

# 46<sup>th</sup> Annual Management & Technical Conference - March 2024

Monday, March 4, 2024	Pre-Conference Schedule	0.6 Total CEUs	
<p><b>Great Hall</b> 8:00 am – 10:00 am  <b>Cybersecurity</b>                      How to deal with cybersecurity for water and wastewater systems.  <i>Leslie Kainoa, CISA 0.2 W/WW CEUs</i>                      ESAC #TBA</p> <p>10:15 am – 12:15 pm  <b>The Nexis</b>                      Where Cybersecurity meets physical security and dealing with unmanned aircrafts above your treatment plants.  <i>Chase Jones, CISA 0.2 W/WW CEUs</i>                      ESAC #TBA</p>	<p><b>Landmark I/II</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.  <i>Garrett Yates, BMI – 0.6 W CEUs</i>                      ESAC #TBA</p>	<p><b>Heritage I</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.  <i>Tim Tice, OAWU – 0.6 W CEUs</i>                      ESAC #TBA</p>	<p><b>Heritage II</b> 8:00 am – 1:00 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</p>

Tuesday, March 5, 2024 Conference Schedule		0.575 Total CEUs	
10:00 – 10:30 am (0.05) Great Hall – <b>Utility Leadership Growth</b> – Becoming a more effective leader at your utility begins with communication and self-evaluation. <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			
<p><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. Showing different methods and ways in the process. If time allows, we can go outside and perform some of the techniques.  <i>Nick Frappier, NW Hydrovac W/WW</i></p>	<p><b>Landmark I/II</b>  <b>Cybersecurity for Rural Water Systems: ICS, SCADA, and OT Cybersecurity Threat Vectors, Attack Preparedness, and Government Compliance - Part I &amp; Part II</b>                      Risk Management for those in charge of ICS (Industrial Control System), SCADA and other OT (Operational Technology) devices and systems is becoming more challenging as these systems are becoming more frequent targets of attack. In addition, new government cybersecurity regulations, mandates and recommendations must be understood, and a pathway to compliance undertaken. This special 2-part workshop for rural Oregon public water systems (PWS) and Circuit Riders will discuss:                      • PART I: Current Threat Landscape for Small U.S. Sites with SCADA, ICS, and/or OT                      o Exactly Who and What are Being Targeted (and Why)</p>	<p><b>Heritage I</b>  <b>Safe and compliant contracting of diving services for water districts</b>                      Help utility operators understand their potential liability exposure for unsafe diving practices on their projects                      -Give a basic, common-sense guide to applicable regulatory and industry best practice standards for commercial diving, especially in permit-required confined spaces                      -Provide examples of past violations and the resulting repercussions from the OSHA incident database                      -Provide a high-level guide for safety and compliance assessment of a diving worksite  <i>Troy Gessner, Integrated Water Services W</i></p>	<p><b>Heritage II</b>  <b>Wastewater Microbial Analysis Basic to Intermediate</b>                      Microbes are what makes wastewater treatment possible so let's get to know them better! We'll start with basic bacteria, protozoa and metazoan and then advance to filament identification. We'll cover process control and how to identify issues under the microscope as well as recovery. Basic gram staining will also be practiced. Bring a sample and let's get nerdy!  <i>Heather Jennings, Huma Environmental WW</i></p>

- o How ICS, SCADA and OT Ransomware and Other Cyber Attack Scenarios Vs. Critical Infrastructure (like PWSs) Play Out Today
- o A Real-time Look at What Attackers See
- PART II: How Small PWSs can Defend Themselves While Also Affordably Addressing Current and Future Government Compliance
- o The Importance of You and Your Team Gaining Real Visibility
- o How to Respond to a Possible Attack (Including How to Engage CISA (U.S. Cybersecurity & Infrastructure Security Agency) and report a cyber incident)
- o Discussion of the Best Free and Inexpensive Tools, and Available Cybersecurity Funding
- o Exercises – The 33 Cybersecurity Requirements from EPA, Cyber Event/Incident Drill

*Steven Menges, Alpha Guardian Networks*

W/WW

2:45 – 3 pm Break

3 – 5 pm (0.2) Training Sessions

**Great Hall**  
**Confined Space Safety and Challenges**  
 Better understand the challenges and safety concerns with confined spaces at water and wastewater utilities.  
*Bill Buterbaugh, ODOT* W/WW

**Landmark I/II**  
**Cybersecurity for Rural Water Systems: ICS, SCADA, and OT Cybersecurity Threat Vectors, Attack Preparedness, and Government Compliance - Part I & Part II**  
 (Continued)  
*Steven Menges, Alpha Guardian Networks*

W/WW

**Heritage I**  
**Status of Transfers of Storage Water Right Certificates in Oregon**  
 Since 2018, the Oregon Water Resources Department has maintained that it does not have the authority to process or approve storage water right certificate transfers. This position has significant implications for water right holders that would like to change the place of use or point of diversion for reservoirs and ponds. This presentation will provide a background of this issue and discuss the status of a pending case that challenges the Department’s position.  
**Updates on Oregon’s New Groundwater Allocation Rules**  
 In Spring 2023, the Oregon Water Resources Department convened a rulemaking advisory committee to develop a new set of rules to guide allocation of Oregon’s groundwater. The scope and importance of this rulemaking process has generated extensive scrutiny from stakeholders and the Oregon legislature. This presentation will provide updates about the current status of the rules and discuss the potential implications of the rules.  
*Marika Sitz, Jordan Ramis*

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**Heritage II**  
**Lagoon Operation and Maintenance Basic to Intermediate**  
 Lagoons have been around for a long time, that being said I’ve never met the same lagoon twice in 20 yrs. We’ll cover the benefits and challenges of the three common types of lagoons, anaerobic, aerobic and facultative. Next we’ll discuss lagoon design, fluid dynamics and short circuiting. We will also cover lagoon health, water profiles in lagoons and how algae help lagoon systems.  
*Heather Jennings, Huma Environmental*

WW

8 – 9 am (0.1) Training Sessions

<p><b>Great Hall</b>  <b>I Scream, You Scream, We All Scream About PFAS!</b>                  Poly- and perfluoroalkyl substances (PFAS) are the bane of our existence. Love them or hate them we are all having to deal with the ramifications of their use in both water and wastewater. As we deal with rapid regulatory changes, aging infrastructure and variable quantities of 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></p>	<p><b>Landmark I/II</b>  <b>Acoustic Leak Detection</b>                  Learn about the latest acoustic leak sensing technology in the industry that provides undoubtedly the highest NRW Return on Investment.  <i>Tim Owens &amp; James Maushart, Correct Equipment</i> <b>W/WW</b></p>	<p><b>Heritage I</b>  <b>Control Valves: Purpose, Function, Maintenance</b>                  This class will include the following: basic hydraulics, valve functions, pilot system function, valve components, pressure reducing and relief valves, troubleshooting of common valves. With this foundational knowledge operators will be able to set, troubleshoot, and maintain their system more effectively.  <i>Steve Causseaux, Cimco-GC Systems</i> <b>W/WW</b></p>	<p><b>Heritage II</b>  <b>Simple Industrial Wastewater Treatment / Pre-Treatment</b>                  What are the current and possible future options for industrial wastewater treatment? We will describe what is currently being used, what advantages they have, and their disadvantages. There will also be a discussion on upcoming technologies that could replace the current technology.  <i>Rich Owens, Owens Pump &amp; Equipment</i> <b>WW</b></p>
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9 – 9:15 am Break

9:15 – 10:15 am (0.1) Training Sessions

<p><b>Great Hall</b>  <b>Cybersecurity</b>                  Real life example of cybersecurity and what that looks like for your water or wastewater utility  <i>Dan Briley, Summit Security Group</i> <b>W/WW</b></p>	<p><b>Landmark I/II</b>  <b>Building Resilience and Adapting to Climate Change Impacts for Northwest Drinking Water and Wastewater Utilities</b>                  Climate change impacts pose an immediate and long-term threat to the continuity of wastewater, stormwater, and drinking water (water sector) utility operations and water supplies. To reduce the risks associated with climate-related hazards, the Environmental Protection Agency's (EPA) Creating Resilient Water Utilities (CRWU) initiative provides training through a collaborative technical assistance process and provides online tools designed to educate the water sector on climate science and adaptation options.                  This session will communicate the real-world challenges and successes of water sector utilities in adapting to the impacts of climate change. EPA will highlight the Climate Resilience Evaluation and Awareness Tool (CREAT) and the Resilient Strategies Guide, applications that guide water utility managers through the climate risk assessment process and help them to evaluate adaptation priorities. CRWU will also demonstrate our Climate Data Maps, which provide easy-to-access historical</p>	<p><b>Heritage I</b>  <b>Control Valves: Purpose, Function, Maintenance</b>                  (continued)  <i>Steve Causseaux, Cimco-GC Systems</i> <b>W/WW</b></p>	<p><b>Heritage II</b>  <b>Alternative to Gravity Sewer - Pressure Sewer</b>                  The Industry Misunderstanding of Low-Pressure Sewer: Flow Study and Analysis of Gravity vs Low Pressure Collection Systems.  <i>Christine McTavish, Environment One Corporation</i> <b>WW</b></p>
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and projected climate data from CREAT, and are useful for utility decision making. Additionally, a water sector utility Case Study will be presented by, or about, an Oregon water utility that has worked with CRWU (likely the City of Portland and/or the City of Hillsboro). Experiences from climate impact, vulnerabilities of utility assets, lessons learned in the adaptation planning process, and the process of using of CRWU tools will be shared. Funding opportunities for financing resilient infrastructure will also be discussed. An audience-driven question and answer session will follow the presentations.  
*Curt Baranowski, EPA* **W/WW**

10:15 – 10:30 am Break

10:30 – 12 pm (0.15) Training Sessions

**Great Hall**  
**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**

**Landmark I/II**  
**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**

**Heritage I**  
**Asset Management and Emergency/ Events Response**  
 Keeping and tracking infrastructure age and repair needs and how this information is important in emergencies.  
*Arnab Bhowmick, Aktivov Asset Management* **W/WW**

**Heritage II**  
**Sewer System maintenance**  
 New ways of cleaning and televising Sewer and Storm systems.  
*Sheldon Teeples, Subsite Electronics* **WW**

12 – 1 pm Lunch Break

1 – 3 pm (0.2) Training Sessions

**Great Hall**  
**Out of Boundary Water**  
 The importance and criteria for drafting a contract for out of boundary water and wastewater services.  
*Laura Schroeder, Schroeder Law Offices, P.C.* **W/WW**

**Landmark I/II**  
**Safety & the Supervisor**  
 The class goes into the relationship between supervision and a safe operation. It includes OR-OSHA rules related to supervisors and safety. There will be a discussion on what safety is and how to create a safety culture. The class is good for supervisors, lead people and safety committee members because it provides ideas on improving employee safety.

**Heritage I**  
**Asset Management and Emergency/ Events Response**  
 (Continued)  
*Arnab Bhowmick, Aktivov Asset Management* **W/WW**

**Heritage II**  
**Modern Lift Station Design**  
 Look into the importance of lift station design and how this can create a better functioning station that is easier to maintain.  
*Simon Cartwright, Xylem-Flygt* **WW**

3 – 3:15 pm Break

3:15 – 5 pm (0.175) Training Sessions

<p><b>Great Hall</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> W/WW</p>	<p><b>Landmark I/II</b> <b>Trenchless Technologies</b> Will cover everything related to installing utilities using trenchless methods. Go over Directional Drilling, Pipe Bursting and Slip lining, Piercing tools, pipe extraction and slitting, CIPP (Cast in Place Pipe), Pipe Ramming and Auger Boring. An overview of each method. Along with a few project highlights. <i>Scott Bevens, Ditch Witch West</i> W/WW</p>	<p><b>Heritage I</b> <b>Tip Selection and Vector 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 trucks. <i>Shawn Patrick and Dan Nelson, Owens Equipment</i> W/WW/OS</p>	<p><b>Heritage II</b> <b>Confined Space and Hydrant and 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> W/WW</p>
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Thursday, March 7, 2024 Conference Schedule

0.725 Total CEUs

8 – 9 am (0.1) Training Sessions

<p><b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> Basic problem-solving ability needed to evaluate and control water and wastewater systems and those math problems typically encountered in the Level I &amp; II water and wastewater certification exams. The instruction begins with basic math instruction, including percent and proportions and solving for X, and then moves to areas and volumes, detention time, flow calculations, hydraulic and organic loading and progresses to specialty areas in wastewater treatment. The workshop materials include many practice problems to help operators become proficient in basic problem solving. Student should bring reliable calculators and notebooks to the workshop. Handouts, including math problems and reference materials, will be provided. <i>Tim Anderson, Wastewater Solutions International</i> W/WW</p>	<p><b>Landmark I/II</b> <b>Remote Monitoring Technology</b> Remote monitoring has evolved where customers can now use this tech as a “tool in their toolset” to better run their collections or distribution systems by using data to drive decisions. There are case studies included in this presentation from across North America, including some examples of monitoring applications within the state of Oregon. Real-time remote water level monitoring can identify locations where a possible sewer system overflow (SSO) is developing and alarm these conditions before the overflow, allowing field staff to visit the site and perform corrective actions. It can be used to indicate water levels in tanks or monitor backwash ponds. By placing the remote monitors at sites which are cleaned multiple times a year (due to FOG, roots, etc), water levels are wirelessly transmitted in real-time to the operator, and the knowledge of these water levels and the lack of problems at these sites has enabled re-deployment of staff to other problem areas. This yields both ROI in time and money within one year of utilizing the system. By utilizing this same set up, agencies can now monitor H2S levels in their sewer systems as well. This new feature can assist in odor studies, dosing, and overall health of the pipe/manhole.</p>	<p><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>Amy Word, OHA</i> W</p>	<p><b>Heritage II</b> <b>Prioritizing Sewer Maintenance Using Acoustic Technology</b> Stop cleaning clean pipes! InfoSense, Inc. is the manufacturer of the Sewer Line Rapid Assessment Tool, or SL-RAT®, an award-winning acoustic inspection technology used to screen for blockages in small-diameter gravity sewers. The tool allows utilities to focus their collection system resources on areas with identified needs allowing them to inspect more and clean better. <i>Gene Hallum, InfoSense</i> WW</p>
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9 – 9:15 am Break

9:15 – 10:15 am (0.1) Training Sessions

<p><b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> (Continued)</p> <p style="text-align: right;">W/WW</p>	<p><b>Landmark I/II</b> <b>Locating 101: The Science of Using Tracing Wire Systems</b> Underground utility locating continues to challenge water districts due to its time consuming, unpredictable, and inexact process. With the various pipeline materials, sizes, and ages in the ground, different methods are used with varying results. One of the most common methods is the placing of tracer wire during pipe installation and directly connecting to that tracer wire years later to locate pipe. Sometimes the pipeline can be found easily using tracer wire and other times, well, the exact location of the pipe and wire baffles district personnel. This class breaks down different locating methods, how tracer wire works, how the common use of tracer wire only sometimes produces reliable results, and how to build a robust tracer wire system that will last the life of the pipeline. <i>Steve Causseaux, Cimco-GC Systems</i> W/WW</p>	<p><b>Heritage I</b> <b>Municipal Water Rights</b> The little-known intricacies of municipal Water rights that you should know <i>Tamera Smith, Kerri Cope, OWRD</i> W</p>	<p><b>Heritage II</b> <b>Your DEQ Online</b> How online will be used for operator certification and a general NPDES permit program update. <i>Kimi Gryzb, DEQ</i> WW</p>
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10:15 – 10:45 am Exhibits

10:45 – 12 pm (0.125) Training Sessions

<p><b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> (Continued)</p> <p style="text-align: right;">W/WW</p>	<p><b>Landmark I/II</b> <b>Laboratory Work and Sampling</b> Review of the best practices for water and wastewater laboratory work and sampling. <i>Michelle Angland, Edge Analytical Bend</i> W/WW</p>	<p><b>Heritage I</b> <b>LCCR Improvements/LSL Inventory</b> A look at the methods and questions with the lead service line inventory and the improvements to the <i>Amy Word, OHA</i> W</p>	<p><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> WW</p>
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12 – 1:30 pm (0.1) Lunch Break with Exhibitors Learn the latest applications, equipment, tools and techniques for the water and wastewater industry. W/WW

1:30 – 2:45 pm (0.125) Training Sessions

<p><b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> (Continued)</p> <p style="text-align: right;">W/WW</p>	<p><b>Landmark I/II</b> <b>Flexible and Reliable SCADA Systems</b> Reliability in SCADA is becoming more an more important, especially with cyber attacks increasing. Learn how you can control, and be flexible with multiple systems into one simple, and easy to use system with advancements to protect against cyber attack. <i>Rich Owens, Owens Pump &amp; Equipment</i> W/WW</p>	<p><b>Heritage I</b> <b>Emergency Response Plans and Other Considerations</b> Public notice recommendations, water hauling, treatment/distribution trailers, etc. During emergencies. <i>Chantal Wikstrom, OHA</i> W</p>	<p><b>Heritage II</b> <b>Financial Roundtable</b> 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. <i>Kim Young, USDA; Capi Lewis, IFA; CoBank, Tom Puttman, Puttman Infrastructure; Tony Fields, OHA</i></p>
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2:45 – 3:15 pm Exhibits

3:15 – 5 pm (0.175) Training Sessions

<p><b>Great Hall</b> <b>Basic Math for Water/Wastewater Operators</b> (Continued)</p> <p style="text-align: right;">W/WW</p>	<p><b>Landmark I/II</b> <b>Chemical Feed Pumps</b> Water &amp; Wastewater chemical feed pump application, operation, maintenance, &amp; installation. <i>Phil Pelletier, Furrow Pump</i></p> <p style="text-align: right;">W/WW</p>	<p><b>Heritage I</b> <b>Certification Updates</b> Reviewing certification rules and requirements for water distribution and treatment certifications. <i>Tony Fields, OHA</i></p> <p style="text-align: right;">W</p>	<p><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. <b>How to Read Your Permit</b> It is vital for wastewater systems to review, become familiar with, and understand there permits. <i>Tiffany Yelton-Bram, DEQ</i></p> <p style="text-align: right;">WW</p>
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Friday, March 8, 2024 Conference Schedule

0.375 Total CEUs

8 – 9 am (0.1) Training Sessions

<p><b>Great Hall</b> <b>Customer Calls</b> How to respond to strange customer calls Real life examples pertaining to water taste and odor complaints and some really weird calls pertaining to bathroom fixture staining and other weird anomalies we are researching and testing for. <i>Mike Edwards, City of Bend</i></p> <p style="text-align: right;">W/WW</p>	<p><b>Landmark I/II</b> <b>Underground Utility Locating</b> See how GPR, inductive, and witching techniques work and understand the pros and cons for them. <i>Anthony Timineri, City of Bend</i></p> <p style="text-align: right;">W/WW</p>	<p><b>Heritage I</b> <b>Navigating New Construction and Source for Hillsboro</b> The construction of the new WWSS WTP and the System Integration work to make sure when the new WTP comes online the Distribution system is ready and able to handle the new water source. <i>Chris Wilson &amp; Jessica Dorsey, City of Hillsboro</i></p> <p style="text-align: right;">W</p>	<p><b>Heritage II</b> <b>Eliminating Fat, Oil, Grease (FOG), Odor, and H2s in the wet wells of lift stations</b> Each year, millions of dollars are spent in attempts to eliminate odors, H2S, and FOG caps in wet wells. In almost all cases, the root cause of these problems is the harmful anaerobic microbes that thrive in stagnant, septic, oxygen-deprived wet wells. The Wet Well Wizard uses a patented oxygen injection system to drive the growth of helpful, aerobic microbes in these wet wells. The new aerobic microbes replace the harmful anaerobic bugs which eliminate H2S while emulsifying FOG. As the water flows downstream, these aerobic bugs continue to fight FOG, H2S, and other noxious odors. <i>Gene Hallum, InfoSense</i></p> <p style="text-align: right;">WW</p>
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9 – 9:15 am Break

9:15 – 10:15 am (0.1) Training Sessions

<p><b>Great Hall</b> <b>Customer Calls</b> (Continued) <i>Mike Edwards, City of Bend</i></p> <p style="text-align: right;">W/WW</p>	<p><b>Landmark I/II</b> <b>Underground Utility Locating</b> (Continued) <i>Anthony Timineri, City of Bend</i></p> <p style="text-align: right;">W/WW</p>	<p><b>Heritage I</b> <b>Land Conservation for Source Water Protection</b> Protecting Oregon’s drinking water resources is critical to support growing populations, ensure clean, reliable, and safe drinking water while providing economic benefits to a community. A public water system or community can use source water protection</p>	<p><b>Heritage II</b> <b>Collection System Management and the World of Pretreatment</b> Do we have a program and are we monitoring our Industrial &amp; Commercial Customers? This presentation focuses on best practices for maintaining collection</p>
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		<p>strategies to maintain or improve the quality and quantity of their drinking water. Voluntary land conservation, including ownership and conservation easements, provides a unique way for water providers and communities to collaborate with landowners within their drinking watersheds to protect their drinking water.</p> <p><i>Michelle Smith, Oregon Land Trusts and Alyssa Leidel, OR DEQ</i> <b>W</b></p>	<p>systems, Industrial &amp; Commercial pollutants, FOG.</p> <p><i>Ken Navidi,, Bainbridge Associates</i> <b>WW</b></p>
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10:15 – 10:30 am Break

10:30 – 12 pm (0.15) Training Sessions

<p><b>Great Hall</b>  <b>The Role We Play for Emergencies</b>          Are you ready for an emergency? Fire, earthquake, snow, flooding they all require one same thing, You! We will talk about emergencies 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.</p> <p><i>Dan Weitzle, City of Manzanita</i> <b>W/WW</b></p>	<p><b>Landmark I/II</b>  <b>One Inventory to Rule them All</b>          Hillsboro Water's Quest for LCRR Lead Service Line Inventory Compliance - In response to the EPA's Lead and Copper Rule Revision's Lead Service Line Inventory requirements, Hillsboro Water began its long and winding journey toward compliance. From digging through old ArcGIS Model Builder outputs to mining data from our own records, and even enlisting customer's help along the way. With efforts made possible by inter-departmental alliances, this fellowship completed its quest to identify and compile all utility-owned and customer-owned service line materials into one public-facing inventory, to rule them all.</p> <p><i>Symon Powlison, Alyssa MacDonald, City of Hillsboro</i> <b>W</b></p>	<p><b>Heritage I</b>  <b>Flow Meter Limitations</b>          How shall we calibrate these meters? Discusses Open Channel and Closed Pipe Flow Meters, when and where to use them, we will also discuss how to calibrate meters.</p> <p><i>Ken Navidi,, Bainbridge Associates</i> <b>W/WW</b></p>	<p><b>Heritage II</b>  <b>Wastewater Modeling Process and Benefits</b>          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 &amp; infiltration rehab, planning and development studies and future flow predictions for design storms and urban growth boundary expansions.</p> <p><i>Samuel Novac, Novac Industries LLC</i> <b>WW</b></p>
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12:00 – 12:15 pm (0.025) Great Hall – **Closing Session – Utility Leadership Growth** – (continued) *Jason Green, OAWU Executive Director.* **W/WW**