Session Descriptions TRACK A: Supervision & Leadership			
DAY ONE		**Tuesday, July 15, 2025**	**Supervision & Leadership**
8:30 AM		Campus Opens	
		Welcome and introductions Housekeeping, What to Expect, Certification Process, and More.	
1	9:00-10:00am	**Get Inspired: Create a plan for personal and organizational success** Wade Hathhorn *Sunrise Water Authority* The greatest asset in any public agency or water service related industry are the people within the organization. Empowering and constructing individual success is a key component in creating positive outcomes. The main ingredients include a combination of skill-development and desire. This presentation will examine those ideas and look to inspire personal growth and development through stories and experience over the past 25-years. Dr. Hathhorn has more than 30 years of experience in the public water business. He started his professional career as a civil engineering professor at Washington State, specializing in fluid mechanics and hydrology. He left WSU to enter the private sector where he spent 13 years as a professional consultant, including roles as president and senior executive in several local, national and international engineering consulting firms. Today, he serves as the General Manager of the Sunrise Water Authority and the North Clackamas County Water Commission. He is a recognized expert in the management and operation of public water utilities. Dr. Hathhorn was recently honored by the Special Districts Association of Oregon as the 2025 General Manager of the Year.	
2	10:20-11:20am	**Increasing Data Quality, Defensibility, and Confidence Through Utilization of a Field Sampling and Measurement Organization Quality System** Thomas Krause, Environmental Specialist/Water Quality *City of Portland* Through proactive testing completed in late 2020, the City of Vancouver detected PFAS in numerous wellfields over proposed state action levels. Since that time Vancouver has spent a significant amount of time responding to the contamination including estimating treatment costs, determining sources, communicating with the public and seeking funding for treatment. The presentation will cover the actions Vancouver has taken to address this complicated issue	
3	11:25-12:25pm	**How to Lead Before you Manage & Leading Local Government into 2030 - Water Utilities** Ryan Webb, P.E. *The Confederated Tribes of Grand Ronde*	
	12:25-1:10pm	**LUNCH**	
4	1:10-2:10pm	**Applying the New Effective Utility Management Framework to Your Utility** Mike Grimm, General Manager *West Slope Water District* This presentation provides an overview of the modernized EUM Framework for 2024 including the 5 Keys to Management Success and the 10 Attributes of an effectively managed utility General Manager, West Slope Water District since 2015 B.S. degree from Oregon State University in Civil/Environmental Engineering Registered professional civil & environmental engineer since 1989 10 years of utility engineering and management experience 5 years of consulting engineering experience 18 years of water quality engineering, management and optimization with OHA Two truths and a lie: I took the “First Parachute Jump” class at OSU; I was once held at gunpoint by multiple law enforcement officers; I shook the hand of Gerald R. Ford (does anyone know who he is?)	
		CASCADE ALLIANCE GROUNDWATER PROTECTION PROGRAM PAST, PRESENT, FUTURE ALL THE DIRTY LITTLE DETAILS Clay Walker, Groundwater Protection Program *City of Gresham* During the class we will discuss the Cascade Groundwater Alliance, The newly expanded Cascade Well Field Program, and Goal 5 Delineation and Certification. The class will cover topics from where the program started, where it is at in the expansion phases, to where we will be at full implementation in 2026. Spoiler: Huge changes are afoot. Clay Walker has managed the City of Gresham Groundwater Protection Program since 2007. During that time Clay redeveloped the Columbia South Shore Wellfield Programs implementation and processes in the City of Gresham. He worked to create and implement the Cascade Groundwater Protection Program in 2011. Clay is presently managing the Cascade Wellfield Program Expansion across the southern two thirds of the City of Gresham in alliance with Rockwood Water PUD. Goal 5 Resource Delineation and Certification for the expanded Cascade Wellfield is presently a major focus for the program. If you have ever wanted to understand a groundwater protection program, how to form a groundwater protection program, or manage a well field area this is the class for you.	

5	2:15-3:15pm	Clay Walker is the Groundwater Protection Senior in the City of Gresham's Groundwater Protection Program. Clay holds a Bachelor of Science in Civil Engineering and is a long-term member of the AWWA. Clay frequently speaks at conferences and teaches courses on Groundwater Protection programs for various municipalities, corporations, and public groups. Clay has served as an expert consultant on the formation and management of source water and groundwater protection programs for various water groups and municipalities. The City of Gresham Groundwater Protection Program was awarded the prestigious AWWA Exemplary Source Water Protection Award for Medium Source Water Systems (50,0001-250,000) in 2021.
6	3:30-4:30pm	**Communicating with Engineers - Getting Non Communicators to Understand Each Other** Mike Grimm, General Manager *West Slop Water District* How can engineers help operators and operators help engineers without stumbling over each other? This session will explore helpful ways operators can select and work with engineers to achieve a common goal and bring value and optimized efficiency to a water system. General Manager, West Slope Water District since 2015 B.S. degree from Oregon State University in Civil/Environmental Engineering Registered professional civil & environmental engineer since 1989 10 years of utility engineering and management experience 5 years of consulting engineering experience 18 years of water quality engineering, management and optimization with OHA Two truths and a lie: I took the "First Parachute Jump" class at OSU; I was once held at gunpoint by multiple law enforcement officers; I shook the hand of Gerald R. Ford (does anyone know who he is?)
DAY TWO	**Wednesday, July 16, 2025**	**Supervision & Leadership**
7:30 AM		Campus Opens
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7	8:00-9:00am	**People Management is Hard! Don't do it alone, build your squad!** Jill Winsor, Employee Experience & Development Supervisor *Portland Water Bureau* Serving as a people manager is one of the greatest gifts you can give your colleagues. It's also an incredible challenge since most of us are working managers with our own projects and deadlines. How do you carve out time to focus on the care and feeding of your team? One approach is to build a squad of other people managers you can call on for support and candid conversation. At the Portland Water Bureau, we've piloted the Manager Skill Share cohort program. Come learn how we've designed a structure that allows managers to share their knowledge and build the trust required to rely on each other for ongoing support. Pushing organizations to become environments where all employees can thrive has been Jill's focus her entire career (even when doing so wasn't in her job description). Jill believes that our organizations do their best work when our employees feel connected to the work, connected to each other, and have the resources to show up every day with energy and excitement. As the Employee Experience and Development Manager for the Portland Water Bureau, Jill has the joy of leading a team that designs employee programs and experiences to help staff get the most out of their work and provides tools for working managers to appreciate and support their teams.
8	9:05-10:05am	**Advanced Metering Infrastructure** Brandon Anderson *HD Fowler Company* A technical overview of the difference between automated meter reading and advanced metering infrastructure. An explanation of the benefits of using the data provided in AMI and repurposing the man hours once used in manual/drive by reading. Lastly, an explanation of the advancement of acoustic leak detection in water meters and the benefit of having those devices throughout a distribution system. The technical overview of the difference between automated meter reading and advanced metering infrastructure can be useful to operators with or without these system in place, both to educate on what is available to them and/or gain further knowledge of what they have. The technical overview of the data provided in these systems is used to educate operators what information is available at their fingertips and how to put that data to work. Acoustic leak detection through metering is a recent advancement in smart metering that can provide operators with a new look and approach towards nonrevenue water and overall water loss. Brandon Anderson, PE. Senior Project Manager for HD Fowler Metering and Automation. 25 years in the Waterworks Industry. Bachelor of Science in Civil Engineering and Construction Engineering & Management at Oregon State University.
9	10:20-11:20am	**VENDOR DISPLAY-Gregory Forum**
10	11:25-12:25pm	**Emergency Drinking Water Framework Plan** Rebecca Geisen, Managing Director *Regional Water Providers Consortium* Presentation will focus on regional projects and programs that support water providers in their resiliency efforts. Topics will include emergency drinking water planning, outreach, and partnerships. Rebecca Geisen is the Managing Director of the Regional Water Providers Consortium, a group of 25 drinking water providers in the Portland Oregon metropolitan area. Her work is focused on fostering regional collaboration and coordination in the drinking water sector with a focus on regional resiliency, conservation, and partnerships. Rebecca has been a leader in helping prepare water providers to respond to events that may impact drinking water and ensuring the region can meet emergency drinking water needs through planning, exercises and mobile water treatment and distribution equipment and resources. Rebecca's 25-year water career started at the State of Oregon's Water Resources Department before working for the Portland Water Bureau and Regional Water Providers Consortium. Rebecca has a B.S. in Conservation and Resource Studies from U.C. Berkeley and worked in the non-profit and private energy sector prior to moving to Oregon in 1997.

	12:30-1:00 PM	**LUNCH**
11	1:10-2:10pm	**Excavation Safety Part 1** Eric Fullan *Retired/Carollo Engineers* Five S's to Excavation Safety Participants learn the role and responsibilities of the competent person, including site safety, soils, sloping, shoring, and shielding. This course provides participants with a clear understanding of OSHA's excavation standards, including the application of tabulated data and inspection protocols. Attendees learn inspection requirements, including visual and manual tools, to determine soil classifications. The course emphasizes the correct selection and use of protective systems to prevent injuries, fatalities, and OSHA violations during excavation work. Through expert instruction and practical insights, participants gain the knowledge necessary to promote safe excavation practices and uphold OSHA standards in the workplace. Eric Fullan, retired Safety Manager. Eric most recently worked for Carollo Engineers assigned to the Willamette Water Supply Program overseeing pipeline and reservoir construction safety. He occasionally works as a private safety consultant and trainer. He has over 30 years of professional safety experience in local government and water utilities. He has presented at numerous AWWA short schools and conferences, APWA, and the Oregon Governor's Occupational Safety and Health Conferences. He has served as chair of the NW Oregon Sub-Section and the PNWS Safety Committees. He is published in the AWWA Opflow magazine and has been an active participant in various national AWWA and Research Foundation safety related projects including Prevention-Through-Design. He is also a past-president of the Columbia-Willamette Chapter of the American Society of Safety Professionals
12	2:15-3:15pm	**Excavation Safety Part 2** Eric Fullan *Retired/Carollo Engineers* Five S's to Excavation Safety Participants learn the role and responsibilities of the competent person, including site safety, soils, sloping, shoring, and shielding. This course provides participants with a clear understanding of OSHA's excavation standards, including the application of tabulated data and inspection protocols. Attendees learn inspection requirements, including visual and manual tools, to determine soil classifications. The course emphasizes the correct selection and use of protective systems to prevent injuries, fatalities, and OSHA violations during excavation work. Through expert instruction and practical insights, participants gain the knowledge necessary to promote safe excavation practices and uphold OSHA standards in the workplace. Eric Fullan, retired Safety Manager. Eric most recently worked for Carollo Engineers assigned to the Willamette Water Supply Program overseeing pipeline and reservoir construction safety. He occasionally works as a private safety consultant and trainer. He has over 30 years of professional safety experience in local government and water utilities. He has presented at numerous AWWA short schools and conferences, APWA, and the Oregon Governor's Occupational Safety and Health Conferences. He has served as chair of the NW Oregon Sub-Section and the PNWS Safety Committees. He is published in the AWWA Opflow magazine and has been an active participant in various national AWWA and Research Foundation safety related projects including Prevention-Through-Design. He is also a past-president of the Columbia-Willamette Chapter of the American Society of Safety Professionals
13	3:30-4:30pm	**Different Phases of A Career within the Water Industry** Kathleen Mannion *Carollo Engineers* This session will highlight the different communication and personality styles in the workplace, and the different needs for employees as they progress through their career. Kathleen is a Senior Infrastructure Engineer with Carollo Engineers. Although she spends most of her day in technical design, she always loves learning about interpersonal aspects of the workplaces through podcasts, TED talks, and books.
DAY THREE	**Thursday, July 17, 2025**	**Supervision & Leadership**
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14	8:00-9:00am	**Documenting Worker's Compensation and Liability Claims for Water Utilities** Margaret Ryan, ARM Senior Risk Management Consultant *Citycounty Insurance Services (CIS)* This session delves into the world of workers' compensation and liability claims and what is needed to meet compliance requirements and increase the likelihood of a successful claim. From forms and documents to photos and reporting requirements for DMV, OSHA, and safety committees, learn from real-world examples and come away with a better understanding of proper documentation. Margaret Ryan is the Risk Management Consultant for CIS Oregon. She has over 18 years of city and county government experience in the areas of law enforcement, property and evidence, corrections, and risk management. Margaret is passionate about keeping the people that serve our communities safe and healthy and in fighting form for pickleball when they retire. She holds a Bachelor of Arts in Criminal Justice and Psychology from Washington State University Vancouver (Go Cougs!) and Associate of Risk Management (ARM) Designation and is a continual learner that always has a class or book humming in the background to keep her learning about our changing risky world. Margaret's favorite time-off adventures are visiting her daughter in NYC or her son in her hometown of Chicago, go Cubs!
		Findings from the Bull Run Treatment Pilot Kimberly Gupta, Manager III *City of Portland - PWB*

		The Bull Run Treatment Pilot seeks to inform development of the Portland Water Bureau's new filtration facility where process selection, design criteria, and even the water quality goals are variables. The presentation includes insights on coagulating cold/low-alkalinity water, the role of oxidation on particle and organics control, and selecting a filter design that improves water quality from an already pristine surface water source.
15	9:05-10:05am	
		Water System Resiliency
		Chantal Wikstrom, Drinking Water Specialist & Emergency Coordinator
		OHA
		This presentation will focus on factors leading to resiliency to help water systems prepare for and respond to emergencies and how DWS is assessing resiliency in the water system surveys.
16	10:20-11:20am	Chantal Wikstrom has a natural resource management and disaster risk reduction degree from Western Washington University and is a Registered Environmental Health Specialist. Since 2020, Chantal has served as OHA's Drinking Water Services' Emergency Response and Preparedness Coordinator and has regulatory oversight of water systems in Marion County.
		Water Systems Emergency Management: Communicating with the Public, Easy?
		Felicia Heaton, Cassidy Keola and Grace Wilson
		City of Portland, PWB
		Felicia Heaton (she/her), Portland Water Communications Director, leads the bureau's Communications & Outreach team, a part of the Business Services group. Felicia guides the bureau's strategic communications initiatives and media engagement. Felicia, a born-and-raised Portlander, joined the Water family in 2018. She spent the first fifteen years of her career in news and broadcasting, her byline and voice associated with The Oregonian, News Radio 1190 KEX, 620 KPOJ, Portland's K103, and ABC News. Her coverage primarily focused on government and politics, but often included stories that grabbed national headlines—some serious (Oregon National Guard deployments, Occupy Portland, the search for Kyron Horman) and some not so serious (the occasional American Idol audition and many interviews with celebrities, Molly Ringwald a favorite). Felicia transitioned to government work in 2014, serving as the Portland Bureau of Emergency Management's first community outreach liaison and Deputy Public Information Officer. Between her two positions at the City of Portland, spent a couple years in the private sector, working as communications lead for a winning Washington state initiative campaign and as a principal consultant for Gallatin Public Affairs.
17	11:25-12:25pm	
	12:30-1:00 PM	**LUNCH**
		Talk It Out: Turning Operator Knowledge into SOPs with AI
		Laura Oxsen, Organizational Development Lead
		Grayling Engineers
		You don't need to write a report to share what you know. In this session, we'll walk through how operators can simply talk through a task—like you would while training someone on the job—and use basic tools to record it, get a written summary, and clean it up into something useful like a checklist or SOP. No fancy tech skills required. Just real knowledge, made easier to pass on.
18	1:10-2:10pm	Laura is the Organizational Development Lead at Greyling Engineers. Laura's journey begin in technical design to team management and now into learning and development. She has 10 years in the water industry and previously served as the the President for the AWWA Northwest Oregon Subsection.
		Safety Committees: To Compliance & Beyond! Part 1
		Mark Hurliman, CSHM VPP/SHARP Program Coordinator
		Oregon OSHA
		This session covers the Oregon Safety Committee Rules then takes a deep dive into how to help your safety committee perform to its fullest potential. Attendees will understand and be able to: describe and apply the Oregon Safety Committee Regulations & Guidelines; Recognize and Identify Indicators of a Strong Safety Culture; Model effective incident analysis principles; and compare and measure effective hazard prevention techniques.
19	2:15-3:15pm	Mr. Hurliman has an occupational background that includes work as a dairy farmer, self-employed commercial fisherman, construction worker, logger, and mill worker. He has worked at Oregon OSHA since 1990, as a Compliance Officer and a Safety Consultant, and has managed the VPP and SHARP programs for Oregon OSHA for nearly two decades. Mark is recognized by the Institute for Safety and Health Management as a Certified Safety and Health Manager (CSHM). He has developed and presented a variety of training presentations on SHARP, VPP and a wide variety of safety and health management related topics. His presentations, workshops and classes have been presented throughout Oregon as well as at Regional and National safety and health conferences.
		Safety Committees: To Compliance & Beyond! Part 2
		Mark Hurliman, CSHM VPP/SHARP Program Coordinator
		Oregon OSHA
		This session covers the Oregon Safety Committee Rules then takes a deep dive into how to help your safety committee perform to its fullest potential. Attendees will understand and be able to: describe and apply the Oregon Safety Committee Regulations & Guidelines; Recognize and Identify Indicators of a Strong Safety Culture; Model effective incident analysis principles; and compare and measure effective hazard prevention techniques.
20	3:30-4:30pm	Mr. Hurliman has an occupational background that includes work as a dairy farmer, self-employed commercial fisherman, construction worker, logger, and mill worker. He has worked at Oregon OSHA since 1990, as a Compliance Officer and a Safety Consultant, and has managed the VPP and SHARP programs for Oregon OSHA for nearly two decades. Mark is recognized by the Institute for Safety and Health Management as a Certified Safety and Health Manager (CSHM). He has developed and presented a variety of training presentations on SHARP, VPP and a wide variety of safety and health management related topics. His presentations, workshops and classes have been presented throughout Oregon as well as at Regional and National safety and health conferences.

Session Descriptions
Track B: Water Operations

DAY ONE	Tuesday, July 15, 2025	Track B: Water Operations

8:30 AM		Campus Opens
		Welcome and introductions Housekeeping, What to Expect, Certification Process, and More.
1	9:00-10:00am	**Get Inspired: Create a plan for personal and organizational success** Wade Hathhorn *Sunrise Water Authority* The greatest asset in any public agency or water service related industry are the people within the organization. Empowering and constructing individual success is a key component in creating positive outcomes. The main ingredients include a combination of skill-development and desire. This presentation will examine those ideas and look to inspire personal growth and development through stories and experience over the past 25-years. Dr. Hathhorn has more than 30 years of experience in the public water business. He started his professional career as a civil engineering professor at Washington State, specializing in fluid mechanics and hydrology. He left WSU to enter the private sector where he spent 13 years as a professional consultant, including roles as president and senior executive in several local, national and international engineering consulting firms. Today, he serves as the General Manager of the Sunrise Water Authority and the North Clackamas County Water Commission. He is a recognized expert in the management and operation of public water utilities. Dr. Hathhorn was recently honored by the Special Districts Association of Oregon as the 2025 General Manager of the Year.
2	10:20-11:20am	**Water system surveys and deficiencies in Oregon** Keith Male, PE *Oregon Health Authority -Public Health Division - Drinking Water Services* In Oregon, public water systems undergo routine Water System Surveys every three to five years, as required by the Oregon Health Authority and the Environmental Protection Agency. These surveys assess a system's ability to provide safe and reliable drinking water by evaluating key components, including source protection, treatment, distribution, storage, management & operations, and monitoring & reporting practices. During a survey, inspectors identify deficiencies that may pose risks to public health. Keith Male, PE, has worked in engineering roles for 11 years, with 5 years in the drinking water industry. He started working at Oregon Health Authority in 2022 after completing his master's degree in environmental engineering at Portland State University. Before moving to Oregon in 2017, Keith worked in the Corrosion Control & Metallurgy team for the regional wholesaler, Metropolitan Water District of Southern California, the largest supplier of treated water in the United States
3	11:25-12:25pm	**Regulation Update** Kari Salis, PE *OHA Drinking Water Serices* Kari will discuss upcoming federal regulations and requirements for public water systems, water quality and compliance issues in Oregon, and general reminders to help water systems stay current on regulations. Kari has an Environmental Engineering degree from Northwestern University. After college she spent two years in the Peace Corps helping communities in Nepal develop water system maintenance programs. A meandering path led her to the Drinking Water Program in 1995. She was a Regional Engineer for 15 years and has been manager of the Technical Unit for another 15 years.
	12:30-1:00 PM	**LUNCH**
4	1:10-2:10pm	**Pipes, how boring can that be** David Jacob PE *Hydra Engineering* Discussion on the various sizes types, materials, strengths, and weaknesses of various pipes in the water industry Water Systems Design and Operation David provide design and evaulation services for water systems, Designs of Well house, booster pump stations, waterlines, Surface water treatment. He also operate several small systems at the foothills of Mt Hood.
5	2:15-3:15pm	**A tree falls in the forest** David Jacob PE *Hydra Engineering* A tree falls on the Rhododendron water treatment plant, the interim solutions and final corrective actions Water Systems Design and Operation David provide design and evaulation services for water systems, Designs of Well house, booster pump stations, waterlines, Surface water treatment. He also operate several small systems at the foothills of Mt Hood.
6	3:30-4:30pm	**Why do utilities implement Smart Metering Systems?** Matt Zellers *Territory Manager at Mueller Systems* New water meters, paired with Automated Meter Reading (AMR/Drive by) or Advanced Metering Infrastructure (AMI), can be a game changer for a lot of utilities. But what drives utilities to install new meters and implement an automated reading system? We will discuss some reasons why utilities want to install these technologies. Matt Zellers is the Territory Manager for Mueller Systems, covering OR, WA, ID, MT, WY, and AK. Matt works closely with distributors and utilities to find the right water meters, and meter reading system that works best for each utility. He has a BS in Mechanical Engineering from Penn State, and 12 years of experience as a Territory Manager.
DAY TWO	**Wednesday, July 16, 2025**	**Track B: Water Operations**
7:30 AM		Campus Opens

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7	8:00-9:00am	**PLC operations, instrumentation, and SCADA interaction for operators** Dennis Clinefelter *Carollo Engineers* This session will provide an in-depth look at Programmable Logic Controllers (PLCs), instrumentation, and SCADA (Supervisory Control and Data Acquisition) systems, with a focus on their critical roles in water utility operations I started into the controls world 38 years ago with relay based motor controllers while on submarines in the US Navy. More recently I spent 27 years at Intel where the last 12 years were in operations and design of PLC based controls systems for the facilities at the manufacturing sites worldwide. I am now with Carollo Engineers where I support the instrumentation and controls for our private sector clients. When I am not at work, you will find me in a fencing club where I am training for the next competition.
8	9:05-10:05am	**VENDOR DISPLAY-Gregory Forum**
9	10:20-11:20am	**Maximizing Outreach Success through WAVE** Marlys Ryan & Libby Bakke *Tualatin Valley Water District & CONSOR Engineers* Large water projects can have intrusive and long-lasting impacts on neighbors, especially above-ground facilities like water tanks and treatment plants. The WAVE (Willingness, Accountability, Visibility, Empathy) approach maximizes outreach success for disruptive projects. Marlys has worked in public involvement and communications in the Pacific Northwest since 1998. She was a consultant for eight years prior to transitioning to public service in 2009. Marlys began her public service as Portland Public Schools facilities liaison to Portland Parks & Recreation and to the communities surrounding each Portland Public Schools facility. She solved problems, developed partnerships, coordinated the completion of the Long-Range Facilities Plan and secured grants to improve the District's facilities and government and community relations. Marlys currently manages the Willamette Water Supply Program public outreach efforts. Marlys oversees and coordinates all communications elements for this large-scale water supply program. She leads a team that works with communities and property owners, jurisdictional staff and leadership to build more than 30 miles of large diameter pipeline, the building of water reservoir tanks, and construction of a new Willamette River Water Treatment Plant slated for completion by 2026.
10	11:25-12:25pm	**Water Use and Well Level Monitoring** Ted Ressler, RG, CWRE Co-presenter Darby Scanlon, RG *Summit Water Resource* Attendees will learn about common water level monitoring methods, best-practice procedures, and receive hands-on practice making manual and automated water level measurements. The presentation will include a discussion of record keeping and water use reporting requirements, and practical applications where water level measurements are needed. 24 years of experience providing groundwater resource evaluations for municipalities, water districts, agricultural operations, and private industry, including groundwater supply development, water well design and testing, well performance evaluations, and ASR system testing and operation.
	12:30-1:00 PM	**LUNCH**
11	1:10-2:10pm	**Valves, even more boring** David Jacob PE *Hydra Engineering* Discussion on the various sizes types, materials, strengths, and weaknesses of various valves in the water industry Water Systems Design and Operation David provide design and evaulation services for water systems, Designs of Well house, booster pump stations, waterlines, Surface water treatment. He also operate several small systems at the foothills of Mt Hood.
12	2:15-3:15pm	**A tree falls in the forest again** David Jacob PE *Hydra Engineering* A tree falls on a Lady Creek Water System waterline bridge, the interim solutions and final corrective actions Water Systems Design and Operation David provide design and evaulation services for water systems, Designs of Well house, booster pump stations, waterlines, Surface water treatment. He also operate several small systems at the foothills of Mt Hood.
13	3:30-4:30pm	**Clackamas Community College Tunnel Tour: Backflow/Cross Connections and Distribution Systems** James T. Nurmi, Ph.D. *Clackamas Community College* 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 backlfow assemblies and how it has changed over time. Limited to 12 people/tour. Jim Nurmi has been teaching water and wastewater operations in the Water & Environmental Technology (WET) program at Clackamas Community College for over 14 years. Jim also is a certified backflow tester and cross connection instructor for the state of Oregon.
DAY THREE		**Track B: Water Operations**

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14	8:00-9:00am	**Arc Flash Awareness** Barry Moreland *NECA-IBEW Electrical Training Center - Safety Director* 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. Barry Moreland is the Safety Director for the NECA-IBEW Electrical Training Center, where he teaches advanced electrical safety and OSHA 10/30, MSHA AND EPA related courses. He is certified as an Electrical Safety Compliance Professional by the National Fire Protection Association and holds a CSP and CHST from BCSP. He is licensed as a General Jouneyman in WA and OR. During his career, he has witnessed significant changes in the way NECA contractors approach working on, or near, energized electrical equipment. He is a safety resource for these contractors and provides customized training and assists in the development of safety best practices.	
15	9:05-10:05am	**The Future Impact of Technology: Advantages, Hazards, and the Unknown** Dr. Wade E. Hathhorn *Sunrise Water Authority* This presentation will examine the possible future impacts of technology on the water industry. We will examine present and future trends, what to expect from artificial intelligence, threats from cyber attack, and general technology changes in the water industry. We will also explore the advantages and challenges affecting daily utility operations. Dr. Hathhorn has more than 30 years of experience in the public water business. He started his professional career as a civil engineering professor at Washington State, specializing in fluid mechanics and hydrology. He left WSU to enter the private sector where he spent 13 years as a professional consultant, including roles as president and senior executive in several local, national and international engineering consulting firms. Today, he serves as the General Manager of the Sunrise Water Authority and the North Clackamas County Water Commission. He is a recognized expert in the management and operation of public water utilities. Dr. Hathhorn was recently honored by the Special Districts Association of Oregon as the 2025 General Manager of the Year.	
16	10:20-11:20am	**Effective Accountability Systems for Water Utilties** Mark E. Hurliman, CSHM *Oregon OSHA Voluntary Programs Coordinator* This session defines accountability and covers why we do what we do, and at-risk behaviors. The session ends up covering measuring our performance to ensure accountability. Attendees will learn the differences between accountability, blame, and discipline, while understanding the components to an effective accountability system. Mr. Hurliman has an occupational background that includes work as a dairy farmer, self-employed commercial fisherman, construction worker, logger, and mill worker. He has worked at Oregon OSHA since 1990, as a Compliance Officer and a Safety Consultant, and has managed the VPP and SHARP programs for Oregon OSHA for nearly two decades. Mark is recognized by the Institute for Safety and Health Management as a Certified Safety and Health Manager (CSHM). He has developed and presented a variety of training presentations on SHARP, VPP and a wide variety of safety and health management related topics. His presentations, workshops and classes have been presented throughout Oregon as well as at Regional and National safety and health conferences.	
17	11:25-12:25pm	**Oregon's Voluntary Compliance Programs for the Water Indsutry** Mark E. Hurliman, CSHM *Oregon OSHA Voluntary Programs Coordinator* This session covers Oregon OSHA's Voluntary Compliance programs offered by Oregon OSHA Consultation. The Voluntary Protection Program (VPP) has been around since 1982. The Safety and Health Achievement Recognition Program (SHARP), since 1995, and the newest voluntary compliance program is the Challenge Program. Join us for a deep dive into how voluntary compliance can help make your company safer and more profitable moving forward! Attendees Will Understand and Be Able to: Recognize the benefits of voluntary compliance. Identify and categorize indicators of an effective safety and health management system. Evaluate and Choose which program may benefit them the most. Compare and Measure results of a self-sustaining SHMS. Mr. Hurliman has an occupational background that includes work as a dairy farmer, self-employed commercial fisherman, construction worker, logger, and mill worker. He has worked at Oregon OSHA since 1990, as a Compliance Officer and a Safety Consultant, and has managed the VPP and SHARP programs for Oregon OSHA for nearly two decades. Mark is recognized by the Institute for Safety and Health Management as a Certified Safety and Health Manager (CSHM). He has developed and presented a variety of training presentations on SHARP, VPP and a wide variety of safety and health management related topics. His presentations, workshops and classes have been presented throughout Oregon as well as at Regional and National safety and health conferences.	
	12:30-1:00 PM	**LUNCH**	
18	1:10-2:10pm	**Water Industry Driving Safety - The Prescription to Lowering ALL Your Driver Risk (2 Hour session)** Andrew Crites *Oregon Driver Education Center (ODEC)* The prescription to overcoming high-risk driving behaviors. During this session, we will explore the mindset shift that is necessary to manage the risks that are present while driving. Attendees will walk away with five principles for lowering their driver risk score. Join us on this journey toward an even more secure and confident driving experience, where your wealth of driving knowledge and expertise will gain fresh perspectives. Andrew Crites has been with the Oregon Driver Education Center (ODEC) for almost 20 years and has filled a variety of roles in the company, including instructor, fleet manager, general manager, and now, vice president and chief executive officer. Crites has a broad skill set within driver education that ranges from leadership and speaking abilities to instructional proficiency. These skills have earned him the Elite Instructor classification and industrywide respect for his work in ODEC's programs, including fleet training, defensive driver training, extreme driver control course, driver education, and much more. Crites has helped transform ODEC into an industry leader.	
		Water Industry Driving Safety - The Prescription to Lowering ALL Your Driver Risk (2 Hour session) Andrew Crites, VP and CEO	

		Oregon Driver Education Center (ODEC)
		"The prescription to overcoming high-risk driving behaviors. During this session, we will explore the mindset shift that is necessary to manage the risks that are present while driving. Attendees will walk away with five principles for lowering their driver risk score. Join us on this journey toward an even more secure and confident driving experience, where your wealth of driving knowledge and expertise will gain fresh perspectives. "
19	2:15-3:15pm	Andrew Crites has been with the Oregon Driver Education Center (ODEC) for almost 20 years and has filled a variety of roles in the company, including instructor, fleet manager, general manager, and now, vice president and chief executive officer. Crites has a broad skill set within driver education that ranges from leadership and speaking abilities to instructional proficiency. These skills have earned him the Elite Instructor classification and industrywide respect for his work in ODEC's programs, including fleet training, defensive driver training, extreme driver control course, driver education, and much more. Crites has helped transform ODEC into an industry leader.
		Clackamas Community College Tunnel Tour: Backflow/Cross Connections and Distribution Systems
		James T. Nurmi, Ph.D.
		Clackamas Community College
		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 backlfow assemblies and how it has changed over time. Limited to 12 people/tour.
20	3:30-4:30pm	Jim Nurmi has been teaching water and wastewater operations in the Water & Environmental Technology (WET) program at Clackamas Community College for over 14 years. Jim also is a certified backflow tester and cross connection instructor for the state of Oregon.

Session Descriptions
Track C: Water Quality & Treatment

DAY ONE	Tuesday, July 15, 2025	Track C: Water Quality & Treatment
8:30 AM		Campus Opens
		Welcome and introductions Housekeeping, What to Expect, Certification Process, and More.
		Get Inspired: Create a plan for personal and organizational success
		Wade Hathhorn
		Sunrise Water Authority
		The greatest asset in any public agency or water service related industry are the people within the organization. Empowering and constructing individual success is a key component in creating positive outcomes. The main ingredients include a combination of skill-development and desire. This presentation will examine those ideas and look to inspire personal growth and development through stories and experience over the past 25-years.
1	9:00-10:00am	Dr. Hathhorn has more than 30 years of experience in the public water business. He started his professional career as a civil engineering professor at Washington State, specializing in fluid mechanics and hydrology. He left WSU to enter the private sector where he spent 13 years as a professional consultant, including roles as president and senior executive in several local, national and international engineering consulting firms. Today, he serves as the General Manager of the Sunrise Water Authority and the North Clackamas County Water Commission. He is a recognized expert in the management and operation of public water utilities. Dr. Hathhorn was recently honored by the Special Districts Association of Oregon as the 2025 General Manager of the Year.
		Intermediate Ozone Treatment
		Kim Reid
		Veolia
		Veolia has operated and maintained the Willamette River Water Treatment Plant in Wilsonville, Oregon, since start-up in April, 2002. The plant was designed with ozone treatment before filtration in order to reduce taste and odor compounds. But ozone also improves filtration and provides disinfection. We will cover ozone generation and application system basics, costs to run the system, regulatory implications, and contrast the new with old.
2	10:20-11:20am	Kim Reid is currently the Plant Manager - Project Leader at the 17 MGD, surface water treatment plant serving the communities of Wilsonville and Sherwood south of Portland. She has a Master's of Environmental Engineering degree from Georgia Tech and class 4 water treatment operator certification from the Oregon Health Authority. Shifting gears several times over her career, she has served in the EPA's technology transfer program, as a design engineer for site and stormwater development, and as a homeschool educator working with teenagers in STEAM programs.
		Corrosion Control - The Road Less Travelled
		Evan Hofeld, Regional Engineer
		Oregon Health Authority - Public Health Division - Drinking Water
		This presentation will focus on recent efforts under the Area Wide Optimization Program to develop water quality goals and guidelines to help water systems optimize corrosion control.
3	11:25-12:25pm	Evan Hofeld has a bachelor of science degree in Environmental Engineering from Oregon State University and is a registered Civil Engineer. Evan has worked for OHA's Drinking Water Services program for over 20 years and is currently serving as a regional engineer with regulatory oversight of water systems in Polk and Yamhill Counties. In addition to reviewing construction plans and providing regulatory assistance to water systems, Evan also collaborates with USEPA and neighboring states to develop treatment optimization goals and guidelines under EPA' s Area Wide Optimization Program.
	12:30-1:00 PM	**LUNCH**
		Treatment Optimization - Preparing fo the Worst
		Evan Hofeld, Regional Engineer
		Oregon Health Authority - Public Health Division - Drinking Water

		This presentation will review some of the impacts in raw water quality due to rapid drawdowns of dams on the N. and S. Santiam Rivers and share some of the “lessons learned” by water providers having to grapple with those impacts.
4	1:10-2:10pm	Evan Hofeld has a bachelor of science degree in Environmental Engineering from Oregon State University and is a registered Civil Engineer. Evan has worked for OHA’s Drinking Water Services program for over 20 years and is currently serving as a regional engineer with regulatory oversight of water systems in Polk and Yamhill Counties. In addition to reviewing construction plans and providing regulatory assistance to water systems, Evan also collaborates with USEPA and neighboring states to develop treatment optimization goals and guidelines under EPA’ s Area Wide Optimization Program.
		MODIFIED TRACER TESTING METHODOLOGY FOR LONG DETENTION TIMES
		Andrew Nishihara
		Stantec
		Tracer testing can be difficult to perform on large reservoirs or clearwells. Having a place to put water or being able to run a WTP at rates needed to prove out hydraulic efficiency may not be feasible. This presentation will provide an overview of tracer testing, and provide case studies where abbreviated tracer testing was performed that shortened testing by over half the time traditional testing would require. Modified method used was discussed and vetted with regulatory authorities.
5	2:15-3:15pm	Over his 17-year career, Andrew has had the opportunity to work with over 50 communities throughout the Section on various water projects from planning, treatment piloting, design, and construction. A self-proclaimed life long learner, a recent focus has been on mentoring, sharing information, and providing runway for the next generation of water professionals who will solve our biggest challenges.
		PFAS 101 - Treatment history, current state of technologies and analyses, and next steps
		Andrew Nishihara
		Stantec
		Inform attendees about the treatment history of per-and polyfluorinated alkyl substances (PFAS), current status of regulations, and new and upcoming analytical and treatment technologies. Will also touch on drinking water implementation capital and O&M costs.
6	3:30-4:30pm	Over his 17-year career, Andrew has had the opportunity to work with over 50 communities throughout the Section on various water projects from planning, treatment piloting, design, and construction. A self-proclaimed life long learner, a recent focus has been on mentoring, sharing information, and providing runway for the next generation of water professionals who will solve our biggest challenges.
DAY TWO	**Wednesday, July 16, 2025**	**Track C: Water Quality & Treatment**
7:30 AM		Campus Opens
		Welcome and introductions Housekeeping, What to Expect, Certification Process, and More.
		Novel Water Treatment Technologies - Advanced Oxidation Processes and Fenton Reaction for Azole Degradation
		Carlos Weiler
		Carollo Engineerrs
		The semiconductor industry relies on azoles for manufacturing, but these chemicals pose significant challenges to wastewater treatment facilities (WWTFs) by disrupting biological treatment processes and harming aquatic ecosystems. As semiconductor facilities expand, addressing azole contamination is critical for regulatory compliance and environmental protection. This presentation explores advanced oxidation processes (AOPs) such as ozonation and Fenton’s reaction as viable treatment methods, assessing their effectiveness, operational feasibility, and waste management considerations. Ozonation achieves over 90% degradation but requires high energy input, while Fenton’s reaction is cost-effective but generates sludge. The presentation emphasizes the need for adaptive treatment strategies and industry-municipality collaboration to ensure sustainable water management in semiconductor manufacturing regions.
7	8:00-9:00am	Carlos Weiler is an industrial wastewater treatment specialist with expertise in advanced treatment technologies, process design, and water reuse strategies. He has led major projects for semiconductor and manufacturing facilities, including Intel and other private sector clients focusing on innovative wastewater solutions and sustainability. He received his Master's degree in chemical engineering from the University of Virginia and a dual bachelor's in chemical and environmental engineering from the University of Arizona.
		On-Site Sodium Hypochlorite Generation: A Safe and Cost-Effective Solution for Disinfection
		Haley Goddard, PE
		cleanwater1
		This presentation highlights economic advantages and key aspects regarding the design, operation, and maintenance of OSHG installations in the use of disinfection
8	9:05-10:05am	Haley Goddard is a Regional Manager at Cleanwater1, responsible for providing sales and engineering support for the application of disinfection, chemical feed, and drinking water quality solutions in the Northwest U.S. She holds a B.S. degree in Environmental Engineering from the University of Colorado-Boulder and is a licensed civil engineer. Prior to joining Cleanwater1, Haley worked for 7 years in consulting as a project engineer. Her experience features the design of reverse osmosis treatment, chemical feed, dewatering, and water conveyance systems for both municipal and industrial clients. Haley is based out of Boise, Idaho, and serves as Vice President of the Pacific Northwest Clean Water Association.
		The Role of “Smart Tanks” in Distribution Water Quality Management
		Haley Goddard, PE
		cleanwater1
		This presentation will examine the under-utilized water storage tank as an asset that can be used to improve distribution water quality with several methodologies.
9	10:20-11:20am	Haley Goddard is a Regional Manager at Cleanwater1, responsible for providing sales and engineering support for the application of disinfection, chemical feed, and drinking water quality solutions in the Northwest U.S. She holds a B.S. degree in Environmental Engineering from the University of Colorado-Boulder and is a licensed civil engineer. Prior to joining Cleanwater1, Haley worked for 7 years in consulting as a project engineer, leading multi-disciplinary teams in the design of water and wastewater systems for both municipal and industrial clients. Haley is based out of Boise, Idaho, and serves as Vice President of the Pacific Northwest Clean Water Association.

10	11:25-12:25pm	**VENDOR DISPLAY-Gregory Forum**
	12:30-1:00 PM	**LUNCH**
11	1:10-2:10pm	**LAKE OSWEGO PLANT TOUR (2 Hr)** Austin Peters *Carollo Engineers* Austin Peters is an Associate Vice President and Project Manager specializing in Water Treatment. He has more than 16 years in the water industry. In his free time, Austin is a musician and motorcycle mechanic.
12	2:15-3:15pm	**LAKE OSWEGO PLANT TOUR (2 Hr)** Austin Peters *Carollo Engineers* We will be touring the Lake Oswego Plant. Participants will be asked to drive their own vehicle. Austin Peters is an Associate Vice President and Project Manager specializing in Water Treatment. He has more than 16 years in the water industry. In his free time, Austin is a musician and motorcycle mechanic.
13	3:30-4:30pm	**LAKE OSWEGO PLANT TOUR** Austin Peters *Carollo Engineers* We will be touring the Lake Oswego Plant. Participants will be asked to drive their own vehicle. Austin Peters is an Associate Vice President and Project Manager specializing in Water Treatment. He has more than 16 years in the water industry. In his free time, Austin is a musician and motorcycle mechanic.
DAY THREE	**Thursday, July 17, 2025**	**Track C: Water Quality & Treatment**
7:30 AM		Campus Opens
		Welcome and introductions Housekeeping, What to Expect, Certification Process, and More.
14	8:00-9:00am	**Wildfire Study DBP and Taste and Odor results** Mac Gifford *Portland Water Bureau* This session examines the growing impact of wildfires on drinking water quality, focusing on Portland, Oregon. Last summer, the Camp Creek Fire threatened the Bull Run watershed, Portland's primary water source. As climate change increases wildfire risks, the Portland Water Bureau is investing in a $2.1 billion filtration plant to protect water quality from ash, sediment, and contaminants. Experts will discuss the challenges wildfires pose to water systems and the innovations being developed to ensure safe drinking water in the future.
15	9:05-10:05am	**PFAS in Fish Tissues: Columbia Slough and other Surface Water Impacts** Sean Payne *USGS* This talk will focus on toxic per- and polyfluoroalkyl substances (PFAS) detected in fish tissues sampled from the Columbia Slough. Fish samples were collected from three reaches of the Columbia Slough, located near Portland International Airport, that are affected by multiple PFAS sources, including aqueous film-forming foams (AFFF), a major source PFAS used in firefighting and training at airports and military installations. The primary source of PFAS contamination to the Columbia Slough is attributed to AFFF discharges to unlined pits and ground surface during historical fire training and spills. Sean Payne began his career as a Hydrologist with the USGS Oregon Water Science Center in May, 2016, working on various National Water Quality Assessment (NAWQA) projects including water-quality sampling in both surface-water and ground-water. Current research interests and projects include assessing contaminants in surface water, studying contaminant concentrations in aquatic species, and applying statistical analysis to help better understand contaminant and water-quality trends.
16	10:20-11:20am	**Wildfire and Water Quality** Jude Grounds *Carollo Engineers* This presentation will highlight the impacts wildfires in the Bull Run watershed have on water quality and highlight some case studies. Jude Grounds is a Senior Vice President with Carollo and has more than 26 years in the water industry. He has navigated some of the most challenging water quality issues seen in Oregon over the past decade.
17	11:25-12:25pm	**Emergency to Operations** Jude Grounds *Carollo Engineers* This presentation will highlight how consultants help water utilities maintain operations when emergencies hit. Jude Grounds is a Senior Vice President with Carollo and has more than 26 years in the water industry. He has navigated some of the most challenging water quality issues seen in Oregon over the past decade.
		LUNCH

	12:30-1:00 PM	**LUNCH**
18	1:10-2:10pm	**Wildfire Study DBP and Taste and Odor results **Tentative, need to confirm with speaker**** Anna Vosa **Tentative** *Portland Water Bureau*
19	2:15-3:15pm	**WILLAMETTE RIVER WATER TREATMENT PLANT TOUR (2 Hr)** Kim Reid *Veolia* We will be touring the Willamette River Water Treatment Plant. Participants will be asked to drive their own vehicle and can leave when the tour is over. Kim Reid is currently the Plant Manager - Project Leader at the 17 MGD, surface water treatment plant serving the communities of Wilsonville and Sherwood south of Portland. She has a Master's of Environmental Engineering degree from Georgia Tech and class 4 water treatment operator certification from the Oregon Health Authority. Shifting gears several times over her career, she has served in the EPA's technology transfer program, as a design engineer for site and stormwater development, and as a homeschool educator working with teenagers in STEAM programs.
20	3:30-4:30pm	**WILLAMETTE RIVER WATER TREATMENT PLANT TOUR** Kim Reid *Veolia* We will be touring the Willamette River Water Treatment Plant. Participants will be asked to drive their own vehicle and can leave when the tour is over. Kim Reid is currently the Plant Manager - Project Leader at the 17 MGD, surface water treatment plant serving the communities of Wilsonville and Sherwood south of Portland. She has a Master's of Environmental Engineering degree from Georgia Tech and class 4 water treatment operator certification from the Oregon Health Authority. Shifting gears several times over her career, she has served in the EPA's technology transfer program, as a design engineer for site and stormwater development, and as a homeschool educator working with teenagers in STEAM programs.