

MONDAY PRE-CONFERENCE CLASSES	TOTAL CEUS 0.6 W/WW	AUGUST 17, 2020
<p>9:00 am – 4:00 pm</p> <p><b>Small Water System Training Course</b></p> <p>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.</p> <p><b>Tim Tice, OAWU</b> - 0.6 W / 0.4 WW CEUs ESAC #3577</p>	<p>9:00 am – 4:30 pm</p> <p><b>Effective Utility Management</b></p> <p>Participate in a workshop for success at your water and wastewater facility. Look at challenges such as aging infrastructure, growth, and adequate revenues that reflect true operational costs today and in the future. At this workshop, you will be involved in ten key management areas, assessing your strengths and weaknesses with a framework conducive of a well-rounded water and wastewater utility management approach.</p> <ul style="list-style-type: none"> <li>• 9:00-10:30 (0.15) Review of the “Keys to Success” pertaining to leadership, strategy planning, organization structure and measurement with an on-going framework towards improvement for water and wastewater utilities.</li> <li>• 10:30-10:45 Break</li> <li>• 10:45-12:15 (0.15) Understanding the current conditions, providing a “ranking” order of attributes and deficiencies of 10 areas in your water and wastewater utility, which will allow for providing and implementing an improvement plan.</li> <li>• 12:15-1:15 Lunch Break</li> <li>• 1:15-3:15 (0.2) A look at the detail measurement of root causes in areas of under-performance and developing methods to reach the goals and timeframe associated with reaching the goal for your water and wastewater utility.</li> <li>• 3:15-3:30 Break</li> <li>• 3:30-4:30 (0.1) Water and wastewater operators and decision makers will use resource tools to define and select the best management practices for specific challenges are to mitigate concerns and position the utility for the future.</li> </ul> <p><b>Scott Berry, OAWU</b> – 0.6 W/WW CEUs</p>	<p>9:00 am – 4:45 pm</p> <p><b>Cross Connection Specialist Update</b></p> <p>Obtain your Cross Connection Specialist updates and any updates on the cross connection program.</p> <p><b>Garrett Yates, BMI</b> – 0.6 W CEUs ESAC #3388</p>

<b>TUESDAY</b>		<b>AUGUST 18, 2020</b>			
08:00 – 09:00 AM		Registration			
09:00 – 09:30 AM	0.05	Opening session: <b>Building Opportunities for your Water and Wastewater Utility Operators</b> Improving operations through professional growth at your water and wastewater utility during unprecedented times. <b>Jason Green, OAWU</b> <b>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</b> <b>W/WW</b>			
10:45 – 11:00 AM		<b>Break</b>			
		<b>Necanicum</b>	<b>Riverside A</b>	<b>Riverside B</b>	<b>Seaside A/B</b>
11:00 – 12:00 PM	0.1	<b>Asphalt Use in Utilities: Code of Practices</b> The “why we use” and the “where we use.” We will discuss the most recent innovations, special materials for extended service life, and the latest in the code of practices for asphalt for the water and wastewater industry. <b>Bill Bailly, EZ Street/Lakeside Industries</b> <b>W/WW/OS</b>	<b>Emergency Response Plans</b> How to create and use the Emergency Response Plan for an emergency including from the view of Covid-19  <b>Tony Fields, OHA-DWS</b> <b>W</b>	<b>Flexible Drop Pipe – Saving Money Pumping</b> We will explain how installing your submersible pump with Flexible Drop Pipes results in big energy savings over the life of your well. We will also discuss different installation and retrieval techniques, maintenance and rehab procedures, permanent and temporary applications for wastewater. We will also touch on corrosion resistance, lack of internal scaling and other benefits integral to Flexible Drop Pipes. <b>Andy Andiyastika, Hose Solutions, Inc.</b> <b>W/WW/OS</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. <b>Kimi Gryzb, DEQ</b> <b>WW/OS</b>
12:00 – 01:00 PM		<b>Lunch with Exhibit Time: The latest applications, equipment, tools, and techniques in our industry.</b>			
01:00 – 03:00 PM	0.2	<b>Active Shooter</b> Today you are 18 times more likely to experience workplace violence than a fire. OSHA requires all employers to have Emergency Action Plans including a written plan and training for an Active Shooter event. Learn how to construct a plan for your water or wastewater 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. <b>Ray Johnson, City of The Dalles</b> <b>W/WW/OS</b>	<b>Certification Update</b> Reviewing certification rules and requirements for water distribution and treatment certifications. <b>Tony Fields, OHA-DWS</b> <b>W</b>	<b>Renovating and Maintaining Steel and Concrete Storage Tanks</b> Six benefits of full-service preventive tank maintenance programs that will be discussed are: single source responsibility, balanced funding, evaluation and planning, regulatory & GASB 34 compliance, annual inspection and maintenance, and emergency repair service. These asset management programs can meet the requirements of GASB 34 for asset management programs under the modified approach to infrastructure asset reporting. <b>Jeff Austin, Suez</b> <b>W/WW/OS</b>	<b>Pretreatment and Permitting update</b> DEQ panel covering Pretreatment, Permitting update along with general Q&A for DEQ staff. <b>Genet Belete, Jeff Navarro, Nina DeConcini, DEQ</b> <b>WW/OS</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	<p><b>On-Site Sodium Hypochlorite Generation: A Safe and Reliable Disinfection Alternative</b></p> <p>Water and wastewater utilities continue to grapple with the onerous complexity of risk management plans (RMPs) in the case of gas chlorine disinfection and the operational or cost challenges of using bulk 12.5% sodium hypochlorite for disinfection. OSHG systems which have been utilized in North America since the early 1990's use electricity to convert simple table salt (sodium chloride) into 0.8% (8,000 ppm) bleach or sodium hypochlorite. The latest generation of OSHG systems have a designed-in emphasis on safety, reliability and maintainability. Design advances such as the vertical electrolytic cell which vents by-product hydrogen immediately away from the system, modular cell configurations which allow for operational contingencies, efficient power management and open architecture have all contributed to the latest surge in OSHG adoption. In most regions, acceptable paybacks are achieved by replacing bulk hypochlorite delivery with enhanced operator and ratepayer safety as a bonus.</p> <p><b>Ethan Brooke, UGSI Solutions, Inc.</b> W/WW/OS</p>	<p><b>Municipal Extensions</b></p> <p>Using Incremental Development to Limit "Fish Persistence" Reductions on "Green Light" Water.</p> <p><b>Laura Schroeder, Schroeder Law</b> W</p>	<p><b>AMR/AMI Planning and Decisions</b></p> <p>Mueller Systems and Consolidated Supply will take you thru the process of selecting the solution that is best for your City/Water District and the planning involved with the solution you select. This will cover different types of meters and AMR/AMI solutions.</p> <p><b>Jon Koch, Consolidated Supply</b> <b>Drew Baird, Consolidated Supply</b> <b>Matt Zellors, Mueller</b> W</p>	<p><b>Financial Roundtable</b></p> <p>Panel Discussion overview of funding opportunities each agency has available for water and wastewater systems. Concludes with Q&amp;A to allow systems to discuss their specific projects.</p> <p><b>USDA-RD, DEQ, OHA, WRD, CoBank, Puttman Infrastructure</b> W/WW/OS</p>
05:30 – 07:30 PM	0.1	<p><b>Dinner with Exhibit Time: The latest applications, equipment, tools, and techniques in our industry</b></p>			W/WW

**WEDNESDAY****AUGUST 19, 2020**

07:00 – 08:00 AM		<b>Continental Breakfast Exhibit Hall</b>			
08:00 – 09:30 AM	0.15	<b>The Tree: What do you do when it is in your easement or right-of-way?</b> Learn: (1) what types of property interests will permit you to remove trees and shrubs from an easement without liability to the landowner, (2) how to conduct research to discover what, if any, property interest you hold to the place where the tree is growing, (3) what additional research is required if the property interest is not in writing, (4) how to read a license, easement, or right-of-way, (5) what legal actions may be undertaken in order to remove the tree, (6) what limits may be imposed by the landowner in a tree removal, (7) how to prevent encroachment, and (8) ideas to plan for use of your easement by third parties. <b>Laura Schroeder, Schroeder Law Offices</b> <b>W/WW/OS</b>	<b>Asset Management through Water Pipeline Condition Assessment, Permanent Leak and Pressure Management</b> Smart Water Technology is rapidly changing how Drinking Water Transmission and Distribution Systems will be managed. The use of non-invasive pipeline condition assessment along with permanent leak and pressure management is now the way to assess and manage your drinking water piping systems. Intelligent use of your water dollars through these water system management technologies will be explored and explained during this training. <b>Greg Howells, Mueller</b> <b>Mike Uthe, Mueller</b> <b>W/OS</b>	<b>Sodium Hypochlorite Basics</b> This course gives the viewer an overview of the different types of sodium hypochlorite and how they differ, allowing viewer ability to determine what will work best in their facility. Properties and decomposition are defined so plant personnel understand how to handle, manage, store, and deliver this chemical within parameters specific to their plants. Discussion also includes design considerations for those in engineering and those involved in remodeling a chemical system. If time permits the discussion will cover using GHS compliant Safety Data Sheets for training purposes. <b>Gabriel Talesa, HASA, Inc.</b> <b>W/WW/OS</b>	<b>The Dreaded Flushables – Are They Really Flushable? Really?</b> Emerging trends in wastewater operations. Today, municipalities large and small are being inundated with materials that should never be “Flushed.” Probably, the most challenging and costly plague affecting wastewater operations everywhere are products promoted as “Flushable” that are not bio-degradable. These materials are advertised in ways that negatively impact wastewater operations. Massive amounts of materials are causing problems in our collection systems, or are causing unnecessary challenges with lift stations, pumps and equipment in wastewater treatment operations. <b>Rick Allen, Biolynceus</b> <b>WW/OS</b>
09:30 – 10:00 AM		<b>Exhibit Time: Learn the latest applications, equipment, tools, and techniques in our industry</b>			
10:00 – 12:00 PM	0.2	<b>Speech Communication and The Art of Dialogue with Water and Wastewater Customers</b> This class will focus on some common pitfalls when communicating with your Customers. Learn basic skills to better enhance your conversation and dialogue with both internal and external customers by better understanding how to deal with the customers perspective from their worldview. Learn the value of crossing over into various communication communities and speak their language. <b>Mike Edwards, City of Bend</b> <b>W/WW/OS</b>	<b>Water Loss Reduction</b> This class will discuss how to manage water loss with four main points. First will be on pressure management and how using control valves, demand based set points, and DMAs can reduce water loss. The next will be on active leakage control and how monitoring systems can help remotely catch leaks before they become catastrophic. The third will be on the speed and quality of repairs to existing leaks. Lastly, the class will cover the pipeline and asset management process and how to best plan a replacement program. <b>Mike Uthe, Mueller</b> <b>W</b>	<b>Real World Strategies for Managing Aging Infrastructure – An Everyman’s Approach to Everyone’s Problems</b> This session will walk through the real-world challenges faced by a small 50-year-old municipality/ property located on the Oregon Coast. The property had suffered through the typical cycles of deferred maintenance and decades of deterioration which was compounded by a complete lack of documentation or maintenance plans. Over the past three years we have undertaken the challenge of developing a sustainable long-term maintenance plan. We will discuss the value of professional partnerships, and the steps we are undertaking to implement the tools required for success, including GIS mapping, CMMS asset management program, budgeting and scheduling. This is seriously far more interesting than it sounds. <b>Leo Newberg, Inn at Otter Crest</b>	<b>Pipe Maintenance and Rehabilitation</b> Ice Pigging, Acoustic Condition Assessment and Structural Epoxy Rehabilitation. Problems typically caused by sediment and biofilm build-up that accumulate over time within the distribution system mains can eventually manifest in consumer and regulatory issues. Many water and wastewater authorities also face the challenge of a limited capital budget and aging infrastructure. To compound this problem, smaller systems may have unknown service histories, making their useful life more difficult to assess. This presentation discusses unique approaches to cleaning, assessing, and rehabilitation of pipes in water and wastewater systems. It describes a technique for cleaning potable, raw, and wastewater lines using Ice Pigging. Also, as a means of bridging the gap between available capital funds and the capital requirements of replacing aging mains,

26<sup>th</sup> Annual Summer Classic Scheduling – Outline - Seaside, OR

				<b>w/WW/OS</b>	pipeline condition assessment ensure that these limited capital funds are spent where they are most needed. Furthermore, Pipe replacement may not always be the most cost-effective approach. Alternative methods of restoration of aging piping systems using state of the art robotic spray application combined with 100% solids epoxy coating systems may offer a better solution. The coating system bonds with the piping system– preventing and sealing cracks– and moves with the structure, abating leaks caused by settlement. This process protects against future corrosion & degradation, Extends the service life of system piping & components, and enhances water quality. <b>Jeff Austin, SUEZ</b> <b>w/WW/OS</b>
12:00 – 01:30 PM		<b>Lunch</b>			
01:30 – 03:00 PM	0.15	<b>Only Two classes this session: Necanicum and Riverside B 1:30 – 4:45</b>	<b>Preparing for a Water System Survey and Wastewater System Inspection</b> Discuss the process and elements of a water system survey and wastewater inspections, identifying those common deficiencies discovered in past reviews. Using experience and evaluation criteria to look at your water and wastewater systems to stay in compliance. Review the process of daily operations and design deficiencies to establish goals and practices to maintain compliance in your Water and Wastewater Systems. <b>Heath Cokeley, Jeff Crowther, OAWU</b> <b>w/WW/OS</b>	<b>Chemical Feed Pumps and Flow Meters</b> Water and Wastewater chemical feed pump application, operation, maintenance, and installation including the math that goes into it. Specifying and understanding water flowmeters. <b>Phil Pelletier, Furrow Pump</b> <b>w/WW/OS</b>	
03:00 – 03:15 PM		<b>Break</b>			
03:15 – 04:45 PM	0.15	<b>Only Two classes this session: Necanicum and Riverside B 1:30 – 4:45</b>	<b>Preparing for a Water System Survey and Wastewater System Inspection</b> Continued <b>w/WW/OS</b>	<b>Chemical Feed Pumps and Flow Meters</b> Continued <b>w/WW/OS</b>	
<b>THURSDAY</b> <b>AUGUST 20, 2020</b>					
07:00 – 08:00 AM		<b>Continental Breakfast</b>			

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08:00 – 09:45 AM	0.175	<b>Five Ss To Excavation Safety</b> Role of competent person, underground installations, access & egress, vehicular traffic, hazardous atmospheres, stability of adjacent structures, protection from loose soil, inspections & fall protection. <b>Eric Fullan, City of Hillsboro      W/WW/OS</b>	<b>Basic Pump Theory and Application</b> Outline the basic theory and design of centrifugal pumps, including submersible, vertical turbine, and centrifugal. Explain most common problems of suction and discharge sides, Troubleshooting of pumps and motors. <b>Ed Butts PE, CPI, 4B Engineering      W/WW/OS</b>	<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, Tim Lyda, Mark Beam, Matt Johnson, Craig Smith)      W/WW/OS</b>	<b>An Operators Perspective on the MAO Process with DEQ</b> An operator's perspective on handling a MAO agreement with DEQ. How and why it is needed, what can the operator do, and how does the MAO help the plant operator and City? <b>Matt Etzel, City of Aumsville      WW/OS</b>
09:45 – 10:00 AM		<b>Break</b>			
10:00 – 11:45 AM	0.175	<b>Five Ss To Excavation Safety (continued)</b> <b>Eric Fullan, City of Hillsboro      W/WW/OS</b>	<b>Water Rights 101 and Supply Resiliency</b> An overview of the Water Rights process for a municipality including drought preparedness, forecasting future water needs, grant opportunities and curtailment planning. <b>Kerri Cope, WRD      W</b>	<b>Public Meeting Procedures and Municipal Board Governance</b> Address specific components requirements for conducting public meetings, structuring the meeting and information requirements for public participation. <b>Laura Schroeder, Schroeder Law Offices      W/WW/OS</b>	<b>No Class</b>
11:45 – 12:15 PM	0.05	<b>Closing Session: Building Opportunities for your Water and Wastewater Utility Operators (continued from Tuesday)</b> Improving operations through professional growth at your water and wastewater utility during unprecedented times.			
				<b>Jason Green, OAWU</b>	<b>W/WW</b>