

45th Annual Management & Technical Conference - March 2023

Monday, March 6, 2023	Pre-Conference Schedule	0.6 Total CEUs
<p>Great Hall 8:00 am – 12:00 pm Water and Wastewater Field Operations and Safety When in the field what are effective and safe operations and competent person protocol when managing a work site. <i>Scott Berry</i> 0.4 W/WW CEUs ESAC #TBA</p>	<p>Landmark I/II 9:00 am – 4:00 pm Small Water System Training Course 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</i> – 0.6 W CEUs ESAC #4328</p>	<p>Heritage I 9:00 am – 4:45 pm Cross Connection Specialist Update Obtain your Cross Connection Specialist updates and any updates on the cross connection program. <i>Garrett Yates, BMI</i> – 0.6 W CEUs ESAC #TBA</p>
<p>Heritage II 8:00 am – 1:00 pm Flagger Certification Attend this ODOT flagger course to obtain flagger requirements. Attendees completing this course and exam become an ODOT certified flagger. <i>Bill Buterbaugh, ODOT</i> 0.5 W/WW CEUs ESAC #TBA</p>		

Tuesday, March 7, 2023 Conference Schedule	0.575 Total CEUs
<p>10:00 – 10:30 am (0.05) Great Hall – Water and Wastewater Utility Management and Operations – Passing the Torch - Some tips and examples on mentoring and training with a purpose towards excellence in service, leadership, and utility operations. <i>Jason Green, OAWU Executive Director.</i> W/WW</p>	
<p>10:30 – 11:00 am (0.05) Great Hall – NRWA Update – <i>John O’Connell, NRWA Board President, Russ Cooper, City of Monmouth.</i> The State of Water & Wastewater at the national level. W/WW</p>	
<p>11:00 – 12:00 pm (0.1) Great Hall – Legislative Update – <i>Mark Landauer, OAWU/SDAO Lobbyist</i> – The latest issues of the State Legislature activities concerning water and wastewater utilities. W/WW</p>	
12 – 1 pm Lunch Break	
1 – 2:45 pm (0.175) Training Sessions	
<p>Great Hall 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 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. <i>Dan Weitzle, City of Manzanita</i> W/WW</p>	<p>Landmark I/II Cyber Security Threats & Best Practices for the Water Sector CISA has identified the Water/Wastewater sector as a high priority and for good reason. It is foundational critical infrastructure all communities depend on. Bad actors are targeting water/wastewater entities, so it’s crucial to ensure cyber protections are implemented. The presentation will focus on general cyber threats and more specifically, on OT cybersecurity best practices and current threats. It will also outline cyber services CISA provides at no charge to help organizations evaluate and improve their cyber security posture. <i>Theresa Masse, Leslie Kainoa, Cybersecurity and Infrastructure Security Agency</i> W/WW</p>
<p>Heritage I Pipe Condition Assessment Learn was to complete your pipe condition assessment for pressurized water and wastewater pipelines. <i>Mike Uthe, Muller and Tim Brown</i> W/WW</p>	<p>Heritage II Upgrading wastewater Lagoons for cold-weather ammonia removal Complete cold-weather ammonia removal, improved energy efficiency, and increased capacity in lagoons during cold weather. <i>Brady O’Leary, Triplepoint Environmental</i> WW</p>
2:45 – 3 pm Break	
3 – 5 pm (0.2) Training Sessions	

<p>Great Hall System O&M 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. <i>OAWU Board (Mike Edward and Matt Johnson)</i></p> <p style="text-align: right;">W/WW</p>	<p>Landmark I/II On-Site Sodium Hypochlorite Generation This seminar will provide water system managers, operators and engineers a practical understanding of the science and implementation behind on-site sodium hypochlorite generation (OSHG) as a source of chlorine disinfection capacity for water and wastewater plants as well as distributed well systems. <i>Ethan Brooke, UGSI Solutions, Inc.</i></p> <p style="text-align: right;">W/WW</p>	<p>Heritage I Control Valve Basics Hydraulic control valves – how they’re built, how they work, and where they’re used <i>Steve Causseaux and Geoff Robinson, Cimco-GC Systems</i></p> <p style="text-align: right;">W</p>	<p>Heritage II Cyber Security on the OT Network How to maintain security on your water and wastewater utility network and ways to combat incoming threats. <i>Greg Chase, Portland Engineering Inc.</i></p> <p style="text-align: right;">W/WW</p>
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Wednesday, March 8, 2023 Conference Schedule **0.725 Total CEUs**

8 – 9 am (0.1) Training Sessions

<p>Great Hall 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. <i>Chad McMurry, Mackay Spósito</i></p> <p style="text-align: right;">W/WW</p>	<p>Landmark I/II Using Tracer Wire Systems to Locate Pipelines Tracer wire systems 101, installation, components, methods, and new technologies for water and wastewater. <i>Geoff Robinson, Steve Causseaux, Cimco-GC Systems</i></p> <p style="text-align: right;">W/WW</p>	<p>Heritage I Past, Present & Future of Hydrants Look into where hydrants were, where we are at now, and look into the new technology coming out such as data collection with smart equipment. <i>Vaughn Barber, M&H Kennedy Valve</i></p> <p style="text-align: right;">W</p>	<p>Heritage II Simple Industrial Wastewater Treatment / Pre-Treatment 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 & Equipment</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>Great Hall Lab Work Look at sampling procedures and the required paperwork for water and wastewater labs. <i>Lisa Leming, Umpqua Research</i></p> <p style="text-align: right;">W/WW</p>	<p>Landmark I/II Air Valves How combinations, air-vacs, and air-release valves work, and how they are vital to protect your water and wastewater systems. <i>Geoff Robinson, Steve Causseaux, Cimco-GC Systems</i></p> <p style="text-align: right;">W/WW</p>	<p>Heritage I Water Booster Pumps & Improvements How to upgrade you booster pumps to the new century, and how to keep them updated without minimal maintenance and repair in the future. <i>Rich Owens, Owens Pump & Equipment</i></p> <p style="text-align: right;">W</p>	<p>Heritage II Utilizing Acoustic Inspection to Prioritize Sewer Cleaning The enabling technology for moving to a condition-based maintenance strategy as well as an overview of the Sewer Line Rapid Assessment Tool, or SL-RAT. <i>Gene Hallum, InfoSense</i></p> <p style="text-align: right;">WW</p>
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10:15 – 10:30 am Break

10:30 – 12 pm (0.15) Training Sessions

<p>Great Hall Utility Locating This class will be covering the utility locator process from start to finish. We will be hands on with various types of locators and processes. I will cover from the call to your local utility</p>	<p>Landmark I/II If Check Valves Were Cars Explore many different check valve types, their uses, and new technologies recently introduced. <i>Geoff Robinson, Steve Causseaux, Cimco-GC Systems</i></p> <p style="text-align: right;">W/WW</p>	<p>Heritage I What of your meters could hear what you cannot see New technology in the meter world can help locate leaks and throughout your distribution system even when the leaks aren’t surfacing, 24/7.</p>	<p>Heritage II Intelligent Pumping Systems How to utilize the technology to meet our goals for your pumping system. <i>Simon Cartwright, Xylem-Flygt</i></p> <p style="text-align: right;">WW</p>
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company, verifying marked utilities, soft excavation of said utilities, and even into the installation of new utilities. <i>Nick Frappier, NW Hydrovac Corp.</i> W/WW		<i>Tim Owens, Correct Equipment</i> W	
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12 – 1 pm Lunch Break

1 – 3 pm (0.2) Training Sessions

<p>Great Hall Open Channel Flow Monitoring and Chlorine and pH Sensors Learn about methods and technology to monitor flows in an open channel. Also see the benefits of specific chloring and pH sensors. <i>Ken Navidi, Bainbridge Associates LLC</i> W/WW</p>	<p>Landmark I/II 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. <i>Arnab Bhowmick, AAKAVS AKTIVOV</i> W/WW</p>	<p>Heritage I Operation, Applications and Maintenance of Automatic Control Valves what a Control Valve is, the basic premise of how and why they work, Applications and Maintenance. The Parts that make up the Main Valve – what they are made of, what their function is, and how to inspect them. Flow Rates, Dimensions, Pressure Drop, and various optional materials of construction. Pilot Valves – What they are made of, how they work, how to set, how to troubleshoot and how to repair. Applications: Pressure Reducing, Pressure Relief, Electronic, and Pump Control. Troubleshooting to find out why a valve won't come open or won't close or won't regulate. Preventative Maintenance and Regularly Scheduled Maintenance that includes Valve Assessment. <i>Jim Lugo, Watts Water Technologies</i> W</p>	<p>Heritage II Membrane Systems and Headworks An in-depth look membrane technology and the importance of headworks. <i>Hiro Kuge, Kubota membrane USA corp., Doug Allie, Goble Sampson</i> WW</p>
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3 – 3:15 pm Break

3:15 – 5 pm (0.175) Training Sessions

<p>Great Hall Workforce Development Recruiting, training and incentivizing tomorrow's Operators <i>Niki Iverson and Chris Wilson, City of Hillsboro</i> W/WW</p>	<p>Landmark I/II Tools and Tech for Business Continuity in Public Works (Continued) <i>Arnab Bhowmick, AAKAVS AKTIVOV</i> W/WW</p>	<p>Heritage I 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. <i>Nicolas Steverlynck, Hose Solutions</i> W</p>	<p>Heritage II Sunriver Wastewater Plant Tour See the real-life examples of a Conventional Activated Sludge System was upgraded into Membrane System <i>Hiro Kuge, Kubota membrane USA corp., Doug Allie, Goble Sampson, Patrick Smith, Sunriver Utilities Manager</i> WW</p>
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Thursday, March 9, 2023 Conference Schedule **0.725 Total CEUs**

8 – 9 am (0.1) Training Sessions

Great Hall	Landmark I/II Critical Service Butterfly Valves	Heritage I	Heritage II Your DEQ Online
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<p>Basic Math for Water/Wastewater Operators Basic problem-solving ability needed to evaluate and control water and wastewater systems and those math problems typically encountered in the Level I & 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>See locations and methods for when and where to use butterfly valves effectively along with service and maintenance considerations. <i>Wade Esplin, AvTek</i> W/WW</p>	<p>AMI Options and Water Distribution Management Systems The technology to read water meters is changing rapidly. New Technologies like LoraWAN and Cellular AMI may now allow even small systems to afford AMI technology. In addition, new battery powered technologies that 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. <i>Bridget Garlinghouse, Consolidated Supply Co.</i> W</p>	<p>How it will be used for operator certification and a general NPDES permit program update. <i>Tiffany Yelton-Bram, DEQ</i> WW</p>
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9 – 9:15 am Break

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

<p>Great Hall Basic Math for Water/Wastewater Operators (Continued) W/WW</p>	<p><u>Landmark I/II</u> A Discussion of Field Sampling Techniques, Laboratory Protocols and Emerging Contaminants We will discuss sample techniques that will help ensure representative and minimize environmental contamination. Becoming familiar with current analytical methodologies and strengths and weaknesses. Understanding sample result. Emerging contaminants and their potential impact on your water system. Open discussion if time permits. <i>Lawrence Henderson, Edge Analytical, Inc.</i> W/WW</p>	<p><u>Heritage I</u> Certification Updates Reviewing certification rules and requirements for water distribution and treatment certifications. <i>Tony Fields, OHA</i> W</p>	<p><u>Heritage II</u> 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. <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>Great Hall Basic Math for Water/Wastewater Operators (Continued)</p> <p style="text-align: right;">W/WW</p>	<p>Landmark I/II What is Ozone Ozone Facts, Ozone Properties, Effect on Bacteria, Oxidation Potential, Ozone and Pollution, How Man Produces Ozone, How to Dissolve Ozone into Water, Ozone Benefits, How Ozone can be Successful, Municipal Applications, Examples of Ozone Projects <i>Jim Baker, Primozone</i></p> <p style="text-align: right;">W/WW</p>	<p>Heritage I Certification Updates (Continued) <i>Tony Fields, OHA</i></p> <p style="text-align: right;">W</p>	<p>Heritage II DEQ Panel Discussion Additional DEQ updates and a time to ask about any concerns, future ideas or challenges. <i>Tiffany Yelton-Bram, Kimi Gryzb DEQ</i></p> <p style="text-align: right;">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>Great Hall Basic Math for Water/Wastewater Operators (Continued)</p> <p style="text-align: right;">W/WW</p>	<p>Landmark I/II Financial Roundtable on a Current Project Panel Discussion overview of funding opportunities each agency has available for water and wastewater systems. Concludes with Q&A to allow systems to discuss their specific projects. <i>Julia McCusker, Conner Carrier, CoBank</i> <i>Tony Fields, OHA; Kim Young, RD, Capi Lewis, Business Oregon; Tom Puttman, Puttman Infrastructure, inc.</i></p> <p style="text-align: right;">W/WW</p>	<p>Heritage I Water Curtailment and Preparing for Water Shortages We will be discussing current events, how they may affect your water availability, and what you need to know to plan for these situations. <i>Joan Smith, Tamera Smith, OWRD</i></p> <p style="text-align: right;">W</p>	<p>Heritage II Collection System Management FOG, odors, H2S, corrosion and the damaging impacts of contaminants. Emerging issues to improve wastewater programs and incorporating pre-treatment and strategies for collection systems. <i>Rick Allen, Biolyneus</i></p> <p style="text-align: right;">WW</p>
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2:45 – 3:15 pm Exhibits

3:15 – 5 pm (0.175) Training Sessions

<p>Great Hall Basic Math for Water/Wastewater Operators (Continued)</p> <p style="text-align: right;">W/WW</p>	<p>Landmark I/II Chemical Feed Pumps Water and Wastewater chemical feed pump application, operation, maintenance, and installation. <i>Phil Pelletier, Furrow Pump</i></p> <p style="text-align: right;">W/WW</p>	<p>Heritage I Source Water Protection and System Resiliency BMPs to protect your water source considering potential contaminants and ways to be prepared for the future of your water supply <i>Russ Kazmierczak, OHA</i></p> <p style="text-align: right;">W</p>	<p>Heritage II Pretreat & FOG Pre-treatment and FOG ordinances in your utility as dictated by federal regulations, the beneficial to utilities and supplying ideas on how to inspect and enforce such ordinances. <i>Rick Allen, Biolyneus</i></p> <p style="text-align: right;">WW</p>
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Friday, March 10, 2023 Conference Schedule **0.375 Total CEUs**

8 – 9 am (0.1) Training Sessions

<p>Great Hall Project Inspections How to prepare for and properly conduct construction inspections for the water and wastewater industry. This will incorporate the importance of implementing and using construction and materials specifications and standards. <i>Mike Edwards, City of Bend</i></p> <p style="text-align: right;">W/WW</p>	<p>Landmark I/II Understanding Control Systems Integration - Detect, Prevent, and Respond Identifying and understanding controls and SCADA within an integrated system. Understanding the controls and their interrelationship within a Water or Wastewater plant is necessary for Detecting control-related issues, preventing mishaps, and responding appropriately. <i>Jon Frank, ACS</i></p> <p style="text-align: right;">W/WW</p>	<p>Heritage I Navigating the Flood of Advanced Metering Technology Advanced metering technology is designed to help utilities more efficiently provide safe, clean drinking water to their customers while accurately measuring their water use. While there are many benefits provided by new technologies, it can be a challenge for utilities to decide which to select in order to meet today's needs, while still being prepared for the future. This presentation will explore the advantages and drawbacks of several available metering types in order to help attendees</p>	<p>Heritage II Proactive Repairs in the Collection System Live Demo in the classroom. Looking at a trenchless repair option to repair sewer lines. <i>Doug Troyer, Underground Tech</i></p> <p style="text-align: right;">WW</p>
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		invest in the right solutions for their current goals, while working to future-proof their investments. <i>Adam Frank, Neptune Technology</i> W	
9 – 9:15 am Break			
9:15 – 10:15 am (0.1) Training Sessions			
Great Hall Project Inspections (Continued) <i>Mike Edwards, City of Bend</i> W/WW	Landmark I/II Operation and Maintenance of Peristaltic and Diaphragm Chemical Feed Pumps Need help deciding what chemical feed pump technology to use for your application? We will focus on the specific operational functions of both peristaltic pumps and diaphragm pumps relating to system parameters such as chemical, flows, pressures, and required ancillary equipment. A focus on specific applications relating water feeds and wastewater feeds will be discussed. A demonstration of parts replacement and identification will be covered. <i>Bill Ormsby, Blue-White</i> W/WW	Heritage I OWRD's New and Developing Approach to Groundwater Allocations This past spring, the Oregon Water Resources Commission issued new policy guidance that is already having major impacts on the Department's issuance of new groundwater rights. This is likely a significant turning point for groundwater appropriation in Oregon, and could have major implications for those seeking new groundwater permits. <i>Marika Sitz, Jordan Ramis</i> W	Heritage II High BOD Food and Beverage Wastewater: Characterization and Treatment Processes High BOD wastewater are often highly impactful sources of load for a municipal wastewater treatment plant. Constituents and units used to measure those constituents. High strength contributions to a wastewater stream. Processes that are employed to treat these particular waste streams, as many of the processes are specialized toward a particular constituent or class of constituents. <i>Robert Smith, Pumptech LLC</i> WW
10:15 – 10:30 am Break			
10:30 – 12 pm (0.15) Training Sessions			
Great Hall Construction Inspection (Continued) <i>Mike Edwards, City of Bend</i> W/WW	Landmark I/II Large Fuel Spills- How do they affect your Water and Wastewater Systems? Discusses how a large-scale fuel leak affected one City's systems. Would you be ready to protect your systems from gasoline? Gasoline infiltrating your Collection System? Gasoline seeping into your waterline trench? Discuss with Operators on the steps that were taken on their systems during a recent fuel spill. What went good? What could be improved on? <i>Mark Landau, Matt Johnson, City of Monmouth</i> W/WW	Heritage I Updated Review of PFAS, Regulatory and Technology Review In this presentation we will review what PFAS is as well as the latest updates and timelines from the October 2021 EPA Strategic PFAS Roadmap and what was accomplished in 2022. See how you will be impacted and what guidelines will be incoming! We will also review existing PFAS treatment technologies and what questions you need to ask before investing in it! <i>Heather Jennings, Probiotic Solutions</i> W/WW	Heritage II Wastewater Modeling Process and Benefits 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 & 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> WW
12:00 – 12:15 pm (0.025) Great Hall – Closing Session – Water and Wastewater Utility Management and Operations – Passing the Torch: Continued. Jason Green, OAWU Executive Director. W/WW			