TUESDAY	TOTAL CEU'S: 0.7 W/WW	OCTOBER 31, 2023
Time		
07:30 – 08:00 AM	Registration	
	Kalapuya A/B	Molalla A/B
08:00 – 10:00 AM 0.2	**Locating the Unknown** Conventional methods of locating with standard pipe and cable locators and new methods for the pipe that just doesn't want located and found. Showing different methods and ways in the process. If time allows we can go outside and perform some of the techniques. **Nick Frappier, NW Hydro Vac** **W/WW**	**NO Class**
10:00 – 10:15 AM	Break	
10:15 – 12:00 PM 0.175	**The Role We Play for Emergencies** Are you ready for an emergency? Fire, earthquake, snow, flooding they all require one same thing, You! We will talk about emergencies for water & wastewater systems from the 30,000 foot level. Look at resources you may know about and others you don't. I will be sharing tools that I have used to get a volunteer work force, grants, equipment, and further education. **Dan Weitzle, City of Manzanita** **W/WW**	**Your DEQ Online** A recorded video tutorial that shows the registration process for YDO with information about how to submit applications and payments online. **Kimi Grzyb, Oregon DEQ** **WW** **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, Oregon DEQ** **WW**
12:00 – 01:00 PM	Lunch provided	
01:00 – 02:00 PM 0.1	**Operator's Round Table** Questions and answers with the OAWU staff around real-life stories on project management, board interaction, and problem solving at your water and wastewater utilities. **Scott Berry, Keith Bedell, Heath Cokeley, OAWU** **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, Inc .** **W**
02:00 – 02:15 PM	Break	
02:15 – 03:30 PM 0.125	**Air Mitigation in Fluid Conveyance: Are we Strangling our Pipes?** This class will offer a very brief primer on fluid hydraulics as it relates to the presence of air/gas in municipal pipelines, then explore the valve types and their applications. We will finish up by investigating AWWA sizing guidelines as well as operation & maintenance. **Geoff Robinson, Cimco-GC Systems** **W/WW**	**Acoustic Leak Detection and Smart Water Meters** Integrated acoustic sensor housed in the meter presents an approach to increase the number of acoustic sensors in a water grid tenfold. **Tim Owens, Correct Equipment** **W**
03:30 – 03:45 PM	Break	
03:45 – 04:45 PM 0.1	**Building a Pipeline that's Traceable for the Life of the Pipeline** Explore how grounding, splices, and access points, along with a robust tracer wire, all fit	**Solutions for Control: Distribution Maintenance & Repair Techniques to Avoid System Shutdown** Hydra-Stop LLC is a manufacturer of insertion valves with technology to install a permanent valve live, under pressure, in less than two hours

		into a project pipeline that is traceable for the duration of its lifespan. **Geoff Robinson, Cimco-GC Systems** **W/WW**	without disrupting the system. The information that will be discussed covers the benefits of the technology, performance testing against industry standards, a deconstruction of the valve components, and real-world applications of this solution (hydrant replacements, water main rehabs, lift station renovations and more). Valve insertion technology helps prevent major shutdowns and disruptions especially in critical infrastructure areas that include hospitals, retirement homes, schools, businesses and factories. Traditional methods of maintaining water systems, such as shutdowns, cause unforeseen problems down the line, including as boil orders and future breaks. The information learned can be considered to avoid such problems and give operators peace of mind. These efficient processes allow utilities to make repairs or additions without the disruption of service to their customers. **Michael Urwin, Hydra-Stop** **W**
WEDNESDAY		**TOTAL CEU'S: 0.725 W/WW**	**NOVEMBER 1, 2023**
07:00 – 08:00 AM		Coffee	
08:00 – 10:00 AM	0.2	**Who's the Boss? Public and Private Entity Requirements for Meetings & Records** Board training - general responsibilities, liabilities and properly taking care of and retaining good employees. **Laura Schroder, Schroeder Law Offices** **W/WW**	**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. 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 real world, day to day operations and master planning. **Leo Newberg, Inn at Otter Crest** **W/WW**
10:00 – 10:30 AM		Break	
10:30 – 12:00 PM	0.15	**Tools and Tech for Business Continuity in Public Works** Major technologies, business processes, and personnel requirements e.g. business continuity planning, succession planning, emergency response, crisis management, cloud and mobility, asset management, distributed workforce mobilization, and many other important things to become resilient as an organization, and be ready for business continuity. **Arnab Bhowmick, AAKAVS AKTIVOV** **W/WW**	**Know What You Have to Know What You Need: Creating A Water Rights Inventory to Meet Deadlines/Required Conditions Including WMCP's** Importance of managing and protecting your water rights and meeting wmcp and green light water requirements. **Laura Schroeder, Schroeder Law Offices** **W**
12:00 – 01:30 PM	0.1	Lunch with Exhibitors provided	**W/WW**
01:30 – 03:00 PM	0.15	**Working With Your Engineer** Look at real life examples of working through project design and implementation with an engineer. How to communicate successfully to get the desired project outcomes. **Chad McMurry, Mackay Sposito** **W/WW**	**Design, Operation, and Troubleshooting of Membrane Bioreactor (MBR) System** This course will cover the basics of Membrane Bioreactor (MBR) process including how to design, operate and troubleshoot. With treated effluent quality getting tighter and tighter in Northwest as well as around the country, any

			wastewater treatment plant can be upgraded to MBR process. The operators can learn what it is like to have a MBR plant and how to operate by going through couple case studies. This course will also cover how to troubleshoot the MBR plant. **Hiro Kuge, Kubota Membrane** **WW**
03:00 – 03:30 PM		Break	
03:30 – 04:45 PM	0.125	**Spirit Mountain Casino Water and Wastewater Plant Tour** This class will be taking a tour of the membrane plants owned and operated by Spirit Mountain Casino. In depth processes of both the water and the wastewater plant will be explained starting with the water coming out of the river, through the treatment process to make it safe for human consumption, then through the wastewater treatment plant to treat the wastewater to a standard that allows it to be released back into the environment. **Hiro Kuge, Kubota Membrane** **W/WW**	**Safe & Compliant Contracting of Diving Services for Water System Operators** An overview of regulatory requirements and diving industry best practices aimed at allowing water district operators to adequately assess the safety of diving operations being conducted on elevated structures and inside permit-controlled confined spaces. **Troy Gessner, Integrated Underwater Services** **W**
THURSDAY		**TOTAL CEU'S: 0.575 W/WW**	**NOVEMBER 2, 2023**
07:00 – 08:00 AM		Coffee	
08:00 – 10:00 AM	0.2	**Machine Learning / Artificial Intelligence Applications for Small Systems** Table top asset management assessments and paper inventory records are typically still employed by small drinking water utility. But ML/AI technology is easier than ever to use and offers significant benefits to small systems for asset management plans and customer service line inventories, for example. This presentation shares the experience of how a small system can use ML/AI economically to improve the utility. **Mike Grimm, West Slope Water District** **W/WW** **Flow Meters** The ins and outs of flow meters used in the water and wastewater industry will be discussed in this presentation. **Phil Pelletier, Furrow Pump** **W/WW**	**Certification Update** Reviewing certification rules and requirements for water distribution and treatment certifications. **Tony Fields, OHA** **W**
10:00 – 10:15 AM		Break	
10:15 – 12:00 PM	0.175	**Pumping Chlorine: The Good, the Bad and the Ugly** We will talk about how difficult chlorine is to pump and how most people who design the system don't realize how hard it is to pump. Many people who operate the chlorine systems think it is their fault that the chlorine system won't pump consistently. Most times it is a combination of poor design and poor installation. We can help them fix both of those. **Phil Pelletier, Furrow Pump** **W/WW**	**DWS Cert Update** Reviewing certification rules and requirements for water distribution and treatment certifications. **Service Line Inventories** How to prepare for and complete the new service line inventory requirement for the LCRR. **Kari Salis, OHA-DWS** **W**
12:00 – 01:00 PM		Lunch provided	

01:00 – 02:00 PM	0.1	**USDA Funding Options** This class will focus on the funding options for water and wastewater systems available through USDA Rural Development in Oregon. There will be discussion on the steps to take before a project is off the ground and working through the project from the funding side of things. **Holly Halligan, Deanna Quimby, USDA W/WW**	**New EPA requirement: Asset Management Implementation** America's Water Infrastructure Act of 2018 amended Section 1420 subsections (c)(2) and (c)(3) of the SDWA: A description of how the state will, as appropriate, encourage development by public water systems of asset management plans that include best practices for asset management; and (ii) assist, including through the provision of technical assistance, public water systems in training operators or other relevant and appropriate persons in implementing such asset management plans. This presentation will include an explanation of Asset Management and how Oregon will implement the new AWIA Act of 2018 requirement. **Phebe Howe, OHA W**
02:00 – 02:15 PM		Break	
02:15 – 03:15 PM	0.1	**Preparing for and Recovering from Wildfires for W/WW Facilities** This class will go over the basics of what could be done by your water and wastewater facilities before, during and after a wildfire. **Heath Cokeley, Scott Berry, OAWU W/WW**	**NO Class**