

# Grand Ronde Scheduling - Outline

| TUESDAY          |       | TOTAL CEUS: 0.7 W/WW   |  | NOVEMBER 5, 2024  |  |
|------------------|-------|--|--|---|--|
| Time             |       |  |  |   |  |
| 07:30 – 08:00 AM |       | Registration   |  |   |  |
|                  |       | Kalapuya A/B   |  | Molalla A/B   |  |
| 08:00 – 10:00 AM | 0.2   | <b>Large Fuel Spills- How do they affect your Water and Wastewater Systems?</b><br>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 well? What could be improved on?<br><b>Matt Johnson and Mark Landau, City of Monmouth W/WW</b>   |  | <b>NO Class</b>   |  |
| 10:00 – 10:15 AM |       | Break  |  |   |  |
| 10:15 – 12:00 PM | 0.175 | <b>Rural Water System Cyber Update: ICS, SCADA, and OT Cybersecurity Threat Vectors, Attack Preparedness, and Government Compliance - Part I &amp; Part II</b><br>Cybersecurity and resiliency 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 and mandates must be understood, and a pathway to compliance undertaken.<br>This special 2-part session for rural Oregon public water systems (PWS) and Circuit Riders will discuss:<br>PART I: Current Threat Landscape for Small U.S. Sites with SCADA, ICS, and/or OT •Exactly Who and What are Being Targeted (and why) •How ICS, SCADA and OT Ransomware and Other Cyber Attack Scenarios Vs. Critical Infrastructure (like PWSs) Play Out Today •A Real-time Look at What Attackers See<br>PART II: How Small PWSs can Defend Themselves While Also Affordably Addressing Current and Future Government Compliance •The Importance of You and Your Team Gaining Real Visibility •How to Respond to a Possible Attack (Including How to Engage CISA (U.S. Cybersecurity & Infrastructure Security Agency) and report a cyber incident) •Discussion of the Best Free and Inexpensive Tools, and Available Cybersecurity Funding •Exercises - Review of the Cybersecurity Requirements from EPA and other regulatory bodies<br><b>Steven Menges, Alpha Guardian Networks, LLC W/WW</b> |  | <b>Biosolids Composting Project</b><br>City of Albany-Millersburg composting facilities are being constructed to process biosolid material for beneficial reuse as a Class A product. This includes covered piles, with in-ground aeration, a biofiltration odor control system, covered storage for amendments and finished compost. The biosolids storage facility will also be enclosed and have a canister system for treating noxious odors.<br>Significant equipment changes in the biosolids dewatering building include replacement of the BFPs, dewatered solids pumps, polymer addition system, two rotary screw presses, dewatered solids conveyor system, and a new polymer addition system will serve as replacements.<br><b>Craig Prosser, City of Albany Composting WW</b> |  |
| 12:00 – 01:00 PM |       | Lunch provided   |  |   |  |
| 01:00 – 02:00 PM | 0.1   | <b>Insurance for Water and Wastewater Systems</b><br>This class will be an in-depth look at the types of insurance water and wastewater systems should carry. In this world of ever-increasing prices, it is vitally important that you have enough of and the right type of insurance to cover some of your system’s greatest and most expensive assets: buildings, tanks, reservoirs, lines, appurtenances, valves and replacements.<br><b>Cheri Martinen, Bancorp W/WW</b>  |  | <b>Life After Inventory - Get Some Tech In Your LCRI Compliance Tool Belt!</b><br>In this session, we will prepare water systems for the next steps in their LCRI compliance journey now that the initial service line inventories have been submitted. We will also highlight how incorporating the power of technology into your compliance strategy can serve as a blueprint for success.<br><b>Liz Johns, 120 Water W</b>   |  |
| 02:00 – 02:15 PM |       | Break  |  |   |  |

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| 02:15 – 03:30 PM  | 0.125 | <b>Utility Management for Small Systems in the 21st Century</b><br>Navigating through the complicated and difficult landscape of utility management in the 21st century requires water managers understand asset management, long and short-term capital planning and finance, communicating with customers and delivering on the utility's level of service, and the growing list of regulatory requirements. Can one person do all of this? Very doubtful, which is why utility managers need tools and partners to assist the utility in today's world. This presentation will discuss tools and techniques utility managers can employ to improve and create sustainability for their utility.<br><b>Michael W. Grimm, West Slope Water District W/WW</b> | <b>Deployment of Cellular AMI Systems for Distribution Management</b><br>Water Loss and Prevention Analytics and Enhanced Consumption Analysis<br><b>Ted Worth, Metron W</b>  |
| 03:30 – 03:45 PM  |       | Break   |   |
| 03:45 – 04:45 PM  | 0.1   | <b>USDA Funding Options</b><br>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.<br><b>Holly Halligan, USDA W/WW</b>  | <b>Benefits of Tank Mixing</b><br>Benefits of tank mixing in potable water storage tanks will review the concept of tank mixing and how mixing can help improve water quality inside water storage tanks. This presentation will cover how mixing can help mitigate stratification, TTHM's and Bio-film inside water storage tanks. In addition, highlighting data proving how effective tank mixing can be inside water storage tanks.<br><b>Kevin Chappa, Big Wave Water W</b>  |
| <b>WEDNESDAY</b> <span style="float: right;"><b>NOVEMBER 6, 2024</b></span> |       |   |   |
| 07:00 – 08:00 AM  |       | Coffee  |   |
| 08:00 – 10:00 AM  | 0.2   | <b>Flexible and Reliable SCADA Systems</b><br>Reliability in SCADA is becoming more and 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.<br><b>Analytic sensors to the next level</b><br>Reliability is only the first step; the other is to have quick and fast readings that are reliable for reporting. How to troubleshoot and take instant readings from your equipment.<br><b>Rich Owens, Owens Pump &amp; Equipment W/WW</b>   | <b>How to Start and Fund Asset Management From Scratch</b><br>Local governments struggle with maintenance and operations of their assets, while trying to upkeep their infrastructure to the required 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. While good asset management enables you to get the most from your assets, understanding how to do it right is the key. This is easier to achieve than you might think, and your citizens will appreciate the ramifications - better service, rates, and responsive govt. This is an immersive session that will discuss the basics and go beyond to equip you with the knowledge and a real time data driven approach to implement or enhance asset management programs for your utilities.<br><b>Arnab Bhowmick, AKTIVOV Asset. Management W/WW</b> |
| 10:00 – 10:30 AM  |       | Break   |   |
| 10:30 – 12:00 PM  | 0.15  | <b>Identifying buried utilities (poly Pipe)</b><br>Poly pipe and unmarked utilities is a huge hurdle on the everyday jobsite. Our goal is to help showcase  | <b>The Show Must Go On: Business Continuity, Succession Planning, and Emergency Response</b><br>Local Govt. operations do not stop even in a pandemic or during natural calamities, emergencies, disruptions,   |

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|                  |       | different methods of finding those utilities in the ground. We will go over such methods as an AML (all material locator), and GPR (ground penetrating radar). Along with vac excavation methods if time allows.<br><b>Nick Frappier, Hydrovac</b><br><b>W/WW</b>   | and staff turnovers. There are established rules about the upkeep of the operations during any major events, crisis situations, and loss of critical human resources. This class covers normal disruptive events, deals with bigger showstoppers, and helps strategize dealing with workforce turnover. We will discuss business continuity, emergency response, and succession planning concepts and tools. The attendees will come out with a clear idea of how to deal with such events in the future and operate in the new normal.<br><b>Arnab Bhowmick, AKTIVOV Asset. Management</b><br><b>W/WW</b>                        |
| 12:00 – 01:30 PM | 0.1   | Lunch with Exhibitors provided <b>W/WW</b>  |   |
| 01:30 – 03:00 PM | 0.15  | <b>Ask The Old Guy</b><br>Bring your questions or problems you are having with your system. Darrel Lockard and the Circuit Riders will help with questions and answers.<br><b>Darrel Lockard, OAWU</b><br><b>W/WW</b>   | <b>Hydraulic Control Valve Basics</b><br>This class will include the following: basic hydraulics, valve function, 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. This class serves as a prerequisite of sorts for more in-depth control valve education and is designed for those new to the industry, new to control valves themselves, or those who would like a review on the topic.<br><b>Patrick Miller, Cimco</b><br><b>W/WW</b> |
| 03:00 – 03:30 PM |       | Break   |   |
| 03:30 – 04:45 PM | 0.125 | <b>NPSH and Cavitation in Centrifugal Pumps</b><br>This course will start with a brief description of centrifugal pumps, how they operate in contrast to other pumping technologies, and the characteristics of kinetic pumps that make NPSH and Cavitation an issue. The widely misunderstood phenomenon of cavitation will be discussed, as well as some brief illustrations of the damage that can be caused as a result of cavitation. Additionally, the pump parameter NPSH will be looked at in context of the pump curve, prevention of cavitation and pump performance.<br><b>Bob Smith, Treatment Equipment Company</b><br><b>W/WW</b> | <b>Pressure Sewer Systems – Deceptively Simple, Engineered for Reliability</b><br>Pressure sewer systems have long been recognized as the desired solution for providing wastewater collection and conveyance for communities that have typically been hard to service. The system consists of a network of pressure pipes and grinder pumps installed at each residence or business. The grinder pump station collects the wastewater, grinds the solids to small particles, and conveys it to a larger sewer main or directly to a wastewater treatment plant.<br><b>Tim Owens, Correct Equipment</b><br><b>WW</b>              |
|                  |       |   |   |
| <b>THURSDAY</b>  |       | <b>TOTAL CEUS: 0.575 W/WW</b>   | <b>NOVEMBER 7, 2024</b>   |
| 07:00 – 08:00 AM |       | Break   |   |
| 08:00 – 10:00 AM | 0.2   | <b>Easements</b><br>Obtaining or expanding easements for water and wastewater infrastructure maintenance, repair, or replacement. <b>Laura Schroder and Kelsey Sibel, Schroder Law</b><br><b>W/WW</b>   | <b>Certification Update</b><br>Reviewing certification rules and requirements for water distribution and treatment certifications.<br><b>Tony Fields, OHA</b><br><b>W</b>   |
| 10:00 - 10:15 AM |       | Break   |   |
| 10:15 – 12:00 PM | 0.175 | <b>Technology at your System</b><br>Explore how new technologies can be used in everyday services through real-life examples and conversations. We'll look at the benefits, the difficulties, and the questions that come up when these technologies are put to use.<br><b>Jason Coker, OAWU</b><br><b>W/WW</b>   | <b>Regulatory Update and Data Online</b><br>This class will be an in-depth look at current rules and regulations, changes that have been made recently and potential changes that may be coming. Also, as part of this class we will be going over the Oregon Health Authority Data Online website, how to use the website and all the useful tools and resources it holds.<br><b>Michelle Byrd and Tony Fields, OHA</b><br><b>W</b>  |

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| 12:00 – 01:00 PM |     | Lunch provided   |  |
| 01:00 – 02:00 PM | 0.1 | <b>Customer Service Through AMI for Water and Wastewater Systems</b><br>How to better serve your customers through utilizing AMI and other metering data sources to protect both your utilities water and wastewater infrastructure<br>A deep dive into customer side leak detection and customer service, using all types of metering technology and frequency of reads. We will discuss common leak flow rates and how to determine likely sources using that information along with the potential cost and time savings to the utility for identifying leaks early. Some of these saving may be staff time working through leak credits and sewer charges established from meter data. Due to various metering technologies used by the audience we can stay fluid and discuss all methods of identifying leaks and helping the customer while we help the utility and overall conservation of water.<br><b>Spencer Cashwell, City of Bend</b><br><b>W/WW</b> | <b>Chemical Feed and Instrumentation</b><br>Basics of chemical metering pump types and their applications in water and wastewater treatment. Utilizing instrumentation to assist in chemical dosing and operator sampling.<br><b>Tim Owens, Correct Equipment</b><br><b>W/WW</b> |
| 02:00 – 02:15 PM |     | Break  |  |
| 02:15 – 03:15 PM | 0.1 | <b>Apprenticeship</b><br>OAWU is very excited to announce an Apprenticeship Program for water and wastewater operators in Oregon. This is a two-year program apprentices will have the opportunity to engage with 288 hours of formal training and 4000 hours of valuable hands-on experience at a system while in the program. This is a program that will work alongside systems and apprentices. We will discuss how the Apprenticeship Program works and how the system can be a part of it.<br><b>Heather Davis, Heath Cokely, and Jason Green,</b><br><b>OAWU</b><br><b>W/WW</b>   | <b>No Class</b>  |