

## 13<sup>th</sup> Annual U.S. EPA Drinking Water Workshop Small Drinking Water Systems: Challenges and Solutions August 23-25, 2016 • Hyatt Regency Cincinnati • Cincinnati, OH

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

## **Agenda**

(Last updated: August 12, 2016)

(Last apaated: August 12, 2010)				
Tuesday, August 23, 2016				
7:45 am	Registration (Regency Ballroom Foyer – Third Floor)			
8:30 am	Regency ABC Ballroom Welcome and Introduction Cindy Sonich-Mullin, EPA's Office of Research and Development (EPA-ORD) Peter Grevatt, Ph.D., EPA's Office of Water (EPA-OW)			
9:00 am – 12:00 pm	Session 1: Opening Session  Moderator: Jim Taft, ASDWA			
9:00 am	<b>Keynote Address</b> Protecting our Drinking Water for the Future: A Systems Approach to Protect Public Health Thomas Burke, Ph.D., EPA-ORD			
9:30 am	Next Steps Being Taken on the Lead and Copper Rule (LCR) and the Future of the National Drinking Water Program  Peter Grevatt, Ph.D., EPA-OW			
10:00 am	Break			
10:30 am	"The Sky is Falling" – How Colorado is Responding to Health Advisories for Water Systems that are Serving Perfluorinated Compounds (PFCs)  Tyson Ingels, Colorado Department of Public Health and Environment			
11:00 am	National Toolkit for Legionella Control in Building Water Systems Chris Edens, Ph.D., Centers for Disease Control and Prevention			
11:30 am	Implementing the Revised Total Coliform Rule – Minnesota's Approach for Noncommunity Systems  Chris O'Brien and Paul Felling, Minnesota Department of Health			
12:00 pm	Lunch (on your own)			
1:30 pm – 3:00 pm	Regency A Session 2A – Distribution Systems I: Lead Challenges and Recommendations Moderator: Jeffrey Kempic, EPA-OW	Regency BC Session 2B – Monitoring and Treatment I: Emerging Contaminants Moderator: Greg Carroll, EPA-OW		
1:30 pm	EPA's Optimal Corrosion Control Treatment Technical Recommendations Document and Implementation Perspectives Michael Finn, P.E., EPA-OW	Unregulated Contaminant Monitoring Rule (UCMR3) and Lessons Learned Michael Brinkmiller, EPA-OW		
2:00 pm	Water Quality Challenges in Flint, Michigan: A Chronology and Contributing Factors Darren Lytle, Ph.D., EPA-ORD	PFOA and PFOS: Treatment and Analytics Thomas Speth, Ph.D., EPA-OW and Jody Shoemaker, Ph.D., EPA-ORD		
2:30 pm	Performance and Challenges of Point of Use Devices for Lead Removal Michael Schock, EPA-ORD and Tom Spoden, Water Quality Association	Current EPA Methods for the Analysis of Cyanotoxins in Finished Drinking Water William Adams, Ph.D., EPA-OW		

Tuesday, August 23, 2016 (continued)			
3:00 pm	Break		
3:30 pm – 5:00 pm	Regency A Session 3A – Distribution Systems II: Lead Service Lines Moderator: Victoria Banks, EPA-OW	Regency BC Session 3B – Monitoring and Treatment II: Harmful Algal Blooms and Cyanotoxins Moderator: Michelle Latham, EPA-ORD	
3:30 pm	Making Lemonade: Addressing Lead and Copper Issues Brandon Bowman, Oklahoma Department of Environmental Quality	Algal Toxin Removal Capabilities of Common Treatment Processes Nicholas Dugan, EPA-ORD	
4:00 pm	Incentivizing and Enhancing Lead Line Replacement Jeff Swertfeger, Greater Cincinnati Water Works	Support Tools to Reduce Cyanotoxin-Related Risks in Drinking Water Ryan Albert, Ph.D., EPA-OW	
4:30 pm	Lead Service Line Replacement Program Randall Roost, Lansing Board of Water and Light	Source and Finished Water Monitoring Options and Their Limitations and Benefits  Heather Raymond, Ohio EPA	
5:00 pm	Adjourn		
7:10 pm	Optional Cincinnati Reds vs. Texas Rangers Baseball Game at the Great American Ball Park (Meet at 6:30 pm in the Hyatt Regency first floor lobby)		

	Wednesday, Aug	gust 24, 2016
8:00 am	Registration (Regency Ballroom Foyer – Third Floor)	
8:20 am	Regency BC Instructions for Sessions 4 and 5	
8:30 am – 10:00 am	Session 4 – Ask the Experts and Posters  Posters (Located in the Regency Ballroom Foyer)	
	Experts 1: Revised Total Coliform Rule (RTCR) Buckeye	Experts 4: CCL/UCMR/Health Advisories Regency BC
	Experts 2: LCR and Corrosion Control Regency A	Experts 5: Inorganics Regency F
	Experts 3: Pathogens and Biofilm Regency E	Experts 6: Disinfection and Disinfection Byproducts Regency G
10:00 am – 12:00 pm		
	<u>Group 1 – RTCR</u> : How are states and water systems implementing the RTCR?	<u>Group 4 – Algal Toxins</u> : How are states and water systems handling treatment for algal toxins?
	Group 2 – Lead: How are states and water systems dealing with lead contamination and lead service line replacement?	Group 5 – Technology Acceptance: What is needed to improve acceptance of drinking water technologies?
	Group 3 – Health Advisories: How are states and water systems implementing health advisories in the field?	Group 6 – Communication: How can communications between the states and between EPA and the states be improved?
12:00 pm	Lunch (on your own)	,

Wednesday, August 24, 2016 (continued)		
1:30 pm – 3:00 pm	Regency A Session 6A – Distribution Systems III: Pathogens and Biofilm Moderator: Darrell Osterhoudt, ASDWA	Regency BC Session 6B – Monitoring and Treatment III: Inorganics Moderator: Darren Lytle, Ph.D., EPA-ORD
1:30 pm	Monochloramine Systems for Large Buildings Colin White, University of Cincinnati	Multiple Contaminant Removal by Ion Exchange and Reverse Osmosis  Thomas Sorg, EPA-ORD
2:00 pm	Louisiana's Disinfection Rule – The Current State of Affairs Steven Joubert, Louisiana Department of Health	Fluoride Removal with Activated Alumina Bill Reid, Axens North America
2:30 pm	Ohio's Approach to Addressing <i>Legionella</i> in Drinking Water  Jeff Davidson, Ohio EPA	Controlling Manganese in Treatment Plants and Distribution Systems  Philip Brandhuber, Ph.D., HDR Engineering
3:00 pm	Break	
3:30 pm – 5:00 pm	Regency A Session 7A – Distribution Systems IV: Disinfection and Disinfection Byproducts (DBPs) Moderator: Michael Finn, P.E., EPA-OW	Regency BC Session 7B – Monitoring and Treatment IV: Analytics and Tools Moderator: Thomas Speth, Ph.D., EPA-OW
3:30 pm	Implementation of Stage 2 DBPR Efforts to Reduce DBPs Turner Morrison, North Carolina Department of Environmental Quality	Tools for Small Systems to Evaluate and Select Appropriate Treatment Technologies Bill Hogrewe, Ph.D., Rural Community Assistance Partnership (RCAP)
4:00 pm	Disinfectant Residual – Representative Monitoring and Minimum Residual Implications Jonathan Pressman, Ph.D., EPA-ORD	UCMR3 Virus Monitoring G. Shay Fout, Ph.D., EPA-ORD
4:30 pm	Effects of Raising Minimum Chlorine Residuals on DBPs  Damon Roth, Environmental Enginering & Technology, Inc.	Hydraulic Modeling, SCADA Data, and Analytics to Enhance Distribution System Operations Regan Murray, Ph.D. and Robert Janke, EPA-ORD
5:00 pm	Adjourn	

Thursday, August 25, 2016		
8:00 am	Registration (Regency Ballroom Foyer – Third Floor)	
8:30 am – 10:00 am	Regency ABC Ballroom Session 8 – Crosscutting Issues of Concern Moderator: Jim Taft, ASDWA	
8:30 am	National Centers for Innovation in Small Drinking Water Systems: WINSSS Status Report Bruce Dvorak, Ph.D., University of Nebraska	
9:00 am	National Centers for Innovation in Small Drinking Water Systems: DeRisk Center Status Report Chad Seidel, Ph.D., University of Colorado Boulder	
9:30 am	Overview of Current Actions Scott Randall, NSF International	
10:00 am	Break	
10:15 am – 11:30 am	Regency ABC Ballroom Session 9 – Workshop Wrap-up Moderator: Thomas Sorg, EPA-ORD	
10:15 am	Reports of Breakout Groups (10 minutes discussion on each topic)	
11:15 am	Closing	
11:30 am	Adjourn	
1:00 pm – 2:30 pm	Optional Tour of EPA's Andrew W. Breidenbach Environmental Research Center (Meet at 11:30 am in Regency BC for instructions)	