 pm	Break		

## Tuesday, August 22, 2017 (continued)

3:30 pm – 5:00 pm	<a href="#">Pavillion Ballroom</a> <b>SESSION 3A – DISTRIBUTION SYSTEMS II: PREMISE PLUMBING</b> <i>Moderator: Michael Schock, EPA-ORD</i>	<a href="#">Hall of Mirrors</a> <b>SESSION 3B – MONITORING AND TREATMENT II: CONTAMINANTS OF EMERGING CONCERN</b> <i>Moderator: Alan Roberson, ASDWA</i>
3:30 pm	<b>Assessment of Lead and Copper in Public School Drinking Water in Massachusetts</b> <i>John Tobiason, University of Massachusetts at Amherst</i>	<b>PFAS and UCMR Hits</b> <i>Brandon Kernen, New Hampshire Department of Environmental Services</i>
4:00 pm	<b>Lead Sources and the Relation to Plumbing Material Combinations</b> <i>Miguel Deltoral, EPA-Region 5</i>	<b>Analysis and Monitoring of Algal Toxins in Fresh and Coastal/Estuarine Environments</b> <i>Heath Mash, EPA-ORD</i>
4:30 pm	<b>Contaminant Accumulation and Release from Plastic Piping in Buildings</b> <i>Xiangning Huang, Purdue University</i>	<b>Nutrients and Algal Toxins</b> <i>Joel Allen, EPA-ORD</i>
5:00 pm	Adjourn	
7:10 pm	Optional Baseball Game (Great American Ball Park)	

## Wednesday, August 23, 2017

8:00 am	<b>Registration</b> ( <i>Pavillion Ballroom entrance</i> )	
8:20 am	<a href="#">Pavillion Ballroom</a> <b>Instructions for Sessions 4 and 5</b> ( <i>Moderator: Thomas Speth, EPA-ORD</i> )	
8:30 am – 10:00 am	<a href="#">Pavillion Ballroom</a> <b>SESSION 4 – ASK THE EXPERTS AND POSTERS</b>	
	Posters: Authors available at posters for questions	
	<b>Experts 1:</b> Disinfectant Residual and Control of Pathogens, and Disinfection Byproducts	<b>Experts 4:</b> CCL/UCMR/Regulatory Determination
	<b>Experts 2:</b> Lead and Copper Corrosion Control and Premise Plumbing	<b>Experts 5:</b> Inorganics
	<b>Experts 3:</b> Analytics and Lab Issues	<b>Experts 6:</b> Harmful Algal Blooms and Nutrients
10:00 am – 12:00 pm	<b>SESSION 5 – BREAKOUT GROUP DISCUSSIONS</b>	
	<a href="#">Rosewood</a> <b>Group 1 – RTCR:</b> <i>What issues are being identified in the first year of implementation?</i>	<a href="#">Caprice 1 &amp; 4</a> <b>Group 4 – Contaminants of Emerging Concern (CECs):</b> <i>How are states and utilities handling treatment for CECs?</i>
	<a href="#">Rookwood</a> <b>Group 2 – Lead in Schools:</b> <i>How are states dealing with issues in schools?</i>	<a href="#">Salon B/C</a> <b>Group 5 – New Technology Approval:</b> <i>What are the barriers to approval of new treatment technologies?</i>
	<a href="#">Caprice 2 &amp; 3</a> <b>Group 3 – Disinfectant Residual:</b> <i>How are states and water systems implementing disinfectant residual monitoring plans?</i>	<a href="#">Salon I</a> <b>Group 6: Communication:</b> <i>How can communication between the states and between EPA and the states be improved?</i>
12:00 pm	Lunch (on your own)	

Wednesday, August 23, 2017 (continued)		
1:30 pm – 3:00 pm	<a href="#">Pavillion Ballroom</a> <b>SESSION 6A – DISTRIBUTION SYSTEMS I: CORROSION CONTROL</b> <i>Moderator: Michael Finn, EPA-OW</i>	<a href="#">Hall of Mirrors</a> <b>SESSION 6B – MONITORING AND TREATMENT III: INORGANICS</b> <i>Moderator: Michelle Latham, EPA-ORD</i>
1:30 pm	<b>Sampling Approaches for Measuring Lead in Tap Water</b> <i>Simoni Triantafyllidou, EPA-ORD</i>	<b>Simultaneous Removal of Arsenic, Iron, Ammonia and Manganese by Biological Water Treatment</b> <i>Darren Lytle, EPA-ORD</i>
2:00 pm	<b>Lead Service Line Replacement Activities</b> <i>Kyle Burton, Wisconsin Department of Natural Resources</i>	<b>Uranium Occurrence and NSF/ANSI Standard for Point-of-Use Devices</b> <i>Thomas Sorg, EPA-ORD</i>
2:30 pm	<b>Lead Corrosion Control: Back to the Basics</b> <i>Michael Schock, EPA-ORD</i>	<b>Gross Alpha and other Radionuclide Issues</b> <i>Miguel Deltoral, EPA-Region 5</i>
3:00 pm	Break	
3:30 pm – 5:00 pm	<a href="#">Pavillion Ballroom</a> <b>SESSION 7A – DISTRIBUTION SYSTEMS IV: INFRASTRUCTURE AND MODELING</b> <i>Moderator: Jonathan Pressman, EPA-ORD</i>	<a href="#">Hall of Mirrors</a> <b>SESSION 7B – MONITORING AND TREATMENT IV: COMPLIANCE MONITORING AND INFRASTRUCTURE</b> <i>Moderator: Victoria Banks, EPA-OW</i>
3:30 pm	<b>Real-Time SCADA Data to Improve Small Systems Operation</b> <i>Regan Murray, EPA-ORD</i>	<b>Deteriorated Distribution System Infrastructure: Potential Implications for Public Health</b> <i>Deborah Vacs-Renwick, EPA-OW</i>
4:00 pm	<b>Chlorinated Cyanurates (Dichlor, Trichlor): Water Chemistry Implications</b> <i>David Wahman, EPA-ORD</i>	<b>Compliance Monitoring Data Portal &amp; SDWIS Prime</b> <i>Darrell Osterhoudt, ASDWA</i>
4:30 pm	<b>Distribution System Optimization</b> <i>Chad Seidel, University of Colorado Boulder, DeRISK Center</i>	<b>Calibration of Field Analytical Instruments and the Importance of QA/QC</b> <i>Steve Baker, Arizona Department of Health Services</i>
5:00 pm	Adjourn	

Thursday, August 24, 2017	
8:00 am	<b>Registration</b> ( <i>Pavillion Ballroom entrance</i> )
8:30 am – 9:30 am	<a href="#">Pavillion Ballroom</a> <b>SESSION 8 – NATIONAL CENTERS FOR INNOVATION IN SMALL DRINKING WATER SYSTEMS</b> <i>Moderator: Thomas Speth, EPA-ORD</i>
8:30 am	<b>The Future Role of Public Universities in Helping to Address State Drinking Water Priorities</b> <i>David Reckhow, University of Massachusetts, WINSSS Director</i>
9:00 am	<b>DeRisk Center for Small Systems</b> <i>R. Scott Summers, University of Colorado Boulder, DeRISK Center Director</i>
9:30 am – 9:45 am	<b>WORKSHOP WRAP-UP</b> <i>Moderator: Michelle Latham, EPA-ORD</i>
9:45 am	Adjourn if not participating in optional afternoon training
10:30 am – 2:00 pm	<a href="#">Pavillion Ballroom</a> <b>SESSION 10 – OPTIONAL TRAINING</b>
10:30 pm	<b>Optimal Corrosion Control Treatment (OCCT)</b> <i>Michael Finn and Victoria Banks, EPA-OW</i>
2:00 pm	Adjourn