

FINAL DRAFT SCHEDULE

2019 Western Washington Short School  
& Trade Show



**PNWS-AWWA**  
Northwest Washington

Detailed Schedule - Tuesday June 4th 2019

Morning Coffee & Registration					
	Wastewater - RM 1A	Water - RM 1B	Collection, Conveyance & Odor Control - RM 1C	Biosolids & Water Chemistry - RM 2A	Asset Management - RM 2B
8:00 - 9:00	⌚ Commissioning a Treatment Plant for a Future Owner: The Story of Tehaleh - Andrew Perez, Pierce County & Chris Stoll, Kennedy/Jenks Consultants	⌚ Legionella – What Water System Managers Should Know - Alex Mofidi, Confluence Engineering	⌚ CIPP Lining of Sanitary Sewers for I/I Reduction and Asset Renewal - Bob Jacobsen & Amanda Lawler, Brown & Caldwell	⌚ Poop to Loop King County's Successful Failure - Scott Drennen, KCWTD / Keeping the Fire Burning, Replacing Waste Gas Burners at WPTP - Wade Phillips, KCWTD	⌚ Collection System Real-Time Monitoring and Failure Detection - Eric Habermeyer, City of Seattle
9:10 - 10:10	⌚ Yelm SBR Control System Upgrades to Increase Treatment Reliability and Operational Flexibility - Brian Bunker & David Kopchynski, Parametrix	⌚ Emergency Repairs to a 32 MG Concrete Reservoir - Dave Muto, Seattle Public Utilities / Biological Denitrification of Groundwater - David Prinzhorn, Coffman Engineers	⌚ Challenging Sewer Bypass of King County's 96" Diameter Eastside interceptor - Brian Sliger, Carollo Engineers	⌚ Fundamentals of Electrochemistry - Mark McElroy, Thermo Fisher Scientific	⌚ Developing a Maintenance Planning & Scheduling Program - Ray Brown, Seattle Public Utilities
Break w/ Refreshments					
10:30 - 11:30	⌚ An Introduction to the Aerobic Granular Sludge Wastewater Treatment Process - Adam Storey, Kennedy/Jenks Consultants / Corrosion of Electronics in Wastewater Plants - Anthony Yamini, PureAir Filtration	⌚ Iron and Manganese Removal 101 - Brian Smith, Wilson Engineering / Cherry Picking Pump Stations: Consolidating System Assets for Operational Flexibility - Nathan Rostad, MurraySmith	⌚ Improving a Chemical Odor Scrubbing Systems - Bruce Gravette, KCWTD / Avoiding Being Noticed: Oak Harbor's Odor Control - Ali Leeds, Carollo Engineers	⌚ How to get your lab pH to match your Process pH - Mark McElroy, Thermo Fisher Scientific	⌚ Selecting and Implementing a CMMS; A Tool in the AM Tool Box - Barry Buchanan, Buchanan & Associates
Lunch					
	Odor Control - RM 1A	Water Quality, Distribution & Treatment - RM 1B	Distribution - RM 1C	Water Chemistry - RM 2A	Asset Management - RM 2B
12:15 - 1:15	⌚ Dry Media Scrubber - Operations, Maintenance & Design Considerations - Dirk Aggar, KCWTD & Sewer Network Process Modeling for Odor & Corrosion Strategy Development - Bart Kraakman, Jacobs	⌚ Resurrecting a Unidirectional Flushing Program - Dave Muto, Seattle Public Utilities	⌚ Building a Leak Detection Program - Tom Vane, AWWD	⌚ Overview on Polymers and Coagulants - Doug Kelly, Inland Environmental Resources	⌚ Covington Water District's AM Journey - Tom Keown, Covington Water District
1:20 - 2:20	⌚ Make Wise Investments With the Help of Odor Master Planning - Miaomiao Zhang, MurraySmith	⌚ Storage Tank Operations & Maintenance - Alex Chen, SPU / Cross Connection Site Inspections - Dale Baxxman, SPU	⌚ Disinfecting Water Mains & Storage Tanks - Aaron Crotts, City of Everett	⌚ Chemical Basics of Wastewater Pretreatment - Doug Kelly, Inland Environmental Resources	⌚ Pressure Pipe (Force Main and Transmission Main) Condition Assessment - Daniel Buonadonna, Jacobs
Break w/ Refreshments					
2:35 - 3:35	⌚ Chemical Scrubbing Technology and Applications - Jeff Zahler, HDR Engineers	⌚ Innovative Approaches to Coagulant Control and Plant Optimization - Jeff Marrs, City of Anacortes	⌚ Trenchless Road Crossings - Case Histories - Michelle Macauley, Macauley Trenchless	⌚ Chemistry of Collection System Odor and Corrosion - Doug Kelly, Inland Environmental Resources	⌚ Using Asset Management to Further Organizational Goals - Elizabeth Lowell, HDR Engineering & Barry Buchanan, Buchanan & Associates

CEU Status - Wastewater CEUs Pending (⌚). Water CEUs Pending (⌚)

FINAL DRAFT SCHEDULE

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**PNWS-AWWA**  
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Detailed Schedule - Wednesday June 5th 2019

Morning Coffee & Registration					
	Wastewater - RM 1A	Water - RM 1B	Wastewater Treatment / Standby Power - RM 1C	Industrial Wastewater / Collection Monitoring - RM 2B	Startup, Operations & Maintenance - RM 2c
7:00 - 7:30					
7:30 - 8:30	⌚ Designing Lagoon Based WWTPs for <1 mg/L Ammonia in <34° Water - <i>Dale Crouse, NEXOM, Representing</i>	⌚ Treating Cyanotoxins with Granular Activated Carbon - <i>Ben Goecke, Calgon Carbon / Installation and Optimization of Gilbert Arizona WTP Ballasted Flocculation System - Shawn Sturgeon, WesTech Engineering</i>	⌚ Aerobic Granular Sludge – Fundamentals and Current Testing in Pacific Northwest - <i>Bob Bucher, KCWTD</i>	⌚ WWTP Processes and Water Quality Permitting - <i>Ed Abbasi, KCWTD</i>	⌚ Use an Electronic O&M Manual as a Living Document for Knowledge Transfer and Storage - <i>Pi Kosarot &amp; Jeff Day, City of Everett</i>
8:35 - 9:35	⌚ Microscreening for Advanced Primary Filtration – Pilot Testing at Sand Island WWTP - <i>Sandra Schuler, Huber Technology</i>	⌚ Optimizing Polymer Mixing and Activation: Following the Science - <i>Jeff Rhodes, USGI Solutions</i>	⌚ Biological Nutrient Removal 101 - <i>Jason Flowers, MurraySmith</i>	⌚ Responding to "Unusual Occurrences" - <i>Dave Haberman, KCWTD</i>	⌚ Trials & Tribulation During Startup Under Subzero Conditions - <i>Ed Griffenberg, HDR Engineering</i>
9:35 - 10:15	Vendor Show & Refreshments				
10:15 - 11:15	⌚ Beat Ultra-Low Phosphorus Targets with Reactive Filtration - <i>Dale Crouse, NEXOM</i>	⌚ Creating a New Pressure Zone in a 100-Year Old System - <i>Cheryl Capron, Operator</i>	⌚ Code Issues on Fuel Tanks, Maintenance Questions and a Question & Answer Period - <i>Tom Tomlinson, Cummins</i>	⌚ "The Sewer Whisperer": Listen Closely, Your Sewer is Talking to You - <i>Brogan Quist, SmartCover Systems</i>	⌚ MBR WWTP Startup - <i>Ed Griffenberg, HDR Engineering</i>
11:15 - 12:15	Vendor Show & Lunch				
	Biosolids - RM 1A	Water Distribution & Emergency Preparedness - RM 1B	Metering - RM 1C	Industrial Hygiene & Ductile Iron Pipe - RM 2C	Pumps, Valves & Operator Certification - RM 2C
12:15 - 1:15	⌚ Innovative Solids Technologies - <i>Chris McCalib, Treatment Equipment Company</i>	⌚ Reservoir Management: Evaluating and Maintaining Water Quality in Reservoirs and Tanks - <i>Cheryl Capron, Operator</i>	⌚ Introduction to Water Meters and Water Meter Technology. - <i>Charlie Sovoc, Consolidated Supply</i>	⌚ AWWA C-105 Standard Update, Corrosion Protection for Ductile Iron Pipe - <i>John Johnson, McWayne Ductile</i>	⌚ Pump Vibration & Condition Monitoring - <i>Noel Frederick, AVS Engineering</i>
1:15 - 1:45	Vendor Show & Refreshments				
1:45 - 2:45	⌚ Centrifuge Scroll Design Innovation – New Technology - <i>Alexius Emejom, Flotweg Separation Technology</i>	⌚ Virtual Tour of the North City WD / Denny Clouse Pump Station - <i>Denny Clouse, North City Water District</i>	⌚ Choosing the Right Meter & Using It to Resolve Billing Disputes - <i>Michele Harvey, Badger Meter</i>	⌚ Seismic Resilience for Ductile Iron Pipelines - <i>John Johnson, McWayne Ductile</i>	⌚ Control Valves - Removing the Mystery - <i>Robert Velasquez, Cimco Sales &amp; Marketing</i>
2:50 - 3:50	⌚ Modeling for Success – Taking Lagoon Process Design to the Next Level - <i>Tom Birkeland, Lemna Environmental Technologies</i>	⌚ Natural & Unnatural Disaster - <i>Denny Clouse, North City Water District</i>	⌚ Understand and Proactively Manage Your Water System Faster & More Efficiently with Integrated Pressure & Temperature Sensors - <i>Michele Harvey, Badger Meter</i>	⌚ Industrial Hygiene - <i>Jon Havelock, Med-Tox Northwest</i>	⌚ On-Line Application for Water Operator Certification - <i>Deni Grey, DOH</i>

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