

# WATERWORKS SCHOOL

## July 9-11, 2024 | Tuesday-Thursday

### Session: Water Operations

### Room: P-131

**Tuesday, July 9, 2024**

	<b>7:00-8:45</b>		<b>REGISTRATION P-165</b>
#1	<b>9:00-10:00</b>	<b>Title:</b>	Opening Announcements/KEYNOTE SPEAKER Steven Hernandez (Water Wise Pro)- <b>Gregory Forum</b>
	<b>10:00-10:20</b>		<b>BREAK</b>
#2	<b>10:20-11:20</b>	<b>Title:</b>	<b>Cathodic Protection vs Corrosion 101</b>
		<b>Presenter:</b>	Miles Hickey
	Assigned to:	<b>Company/Organization:</b>	Norton Corrosion Limited
		<b>Brief Description:</b>	Learn about corrosion, why does it occur, and how is the corrosion rate affected? Discuss Galvanic Cathodic Protection, Impressed Current CP Systems and Cathodic Protection with Water Reservoirs
#3	<b>11:25-12:25</b>	<b>Title:</b>	<b>Three Pillars of TVWD's Cross-connection Control Program</b>
		<b>Presenter:</b>	Kal Howell
	Assigned to:	<b>Company/Organization:</b>	Tualatin Valley Water District
		<b>Brief Description:</b>	This presentation will overview the three main pillars of Tualatin Valley Water District's cross-connection control program – 1) Residential, 2) commercial, and 3) hydrant meters / bulk water. TVWD approaches each pillar with distinct program strategies and procedures, necessitated by the unique characteristics of each group. The presentation will highlight many of the tailored program elements and their benefits of streamlining efforts, increasing compliance, and most importantly, increasing the overall protection of the distribution system. Some of the elements which will be covered are; customer communication and outreach, subscription-based and enforcement backflow assembly testing, commercial inspections, hydrant meter backflow prevention, water tank truck inspections, and more.
	<b>12:25-1:10</b>		<b>Lunch</b>
#4	<b>1:10-2:10</b>	<b>Title:</b>	<b>Emergency Preparedness</b>
		<b>Presenter:</b>	Chantal Wilkstrom, REHS
	Assigned to:	<b>Company/Organization:</b>	OHA Drinking Water Services
		<b>Brief Description:</b>	Emergency Response and Planning Guidance for Water Systems
#5	<b>2:15-3:15</b>	<b>Title:</b>	<b>Disaster Messaging, Public Alerts, and Drinking Water Advisory Tool</b>
		<b>Presenter:</b>	Bonny Cushman, Program Manager
	Assigned to:	<b>Company/Organization:</b>	Regional Water Provider's Consortium
		<b>Brief Description:</b>	Information, updates, and how to's
	<b>3:15-3:30</b>		<b>BREAK</b>

#6	3:30-4:30	<b>Title:</b>	<b>Clackamas Community College Tunnel Tour</b>
		<b>Presenter:</b>	
	Assigned to:	<b>Company/Organization:</b>	Clackamas Community College
		<b>Brief Description:</b>	Take a tour of Clackamas Community College's underground pipe gallery and tunnels. Learn the history of the campus water distribution system, cross-connections, and backflow assemblies and how it has changed over time. Limited to 12 people/tour.
<b>Wednesday, July 10, 2024</b>			
#7	8:00-9:00	<b>Title:</b>	<b>Pipes 101- How Boring Could That Be?</b>
		<b>Presenter:</b>	David Jacob PE
	Assigned to:	<b>Company/Organization:</b>	Hydra Engineering
	JJ	<b>Brief Description:</b>	Types, sizes, strengths, weaknesses, installation, decommissioning, repair, longevity, and risks.
#8	9:05-10:05	<b>Title:</b>	<b>Bench Testing &amp; Field Activities to Identify Distribution Destabilization Risk</b>
		<b>Presenter:</b>	Virpi Salo-Zieman, P.E.
	Assigned to:	<b>Company/Organization:</b>	Confluence Engineering Group
		<b>Brief Description:</b>	Using Bench-Scale Testing and Field Activities to Identify Distribution System Destabilization Risks from Water Supply and Treatment Changes
	10:05-10:20		<b>BREAK</b>
#9	10:20-11:20	<b>Title:</b>	<b>Setting up for Success: The City of Hillsboro's Comprehensive Approach to Pipeline Replacement Project Prioritization</b>
		<b>Presenter:</b>	Negar Niakan, Engineering Manager
	Assigned to:	<b>Company/Organization:</b>	City of Hillsboro Water
		<b>Brief Description:</b>	Need • Documented corrosion and leaks along existing aging pipeline Goal • Develop prioritized pipeline replacement plan Scope • Evaluate pipeline condition, develop business case evaluation plan, & prioritize individual segments for replacement
#10	11:25-12:25	<b>VENDOR DISPLAY-Gregory Forum</b>	
	12:25-1:10		<b>Lunch</b>
#11	1:10-2:10	<b>Title:</b>	<b>Water Distribution Management Systems</b>
		<b>Presenter:</b>	Matt Zellers, Metrology Territory Manager
	Assigned to:	<b>Company/Organization:</b>	Mueller
		<b>Brief Description:</b>	Quantifying an Innovative Approach to Improve Water Loss and Carbon Footprint
#11	2:15-3:15	<b>Title:</b>	<b>Creating a good Safety Culture!</b>
		<b>Presenter:</b>	Mike Jacobs
	Assigned to:	<b>Company/Organization:</b>	Special District Association of Oregon

#12		<b>Brief Description:</b>	Whenever you have people in one place working toward a common goal, a culture is developed which plays a strong role in determining the productivity levels and happiness of your employees. Developing a safety culture assists in helping to make sure that your staff are happy and productive. We will discuss what a good safety culture this looks like and ideas for creating or maintaining it.
	3:15-3:30		<b>BREAK</b>
#13	3:30-4:30	<b>Title:</b>	<b>Clackamas Community College Tunnel Tour</b>
		<b>Presenter:</b>	
	Assigned to:	<b>Company/Organization:</b>	Clackamas Community College
		<b>Brief Description:</b>	Take a tour of Clackamas Community College's underground pipe gallery and tunnels. Learn the history of the campuses water distribution system, cross-connections, and backflow assemblies and how it has changed over time. Limited to 12 people/tour.
<b>Thursday, July 11, 2024</b>			
#14	8:00-9:00	<b>Title:</b>	<b>Arc Flash Awareness</b>
		<b>Presenter:</b>	Barry Moreland
	Assigned to:	<b>Company/Organization:</b>	NECA-IBEW Electrical Training Center - Safety Director
		<b>Brief Description:</b>	This class will focus on electrical hazard identification and risk assessment strategies using the NFPA 70E, Standard for Electrical Safety in the Workplace, 2024 edition. 70E includes the latest information about the effects of arc flash, arc blast, AC/DC shock hazards and new developments in electrical design, maintenance requirements, labeling and personal protective equipment. The standard aids employers in compliance with OSHA's CFR 29, 1910 General Industry, Subpart S, electrical regulations.
#15	9:05-10:05	<b>Title:</b>	<b>Get the Lead Out!</b>
		<b>Presenter:</b>	Andrew Degner, Wastewater Division Manager
	Assigned to:	<b>Company/Organization:</b>	City of Gresham
		<b>Brief Description:</b>	Gresham's experience with the Lead Service Line Inventory requirement from the beginning
	10:05-10:20		<b>BREAK</b>
#16	10:20-11:20	<b>Title:</b>	<b>Oregon City Henrici Reservoir Rehabilitation - Extending the Service Life of a Welded Steel Potable Water Storage Tank</b>
		<b>Presenter:</b>	Matt Hickey, P.E. and Justin Ford, P.E.
	Assigned to:	<b>Company/Organization:</b>	Conсор Engineering
		<b>Brief Description:</b>	Describe the importance of these facilities in water systems • Discuss some of the different styles of elevated tanks • Outline Assessments and Improvements to keep these critical facilities resilient and operational
#17	11:25-12:25	<b>Title:</b>	<b>Lead Service Line Inventories and LCRI</b>
		<b>Presenter:</b>	Kari Salis, P.E. Technical Manager
	Assigned to:	<b>Company/Organization:</b>	OHA Drinking Water Services
		<b>Brief Description:</b>	Lead service line inventory guidance and an update on proposed Lead and Copper Rule Improvements.
	12:25-1:10		<b>Lunch</b>
	1:10-2:10	<b>Title:</b>	<b>Water System Surveys and Significant Deficiencies</b>
		<b>Presenter:</b>	Michelle Byrd, Data Mgmt., Compliance & Enforcement Unit Manager

#18	Assigned to:	<b>Company/Organization:</b>	OHA Drinking Water Services
		<b>Brief Description:</b>	The water system survey process - how to prepare, on-site reviews, correcting significant deficiencies, and how to achieve outstanding performance.
#19	2:15-3:15	<b>Title:</b>	<b>Operator Certification Part 1</b>
		<b>Presenter:</b>	Tony Fields, R.E.H.S.
	Assigned to:	<b>Company/Organization:</b>	OHA Drinking Water Services
		<b>Brief Description:</b>	
	3:15-3:30		<b>BREAK</b>
#20	3:30-4:30	<b>Title:</b>	<b>Operation Certification Part 2</b>
		<b>Presenter:</b>	Tony Fields, R.E.H.S.
	Assigned to:	<b>Company/Organization:</b>	OHA Drinking Water Services
		<b>Brief Description:</b>	