

<b>MONDAY PRE-CONFERENCE CLASSES</b>		<b>TOTAL CEUS 0.6 W/WW</b>		<b>AUGUST 22, 2022</b>	
9:00 am – 4:00 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. <b>Tim Tice, OAWU - 0.6 W CEUs ESAC #4328</b>		9:00 am – 12:00 pm <b>Risk Assessment &amp; Emergency Response</b> How to complete a risk assessment and be proactive and prepared for an emergency at your water and wastewater system. Scott Berry 0.3 <b>W/WW</b>		9:00 am – 4:45 pm <b>Cross Connection Specialist Update</b> Obtain your Cross Connection Specialist updates and any updates on the cross-connection program. <b>Garrett Yates, BMI – 0.6 W CEUs ESAC #4095</b>	
		1:00 pm – 4:00 pm <b>Emerging Contaminants PFOS</b> Class will provide an overview of sources and treatment options as well as current trends in regulations. Keith Bedell 0.3 <b>W/WW</b>			
<b>TUESDAY</b>				<b>(0.725) AUGUST 23, 2022</b>	
08:00 – 09:00 AM		Registration			
09:00 – 09:30 AM	0.05	Opening session: <b>Water and Wastewater Utility Leadership</b> Prepare for succession and how to build and influencing a capable, long lasting, and trustworthy crew. <b>Jason Green, OAWU W/WW</b>			
09:30 – 10:45 AM	0.125	<b>Legislative Update</b> The latest issues of the State Legislature activities concerning water and wastewater utilities. <b>Mark Landauer, SDAO, Jason Green, OAWU W/WW</b>			
10:45 – 11:00 AM		Break			
		<b>Necanicum</b>	<b>Riverside A</b>	<b>Riverside B</b>	<b>Seaside A/B</b>
11:00 – 12:00 PM	0.1	<b>Using and Locating Tracer</b> The how, when, where, and why of using tracer wire. <b>Steve Causseaux and Geoff Robinson, CIMCO-GC Systems W/WW/OS</b>	<b>Saving Money Pumping</b> Water pumping efficiencies and what is costing money, how much it is costing and how we can save money and prolong the life of our wells and pumping equipment. <b>Andy Andiyastika, Hose Solutions, Inc . W/WW/OS</b>	<b>Solutions for Control</b> Distribution maintenance and repair techniques to avoid water system shutdown. <b>Michael Erwin, Hydra-Stop W</b>	<b>Pretreatment 101 &amp; Industrial User Surveys</b> DEQs Pretreatment Program, federal and state regulations, and Community- Based Pretreatment Tools for developing local ordinances and BMPs to reduce the discharge of toxics or problem pollutants to the treatment plant. Why IU Survey? Know who is discharging to your WWTP. <b>Etsegenet Belete, DEQ WW</b>
12:00 – 01:00 PM		Lunch with Exhibit Time: The latest applications, equipment, tools, and techniques in our industry.			
01:00 – 03:00 PM	0.2	<b>Tip Selection and Combination Trucks</b> Review the application of hydro excavation, new technology, proper methods, equipment used, safety, and the use and applicability of different nozzle types. This class will cover different technologies, tips, tricks and operator’s safety in Hydro-Excavation and Combination trucks. <b>Eric Lundy, Owens Equipment W/WW/OS</b>	<b>Succession Planning &amp; Financial Viability</b> Succession planning & how to make healthy decisions for the workforce. Financial viability & maintaining a healthy industry. <b>Tim Tice, Jason Green, OAWU W/WW</b>	<b>Leak Detection &amp; Smart Meters</b> Integrated acoustic sensor housed in the meter presents an approach to increase the number of acoustic sensors in a water grid tenfold. <b>Tim Owens, Correct Equipment W</b> <b>Infrastructure as a service</b> A unique alternative to the traditional purchase of capital assets by offering a month-to-month, use-based service to communities. Case study – Jackson MS, Simmesport, LA	<b>DEQ Permitting Update</b> Join for a discussion on Individual NPDES permits. Planning, permit development which includes reasonable potential analysis and identification of pollutants of concern, permit processing, and measuring success <b>Jeffrey Navarro, DEQ WW</b> <b>Intro to DEQ Online</b> Over the next two years, Your DEQ Online will bring most of DEQ’s application, payment and reporting

				<b>Jason Hewitt, Sustainability Partners W</b>	processes into one cloud-based platform. What to expect for this new platform and a demonstration of the application process and key features of the system. <b>Margaret Gardner &amp; Jessica Lorenz, DEQ WW</b>
03:00 – 03:30 PM	<b>Break with Exhibit Time: The latest applications, equipment, tools, and techniques in our industry.</b>				
03:30 – 05:00 PM	0.15	<b>Leak Detection</b> Techniques, common equipment, and common mistakes in leak detection. <b>Mike Uthe, Mueller W/WW/OS</b>	<b>O&amp;M of Chemical Feed Pumps</b> What to choose - operational functions of both peristaltic pumps and diaphragm pumps relating to system parameters such as chemical, flows, pressures, and required ancillary equipment for water feeds and wastewater feeds. Showing parts replacement and identification. <b>Bill Ormsby, Blue-White W/WW</b>	<b>Preparation for AMI</b> AMI offers you asset management features that you simply have not had before. It's important to understand what you are receiving and being prepared for it. This class will cover those features and ways to best prepare. <b>Pat Hart, Ferguson Waterworks W</b>	<b>DEQ WW Operator Certification</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. <b>Kimi Grzyb, DEQ WW</b>
05:30 – 07:30 PM 0.1	<b>Dinner with Exhibit Time: The latest applications, equipment, tools, and techniques in our industry</b>				<b>W/WW</b>
<b>WEDNESDAY</b>					<b>(0.65) AUGUST 24, 2022</b>
07:00 – 08:00 AM	<b>Continental Breakfast Exhibit Hall</b>				
		<b>Necanicum</b>	<b>Riverside A</b>	<b>Riverside B</b>	<b>Seaside A/B</b>
08:00 – 09:30 AM	0.15	<b>On-Site Sodium Hypochlorite Generation</b> On-site hypochlorite generation (OSHG) systems for water and wastewater utilities are increasing as systems grapple with Risk Management Plans (RMPs) for gas chlorine disinfection and the operational or cost challenges of using bulk 12.5% sodium hypochlorite. OSHG systems use electricity to convert table salt (sodium chloride) into 0.8% (8,000 ppm) sodium hypochlorite. The latest generation of OSHG systems have emphasized safety, reliability, and maintainability and in the long run is usually cost affective. Lessons learned from over 30 yrs. of OSHG installations. <b>Ethan Brooke, UGSI Solutions, Inc. W/WW</b>	<b>Booster Pumps and Improvements</b> Learn the many options and features of different types of water booster pumps used in municipal water distribution. There are many different styles of pumps to transmit and boost your system water pressure. What do you need to keep your system maintenance free, and simple to run? <b>Rich Owens, Owens Pump &amp; Equipment W</b>	<b>AMI Options &amp; Water Distribution Mngt.</b> Technology to read water meters is changing rapidly. New Technologies like LoraWAN and Cellular AMI may allow even small systems to afford AMI technology. New battery powered technologies can turn an AMI system into a Water Distribution Management System, which leverage AMI consumption data to help reduce water loss, improve capital plans, and reduce costs. <b>Matt Zellers, Mueller W</b>	<b>CIPP Rehab for Wastewater Utilities</b> This presentation will focus on the use of Cured-In-Place pipe (CIPP) trenchless rehabilitation techniques for wastewater systems. This will include covering the current state of art in the industry, as well as diving into basic design philosophy. In addition, provide some examples of uses of the CIPP system in small and large diameter water/wastewater systems. <b>Amber Wagner, Aegion WW</b>
09:30 – 10:00 AM	<b>Exhibit Time: Learn the latest applications, equipment, tools, and techniques in our industry</b>				<b>W/WW</b>
10:00 – 12:00 PM	0.2	<b>Chemical Feeds Pumps</b> Water and Wastewater chemical feed pump application, operation, maintenance, and installation. <b>Phil Pelletier, Furrow Pump W/WW</b>	<b>Strategies for Managing Aging Infrastructure</b> Case study of a small municipality's struggles of developing an executable plan for managing our aging water and sewer systems. The details of developing plans and securing funding for our aging utility. The unique challenges faced by small	<b>Advanced Control Valve Application</b> Hydraulic control valves can cause uncertainty with water operators. What is happening inside a control valve to achieve its function? What happens if it malfunctions? What can cause it to malfunction? How do we approach these valves safely if they do malfunction?	<b>Pre-Treatment &amp; FOG Ordinances</b> This training will discuss the necessity of having Pre-Treatment and FOG (Fats, Oils, and Grease) ordinances for your utility as dictated by federal regulation. This presentation will include discussions on why these ordinances are beneficial to municipal and

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			<p>municipalities when navigating state and federal funding options. Real world, day to day operations and master planning.  <b>Leo Newberg, Inn at Otter Crest W/WW</b></p>	<p>Beginning with the basic understanding of hydraulic valves, then how to approach these valves safely for shut down, troubleshooting, and start up.  <b>Steve Causseaux, CIMCO-GC Systems W</b></p>	<p>industrial facilities and provide ideas on how to inspect and enforce your ordinances.  <b>Rick Allen, Biolyneus WW</b></p>
12:00 – 01:30 PM		<b>Lunch</b>			
01:30 – 03:00 PM	0.15	<p><b>Asset Management &amp; New Tech</b>                      Local governments struggle with maintenance and operations of their assets, while trying to upkeep their infrastructure to the state of good repair, and comply with various regulations, condition assessments, and reporting requirements. Organizations confront challenges with tactical maintenance management, strategic asset management, strategic planning, capital and comprehensive planning, rate setting, project management, forecasts, and budgets etc. Moreover, several federal, state, and insurance agencies are mandating electronic asset management for ongoing reporting, funding, operations etc. Use real time data to implement or enhance asset management programs for utilities. What are the best tools to do your jobs in the local govt? What kind of technology should you be investing in that integrates with GIS? What protocols or trends are upcoming that you should consider leveraging?  <b>Arnab Bhowmick, AAKAVS AKTIVOV W/WW</b></p>	<p><b>Math for Operators</b>                      This class will cover the understanding of basic math concepts and formulas for water and wastewater operators including areas, volume, conversions, pounds formula, velocity, flow, head and hydraulics and more for system operators. Please bring your calculators and system questions.  <b>OAWU Staff W/WW/OS</b></p>	<p><b>Only Two classes this session: Necanicum and Riverside A 1:30 – 4:45</b></p>	
03:00 – 03:15 PM		<b>Break</b>			
03:15 – 04:45 PM	0.15	<p><b>Asset Management &amp; New Tech</b>                      Continued <b>W/WW</b></p>	<p><b>Math for Operators</b>                      Continued <b>W/WW/OS</b></p>	<p><b>Only Two classes this session: Necanicum and Riverside A 1:30 – 4:45</b></p>	

<b>THURSDAY</b>		<b>(0.4) AUGUST 25, 2022</b>			
07:00 – 08:00 AM		<b>Continental Breakfast</b>			
08:00 – 09:45 AM	0.175	<b>System O&amp;M</b> 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. <b>OAWU Board (Mike Edwards, Matt Johnson, Tim Lyda) W/WW</b>	<b>Building an Effective Lead and Copper Rule Program</b> Complying with the Lead and Copper Rule (LCR) can be one of the most complex and time consuming of the Smart Water Drinking Act rules. The good news is resources and technology are available to ensure water professionals across the country can confidently and effectively develop a successful LCR program. In this presentation, 120Water will provide a toolkit water professionals can keep in their arsenal to maneuver the complexities of the revised LCR and ensure program success, as well as explore Oregon funding mechanisms for empowering these programs. <b>Lowell Huffman, 120Water W</b>	<b>Certification Update</b> Reviewing certification rules and requirements for water distribution and treatment certifications. <b>Tony Fields, OHA W</b>	<b>Peracetic Acid Disinfection in WW Treatment</b> Peracetic acid (PAA) is an up-and-coming alternative disinfectant for primary, secondary, and tertiary wastewater treatment. As a liquid chemistry with a strong oxidation potential, second only to ozone, PAA performs as a strong biocide and provides bacterial deactivation in a shorter time frame than the more prevalent chlorine alternatives. PAA does not require the use of neutralizing chemistry for residual in effluent wastewater streams due to its non-persistent nature and lack of production of harmful by-products such as Trihalomethanes (THMs). Applications can be setup simply with peristaltic or diaphragm pumps and drum or tote chemical supply. <b>Jacquelyn Wilson, Enviro Tech WW</b>
09:45 – 10:00 AM		<b>Break</b>			
10:00 – 11:45 AM	0.175	<b>OSHA Inspections</b> What to expect in and how to be prepared for an OR-OSHA inspection. <b>Larry Fipps, OSHA W/WW</b>	<b>Communicating with Engineers</b> Effective ways to communicate with engineers on your water and wastewater projects. Getting your point across in a technical world is vital to any water and wastewater project that will need to be engineered. Come learn methods to be clear and concise so that the engineer can understand what we want at our systems. <b>Mike Grimm, West Slope Water District W/WW/OS</b>	<b>Service Line Inventory</b> How to prepare for and complete the new service line inventory requirement for the LCRR. <b>Chuck Michael, OHA W</b>	<b>Collection System Management</b> Program discussion of FOG (Fats, Oils, and Grease), odors, H2S mitigation, corrosion, and the damaging impacts of contaminants. Key strategies to improve collection system management. Programs and protocols along with emerging issues to improve wastewater programs and incorporating pre-treatment and collection system management strategies. <b>Rick Allen, BioLynceus WW</b>
11:45 – 12:15 PM	0.05	<b>Closing Session: Water and Wastewater Utility Leadership (continued)</b> Prepare for succession and how to build and influencing a capable, long lasting, and trustworthy crew.			<b>Jason Green, OAWU W/WW</b>