

# 47<sup>th</sup> Annual Management & Technical Conference - March 2025 - ESAC

Monday, March 3, 2025		Pre-Conference Schedule		0.6 Total CEUs
<b>Great Hall</b> 8:00 am – 12:15 pm <b>Risk Assessment and Emergency Response</b> How to complete a risk assessment and be proactive and prepared for an emergency at your water and wastewater system. <i>Scott Berry, OAWU 0.4 W/WW CEUs</i> 1:00 pm – 4:15 pm <b>Emerging Contaminants PFOS Workshop</b> Class will provide an overview of sources and treatment options as well as current trends in regulations. <i>Keith Bedell, OAWU 0.3 W/WW CEUs</i>		<b>Landmark I/II</b> 9:00 am – 4:15 pm <b>Small Water System Training Course</b> 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. <i>Tim Tice, OAWU – 0.6 W CEUs</i> ESAC #TBA	<b>Heritage I</b> 9:00 am – 5:00 pm <b>Cross Connection Specialist Update</b> Obtain your Cross Connection Specialist updates and any updates on the cross-connection program. <i>Garrett Yates, BMI – 0.6 W CEUs</i> ESAC #TBA	<b>Heritage II</b> 8:00 am – 1:15 pm <b>Flagger Certification</b> Attend this ODOT flagger course to obtain flagger requirements. Attendees completing this course and exam become an ODOT certified flagger. <i>Bill Buterbaugh, ODOT 0.5 W/WW CEUs</i> ESAC #TBA

Tuesday, March 4, 2025 Conference Schedule				0.575 Total CEUs
10:00 – 10:30 am (0.05) Great Hall – <b>Utility Leadership</b> – Maximizing growth opportunities through delegation & responsibility while improving your team’s depth of experience, knowledge and reliability. <i>Jason Green, OAWU Executive Director.</i>				<b>W/WW</b>
10:30 – 11:00 am (0.05) Great Hall – <b>NRWA Update</b> – <i>Russ Cooper, NRWA Director, City of Monmouth.</i> The State of Water & Wastewater at the national level.				<b>W/WW</b>
11:00 – 12:00 pm (0.1) Great Hall – <b>Legislative Update</b> – <i>Mark Landauer, OAWU/SDAO Lobbyist</i> – The latest issues of the State Legislature activities concerning water and wastewater utilities.				<b>W/WW</b>
12 – 1 pm Lunch Break				
1 – 2:45 pm (0.175) Training Sessions				
<b>Great Hall</b> <b>Locating the Unknown</b> Conventional methods of locating with standard pipe and cable locators and new methods for the pipe that just doesn’t want located and found. <i>Nick Frappier, NW Hydrovac W/WW</i>	<b>Landmark I/II</b> <b>Control Valve Function, Maintenance, &amp; Troubleshooting</b> Basic hydraulics, valve function, pilot system function, valve components, pressure reducing valves, maintenance, as well as troubleshooting on hydraulic control valves. <i>Patrick Miller, CIMCO-GC System W/WW</i>	<b>Heritage I</b> <b>Pumps &amp; Related Equipment</b> Pump basics, everything from type, size, maintenance, understanding pump curves and more. <i>Lee Vernam, Pump Consulting Firm W/WW</i>	<b>Heritage II</b> <b>Strategies for Managing Aging Infrastructure</b> A small municipality’s struggles and adventures of developing an executable plan for managing our aging water and sewer systems. Real world, day to day operations and master planning. <i>Leo Newberg, Inn at Otter Crest W/WW</i>	
2:45 – 3 pm Break				
3 – 5 pm (0.2) Training Sessions				
<b>Great Hall</b> <b>System O&amp;M</b> 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	<b>Landmark I/II</b> <b>A Safe &amp; Cost-Effective Disinfection</b> On-site hypochlorite generation (OSHG) systems investing in the safety of operations staff and surrounding community while simultaneously providing a positive return on that investment.	<b>Heritage I</b> <b>Active Shooter</b> Today you are 18 times more likely to experience workplace violence than a fire. OSHA requires all employees to have Emergency Action Plans including a written plan and training for an Active Shooter event. Construct a plan for your water or wastewater	<b>Heritage II</b> <b>Confined Space</b> The ins and outs of confined space entry and a hands-on portion to see and use the applicable equipment. <i>Bill Buterbaugh, ODOT</i>	<b>W/WW</b>

tracking, staff and council/ board communication and public relations. <i>OAWU Board (Mike Edwards, Matt Johnson)</i> <b>W/WW</b>	<b>Unveiling the Science of Polymer Activation</b> Optimization of polymer use in water and wastewater treatment processes remains a challenge, select suitable polymer and employing appropriate mixing technologies. <i>Heley Goddard, Cleanwater1</i> <b>W/WW</b>	system. What to expect when police arrive, conduct a head count and train employees how to respond to an Active Shooter using the “Run, Hide, Fight” protocol. <i>Ray Johnson, BMI, Inc.</i> <b>W/WW/OS</b>	
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Wednesday, March 5, 2025 Conference Schedule			0.7 Total CEUs
8 – 9 am (0.1) Training Sessions			
<b><u>Great Hall</u></b> <b>Utility Maintenance</b> Navigate the waters of Utility Maintenance as Jake reflects on a year in the field of Utilities. Jake will discuss topics of Leak Detection, Valve Maintenance, GIS Integration, and other troubleshooting scenarios, bringing a fresh perspective and helpful tips for operators. <i>Jake Obrist, City of Bend</i> <b>W/WW</b>	<b><u>Landmark I/II</u></b> <b>Decoding Combination Control Valves</b> Automatic control valves with multiple pilots and functions. Aimed towards the more experienced operator, this course will review basic valve functions then look at the difference between hydraulic override and hydraulic backup. <i>Patrick Miller, CIMCO-GC Systems</i> <b>W/WW</b>	<b><u>Heritage I</u></b> <b>The Role of Smart Tanks in Distribution Water Quality Management</b> Today, the two most common distribution network violations that water utilities contend with are disinfection by products (DBPs) and violations of the Revised Total Coliform Rule. Switch to Chloramine? Chloramine levels remain difficult to maintain in networks due to their unique chemistry and degradation mechanisms. <i>Heley Goddard, Cleanwater1</i> <b>W</b>	<b><u>Heritage II</u></b> <b>Overcoming Telemetry &amp; SCADA Issues for Remote Sites</b> With hands-on demonstrations and troubleshooting exercises, participants will explore key principles of hub/spoke communication models, cellular telemetry, and SCADA integration. Optimize data collection, improve system uptime, and reduce manual site checks. <i>Jonathan Frank, Advanced Control Systems</i> <b>W/WW</b>
9 – 9:15 am Break			
9:15 – 10:15 am (0.1) Training Sessions			
<b><u>Great Hall</u></b> <b>I Scream, You Scream, We All Scream About PFAS!</b> Poly- and perfluoroalkyl substances (PFAS). We’ll discuss what an operator needs to understand and how to talk to the engineers. We’ll also discuss what new technologies are reliable and what’s on the cutting edge for treatment. <i>Heather Jennings, Huma Environmental</i> <b>W/WW</b>	<b><u>Landmark I/II</u></b> <b>Locating 101</b> Nearly a billion dollars in damages occur to underground water utilities each year in the USA due to inability or failure to locate pipelines. Some municipalities use a variety of different locating methods to find pipelines. The Science Behind Using Tracer Wire to Locate Pipelines <i>Patrick Miller, CIMCO-GC Systems</i> <b>W/WW</b>	<b><u>Heritage I</u></b> <b>Water Right Transfers</b> Consideration for how, the requirements for and when you can complete different types of transfers. <i>Laura Schroeder, Schroeder Law Offices</i> <b>W</b>	<b><u>Heritage II</u></b> <b>Basics of Membrane Bioreactor (MBR) Technology</b> Overview of Membrane Bioreactor (MBR) technology, covering key aspects of its design, operation, and troubleshooting. Produce effluent that meets Class A recycled water standard. Achieve nitrogen and phosphorus limits. <i>Hiro Kuge, KUBOTA Membrane USA Corporation</i> <b>WW</b>
10:15 – 10:30 am Break			
10:30 – 12 pm (0.15) Training Sessions			
<b><u>Great Hall</u></b> <b>New Locator Technology</b> Look at new locator technology, how it is used, and what pipe and location it will work best. <i>Scott Bevans, Ditch Witch West</i> <b>W/WW</b>	<b><u>Landmark I/II</u></b> <b>Confined Space &amp; Hydrant &amp; Valving Needs</b> This class will cover safety concerns and utility needs for entering and working around a confined space. Then will look at basic hydrant and valve use, maintenance, and repair. <i>Frank Ray, EJ</i> <b>W/WW</b>	<b><u>Heritage I</u></b> <b>Water Management &amp; Conservation Plan</b> WMCP overview, when it is required, and the steps necessary to complete them. <i>Laura Schroeder, Schroeder Law Offices</i> <b>W</b>	<b><u>Heritage II</u></b> <b>Sunriver Wastewater Plant Tour</b> See the real-life examples of a Conventional Activated Sludge System was upgraded into Membrane System <i>Andy Carlton, Sunriver LLC</i> <b>WW</b>
12 – 1 pm Lunch Break			
1 – 3 pm (0.2) Training Sessions			
<b><u>Great Hall</u></b> <b>Tip Selection and Vector Trucks</b>	<b><u>Landmark I/II</u></b>	<b><u>Heritage I</u></b> <b>Groundwater Treatment Issues</b>	<b><u>Heritage II</u></b> <b>Protecting the Collection System</b>

Hydro excavation, new technology, proper methods, equipment used, safety, and the use and applicability of different nozzle types. Tips, Tricks & Safety. <i>Shawn Patrick &amp; Dan Nelson, Owens Equipment</i> <b>W/WW</b>	<b>Source Water Protection and System Regulation</b> A look into source water protection and water system regulation/management/operation <i>Shersten Finley &amp; Russ Kazmierczak OR-OHA</i> <b>W</b>	How to treat Iron, Manganese, PFAS, Arsenic, Nitrate, and more. <i>Lee Odell, Goble Sampson</i> <b>W</b>	What to look for in storm or sanitary sewer systems and a look at technologies available to protect and extend the life of your infrastructure. Possibly with a live demo. <i>Doug Troyer, Underground Tech</i> <b>WW</b>
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### 3 – 3:30 pm Break

### 3:30 – 5 pm (0.15) Training Sessions

<b>Great Hall</b> <b>Injection Quills &amp; Static Mixers in Chemical Dosing</b> Chemical dosing in water treatment, the particulars of physically introducing chemical feeds into process flows involve specialized equipment in the form of injection quills and static mixers. Improve efficiency of a chemical dosing plan. <i>David Ballard, SAF-T-FLO Chemical Injection - Matthew Peters, Westfall Manufacturing</i> <b>W/WW</b>	<b>Landmark I/II</b> <b>Cybersecurity</b> Real life example of cybersecurity & what that looks like for your water or wastewater utility. <i>Dan Briley, Summit Security Co.</i> <b>W/WW</b>	<b>Heritage I</b> <b>AMI's Role in Your World</b> Technology advances can provide a critical role in your day to day. We will explore the many options available and how they will benefit your team and your customers! <i>Pat Hart, HD Fowler</i> <b>W</b>	<b>Heritage II</b> <b>Intelligent Pumping Systems</b> How to utilize the technology to meet our goals. <i>Simon Cartwright, Xylem-Flygt</i> <b>W/WW</b>
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## Thursday, March 6, 2025 Conference Schedule

0.675 Total CEUs

### 8 – 9 am (0.1) Training Sessions

<b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> Water and wastewater math problems typically encountered in the Level I & II certification exams. Percent and proportions and solving for X, volumes, detention, flow calculations, hydraulic and organic loading. Bring reliable calculators and notebooks to the workshop. <i>Tim Anderson, Wastewater Solutions International</i> <b>W/WW</b>	<b>Landmark I/II</b> <b>Microplastics</b> This emerging contaminant is a pollutant that can have negative impacts, let's look at what they are and how we may be able to treat for them in a water or wastewater system. <i>Heather Jennings, Huma Environmental</i> <b>W/WW</b>	<b>Heritage I</b> <b>Easements</b> Obtaining or expanding easements for water and wastewater infrastructure maintenance, repair or replacement. <i>Laura Schroeder, Schroeder Law Offices, P.C.</i> <b>W/WW</b>	<b>Heritage II</b> <b>YDO for DMRs</b> How to use Your DEQ Online to fill out your DMRs. <i>Martina Frey, Mark Bentz, DEQ</i> <b>WW</b>
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### 9 – 9:30 am Break

### 9:30 – 10:30 am (0.1) Training Sessions

<b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> (Continued) <b>W/WW</b>	<b>Landmark I/II</b> <b>Cyber Security Threats &amp; Best Practices for the Water Sector</b> CISA has identified the Water/Wastewater sector as a high priority. General cyber threats and more specifically, on OT cybersecurity best practices and current threats. <i>Leslie Kainoa, Cybersecurity and Infrastructure Security Agency</i> <b>W/WW</b>	<b>Heritage I</b> <b>Hydrant History</b> Some current model O&M and finish with the future of fire hydrants and emerging pressure monitoring features and benefits. <i>Vaughn Barber, M&amp;H/Kennedy Valve Co.</i> <b>W</b>	<b>Heritage II</b> <b>What to Expect When You Are Inspected</b> Review what DEQ will expect and be reviewing at your system during an inspection. <i>Tiffany Yelton-Bram, DEQ</i> <b>WW</b>
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10:30 – 11:00 am Exhibits			
11:00 – 12 pm (0.1) Training Sessions			
<b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> (Continued)  <b>W/WW</b>	<b>Landmark I/II</b> <b>Sampling and Laboratory Work; Client &amp; Laboratory Relationship</b> "How-to" for laboratory paperwork, sample acceptance policies, sampling locations per State requirements, OHA website navigation, laboratory procedures, UCMR5 PFAS sampling requirement overview, wastewater sampling, bottle ware, and the importance of the client and laboratory relationship. <i>Michelle Angland, Edge Analytical Bend</i> <b>W/WW</b>	<b>Heritage I</b> <b>Water Flow Meter</b> Specifying and understanding water flow meters. <i>Phil Pelletier, Furrow Pump</i> <b>W</b>	<b>Heritage II</b> <b>DEQ Wastewater Operator Certification Basics</b> 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. <i>Kimi Gryzb DEQ</i> <b>WW</b>
12 – 1:30 pm (0.1) Lunch Break with Exhibitors		Learn the latest applications, equipment, tools and techniques for the water and wastewater industry. <b>W/WW</b>	
1:30 – 2:45 pm (0.125) Training Sessions			
<b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> (Continued)  <b>W/WW</b>	<b>Landmark I/II</b> <b>Financial Roundtable</b> Panel Discussion of funding opportunities for water and wastewater systems. Concludes with Q&A to allow systems to discuss their specific projects. <i>Kim Young, USDA; Capi Lewis, IFA; CoBank, Tom Puttman, Puttman Infrastructure; Tony Fields, OHA</i> <b>W/WW</b>	<b>Heritage I</b> <b>Water Rights 101</b> For small groups domestics and quasi municipals, WMCPs, & Proving up on Permits <i>Jeremy Giffin, Carolyn Sufit, OWRD</i> <b>W</b>	<b>Heritage II</b> <b>Nite/Denite the Teeter Totter of Wastewater</b> Learning how to balance the needs of both microorganisms while dealing with BOD reduction. We’ll cover the specific requirements for these little divas, discuss troubleshooting and how to get them back. <i>Heather Jennings, Huma Environmental</i> <b>WW</b>
2:45 – 3:30 pm Exhibits			
3:30 – 5 pm (0.15) Training Sessions			
<b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> (Continued)  <b>W/WW</b>	<b>Landmark I/II</b> <b>Analytic sensors to the Next Level</b> How to troubleshoot and take instant readings from your equipment. <i>Rich Owens, Owens Pump &amp; Equipment</i> <b>W/WW</b>	<b>Heritage I</b> <b>Certification Updates</b> Reviewing certification rules and requirements for water distribution and treatment certifications. <i>Tony Fields, OHA</i> <b>W</b>	<b>Heritage II</b> <b>Updates on Permitting and Monitoring Requirements</b> This class will discuss new and upcoming updates on permitting and monitoring requirements for your facility. <i>Tiffany Yelton-Bram, DEQ</i> <b>WW</b>
Friday, March 7, 2025 Conference Schedule			
8 – 9 am (0.1) Training Sessions			0.375 Total CEUs
<b>Great Hall</b> <b>Chemical Feed Pumps</b> Water and wastewater chemical feed pump application, operation, maintenance, and installation. <i>Phil Pellitier, Furrow Pump</i> <b>W/WW</b>	<b>Landmark I/II</b> <b>Utility Revenue Billing</b> How a Utility’s Billing captures all of the potential revenue. Water and wastewater. How we calculate our Winter Quarter Averages for the sewer bills and water billing processes and procedures. <i>Mike Edwards, City of Bend</i> <b>W/WW</b>	<b>Heritage I</b> <b>Regulatory Update</b> Get an overview of any changes to OHA’s regulations and an introduction to some things that may be coming up in the future. <i>Michelle Byrd, OHA</i> <b>W</b>	<b>Heritage II</b> <b>Leak Detection</b> Different methods, tools, and practices of leak detection. <i>Spencer Cashwell, City of Bend</i> <b>W/WW</b>
9 – 9:15 am Break			

9:15 – 10:15 am (0.1) Training Sessions			
<u><b>Great Hall</b></u> <b>Chlorine Pumps</b> (Continued) <i>Phil Pellitier, Furrow Pump</i> <b>W/WW</b>	<u><b>Landmark I/II</b></u> <b>Utility Billing</b> (Continued) <i>Mike Edwards, City of Bend</i> <b>W/WW</b>	<u><b>Heritage I</b></u> <b>Updates to Data Online</b> Review the newest changes to data online, what they mean, and how to best use them. <i>Michelle Byrd, OHA</i> <b>W</b>	<u><b>Heritage II</b></u> <b>Wastewater Modeling Process &amp; Benefits</b> 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. <i>Samuel Novac, Novac Industries LLC</i> <b>WW</b>
10:15 – 10:30 am Break			
10:30 – 12 pm (0.15) Training Sessions			
<u><b>Great Hall</b></u> <b>OSHA Inspections</b> What to expect in and how to be prepared for an OR-OSHA inspection. <i>Larry Fipps, OSHA</i> <b>W/WW</b>	<u><b>Landmark I/II</b></u> <b>An Overview of Chlorine Disinfections Systems for Regional Treatment</b> This presentation will provide an overview gas chlorination as well as the most common alternatives - “bulk” 12.5% sodium hypochlorite and on-site sodium hypochlorite generation at 0.8% and on-site generation process. <i>Bryce Possiel, Xylem</i> <b>W/WW</b>	<u><b>Heritage I</b></u> <b>Cyanotoxins and the City of Salem</b> From the 2018 “Do not drink” notice to record toxin levels in the watershed in 2024, this class will cover discovery, impact, upgrades, treatment techniques and lessons learned since the discovery of cyanotoxins in 2018. <i>Cody Mars, City of Salem</i> <b>W</b>	<u><b>Heritage II</b></u> <b>Wastewater Modeling Process and Benefits</b> (Continued) <i>Samuel Novac, Novac Industries LLC</i> <b>WW</b>
12:00 – 12:15 pm (0.025) Great Hall – <b>Closing Session – Utility Leadership</b> – (continued) <i>Jason Green, OAWU Executive Director.</i> <b>W/WW</b>			