

June 21st, 22nd, 23rd, 28th, and the 29th.

Tuesday, June 21, 2022			
	7:45-8:00am		Opening Announcements
#1	8:00-9:00am	Title:	An overview of the American Water Works Association (AWWA)
		Presenter:	Michelle Cheek
		Company/Organization:	City of Portland
		Brief Description:	Michelle will be providing an overview of the American Water Works Association (AWWA) as well as opportur benefits of getting involved at the local level through the Pacific Northwest Section and subsections.
	9:00-9:10am		BREAK
#2	9:10-10:10am	Title:	Hypochlorite for Water Disinfection
		Presenter:	Ethan Brooke
	Assigned to:	Company/Organization:	UGSI Solutions, Inc.
	Jen	Brief Description:	science and implementation behind on-site sodium hypochlorite generation (OSHG) as a source of chlorine di:
	10:10-10:25am		BREAK
#3	10:25-11:25am	Title:	Understanding How Your Distribution System is Performing Using State-of-the-Art Sensors
		Presenter:	Mike Uthe, M. Eng
	Assigned to: Bill	Company/Organization:	Mueller
	Chris	Brief Description:	By using fire hydrants and battery powered state-of-the-art sensors, operations will be able to understand ho distribution system is performing and be proactive rather than reactive. With 24/7 monitoring platforms utilit able to plan strategically rather than on urgency. They can record and display data including pressure, flow, le and pH and then make informed decisions to control assets on their own terms. Asset management is only as data that is available, and this presentation will focus on how to collect the data, but also how to use it to imp service to their customers and plan for the future.
	11:25-11:35am		BREAK
#4	11:35am-12:35pm	Title:	Building a UDF Program
		Presenter:	Christy Suto
	Assigned to: Bill	Company/Organization:	Portland Water Bureau
	Jen	Brief Description:	The Portland Water Bureau (PWB) operates 2,500 miles of distribution system which consists of a variety of p materials, pipe ages, and conditions. Additionally, as an unfiltered system, the distribution system has continu received sediment loading during the more than 100 years of operation. Over the next eight years PWB plans the distribution system with a variety of tools including unidirectional flushing (UDF), in preparation of the ne treatment facility. This presentation will discuss the challenges related to expanding a small UDF program to a program including purchasing/incorporating a UDF module for hydraulic modeling, implementing new BMPs I WaterRF project to revise flushing methods and benchmarks, hiring new staff and developing new program ge while operating a complex distribution system which serves drinking water to close to one million customers.
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	7:45-8:00am		Opening Announcements
#5	8:00-9:00am	Title:	Where Drinking Water Meets Stormwater
		Presenter:	Kim Swan
	Assigned to:	Company/Organization:	Clackamas River Water providers
		Brief Description:	The Clackamas River Water Providers (CRWP) is a coalition of water providers that get their drinking water fro Clackamas River, which combined provide drinking water to over 300,000 people in Clackamas and Washingtc The organization is made up of representatives from the City of Estacada, City of Lake Oswego, City of Tigard, River Water (District), the North Clackamas County Water Commission (Oak Lodge Water Services, City of Glar
	9:00-9:10AM		BREAK
#6	9:10-10:10AM	Title:	Life After YP – An Elder Millennial Taking the Next Steps
		Presenter:	Andrew Nishihara
	Assigned to:	Company/Organization:	Stantec
	Jen	Brief Description:	are wrapping up their transition from being young professionals to the next phase in their careers. Not quite s
	10:10-10:25AM		BREAK
#7	10:25-11:25AM	Title:	The Value of Connection
		Presenter:	Rebecca Geisen, Managing Director
	Assigned to:	Company/Organization:	Rgional Water Providers Consortium
	Chris	Brief Description:	challenged water providers over the last year and a half. This presentation will focus on the role the Regional'
	11:25-11:35AM		BREAK
#8	11:35AM-12:35PM	Title:	Emerging Contaminants in Drinking Water
		Presenter:	Gregg Baird
	Assigned to:	Company/Organization:	Oregon Health Authority

	Jen		Brief Description: This presentation will provide an overview of emerging contaminants in drinking water including those that are a particular concern in Oregon.
Thursday, June 23, 2022			
	7:45-8:00am		Opening Announcements
#9	8:00-9:00am	Title:	Leadership the Dirty Secrets They Didn't Tell You
	Assigned to:	Presenter:	Kathy McAlpine
	Jen	Company/Organization:	City of Tigard
		Brief Description:	Leadership begins before you have the formal title or positional power. How to prepare for leadership, how to continue as a leader, and how to thrive. With 35 years of law enforcement experience and 25 years in supervision/leadership, I will share lessons learned (both positive and negative) that will hopefully provide context to your personal journey into supervisory leadership or continue to build upon your current foundation.
	9:00-9:10AM		BREAK
#10	9:10-10:10AM	Title:	Communicating with Engineers – Getting Non-Communicators to Understand the Real World
		Presenter:	Mike Grimm
	Assigned to:	Company/Organization:	West Slope Water District
		Brief Description:	How can engineers help operators and operators help engineers without stumbling over each other? This session will explore ways operators can select and work with engineers to achieve a common goal and bring value and optimized efficiency to the system.
	10:10-10:25AM		BREAK
#11	10:25-11:25AM	Title:	OHA Updated Emergency Response Plan Requirements
		Presenter:	Chantal Wikstrom
	Assigned to:	Company/Organization:	OHA Drinking Water Services
	Chris	Brief Description:	OHA's Drinking Water Services has developed new emergency response and planning requirements for Oregon utilities. Participants will learn how the new requirements impact their utilities, how they can better respond to emergencies, and how to develop an emergency response plan. This presentation is recommended for managers, operators, administrative staff, water quality staff and board members.
	11:25-11:35AM		BREAK
#12	11:35AM-12:35PM	Title:	HOLD
		Presenter:	Beth McGinnis and Mel Damewood
	Assigned to:	Company/Organization:	CRW & West Yost
	Chris	Brief Description:	"Security Planning after the initial RRA – Pump Stations & Reservoirs" Presenters: Beth McGinnis, MPH, ORCEI Emergency Manager, Clackamas River Water. Mel Damewood III, P.E., West Yost, Eugene, OR Abstract: Water utilities are subject to new policies regarding risk and resiliency planning. Born from the 2018 AWIA legislation, CRW undertook a project to understand the risks to various assets in the utility enterprise. The level of security enterprise management practices at CRW for pump stations and reservoirs was inventoried during the original RRA process and programmatic recommendations for improvement were made. However, there are no current industry best practices that allow for easy benchmarking of facilities. This session will guide you through our expanded project to develop a weighted formula to calculate a risk quotient for pump stations and reservoirs, our scoring outcomes for CRW along with the recommended security levels & associated interventions needed to bring these assets into best practice level operations.
Tuesday, June 28, 2022			
	7:45-8:00am		Opening Announcements
#13	8:00-9:00am	Title:	Development of a Drinking Water Internship Program (DRIP)
		Presenter:	Chris Wilson
	Assigned to:	Company/Organization:	Joint Water Commission
	JJ	Brief Description:	There is a critical and unprecedented shortage of experienced staff in the water workforce. According to the EIA, the shortage will only worsen in the next ten years, as approximately 1/3 of water and wastewater operators will be retiring for retirement. This issue is compounded by fewer young people entering the field. The recent closure of a Water Training Program will intensify the issue in the Pacific Northwest (PNW), and the fact that several new treatment plants will be coming online will only increase the need for water sector staff. This prompted several local utilities, counties and a community college to create a group to focus on solutions to this shortage with the goal of creating a more robust water workforce in the PNW. Strategies being developed include increasing awareness of water industry careers, boosting recruitment, and providing paid internships. We will discuss our actions to date, partnerships formed and applied for, and our plan moving forward.
	9:00-9:10am		BREAK
#14	9:10-10:10am	Title:	Identify strengths and weaknesses of an emergency response plan
		Presenter:	Sarah Stalder and Jessica Dorsey
	Assigned to:	Company/Organization:	City of Hillsboro

			<p>The increasing frequency and intensity of Harmful Algal Blooms (HABs) globally is a serious concern for managed freshwater systems, especially in regards to public health. Given the rise in occurrences of Cyanobacterial Harmful Algal Blooms (HABs) in drinking water sources, such as the Joint Water Commission (JWC), are tasked with implementing response plans to protect public health. Following the Cyanobacterial HAB in Salem, OR in 2018 the JWC revised its algal response plan for their source water supplies. This plan was put into action during a bloom of toxin-producing cyanobacteria, <i>Aphanizomenon flos-aquae</i>, in Scoggins Reservoir in April 2019. Although toxins were never detected at the JWC water treatment plant (WTP) raw water intake, the plan was a valuable tool for monitoring and assessing the treatment process and public safety. The results from this investigation also identified gaps in the WTPs ability to properly remove any toxins that may enter the plant which prompted a study to determine the impacts of point-of-entry activated carbon on cyanotoxin removal from the JWC's raw surface water supply. Overall, the 2019 cyanobacterial bloom in Scoggins Reservoir proved to be an important but successful test of the JWC's overall preparedness for protecting public health during future HABs.</p>
	10:10-10:25AM		
#15	10:25-11:25am	Title:	EPA CREAT Tool Presentation
		Presenter:	Steve Fries
	Assigned to:	Company/Organization:	U.S. Environmental Protection Agency
			<p>Climate Resilience Evaluation and Awareness Tool (CREAT) Risk Assessment Application for Water Utilities What is CREAT? CREAT is a tool that assists water sector utilities in assessing climate-related risks to utility assets and operations. Throughout CREAT's five modules, users consider climate impacts and identify adaptation options to increase resilience. The modules are:</p> <ol style="list-style-type: none"> 1. Climate Awareness: Provide basic utility information; increase awareness of climate impacts; 2. Scenario Development: Understand utility risk; design scenarios of threats based on climate data; 3. Consequences and Assets: Outline potential consequences; catalog critical assets; 4. Adaptation Planning: Inventory current actions that provide resilience; design adaptation plans; and 5. Risk Assessment: Assess risk from a changing climate; compare risk reduction of adaptation plans. <p>Incorporating CREAT results into best management practices and capital investment decisions builds stakeholder confidence that a utility is being proactive in identifying significant climate-related risks.</p>
	11:25-11:35am		
#16	11:35am-12:35pm	Title:	Engaging O&M Staff to Improve the Design of the Bull Run Filtration Facility
		Presenter:	Bill Carr
	Assigned to:	Company/Organization:	Carollo
	JJ	Brief Description:	<p>planning, pre-design, and design. The engagement plan is designed to include utility operation and maintenance personnel in key meetings, provides opportunities for design review and comment, and key roles in maintenance operations planning. The listener will take away strategies for engaging O&M personnel in their facility design efforts, and strategies for providing useful contributions to design efforts (for operators and maintenance engineers), and strategies for providing useful contributions to design efforts (for operators and maintenance engineers).</p>
Wednesday, June 29, 2022			
	7:45-8:00am		
#17	8:00-9:00am	Title:	ShakeAlert Earthquake Early Warning - Beyond the Basics (Optimization and Enhancements)
		Presenter:	Dan Ervin
	Assigned to:	Company/Organization:	Varius Inc.
	Jen	Brief Description:	<p>The ShakeAlert earthquake early warning system is now in use in several northwest water systems and is helping protect lives and millions of dollars of facility assets. This presentation will describe how the ShakeAlert earthquake early warning system can be optimized to provide even more benefits and to improve system operation after a dam earthquake. Topics include; filtering and preventing false alarms, improving SCADA security and air-gap protection,</p>
	9:00-9:10am		BREAK
#18	9:10-10:10am	Title:	Automatic Facility Damage Assessment – New Technologies
		Presenter:	Dan Ervin
	Assigned to:	Company/Organization:	Varius Inc.
	Jen	Brief Description:	<p>Recent advancements in earthquake early warning technology can now be used to automatically detect and identify damage in water and sewer system facilities following natural disasters; like earthquakes, landslides, and wind. Through the addition of inexpensive and easy to install sensors, you can now get automatic facility assessment notifications on your mobile device or via email. These sensors can detect structural damage in your reservoirs, pipe failures in your pump stations, and damage in your piping systems all without having to visit the site or make an inspection. This is especially valuable capability after a large earthquake when your staff may be compromised and mobility may be difficult. This presentation will discuss how this new technology works, how it can be beneficial in the water and wastewater industry and how you can fund and operate this new and exciting capability.</p>
	10:10-10:25am		BREAK
#19	10:25-11:25am	Title:	Service Line Inventory Requirements of the LCRR (Lead and Copper Rule Revision)
		Presenter:	Kari Salis
	Assigned to:	Company/Organization:	OHA-DWS
		Brief Description:	<p>An inventory of all public and private service lines is required to be completed by October 2024. Learn what data is gathered, what methods will be allowed, and what assistance is available.</p>

	11:25-11:35am		
#20	11:35-12:35am	Title:	Funding through Oregon's DWSRF and the New BIL Programs
		Presenter:	Adam Desemple and Jon Unger
	Assigned to:	Company/Organization:	Oregon Health Association