

**DRAFT SCHEDULE**      **2017 Western Washington Short School  
& Trade Show**



**Detailed Schedule - Tuesday June 6th 2017**

	Wastewater Treatment - RM 1A	Water Disinfection & Distribution - RM 1B	Distribution & Conveyance, Trenchless - RM 1C	Sampling & MBRs - RM 2B	Energy, Pumps & Facility Design - RM 2C
7:00 – 8:00	Morning Coffee & Registration				
8:00 - 9:00	☯ Selecting Oxygen Generation & Disolution Equipment for Energy Savings - <i>Crystal Fleet, KCWTD</i>	💧☯ Collecting Quality Water Samples - Robert Galvin, Kupferle	☯ Collection Pump Station Design Considerations - <i>Ben Scrace, Whitney Equipment</i>	☯ Sampling Techniques for Compliance monitoring, Part 1 - <i>Tim Coffey, KCWTD</i>	💧☯ The Savings are in the Process - <i>Chris Stoll, Kennedy/Jenks Consultants</i>
9:10 - 10:10	☯ Oxidation Ditch Management - <i>Pete Carter, KCWTD</i> / Biosolids Management for Lagoons - <i>Chris chesson, City of Everett</i>	💧☯ Air Valves 101 - <i>Mike McLeod, Frank J. Martin Co.</i>	💧☯ Trenchless Road Crossings, Case Histories - <i>Michelle Macauley, Jacobs</i>	☯ Sampling Techniques for Compliance monitoring, Part 2 - <i>Tim Coffey, KCWTD</i>	💧☯ Centrifugal Pump Witness Testing - <i>Jesse Collins, KCWTD</i> / Standard vs Premium Efficiency Motors - Ben Scrace, Whitney Equipment
10:10 - 10:30	Break w/ Refreshments				
10:30 - 11:30	☯ Ballasted Sedimentation Application for Wet Weather Treatment - <i>Miaomiao Zhang, CH2M</i>	💧 “The Dead-End Danger Zone” How Uncirculating Water In Distribution System Dead-Ends Can Pose A Health Threat to Consumers- <i>Robert Galvin, Kupferle</i>	💧☯ Reservoir Mixing - <i>Dean Brown, Correct Equipment Company</i>	☯ Lessons Learned from MBR Operation Under Industrial & Municipal Mixed Wastewater - <i>Hiro Kuge, KUBOTA Membrane USA</i>	💧☯ Operator Involvement in Capital Facility Planning and Design - <i>Ed Griffenberg, HDR</i>
11:30 - 12:15	Lunch				
	Odor Control - RM 1A	Water Treatment & Water Chemistry - RM 1B	Young Professionals Track / Water & Wastewater - RM 1C	I&C / Networks - RM 2B	ARC Flash, Chemical Storage - RM 2C
12:15 - 1:15	☯ Wet Chemical Odor Scrubbing System Operational Costs - <i>Dirk Apgar, KCWTD</i> / Odor Sampling, Techniques & Equipment - <i>Griz Sarria, Tetra Tech</i>	💧 The Evolution and Many Uses of Ballasted Flocculation (Actiflo) for Drinking Water Treatment - Jim Georger, Kruger	💧☯ Keep Your Facility Humming with a Daily Dose of Data - <i>Eric Habermeyer, SPU</i>	💧☯ Network Fundamental - <i>Bud Titus, KCWTD</i>	💧☯ ARC Flash Blast & Other Electrical Hazards - <i>Terry Fiber, KCWTD</i>
1:20 - 2:20	☯ Odor & Corrosion Investigations in KCWTD Sewer Interceptors - <i>Ray Nickel &amp; Dave Kopchynski, Parametrix</i>	💧☯ Getting Your Online pH Readings to Match Your Lab pH Readings - <i>Mark McElroy, Thermo Fischer</i>	💧 Getting to Non-Detect PFCs in Drinking Water as Fast as Possible - <i>Beth Mende, HDR</i>	💧☯ How to Read P&I Diagrams - <i>Butch Perry, KCWTD</i>	
2:20 - 2:35	Break w/ Refreshments				
2:35 - 3:35	☯ Benefits of Predictive Solids Retention Time Control - <i>Anne Conklin, Carollo Engineers</i>	💧☯ Fundamentals of Electrochemistry - Everything You Wanted to Know About pH Meters & Electrodes - <i>Mark McElroy, Thermo Fisher</i>	☯ Analysis of an Aging Outfall, Rehab or Replace? - <i>Josiah , AWWD</i> / Central Kitsap Treatment Plant Resource Recovery Project Overview - <i>Matt Winkler, B&amp;C</i>	💧☯ Remote Control of Treatment Facilities - <i>Chad Clay, KCWTD</i>	💧☯ Chemical Storage Requirements - <i>Ben Scrace, Whitney Equipment</i>

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

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### Detailed Schedule - Wednesday June 7th 2017

	Wastewater Treatment & Conveyance - RM 1A	Meters, Service Laterals & Disinfection - RM 1B	New Technologies Wastewater - RM 1C	Water Distribution & Meters - RM 2B	Maintenance, Pumps, Valves & Actators - RM 2C
7:00 - 7:30	Morning Coffee & Registration				
7:30 - 8:30	☞ Utilizing Real Time Monitoring in Wastewater Collection Systems - <i>Brogan Quist, Smart Cover Systems</i>	💧 Anatomy of a Service Lateral - <i>Mike McLeod, Frank J. Martin Co.</i>	☞ Energy Savings in Wastewater Aeration systems - <i>Jens Nielsen, Treatment Equipment Company</i>	💧 The Big Payback - The Importance of Large Meter Analytics - <i>Michelle Harvey, Badger Meter Company</i>	☞ In-House or Outsource Maintenance, What's the Impact - <i>Ben Scrace, Whitney Equipment</i>
8:35 - 9:35	💧☞ Non-Contact UV Disinfection; an Introduction and Comparison to Conventional Quartz based Contact UV Systems. - <i>Arne Diering, Enaqua</i>	💧 Meter Modernization From A to Z - <i>Tom Vane, AWWA</i>	☞ Reducing WAS Viscosity, Improving Dewaterability of Biosolids by Thermochemical Hydrolysis Process - <i>Zhongtian Li, CNP / [ Analysis of a High Throughput Deammonification System - Mudit Gangal, Ovivo</i>	💧 Avoid the Truck Roll - Survey of Remote Shut-Off Meters - <i>Michelle Harvey, Badger Meter Company</i>	☞ Ragless Hydrofoil vs Hyperboloid Impellers - <i>Alexius Emejor, Haywood Gordon ULC</i>
9:35 - 10:15	Vendor Show & Refreshments				
10:15 - 11:15	☞ Fifteen Years of Progressive Membrane Bioreactor Experience in the Pacific Northwest - <i>Pat Roe, HDR Engineers</i>	💧☞ Anti-Leak Technologies for Chemical/ Feed/ Dosing Piping Systems & Equipment - <i>Joe Poniatowski, Asahi-America</i>	☞ Removing Orthophosphate & Optimizing Dewaterability Digested Sludge by Post-Digestion AirPrex® Process - <i>Zhongtian Li, CNP</i>	💧 Disinfecting Water Mains for New Construction - <i>Aaron Crotts, City of Everett / HDPE Pipe and it Downfalls in Water Treatment Plants - John Koch, HDR Inc.</i>	💧☞ Valve actuators - <i>Mike McKamey, Beaver Equipment</i>
11:15 - 12:25	Vendor Show & Lunch				
	Water Pretreat, Wastewater, Disinfection - RM 1A	Wells & Water Treatment - RM 1B	New Technologies Wastewater - RM 1C	Biosolids - RM 2B	Maintenance - RM 2C
12:25 - 1:25	💧☞ Ballasted Sedimentation for Water & Wastewater Treatment - <i>Tina Hastings, CH2M &amp; Jeff Marrs, City of Anacortes</i>	💧 Well Design for Optimal Efficiency By Understanding & Minimizing Well Losses at the Source - <i>Tanna DeRuyter GeoEngineers</i>	☞ Cloth Media Filtration for Primary and Wet Weather Treatment - <i>John Dyson, AquaPrime</i>	☞ THK Biosolids Sludge Thickening Overview - <i>Andre Adams, Centrisys Corporation / Difficulties in Dewatering Biosolids - John Koch, HDR, Inc.</i>	💧☞ Jump Start Maintenance Efficiency with Appropriate Equipment Disconnects - <i>Kolby Hoagland, KCWTD</i>
1:25 - 1:55	Vendor Show & Refreshments				
1:55 - 2:55	☞ UV System Upgrades, Bringing New Life Into Old Technology - <i>Bob English, Aquionics, Inc.</i>	💧☞ Wellhead Protection Plans - <i>Bridget August, GeoEngineers</i>	☞ Enhanced Nutrient Recovery - <i>Garrett Pallo, Clearas Water Company</i>	☞ Land Application of Class B Biosolids on Agricultural Crops - <i>Jake Finlinson, KCWTD</i>	💧☞ Reducing the life cycle cost of machinery, equipment and structures through the use of advanced polymer composite coating and rebuilding systems - <i>Brien Neill, ENECON Corp.</i>
3:00 - 4:00	☞ Hybrid Blowers - <i>Joseph Ryan, Gardner Denver</i>	💧☞ Regional Water Quality Resiliency Planning - <i>Pierre Kwan, HDR</i>	☞ Aerobic Granular Sludge: An Innovative Wastewater Treatment Solution - <i>Brian Bates, Aqua Aerobic Systems, Inc.</i>	💧☞ Delivering Clean Renewable Energy: Biomass Gasification - <i>Baraka Poulin, PHG Energy</i>	💧☞ Increased Motor Efficiency with Variable Frequency Drives - <i>Robert Hansen, ABB</i>

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