

WHEN

Tuesday, June 21, 2022 at 8:00 AM PDT

Wednesday, June 29, 2022 at 12:35 PM PDT Add to Calendar

View preliminary schedule here.

WHERE

This is an online event. Please check your confirmation email for your event link.

CONTACT

CCC Dept. of Water and Environmental Technology Clackamas Community College 503-594-3345 wet@clackamas.edu

OVERVIEW

Join us for the Northwest Oregon Subsection AWWA Waterworks School hosted via Zoom by Clackamas Community College.

This event provides training for water system operators in four core sections:

- Basics
- Distribution & Maintenance
- Water Quality & Treatment
- Supervision & Leadership

This online event provides the registered participant the opportunity to gain a full 2.0 CEUs, which satisfies the state requirement for two years of continuing education.

PRICING

Attendees may register for 1-5 mornings of virtual sessions from 8 a.m. – 12:35 p.m. on June 21-23 and 28-29th

- 1 day: members \$50, non-members \$60
- 2 day: members \$100, non-members \$120
- 3 day: members \$150, non-members \$180
- 4 day: members \$200, non-members \$240
- 5 day: members \$250, non-members \$300

REGISTRATION

Registration is open until June 20, 2022.

Upon successful registration, attendees will receive a link to access the Zoom meeting. We are not able to offer bulk registration at this time, as virtual attendance tracking for CEUs requires individual participant information.

SCHEDULE

1 of 2 5/24/2022, 11:52 AM

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

Tuesday, June 21	1, 2022		
	7:45-8:00am		Opening Announcements
#1	8:00-9:00am	Title:	HOLD FOR KEYNOTE
		Presenter:	Michelle Cheek
	Com	pany/Organization:	City of Portland
		Brief Description:	Michelle will be providing an overview of the American Water Works
	9:00-9:10am		BREAK
#2	9:10-10:10am	Title:	Vibration Analysis Introduction
		Presenter:	Greg Brown
	Assigned to:	any/Organization:	Ititechnologies
		Brief Description:	
	10:10-10:25am		BREAK
#3	10:25-11:25am	Title:	
		Presenter:	
	Assigned to:Bill	any/Organization:	
		Brief Description:	
	11:25-11:35am		BREAK
#4	11:35am-12:35pm	Title:	Restoring Water System Confidence with CIPP
		Presenter:	Brendan O'Sullivan
	Assigned to: Bill	any/Organization:	
		Brief Description:	critical water main in their distribution system. Installed in 1947, the water main was
Wednesday, Jun	e 22, 2022		
	7:45-8:00am		Opening Announcements
#5	8:00-9:00am	Title:	
		Presenter:	
	Assigned to:	any/Organization:	
		Brief Description:	
	9:00-9:10AM		BREAK
#6	9:10-10:10AM	Title:	Checking In With Check Valves: Design and Selection
		Presenter:	Steve Causseaux
	Assigned to:	any/Organization:	Cimco-GC Systems

		Brief Description:	
	10:10-10:25AM		BREAK
#7	10:25-11:25AM	Title:	Seeing Purple: Final Design of the City of Beaverton's Non-potable Water System fc
		Presenter:	Ronan Igloria
	Assigned to:	npany/Organization:	
		Brief Description:	
	11:25-11:35AM		BREAK
#8	11:35AM-12:35PM	Title:	Seismic Resiliency for WWSP
		Presenter:	Mike Britch
	Assigned to:	npany/Organization:	Willamette Water Supply Program
		Brief Description:	seismic resiliency into its projects in a variety of ways. Projects include both
Thursday, Ju	ne 23, 2022		
	7:45-8:00am		
#9	8:00-9:00am	Title:	
	Assigned to:	Presenter:	
	Cor	npany/Organization:	
		Brief Description:	
	9:00-9:10AM		BREAK
#10	9:10-10:10AM	Title:	
		Presenter:	
	Assigned to:	npany/Organization:	
		Brief Description:	
	10:10-10:25AM		BREAK
#11	10:25-11:25AM	Title:	
		Presenter:	
	Assigned to:	npany/Organization:	
		Brief Description:	
	11:25-11:35AM		BREAK
#12	11:35AM-12:35PI	Title:	
		Presenter:	Tara Vanderwey
	Assigned to:	npany/Organization:	TVWD
		Brief Description:	

Tuesday, June 28, 20)22		
	7:45-8:00am		Opening Announcements
#13	8:00-9:00am	Title:	
		Presenter:	
	Assigned to:	npany/Organization:	
		Brief Description:	
	9:00-9:10am		BREAK
#14	9:10-10:10am	Title:	Extending the Life of Your Concrete Tanks
		Presenter:	Daniel Gancher
	Assigned to:	npany/Organization:	DN Tanks
		Brief Description:	
	10:10-10:25AM		BREAK
#15	10:25-11:25am	Title:	Ritz Safety
		Presenter:	Greg Mcdonald
	Assigned to:	npany/Organization:	
		Brief Description:	
	11:25-11:35am		BREAK
#16	11:35am-12:35pm	Title:	
		Presenter:	
	Assigned to:	npany/Organization:	
		Brief Description:	
Wednesday, June 29	, 2022		
	7:45-8:00am		Opening Announcements
#17	8:00-9:00am	Title:	
		Presenter:	
	Assigned to:	npany/Organization:	
		Brief Description:	
	9:00-9:10am		BREAK
#18	9:10-10:10am		Cross Connection Program
		Presenter:	Kahlil Howell
	Assigned to:	npany/Organization:	TVWD
		Brief Description:	

	10:10-10:25am		BREAK
#19	10:25-11:25am	Title:	
		Presenter:	
	Assigned to:	npany/Organization:	
		Brief Description:	
	11:25-11:35am		BREAK
#20	11:35-12:35am	Title:	
		Presenter:	
	Assigned to:	npany/Organization:	
		Brief Description:	

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#1	8:00-9:00am	Title	HOLD FOR KEYNOTE	Presented last year? (Y/N)		
		Presenter	Michelle Cheek	n	Phone:	
		Company/Organization	City of Portland		Email:	michelle.cheek@portlandoregon.gov
						Michelle Cheek is the current Chair of the Pacific
						Northwest Section of AWWA. Michelle has over
						20 years experience in the water industry and is
						currently the Deputy Program Director for the
			Michelle will be providing an overview of the American Water Works Association (AWWA) as well as opportunities and benefits of			Portland Water Bureau's Bull Run Treatment
		Brief Description	getting involved at the local level through the Pacific Northwest Section and subsections.		Notes:	Projects.
	9:00-9:10am		BREAK	Presented last year? (Y/N)		Contact Info
			On-Site Sodium Hypochlorite Generation as a Safe and Efficient Alternative to Chlorine Gas or Commercial Strength Bulk			
#7	9:10-10:10am	Title	Hypochlorite for Water Disinfection	l _v	Phone:	
#2	J.10-10.10am		Ethan Brooke	У	Email:	
	*					
	Assigned to:	Company/Organization			Notes:	
			This 60-minute seminar will provide water system managers, operators and engineers a practical understanding of the science and			
			implementation behind on-site sodium hypochlorite generation (OSHG) as a source of chlorine disinfection capacity for water and			
	Jen	Brief Description	wastewater plants as well as distributed well systems.			
	10:10-10:25am		BREAK	Presented last year? (Y/N)		Contact Info
#3	10:25-11:25am	Title	Understanding How Your Distribution System is Performing Using State-of-the-Art Sensors	Confirmed: YES	Phone: 406-223-2192	
			Mike Uthe, M. Eng		Email: MUthe@muellerwp.com	
	Assigned to:Bill	Company/Organization			Notes:	
			By using fire hydrants and battery powered state-of-the-art sensors, operations will be able to understand how their distribution			1
			system is performing and be proactive rather than reactive. With 24/7 monitoring platforms utilities will be able to plan strategically	1		
				1		
			rather than on urgency. They can record and display data including pressure, flow, leak, chlorine and pH and then make informed			
			decisions to control assets on their own terms. Asset management is only as good as the data that is available, and this			
			presentation will focus on how to collect the data, but also how to use it to improve service to their customers and plan for the			
	Chris	Brief Description				
	11:25-11:35am		BREAK			
#4	11:35am-12:35pm	Title	Building a UDF Program	Confirmed	Phone:	
		Presenter	Christy Suto	Presented last year	Email:	
	Assigned to: Bill	Company/Organization		,	Notes:	
	rissigned to: biii	company/ organization	The Portland Water Bureau (PWB) operates 2,500 miles of distribution system which consists of a variety of pipe materials, pipe	Pre-Recorded:	https://youtu.be/NVVxF1XvSOM	
			ages, and conditions. Additionally, as an unfiltered system, the distribution system has continuously received sediment loading	Fre-Recorded.	III. (DS.// YOULU.DE/NV VXF1XV3OIVI	
			during the more than 100 years of operation. Over the next eight years PWB plans to clean the distribution system with a variety of			
			tools including unidirectional flushing (UDF), in preparation of the new filtration treatment facility. This presentation will discuss the			
			challenges related to expanding a small UDF program to a large-scale program including purchasing/incorporating a UDF module fo	1		
1			hydraulic modeling, implementing new BMPs learned in a WaterRF project to revise flushing methods and benchmarks, hiring new			
			staff and developing new program goals all while operating a complex distribution system which serves drinking water to close to			
	Jen	Brief Description	staff and developing new program goals all while operating a complex distribution system which serves drinking water to close to			
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			As more and more people from generation z (zoomers) start to enter the workforce it also means that elder millennials are			
			wrapping up their transition from being young professionals to the next phase in their careers. Not quite seasoned professionals			
			like baby boomers and gen x mentors, some are on the fast-track to being supervisors or leaders of their companies or utilities. This presentation will provide some stories and experiences from elder millennials who have made the transition and things they wish			
			they knew when they were YPs. It will also cover some of the differences in communication styles and challenges presented from			
	len		having four generations in the workforce.			
	10:10-10:25AM		BREAK			
#7	10:25-11:25AM		The Value of Connection	Confirmed: YES	Phone:	
	10.25 11.25/101		Rebecca Geisen, Managing Director	Committee: 125	Email: Rebecca.Geisen@portlandoregon.gov	,
	Assigned to:		Rgional Water Providers Consortium			Vater Providers Consortium, responsible for ma
	r see green to		COVID-19, a historic ice storm, wildfires, power outages, legionella, chlorine shortage, drought, and more, have all challenged wate			, , , ,
			providers over the last year and a half. This presentation will focus on the role the Regional Water Providers Consortium played in			
			helping its 24 water provider members successfully navigate these challenges and the importance of regional collaboration in			
			mitigating risk and building resilience. Learn how water providers worked together to minimize impacts to water systems and			
			customers by using regional messaging campaigns, system interconnections, established networks and other regional tools and			
			resources. The presentation will focus on tools and strategies to improve management of water and wastewater systems by			
	Chris		learning about the importance of partnerships, collaboration and planning.			
	11:25-11:35AM		BREAK			
#8	11:35AM-12:35PM		Emerging Contaminants in Drinking Water	Confirmed		
			Gregg Baird	Presented last year		
	Assigned to:	Company/Organization:	Oregon Health Authority This presentation will provide an overview of emerging contaminants in drinking water including those that are of particular			
		Daire Danasiation				
Thursday, June 23, 2022	Jell	briei Description:	concern in Oregon.			
mursuay, June 25, 2022	7:45-8:00am		Opening Announcements			
#9	8:00-9:00am		Leadership the Dirty Secrets They Didn't Tell You			
	Assigned to:		Kathy McAlpine			
	len	Company/Organization:				
	Jen	company, organization.	Leadership begins before you have the formal title or positional power. How to prepare for leadership, how to continue to develop as a leade			
			and how to thrive. With 35 years of law enforcement experience and 25 years in supervision/leadership, I will discuss lessons learned (both			
			positive and negative) that will hopefully provide context to your personal journey into supervision and leadership or continue to build upon			
			your current foundation.			
	9:00-9:10AM		BREAK			
#10	9:10-10:10AM		Communicating with Engineers – Getting Non-Communicators to Understand the Real World		Phone:	
			Mike Grimm		Email:	
	Assigned to:	Company/Organization:	West Slope Water District How can engineers help operators and operators help engineers without stumbling over each other? This session will explore helpful ways opera		Notes:	Bio-General Manager, West Slope Water Distri
		Brief Description:	can select and work with engineers to achieve a common goal and bring value and optimized efficiency to a water system.			
	10:10-10:25AM					
			BREAK			
#11	10:25-11:25AM		BREAK OHA Updated Emergency Response Plan Requirements		Phone: (971) 666-8512	
#11		Title:	DILLAN	Confirmed: YES	Phone: (971) 666-8512 Email: Chantal.T.Wikstrom@dhsoha.state.or	r.us
#11		Title: Presenter:	OHA Updated Emergency Response Plan Requirements	Confirmed: YES	Email: Chantal.T.Wikstrom@dhsoha.state.or	r.us urce management and disaster risk reduction d
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			The increasing frequency and intensity of Harmful Algal Blooms (HABs) globally is a serious concern for managers of freshwater			
			systems, especially in regards to public health. Given the rise in occurrences of Cyanobacterial HABs, managers of drinking water			
			sources, such as the Joint Water Commission (JWC), are tasked with implementing HAB response plans to protect public health.			
			Following the Cyanobacterial HAB in Salem, OR in 2018 the JWC revised their algal response plan for their source water supplies.			
			This plan was put into action during a bloom of toxin-producing cyanobacteria, Aphanazomenon flos-aquae, 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 risks to 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 powdered activated carbon on cyanotoxin removal from the JWC's raw surface water supply. Overall, the 2019 cyanobacterial			
			HAB in Scoggins Reservoir proved to be an important but successful test of the JWC's overall preparedness for protecting public			
		Brief Description:	health during future HABs.			
	10:10-10:25AM					
#15	10:25-11:25am	Title:			Phone:	
		Presenter:			Email:	
	Assigned to:	Company/Organization			Notes:	
		Brief Description:				
	11:25-11:35am					
#16	11:35am-12:35pm	Title:			Phone:	
	· ·	Presenter:			Email:	
	Assigned to:	Company/Organization			Notes:	
		Brief Description:				
Wednesday, June 29, 2022		<u> </u>				
	7:45-8:00am					
#17	8:00-9:00am	Title:	ShakeAlert Earthquake Early Warning - Beyond the Basics (Optimization and Enhancements)		Phone:	Phone:425.269.8479
		Presenter:	Dan Ervin	Presented last year	Email:	Email:dan.ervin@variusinc.com
	Assigned to:	Company/Organization	Varius Inc.	·	Notes:	Notes:
			The ShakeAlert earthquake early warning system is now in use in several northwest water systems and is being used to protect lives			Dan is Vice President of Varius Inc, a
			and millions of dollars of facility assets. This presentation will describe how the ShakeAlert earthquake early warning system can be			municipal consulting engineering company
			optimized to provide even more benefits and to improve system operation after a damaging quake. Topics include; filtering and			specializing in the application of earthquake
			preventing false alarms, improving SCADA security and air-gap protection, automated damage assessment and return to normal			early warning technology in northwest water
			protocols, post-quake triage and automated response plan integration and control optimization in a compromised water system			and sewer systems. Dan has over 35 years'
	Jen	Brief Description:	and others.			experience as a consulting engineer in
	9:00-9:10am	,	BREAK			
#18	9:10-10:10am	Title:	Automatic Facility Damage Assessment – New Technologies		Phone:	Phone:425.269.8479
		Presenter:		NEW	Email:	Email:dan.ervin@variusinc.com
	Assigned to:	Company/Organization	Varius Inc.		Notes:	Notes: NEW PRESENTAITON
		1. 11. 0.	Recent advancements in earthquake early warning technology can now be used to automatically detect and identify damage in			Dan is Vice President of Varius Inc, a
			water and sewer system facilities following natural disasters; like earthquakes, landslides, and windstorms. Through the addition of			municipal consulting engineering company
			inexpensive and easy to install sensors, you can now get automatic facility assessments within seconds on your mobile device or via			specializing in the application of earthquake
			email. These sensors can detect structural damage in your reservoirs, pending failures in your pump stations, and damage in your			early warning technology in northwest water
			piping systems all without having to visit the site or make an inspection. This is especially valuable capability after a large			and sewer systems. Dan has over 35 years'
			earthquake when your staff may be compromised and mobility may be difficult. This presentation will discuss how this new			experience as a consulting engineer in
			technology works, how it can be beneficially applied in the water and wastewater industry and how you can fund and operate this			integrating leading-edge control concepts
	len	Brief Description:	new and exciting capability.			into water and sewer control systems and
	10:10-10:25am		BREAK			
#19	10:25-11:25am	Title:	Service Line Inventory Requirements of the LCRR (Lead and Copper Rule Revision)		Phone:	
		Presenter:		NEW	Email:	
	Assigned to:	Company/Organization			Notes:	
		1. 11. 0.	An inventory of all public and private service lines is required to be completed by October 2024. Learn what data must be gathered,			
		Brief Description:	what methods will be allowed, and what assistance is available.			
	11:25-11:35am					
#20	11:35-12:35am	Title:			Phone:	
		Presenter:			Email:	
	Assigned to:	Company/Organization			Notes:	
		Brief Description:				
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