DRAFT SCHEDULE **2024 Western Washington Short School & Trade Show**

PNWS-AWWA Northwest Washington

Detailed Schedule - Tuesday June 4th 2024

6:45 - 7:30	**Morning Coffee & Registration**				
	Wastewater - RM 1A	**Water / Maintenance - RM 1B**	**Distribution / Collection and Conveyance - RM 1C**	**Biosolids / Seismic Hazards - RM 2B**	**Startup, Testing & Commissioning / Maintenance / Water & Wastewater Math - RM 2C**
7:30 - 8:30	☯ Pt. Hadlock Treatment Plant - Starting a New Treatment & Collection System from Scratch - Eric Dienst & Kevin Dour, Tetra Tech	◆☯ Got Lead? A Journey to Identifying Water Service Line Material - Katarina Hirai & Ricky Gordon, Silver Lake Water District	☯ Great Water Views: Shoreline Asset Management Planning for Seattle - David Scott, Tetra Tech & Caroline Barlow, City of Seattle	◆☯ Biosolids: A Valuable Commodity - Jake Finlinson, KCWTD	◆☯ GWWTS: Commissioning & Startup Lessons Learned - Pedro DeArteaga, KCWTD
8:40 - 9:40	☯ Membrane Systems - Hiro Kuge, Kubota Membrane USA	◆☯ PFAS Mitigation Strategy and Lessons Learned by a Regional Water Provider - Marshall Meyer, Lakewood Water District	☯ Hydrogen Sulfide Impacts on Infrastructure - Doug Schlepp	◆☯ PFAS - Latest Regulatory Landscape and Treatment Approaches for Municipal Biosolids - Cameron Clark,	◆☯ Startup - Chaos or order - Ed Griffenberg, HDR
9:40 - 9:50	**Break w/ Refreshments**				
9:50 - 10:50	◆☯ Is smaller always simpler? Engineering and Operating considerations for remote WWTPs - Kenneth Packard, HDR	◆☯ Eating the Maintenance Elephant One Byte at a Time; CMMS, Part 1 - Chris Maher, Clean Water Services & Rich Ludlow, Oregon City	◆☯ Optimizing Collection System Design in Expanding Cities: A Focus on Hydraulic Retention Time, Odor Control, and H2S Mitigation - Ryan Grimes, ECO2	☯ City of Wenatchee Anaerobic Digester Project - Jessica Shaw, City of Wenatchee	◆☯ TSC of New Plants and Processes, Best Practices from the Trenches and other Horror Stories to Avoid - Scott Joslyn, HDR
11:00 - Noon	◆☯ Magnesium Hydroxide for Improved Solids Removal - Doug Kelly, Inland Environmental resources	◆☯ Eating the Maintenance Elephant One Byte at a Time; CMMS, Part 2 - Chris Maher & John Nice, Clean Water Services	◆☯ Basic Water & Wastewater Math - Joe Carter, AWWD	◆☯ Earthquake Hazards and Seismic Design Considerations – Jon Cracolici, GeoEngineers	◆☯ What's new in the electronic O&M manual world - Ed Griffenberg, HDR
Noon - 12:40	**Lunch**				
	Odor Control - RM 1A	**Water Loss Reduction / Water Quality / Reuse - RM 1B**	**Distribution - RM 1C**	**Water Chemistry - RM 2B**	**Asset Management / Data Mamagement / Construction Management - RM 2C**
12:40 - 1:40	☯ Introduction to Odor Control - Gabriel Valea, KCWTD	◆☯ Water Loss Reduction Measures - Mike Uthe, Mueller Water Products	◆☯ Lead Service Line Inventory Overview and Implementation Strategies - Steven Drangsholt, Trinnex & Modern, Proven Ozone Water Treatment for Salem, OR - Jim White, Mazzei Injector Company	◆☯ Unveiling the science of polymer activation: exploring the benefits through applications - Haley Goddard	◆☯ Using Asset Mangement to make informed decisions. - Dan Sleeth, Covington Water District
1:50 - 2:50	☯ Odor and corrosion control. Getting the best of both worlds - Richard Finger, Retired	◆☯ Distribution Network THM Mitigation in Consecutive and Wholesale Water Systems - Haley Goddard, Cleanwater 1	◆☯ Lets talk hydrants - Pete Miller, AWWD	◆☯ Wastewater Chemistry 101 - Doug Kelly, Imland Environmental	◆☯ Reality capture and Emerging technologies - Aaron Weaver, Multivista
2:50 - 3:00	**Break w/ Refreshments**				
3:00 - 4:00	☯ Small System with Large Challenges: Operating a Wastewater Treatment Plant that Does Not Follow the Rules - Jeffrey Zahller & Lake Hills Sewer Relining Project - Grizelda Sarria, Tetra Tech	◆☯ Cross Connection Control for Reclaimed Water - Bill Bernier, WSDOH & MBR-LRV Testing - David Seymour, Kennedy Jenks	◆☯ Distribution System Water Quality Improvements with Implementation of Active Tank Mixing - Haley Goddard, Cleanwater 1	◆☯ The Fundamentals of Electrochemistry - Mark McElroy, Thermo Fisher	◆☯ Collaborative Data System Development to Support Facility Operations and Planning - Nandita Ahuja, Hazen and Sawyer & How AI and Cloud Technologies Are Driving America's Largest Trenchless Capital Improvement Project - Eric Sullivan
CEU Status - Wastewater CEUs Pending (☯). Water CEUs Pending (◆)					

DRAFT SCHEDULE **2024 Western Washington Short School & Trade Show**

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Detailed Schedule - Wednesday June 5th 2024

6:45 – 7:30	**Morning Coffee & Registration**				
	Wastewater - RM 1A	**Water Distribution - RM 1B**	**Didtribution / Collection and Conveyance - RM 1C**	**Biosolids / Water Chemistry - RM 2C**	**SCADA & Generators - RM 2C**
7:30 - 8:30	☯ A Breath of Fresh Air - Understanding the Importance of Diffused Aeration Systems - Bryen Woo, Aquarius Technologies	☯ Quantifying An Innovative Approach to Improve Water Loss and Carbon Footprint - Matt Zellers, Mueller	☯ Pipe Bursting Water Mains with HDPE - Craig Christensen, David Evans and Associates	☯ Emerging Solids Technology - Chris McCalib, TEC	☯ Using New SCADA Technology to Better Manage Systems - Andrew Klempel, WECI
8:40 - 9:40	☯ Reducing Nutrients from Point Source Discharge to Preserve Receiving Water Integrity - Kristin Faulkner, & Organizational practices and lessons learned for efficient and effective NPDES permit compliance - Jeff Lafer, KCWTD	☯ Onsite PFAS Destruction Solutions - Katie Henderson, Ovivo	☯ Sewer Force Mains - A pro-active approach to asset management of this often-overlooked buried infrastructure - Mike Lemmen. SFE Global	☯ Centrifuge Scroll Design Improvements and Impact on Biosolids Dewatering Cost - Michael Stone, Flottweg Separation Technology & Application of Measured Rheological Data for Improved Sludge Process Design - Elaine Leonard, HDR	☯ Much Ado About Digital, But What's Right for Me and How do I Adopt It? - Steve Green, Stanley Consultants
9:40 - 10:10	**Vendor Show & Refreshments**				
10:10 - 11:10	☯ Ammonium, Nitrate and Phosphate Analyzer for Nutrient Removal - Anil Isaac, Electro Chemical Devices	☯ Reducing Non Revenue Water with Automation - Erik Ongstad, Sensus	☯ HDPE: Construction, Repair, & Maintenance, - Dan Landy, PE Alliance	☯ Meeting Effluent Requirements while Producing Less Sludge with a Multi Stage Activated Biofilm Process - Bryen Woo, Aquarius Technologies	☯ Small, Remote Emergency Generator Wetstacking Troubleshooting - Dan Burwell, RH2
11:10 - 12:10	**Vendor Show & Lunch**				
	Pumps - RM 1A	**Tanks - RM 1B**	**Disinfection - RM 1C**	**Valves - RM 2B**	**Corrosion Prevention - RM 2C**
12:10 - 1:10	☯ Wastewater Sludge Pumping Solutions - Rich Owens, Owens Pump & Equipment	☯ Prestressed Concrete Tanks - Michael Hinshaw, DN Tanks	☯ Chloramine Disinfectant Residual Optimization and Management in Distribution Systems: Taming the Breakpoint Curve Automatically - Haley Goddard	☯ Hydraulic Control Valve Basics: Function and Troubleshooting - Patrick Miller, Cimco GC-Systems	☯ The Great Concrete Cover-Up: The Use Of Resurfacers When Lining Concrete - Jeremy Sukola, Carboline Global, Inc.
1:10 - 1:50	**Vendor Show & Refreshments**				
1:50 - 2:50	☯ Mechanical Seal Fundamentals - Eric E. Costner, A.W. Chesterton	☯ Specifying Polyethylene Tanks for Water Treatment Chemical Storage - Jason Harrington, Snyder industries	☯ 3 Methods of Chlorination - Jeff Harmon, TMG Services	☯ Silent Check Valve Investigation and Repair - Dan Burwell, RH2 & Kurt Van Burkleo, Skagit PUD	☯ Assisting O&M through Corrosion Control and Mitigation - Robert Hanlon, KCWTD
3:00 - 4:00	☯ Asset Protection Utilizing Best Practices and Condition Monitoring to Increase MTBR(F). - Eric E. Costner, AW Chesterton	☯ Replacement of 100 Year Old Reservoir - Kali Lee, HDR & Sanitary Surveys - Bethany Brunney & John Ryding, WSDOH	☯ On-Site Sodium Hypochlorite Generation: A Safe and Cost-Effective Solution for Disinfection - Haley Goddard, Cleanwater 1	☯ Polymer 101: A Comparison between Plastics used in Pipes and Valves - Josh Goldberg, Ashai/America	☯ Protecting Severe Wastewater Infrastructure Using High- Performance Epoxy Linings - Rick Gilbreath, TNW, Tnemec
CEU Status - Wastewater CEUs Pending (☯). Water CEUs Pending (☯)					