MONDAY PRE-CONFERENCE CLASSES — TOTAL CEUS 0.7 W/WW — AUGUST 18, 2025

9:00 am – 4:00 pm **Small Water System Training Course** This course will cover the basics of water system operations. A review of the SDWA Amendments, the State Revolving Loan Fund, and security issues. Review of technical, managerial, and financial needs of a small system. ***Tim Tice, OAWU*** - 0.6 **W** CEUs ESAC #6103	9:00 am – 4:45 pm **Cross Connection Specialist Update** Obtain your Cross Connection Specialist updates and any updates on the cross-connection program. ***Ray Johnson, BMI*** – 0.6 **W** CEUs ESAC #5963	8:00 am – 1:15 pm **Flagger Certification** Attend this ODOT flagger course to obtain flagger requirements. Attendees completing this course and exam become an ODOT certified flagger. ***Bill Buterbaugh, ODOT*** – 0.5 **W/WW** CEUs ESAC #TBA (30 attendee limit)	8:00 am – 12:00 pm **Risk Assessment and Emergency Response** How to complete a risk assessment and be proactive and prepared for an emergency at your water and wastewater system. ***Scott Berry, OAWU*** – 0.4 **W/WW** CEUs ESAC #TBA 1:00 pm – 4:00 pm **Emerging Contaminants PFOS Workshop** The class will provide an overview of sources and treatment options as well as current trends in regulations. ***Monty Norris, OAWU*** – 0.3 **W/WW** CEUs ESAC #TBA

TUESDAY — TOTAL CEUS 0.725 W/WW — AUGUST 19, 2025

08:00 – 09:00 AM		Registration			
09:00 – 09:30 AM	0.05	Opening session: **Investing in the Future** System operations and mentoring for the future. **Jason Green, OAWU** **W/WW**			
09:30 – 10:45 AM	0.125	**Legislative Update** The latest issues of the State Legislature activities concerning water and wastewater utilities. **Mark Landauer, SDAO, Jason Green, OAWU** **W/WW**			
10:45 – 11:00 AM		Break			
		Necanicum	**Riverside A**	**Riverside B**	**Seaside A/B**
11:00 – 12:00 PM	0.1	**Decision Making for Operators How The Unknown Can Affect Project Planning** How the unknown can affect our decisions in planning for upgrading various system resources and equipment purchases. **Levi Beachy, City of Tillamook** **W/WW**	**Asset Intelligence: Developing a GIS Program That Workers Embrace** Real stories, real solutions: Tim unveils the GIS/Asset Maintenance features that work for water utilities nationwide. Transform your program, regardless of your current technology, with practical takeaways. **Tim Bresnahan, Silversmith Data** **W/WW**	**Oregon Water Resources Update** Recent Legislative updates, what's new and upcoming. **Tamera Smith, Kerri Cope, OWRD** **W**	**DEQ Wastewater Operator Certification Basics** This presentation will cover the application and certification process, tips to avoid mistakes, an overview of where to find the information you need on DEQ's website, and an opportunity for program feedback. **Kimi Grzyb, OR DEQ** **WW**
12:00 – 01:00 PM	0.1	Lunch with Exhibit Time: The latest applications, equipment, tools, and techniques in our industry. W/WW			
01:00 – 03:00 PM	0.2	**Chemical Feed Pumps** Water and wastewater chemical feed pump application, operation, maintenance, and installation. **Phil Pelletier, Furrow Pump** **W/WW**	**Cyber & Physical Security** The practices and principles to help further protect your utility in today's age. **Leslie Kainoa, Cybersecurity & Infrastructure Security Agency** **W/WW**	**Hydrants and Valves** Some current model O&M and finish with the future of fire hydrants and emerging pressure monitoring features and benefits and valve options. **Vaughn Barber, M&H/Kennedy Valve Co.** **W**	**Collections without Plugging Sludge Pumping Solutions** A look into sludge pumping solutions and how to help maintain a healthy collections system. **Rich Owens, Owens Pump & Equipment** **WW**
03:00 – 03:30 PM		Break with Exhibit Time: The latest applications, equipment, tools, and techniques in our industry.			
03:30 – 05:00 PM	0.15	**Easements: Rights to Land for Infrastructure & Improvements** Obtaining or expanding easements for water and wastewater	**Locating the Unknown** Conventional methods of locating with standard pipe and cable locators and	**Revolutionize Water Quality with Tank Mixing & Active Air Ventilation** This will review the concept of tank mixing, highlight how tank mixing can	**Liquid Only Sewer: Addressing the pressure of wastewater collection in Oregon.**

		infrastructure maintenance, repair or replacement. **Laura Schroeder, Schroeder Law Offices W/WW**	new methods for the pipe that just doesn't want located and found. **Nick Frappier, NW Hydrovac W/WW**	improve water quality as well as provide data proving how tank mixing creates a positive impact on water quality. In addition, this class will go overactive air ventilation systems to help mitigate disinfection by-products like TTHM's and help mitigate corrosion inside steel water storage tanks. **Kevin Chapa, Big Wave Water Technologies, Inc. W**	How liquid sewer and decentralized wastewater treatment can provide key benefits to sewer design, build and operation. We will demonstrate how seamlessly Liquid Only Sewer (LOS), or Septic Tank Effluent Pumping (STEP) can accommodate high population growth and booming infrastructure, as well as go into detail on how implementing certain sewer practices can provide adaptability and flexibility that other sewer technologies cannot. The audience will leave this presentation with a solid understanding of how the most expandable and sustainable sewer technology may be the right choice for many applications throughout Oregon for residential, commercial and municipal applications. Orenco Systems will provide technical slides and details discussing recent advancements in technology for both on-site collection and secondary advanced treatment. Orenco Systems will also discuss some of the hurdles they typically see in their local market and how they can consistently provide successful design, build and extended service in both a metropolitan and rural setting. **Johnathon Honeywell, Orenco Systems WW**
05:30 – 07:30 PM		Dinner with Exhibit Time: The latest applications, equipment, tools, and techniques in our industry.			

WEDNESDAY		TOTAL CEUS 0.675 W/WW			AUGUST 20, 2025
07:00 – 08:00 AM		Continental Breakfast Exhibit Hall			
		Necanicum	**Riverside A**	**Riverside B**	**Seaside A/B**
08:00 – 09:30 AM	0.15	**Strategies for Managing Aging Infrastructure** Case study of a small municipality's struggles and adventures of developing an executable plan for managing our aging water and sewer systems. The discussion will look at the details of developing plans and securing funding for our aging water plant and distribution system. Discussion will cover the unique challenges faced by small municipalities when navigating state and federal funding options. This class focuses on the real world, day-to-day operations and master planning. **Leo Newberg, Inn at Otter Crest W/WW**	**Overcoming Telemetry & SCADA Issues for Remote Sites** The "Overcoming Telemetry & SCADA Issues for Remote Sites" course provides water treatment and wastewater operators and managers with solutions for monitoring challenges in remote locations. Through advanced telemetry systems and SCADA integration, participants will learn to tackle connectivity issues, environmental factors, and aging infrastructure. The course demonstrates real-world tools like cellular and radio telemetry, enabling operators to enhance data collection and reduce site visits. It offers scalable solutions for various system sizes, ensuring reliable data flow even in areas with poor cellular coverage. By exploring modern communication models and technology options, operators can improve system reliability and respond swiftly to problems. Managers will discover cost-effective strategies for sustainability. Through practical troubleshooting and real-life case studies, participants will be equipped to boost efficiency and minimize downtime in their facilities. **Nathan Landreth, Jonathan Frank, Advanced Control Systems W/WW**	**Saving Money, Pumping Groundwater** Most water wells are being designed and operated with the assumption that their performance stays fairly constant over years of operation. Drops in performance and rising maintenance costs are often overlooked, causing operational costs to skyrocket. With that in mind, we will focus on pumping efficiencies and highlight what is costing us money, how much it is costing and how we can save money and prolong the life of our wells and pumping equipment. **Dean Foster, Hose Solutions W**	**Intelligent Pumping Systems** How to utilize the technology to meet our goals. **Simon Cartwright, Xylem WW**
09:30 – 10:00 AM		Exhibit Time: Learn the latest applications, equipment, tools, and techniques in our industry			
10:00 – 12:00 PM	0.2	**Tip Selection and Vactor Trucks** Hydro excavation, new technology, proper methods, equipment used, safety, and the use and applicability of different nozzle types. Tips, Tricks & Safety. **Shawn Patrick and Dan Nelson, Owen Equipment W/WW**	**Operators / Engineers / Field Maintenance Personnel** I begin with what a Control Valve is, the basic premise of how and why they work, Applications and Maintenance. I spend time on the Parts that make up the Main Valve – what they are made of, what their function is, and how to inspect them. I talk about Flow Rates, Dimensions, Pressure Drop, and various optional materials of construction. I talk about	**Water Right Inventory and Transfers** Preparing for the future when water rights are not available **Laura Schroeder, Schroeder Law W**	**Wastewater Modeling Process and Benefits** An in-depth look at the creation of a wastewater model, including flow monitoring requirements, and the benefits of a working model in regard to inflow & infiltration rehab, planning and development studies and future flow predictions for design storms and urban growth boundary expansions.

			Pilot Valves – What they are made of, how they work, how to set, how to troubleshoot and how to repair. I spend time on Applications: Pressure Reducing, Pressure Relief, Altitude, Electronic, and Pump Control. I then talk about Troubleshooting to find out why a valve won't come open or won't close or won't regulate. And, finally, I talk about Preventative Maintenance and Regularly Scheduled Maintenance that includes Valve Assessment, and run through how to take a Valve apart, install a new Rubber Goods Repair Kit, put it back together and re-start the Valve. And I will stay for Questions. **Jim Lugo, Watts Water Technologies** **W/WW**		**Samuel Novac, P.E, Novac Industries** **WW**
12:00 – 01:30 PM		Lunch			
01:30 – 03:00 PM	0.15	**Only Two classes this session: Riverside A and Riverside B** **1:30 – 5:00**		**Confined Space and Jobsite Safety** See real examples of what is needed for a safe jobsite and competent person. Including confined space entry needs. **Scott Berry and Tim Tice** **W/WW**	**Math for Operators** This class will cover the understanding of basic math concepts and formulas for water and wastewater operators including areas, volume, conversions, pounds, formulas, flow, head, and hydraulics and more for system operators. Please bring your calculators and system questions. **OAWU Staff** **W/WW**
03:00 – 03:15 PM		Break			
03:15 – 05:00 PM	0.175	**Only Two classes this session: Necanicum and Riverside B** **1:30 – 5:00**		**Confined Space and Jobsite Safety** Continued **Scott Berry and Tim Tice** **W/WW**	**Math for Operators** Continued **OAWU Staff** **W/WW**

THURSDAY		TOTAL CEUS 0.4 W/WW			AUGUST 21, 2025
07:00 – 08:00 AM		Continental Breakfast			
08:00 – 09:45 AM	0.175	**System O&M** Understanding what it takes to successfully operate and maintain a water and/or wastewater system. Everything from paperwork you keep, critical parts inventory, budget, training, staff succession, outlining and delegating tasks, monthly reports and tracking, staff and council/ board communication and public relations. **OAWU Board (Mike Edwards, Matt Johnson) W/WW**	**The Future Is Now: Digital Liquid Analysis in Water/Wastewater** From the source to the tap to wastewater collection and back again, we all rely on accurate analysis of water quality to ensure the success of our critical water processes. Measurement of water quality parameters has become more accurate and more user-friendly as analytical instrumentation has evolved. Digitalization is at the forefront of this evolution, enabling water managers and operators to access data more efficiently, resulting in better control over treatment processes and more consistent water quality outcomes. Water treatment processes require us to monitor critical parameters for water quality, including pH, Solids (dissolved, suspended), Conductivity, ORP, Nutrients, Dissolved Oxygen (DO), Biological Oxygen Demand (BOD)/ Chemical Oxygen Demand (COD), Disinfection Concentrations/Residuals Measured values for these and others allow us to adjust our processes and optimize water quality. Historically, the instruments used to measure these values required highly trained operators, frequent maintenance, and the use of chemicals and reagents. However, advancement in digital analytical instrumentation has simplified operations while also delivering more accurate data. This presentation will highlight “smart” digital probes and transmitters, which are easier to deploy and maintain. These instrumentations can store calibration data, alert you for preventative maintenance, and provide additional data to understand the health of your instrument. They require fewer reagents and less frequent services with user-friendly interfaces that provides more information for troubleshooting, maintenance, and ease of installation. The result is more consistent & accurate	**Optimizing Water Quality in Drinking Water Distribution Systems: The Role of Active Mixing** This presentation highlights the economic and operational benefits of optical sensors, including reduced reagent use, minimal calibration needs, and dependable performance across a wide range of parameters such as COD, BOD, nitrate, and turbidity. By leveraging UV-VIS and fluorescence-based technology, these sensors deliver stable, accurate data without the need for complex sample preparation or chemical handling. **Haley Goddard, Cleanwater1 W**	**YDO for DMRs** How to use Your DEQ Online to fill out your DMRs. **Mark Bentz, DEQ WW**

			measurement combined with simplified deployment. Water and Wastewater quality is only as good as our ability to measure it. If ensuring the quality of every drop is your goal, you will find value from this education session. **Megan Anders, Endress & Hauser USA** **W/WW**		
09:45 – 10:00 AM		Break			
10:00 – 12:00 AM	0.2	**Excavation Safety** What to expect during excavation and what to be aware of to maintain safety. **Larry Fipps, OSHA** **W/WW**	**On-Site Sodium Hypochlorite Generation: A Safe and Cost-Effective Solution for Disinfection** Economic advantages of OSHG, including excellent return on investment, better cost control, and enhanced operational planning for utilities. By utilizing safe and readily available raw materials such as electricity and salt, OSHG systems offer consistent operating costs over time. Real life examples. **Analyzing with Purpose: Elevating Water Quality Management through Innovative Sensor Solutions** Over the last decade, increasingly stringent water and wastewater monitoring regulations have driven significant advancements in analytical techniques and sensor technologies. Process optimization by the strategic use of advanced optical sensor technology—tools that deliver real-time, high-resolution data critical to ensuring quality, consistency, and compliance. **Jessica Mannhardt, Haley Goddard, CleanWater1** **W/WW**	**Program Update** See what is what is new and might be coming soon to OHA. **Kari Salis, OHA** **What Now? Practical Steps After Common Violations & Alerts** You've received a monitoring alert or a notice of violation—now what? This presentation is designed to guide drinking water operators through the steps to take after receiving common alerts or violations. We'll discuss navigating compliance requirements, documenting corrective actions, and improving communication with both regulating agencies and the public. Whether it's a missed sample, a positive coliform result, or an MCL exceedance, this course will review how to respond effectively to protect public health and maintain or return to compliance. **Nicole Alfafara, OHA** **W**	**Utility Leadership** Maximizing growth opportunities through delegation & responsibility while improving your team's depth of experience, knowledge and reliability. **Jason Green, OAWU** **W/WW**
12:00 – 12:15 PM	0.025	Closing Session: **Investing in the Future** (continued) System operations and mentoring for the future.			**Jason Green, OAWU** **W/WW**