

DRAFT SCHEDULE

2017 Western Washington Short School
& Trade Show



PNWS-AWWA
Northwest Washington

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

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