

**FINAL DRAFT SCHEDULE** **2019 Western Washington Short School  
& Trade Show**



**Detailed Schedule - Tuesday June 4th 2019**

|               |   |  |  |   |  |
|---------------|---|--|--|---|--|
| 7:00 – 8:00   | <b>Morning Coffee &amp; Registration</b>  |  |  |   |  |
|               | <b>Wastewater - RM 1A</b>   | <b>Water - RM 1B</b>   | <b>Collection, Conveyance &amp; Odor Control - RM 1C</b>   | <b>Biosolids &amp; Water Chemistry - RM 2A</b>  | <b>Asset Management - RM 2B</b>  |
| 8:00 - 9:00   | 💧💧 Commissioning a Treatment Plant for a Future Owner: The Story of Tehaleh - <i>Andrew Perez, Pierce County &amp; Chris Stoll, Kennedy/Jenks Consultants</i>   | 💧 Legionella – What Water System Managers Should Know - <i>Alex Mofidi, Confluence Engineering</i>   | 💧💧 CIPP Lining of Sanitary Sewers for I/I Reduction and Asset Renewal - <i>Bob Jacobsen &amp; Amanda Lawler, Brown &amp; Caldwell</i>                            | 💧💧 Poop to Loop King County's Successful Failure - <i>Scott Drennen, KCWTD / Keeping the Fire Burning, Replacing Waste Gas Burners at WPTP - Wade Phillips, KCWTD</i> | 💧💧 Collection System Real-Time Monitoring and Failure Detection - <i>Eric Habermeyer, City of Seattle</i>  |
| 9:10 - 10:10  | 💧💧 Yelm SBR Control System Upgrades to Increase Treatment Reliability and Operational Flexibility - <i>Brian Bunker &amp; David Kopchynski, Parametrix</i>  | 💧💧 Emergency Repairs to a 32 MG Concrete Reservoir - <i>Dave Muto, Seattle Public Utilities / Biological Denitrification of Groundwater - David Prinzhorn, Coffman Engineers</i>               | 💧💧 Challenging Sewer Bypass of King County's 96" Diameter Eastside Interceptor - <i>Brian Sliger, Carollo Engineers</i>  | 💧💧 Fundamentals of Electrochemistry - <i>Mark McElroy, Thermo Fisher Scientific</i>   | 💧💧 Developing a Maintenance Planning & Scheduling Program - <i>Ray Brown, Seattle Public Utilities</i>   |
| 10:10 - 10:30 | <b>Break w/ Refreshments</b>  |  |  |   |  |
| 10:30 - 11:30 | 💧💧 An Introduction to the Aerobic Granular Sludge Wastewater Treatment Process - <i>Adam Storey, Kennedy/Jenks Consultants / Corrosion of Electronics in Wastewater Plants - Anthony Yamini, PureAir Filtration</i> | 💧 Iron and Manganese Removal 101 - <i>Brian Smith, Wilson Engineering / Cherry Picking Pump Stations: Consolidating System Assets for Operational Flexibility - Nathan Rostad, Murraysmith</i> | 💧💧 Improving a Chemical Odor Scrubbing Systems - <i>Bruce Gravette, KCWTD / Avoiding Being Noticed: Oak Harbor's Odor Control - Ali Leeds, Carollo Engineers</i> | 💧💧 How to get your lab pH to match your Process pH - <i>Mark McElroy, Thermo Fisher Scientific</i>  | 💧💧 Selecting and Implementing a CMMS: A Tool in the AM Tool Box - <i>Barry Buchanan, Buchanan &amp; Associates</i>                                   |
| 11:30 - 12:15 | <b>Lunch</b>  |  |  |   |  |
|               | <b>Odor Control - RM 1A</b>   | <b>Water Quality, Distribution &amp; Treatment - RM 1B</b>   | <b>Distribution - RM 1C</b>  | <b>Water Chemistry - RM 2A</b>  | <b>Asset Management - RM 2B</b>  |
| 12:15 - 1:15  | 💧💧 Dry Media Scrubber - Operations, Maintenance & Design Considerations - <i>Dirk apgar, KCWTD &amp; Sewer Network Process Modeling for Odor &amp; Corrosion Strategy Development - Bart Kraakman, Jacobs</i>       | 💧 Resurrecting a Unidirectional Flushing Program - <i>Dave Muto, Seattle Public Utilities</i>  | 💧💧 Building a Leak Detection Program - <i>Tom Vane, AWWA</i>   | 💧💧 Overview on Polymers and Coagulants - <i>Doug Kelly, Inland Environmental Resources</i>  | 💧💧 Covington Water District's AM Journey - <i>Tom Keown, Covington Water District</i>  |
| 1:20 - 2:20   | 💧💧 Make Wise Investments With the Help of Odor Master Planning - <i>Miaomiao Zhang, Murraysmith</i>   | 💧💧 Storage Tank Operations & Maintenance - <i>Alex Chen, SPU / Cross Connection Site Inspections - Dale Baxxman, SPU</i>   | 💧💧 Disinfecting Water Mains & Storage Tanks - <i>Aaron Crofts, City of Everett</i>   | 💧💧 Chemical Basics of Wastewater Pretreatment - <i>Doug Kelly, Inland Environmental Resources</i>   | 💧💧 Pressure Pipe (Force Main and Transmission Main) Condition Assessment - <i>Daniel Buonadonna, Jacobs</i>  |
| 2:20 - 2:35   | <b>Break w/ Refreshments</b>  |  |  |   |  |
| 2:35 - 3:35   | 💧💧 Chemical Scrubbing Technology and Applications - <i>Jeff Zahler, HDR Engineers</i>   | 💧💧 Innovative Approaches to Coagulant Control and Plant Optimization - <i>Jeff Marrs, City of Anacortes</i>  | 💧💧 Trenchless Road Crossings - Case Histories - <i>Michelle Macauley, Macauley Trenchless</i>  | 💧💧 Chemistry of Collection System Odor and Corrosion - <i>Doug Kelly, Inland Environmental Resources</i>  | 💧💧 Using Asset Management to Further Organizational Goals - <i>Elizabeth Lowell, HDR Engineering &amp; Barry Buchanan, Buchanan &amp; Associates</i> |

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

**FINAL DRAFT SCHEDULE 2019 Western Washington Short School  
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**Detailed Schedule - Wednesday June 5th 2019**

|               |   |  |  |  |   |
|---------------|---|--|--|--|---|
| 7:00 - 7:30   | <b>Morning Coffee &amp; Registration</b>  |  |  |  |   |
|               | <b>Wastewater - RM 1A</b>   | <b>Water - RM 1B</b>   | <b>Wastewater Treatment / Standby Power - RM 1C</b>  | <b>Industrial Wastewater / Collection Monitoring - RM 2B</b>   | <b>Startup, Operations &amp; Maintenance - RM 2c</b>  |
| 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  | <b>Vendor Show &amp; Refreshments</b>   |  |  |  |   |
| 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 | <b>Vendor Show &amp; Lunch</b>  |  |  |  |   |
|               | <b>Biosolids - RM 1A</b>  | <b>Water Distribution &amp; Emergency Preparedness - RM 1B</b>   | <b>Metering - RM 1C</b>  | <b>Industrial Hygiene &amp; Ductile Iron Pipe - RM 2C</b>  | <b>Pumps, Valves &amp; Operator Certification - RM 2C</b>   |
| 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 Sovocol, 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   | <b>Vendor Show &amp; Refreshments</b>   |  |  |  |   |
| 1:45 – 2:45   | ☕ Centrifuge Scroll Design Innovation – New Technology - <i>Alexius Emejom, Flottweg 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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