



Monday Morning - October 25

7:00 - 5:30	Opening Session Randy Hill, Deputy Director EPA OW					
8:00 - 9:30	Opening Session Randy Hill, Deputy Director EPA OW					
	Session 1 - Cascade C Phosphorus Treatment <i>Moderator Rick Kelly Brown and Caldwell</i> Sponsored by J-U-B Engineers	Session 2 - Cascade D Public Involvement & Education <i>Moderator Sheri Wantland Clean Water Services</i>	Session 3 - Cascade E Stormwater <i>Moderator Kim Ashmore City of Centralia</i>	Session 4 - Cascade F Collections <i>Moderator Rich Blackmun Black & Veatch</i>	Session 5 - Cascade H Sustainability <i>Moderator Greg Humm West Yost Associates</i> Sponsored by Parametrix	Session 6 - Cascade I Operations <i>Moderator Craig Anderson Murray Smith and Associates</i>
10:00 - 10:45	Reducing TP for Spokane RPWRF Next Level of Treatment <i>Larry Esvelt, Esvelt Engineering</i>	What's New and Neat from WEF to Meet Your Public Communications Challenges <i>Linda Kelly, Water Environment Federation</i>	Seattle Public Utility's Climate Change and Drainage & Wastewater Adaptation Strategy <i>Gary Michael Schimek, Seattle Public Utilities</i>	Miles Crossing Vacuum Sewer System Project <i>Philip H. Smith, Murray, Smith & Associates, Inc.</i>	Is Saving Energy Really Saving Money? (How to sort through the hype and save the planet without going broke) <i>Darold Allen Woodward, Parametrix</i>	Two Steps to Longer Pump & Motor Life <i>Joe Edwin Evans, PumpTech, Inc.</i>
10:45 - 11:30	Effects of Surface Re-Aeration on the Biological Phosphorus Removal Process <i>Matt James Winkler, University of Idaho</i>	Public Involvement: Perception, Communications and Education <i>Abhijit Verekar, RNR Consulting</i>	Mass Producing Green Streets in Portland: Design and Construction Approach for Sewer Reconstruction and Vegetated Stormwater Facilities <i>Fahim Rahman, City of Portland</i>	Design Considerations for Selection of Pipe Material for Large Diameter CSO Force Main <i>Patty Nelson, City of Portland</i>	Triple Bottom Line +- Decoding Complex Alternative Evaluations to the Public <i>Susanna Leung, Carollo Engineers</i>	Startup and Initial Operation of a Greenfield Enhanced Nutrient Removal Wastewater Treatment Facility <i>Rip Copithorn, GHD</i>

Monday Afternoon - October 25

11:45 - 1:00	PNCWA Business Luncheon					
1:00 - 1:45	Coeur d'Alene WWTP Low P Demo - Results from the First Six Months of Pilot Operation <i>Mario Benisch, HDR Engineering</i>	Lake Oswego Interceptor Sewer Public Engagement Campaign <i>Jane Heisler, City of Lake Oswego</i>	Building Community Support for Stormwater Programs <i>Elizabeth Sagmiller, City of Keizer</i>	The 10 Types of Sewer Hydraulics - Using Scattergraphs to Identify Hydraulic Performance & Sewer Capacity Robbers <i>Paul Mitchell, ADS Environmental Services</i>	Getting the Jump on Water Pollutants Before They Jump into Pre-Treatment <i>Debra Kay Taevs, Pollution Prevention Resource Center</i>	Foaming in Secondary Systems <i>Mike Re & Gary Young, CH2M HILL OMI</i>
1:45 - 2:30	Innovative Phosphorus Control to Turn Struvite Headaches into Increased Revenue <i>Peter Schauer, Black & Veatch</i>	LOTT's Water Education & Technology Center: A New Venue for Outreach <i>Susie Vanderburg, LOTT Alliance</i>	Want Your Message Heard? Join a Choir - The Local Benefits of Participating in Regional Efforts <i>Alicia Lawver, City of Tacoma</i>	Unique Challenges Drive Innovative Solutions - Lake Oswego's Buoyant Interceptor Sewer Takes Shape <i>Jon Holland, Brown and Caldwell</i>	Energy Sustainability, Running a Greener Plant <i>Barry Halgrimson, Wonderware PacWest</i>	Collection Systems Odor and Air Quality Basics <i>Mark Smith, Brown and Caldwell</i>
2:30 - 2:45	Break & Ops Challenge Viewing Time					
2:45 - 3:30	Low Phosphorus Wastewater Treatment for Plummer, Idaho <i>Alan Gay, USKH, Inc.</i>	Transforming Public Opposition to Support - The RiverHealth Story <i>Amy Renee Kyle, Clackamas County Water Environment Services</i>	Getting to Know Your Privately-Owned Facilities <i>Tony Gilbertson, Clean Water Services</i>	Solutions to the Pump Suction Rag Ball Issue <i>Brian Casey, Carollo Engineers</i>	Achieving Energy Efficiency at Your WWTP with Help from Energy Trust of Oregon <i>Walt Mintkeski, Consultant</i>	Nitrification Cycle <i>Terry Dokken, CH2M HILL OMI</i>
3:30 - 4:15	Moscow, Idaho BNR & Effluent Filtration to Meet Restrictive Phosphorus Limits and Water Reuse Criteria <i>Cory Baune, J-U-B Engineers</i>	Ground Control to Major Tom: Martian Media Spoken Here <i>Anna M. Johnson, Deschutes County</i>	City of Eugene's Waterfowl Management Outreach Program <i>Rachel Burr, City of Eugene</i>	Deterioration of Two Critical Force Mains Due to Corrosion <i>Susan Gierga, Murray, Smith & Associates, Inc.</i>	The Future of Green Energy Technologies (Solar, Wind, Fuel Cells, and Algae) <i>Tom Mossinger, Carollo Engineers</i>	Excavation and Trench Safety <i>John Shawcroft, Veolia Water NA</i>
4:15 - 5:00	Design and Construction of Low Phosphorus Demonstration Pilot Facility <i>Michael Scott Zeltner, HDR Engineering</i>	How to Connect with Schools <i>Karen DeBaker, Clean Water Services</i>	Rain Gardens <i>Kim Ashmore, City of Centralia</i>	Innovative Approaches to Design and Construction - Clay Pipe <i>Colleen Faith Grady Harold, City of Portland</i>	Energy Master Plan, South Bayside System Authority <i>Michael Hyland, CDM</i>	

Plant Tour Redmond Water Pollution Control Facility
2:45 - 5:00



Tuesday Morning - October 26

7:00 - 5:30	Registration						
7:00 - 8:00	Operators Breakfast						
8:00 - 8:45	Session 7 - Cascade A Emerging Contaminants <i>Moderator Bill Fox Cosmopolitan Engineering</i>	Session 8 - Cascade C Utility Management <i>Moderator Court Harris CH2M HILL</i>	Session 9 - Cascade D Reuse <i>Moderator Jeremy Hollingsworth Brown and Caldwell</i>	Session 10 - Cascade E Digestion <i>Moderator Dan Laffitte Brown and Caldwell</i>	Session 11 - Cascade F Innovative Planning & Approaches <i>Moderator Susanna Leung Carollo Engineers</i>	Session 12 - Cascade H Disinfection <i>Moderator David Keil HDR Engineering</i>	Plant Tour City of Bend Water Reclamation Facility 8:00-9:30
	A Pollution Prevention Focus for Reducing Toxics <i>Mark Yeager, City of Albany</i>	Capital Prioritization: Which projects should I do? When? Why? And how do I update my priorities? <i>Brady Fuller, CH2M HILL</i>	Meridian Class A Reclaimed Water Program Update <i>Clint Dolsby, City of Meridian</i>	Thar She Blows! Severe Foaming and Overflows Caused by Rapid Expansion of Digester Contents <i>Thomas Chapman, Brown and Caldwell</i>	Billings Tackles Multiple Challenges with Integrated Water Planning <i>Amanda McInnis, HDR</i>	Protocol for Improved Ultraviolet Disinfection Design and System Optimization <i>Jeff Bandy, Carollo Engineers</i>	
	Occurrence and Removal of Trace Organic Indicator Compounds During Secondary Treatment at Full-Scale WWTPs <i>Tanja Rauch-Williams, Carollo Engineers</i>	APWA Accreditation Program: Guiding Your Organization Through a Comprehensive Assessment Process <i>John Peterson, Clark Regional Water District</i>	Water Reuse - A Multifaceted Resource <i>Mike Chandler, Bowen Collins & Associates</i>	Annacis Island Wastewater Treatment Plant Co-Digestion Facility <i>Greg Moen, HDR Engineering</i>	Brewing Beer, Promoting Jobs, and Treating Wastewater <i>William Leaf, CH2M HILL</i>	Design & Operation of Open Channel UV Disinfection Systems <i>Matthias Boeker, ITT Water & Wastewater U.S.A.</i>	
8:45 - 9:30	Break - Exhibit Hall						
10:30 - 11:15	Microconstituents – Science, Regulation and Implication <i>Daniel E. Cutugno, PBS Engineering & Environmental</i>	New Developments in Laboratory Management: The New TNI Standard <i>Keith Chapman, City of Salem</i>	Four Small Scale Reuse Projects for Four Different Types of Puget Sound Utility Agencies <i>John C. Wilson, BHC Consultants</i>	Creating Digester Capacity through Improved Mixing <i>Michelle Burkhart, CH2M HILL</i>	Reused Assets: King County Reuses Infrastructure Assets to Implement Regional Reclaimed Water System <i>Allen de Steiguer, Carollo Engineers</i>	Put Your Lights On: Design and Construction of a Large UV Facility at Central Valley Water Reclamation Facility, Salt Lake City, Utah <i>Cynthia L. Bratz, Brown and Caldwell</i>	PNCWA Section Exchange 10:30-Noon
	Monitoring, Regulation, and Management of Endocrine Disrupting Chemicals (EDCs) in Wastewater Treatment and Effluent Discharge <i>David L. Clark, HDR Engineering</i>	Hitting the Financial Wall: The Impacts of Regulatory Drivers on Rate Making and Customer Bill Impacts <i>Shawn Koom, HDR Engineering</i>	Validation Testing of a High Rate Disk Filter for Water Recycling Applications <i>Keith Bourgeois, Carollo Engineers</i>	Post-Aerobic Digestion with Bioaugmentation Pilot Study – City of Meridian, ID WWTP <i>William Leaf, CH2M HILL</i>	Reduce, Reuse, Recycle: Capturing Savings at the Pendleton Wastewater Treatment Plant <i>Michael Humm, Kennedy/Jenks</i>	Converting Chlorine Disinfection System to a UV Disinfection System <i>Somnath Chilukuri HDR Engineering</i>	
11:15 - 12:00	Buffet Luncheon						
12:00 - 1:15	Buffet Luncheon						

EXHIBIT HALL



Tuesday Afternoon - October 26

12:00 - 1:15	Buffet Luncheon					
	<p>Session 13 - Cascade A Nitrogen Treatment Moderator Bill Reilly Wm. H Reilly Sponsored by HDR Engineering</p>	<p>Session 14 - Cascade C Utility Management Moderator Steve James J-U-B Engineering</p>	<p>Session 15 - Cascade D Water Quality Moderator Muriel Gueissaz-Teufel HDR Engineering</p>	<p>Session 16 - Cascade E Plant Design & Operation Moderator Jim Wodrich City of Bend Sponsored by Black & Veatch</p>	<p>Session 17 - Cascade F Innovative Planning & Approaches Moderator Jennifer Belknap-Williamson, Brown and Caldwell</p>	<p>Session 18 - Cascade H Peak Flow Treatment Moderator Doug Berschauer CH2M HILL</p>
1:15 - 2:00	<p>Emerging Side Stream Nitrogen Removal Technologies Mario Benisch, HDR Engineering</p>	<p>Planning, Financing, and Constructing Wastewater Treatment Facilities in Challenging Economic Times J. Michael Read, Oak Lodge Sanitary District</p>	<p>Dye Tracer Studies in the Pacific Northwest David McBride, Cosmopolitan Engineering Group</p>	<p>Implementation of State-of-the-Art High Efficiency Trickling Bioscrubbers to Meet Regulatory Requirements and Treat Odors at the Sand Island WWTP in Honolulu Dustin Scott, Azzuro</p>	<p>Getting the Best for Less: Partnerships Pay Off in MBR System Construction at La Center, Washington Jennifer Coker, Kennedy/Jenks</p>	<p>Innovative Approaches Enhance Performance of High-Rate Treatment Systems Jyh-Wei (AJ) Sun, CDM</p>
2:00 - 2:45	<p>Identifying Optimal Process Improvement Strategy for Nitrogen Removal at the Rock Creek and Durham AWWTFs Jeff McCormick, Caroll Engineers</p>	<p>Case Study: How the City of Bend is Implementing Their CMMS Program Paul Roy, City of Bend</p>	<p>WEF's Government Affairs Update from Washington DC Tim Williams, WEF</p>	<p>Trends in Outfall Design and Construction Bill Fox, Cosmopolitan Engineering Group</p>	<p>The Chesapeake Bay Experience: Impact of Regulatory Programs on Design, Operation and Cost of WWTPs Rip Copithorn, GHD</p>	<p>An Economic Approach to Off-Line Storage: A Means of Mitigating SSOs Matt Crow, CDM</p>
2:45 - 3:00	Break - Exhibit Hall					
		Reuse		Plant Operations	Greenhouse Gas	Pretreatment & FOG Collection
3:00 - 3:45	<p>Upgrade of the Big Gulch WWTP Oxidation Ditches for Energy Efficiency and Improved Nitrogen Removal Thomas Coleman, Mukilteo Water and Wastewater District</p>	<p>Environmental Risk Assessment for a Proposed Reclaimed Water Project in Kitsap County, WA Kara Warner, Golder Associates</p>	<p>Spokane River TMDL - Charting a Course on Interstate Allocations Paul Klatt, J-U-B Engineers</p>	<p>Stirred not Shaken, Anoxic/Anaerobic Zone Mixer Sizing Peter Schauer, Black & Veatch</p>	<p>Increasing CHP Productivity while Reducing Biosolids Volume and Climate Changing Gasses Richard V. York, FOG Energy Corp.</p>	<p>Ten Years of Success in a Beneficial Partnership Lilly Longshore, City of Vancouver, WA</p>
3:45- 4:30	<p>Nitrogen Treatment Strategies at Budd Inlet WWTP Patrick Roe, HDR Engineering</p>	<p>Regulations and Sustainability Drive Innovative Water Recycling Program in Corvallis, Oregon Preston Van Meter, Kennedy/Jenks</p>	<p>Impact of Key EPA Science Advisory Board Technical Findings William T. Hall, Hall & Associates</p>	<p>Solving the City of Tacoma's High Effluent TSS Problems: Unexpected Causes of Deflocculation Richard Kelly, Brown and Caldwell</p>	<p>Prioritizing Energy Conservation and Minimization of Greenhouse Gas Emissions at the Arlington WWTP Tom Giese, Kennedy/Jenks</p>	<p>Ammunition Manufacturing Kelly Lynn Graham, City of Bend</p>
4:30 - 5:15	<p>Treating Lagoon Effluent for Ammonia-N using a Nitrifying Trickling Filter: Results of a Pilot Study Kiersten Lee, University of Idaho</p>	<p>Water Reuse for a New City in Oregon: Solutions for Southeast Damascus Emily Callaway, CH2M HILL</p>	<p>The Impact of Advanced Nutrient Removal on Phosphorus Bioavailability Michael Brett, University of Washington</p>	<p>Particle Size Separation Implications on COD Removal before BNR: A Case Study at Heyburn, Idaho Remy Newcombe, Blue Water Technologies</p>	<p>NCRA Septic to Sewer Greenhouse Gas Evaluation Ho-ping Wei</p>	<p>Case Study on Pinellas County's Regional Approach to FOG and the Implementation of a Regional Manifest Tracking System Dave Stadelmann, Linko Data Systems</p>
5:15 - 7:00	Beer Tasting - Exhibit Hall					
7:00 - 9:00	PNCWA Awards Banquet					

EXHIBIT HALL



Wednesday Morning - October 27

7:00 - 1:00							Registration						
Session 19 - Cascade A Advanced Treatment Moderator Shawn Kohtz Murray Smith and Associates		Session 20 - Cascade C Collections & Pump Stations Moderator Shannon Taylor City of Redmond OR Sponsored by GE		Session 21 - Cascade D GIS-SCADA-Asset Management Moderator Ed Griffenberg HDR Engineering		Session 22 - Cascade E Solids Treatment Moderator Chris McCalib Lakehaven Utility District		Session 23 - Cascade F Inflow & Infiltration Moderator Sue Lawrence City of La Center		Session 24 - Cascade H Construction Moderator Dale Richwine Richwine Environmental			
Quantification of SBOD5 & PBOD5 Removals via Coupled Biological Contact Reactor & Ballasted High Rate Clarification System for Wet Weather WW Treatment Apps Matthew Cotton, Kruger		A Comprehensive Review of Alternatives to Increase Sewer Capacity Tom Perry, Murray, Smith & Associates		Data Overload - Making GIS Integration a Reality in Sewer Modeling Richard T. Wiebe, J-U-B Engineers		To Foam, or Not To Foam: Evaluating Causes for ATAD Foaming at Tacoma's Central Treatment Plant David Wingate, Brown and Caldwell		If I Had to Do This Over... A Twelve-Step Program to a Successful I/I Study Patrick L. Stevens, ADS Environmental Services		Prequalification - A Defensive Measure in Today's Bidding Climate Robert K. Lee, Brown and Caldwell			
WASAC: A Sustainable and Near-Carbon Neutral Secondary Process Jeff McCormick, Carollo Engineers		Developing a Large-Diameter Sewer Rehabilitation Program James Hansen, Brown and Caldwell		When Bad Things Happen to Good Plants: Developing a Managed Maintenance Approach Roy Brandon, Brown and Caldwell		Feasibility of Using a "Dry Fermentation" Process for Energy Recovery from Biosolids and Other Solid Waste Streams Brian Eis		Public Money for I&I Reduction on Private Property John Hendron, RH2 Engineering		The "Approach" Construction Dewatering Specification Larry West, Shannon & Wilson		Plant Tour Sunriver Resort 8:00-10:15	
Advanced Oxidation with UV Light and Peroxide for Reclamation of Water for Indirect Potable Reuse David S. Murray, Brown and Caldwell		From Rags to Riches Craig B. Anderson, Murray, Smith & Associates		Three Simple Steps to SCADA Systems Security Gilbert Kwan, Harris Group		Waste Gas Burner Replacement for KCWTD South Plant Jeffrey A. Lundt, King County		City of Springfield Sanitary Sewer Rehabilitation Program 2009 William H. Hollings, Murray, Smith & Associates		Construction Manager at Risk approach at LOTT's Budd Inlet Plant Patrick Roe, HDR Engineering			
10:15 - 10:30							Break						
		MBR						Clarification					
Batch Controlled Membrane Biological Reactor Dave Holland, Aqua Aerobics		Membrane Bioreactor and the High Flow Biological Treatment System for the Cox Creek WRF Thor Young, GHD		Applying Control System Standards to Implement a Control System Replacement at an Existing Operating Plant Kevin Stively, Brown and Caldwell		Innovative Long-Term Regional Biosolids Management Study in Eastern Ventura County Lakshmi 'Priya' Dhanapal, Kennedy/Jenks		Getting More for Less: A Study to Improve the Performance of the Caldwell Primary Clarifiers Marie Elizabeth Binford, Brown and Caldwell		Alternative Delivery for Large Infrastructure Projects - Lessons Learned from the Tri-City WPCP Phase 1 Expansion Jude Grounds, MWH			
Conversion of an Oxidation Ditch to the MLE Process to Increase Capacity John P. Wilson, Gray & Osborne		The Home Stretch - Approaching Start-Up of a State of the Art, Sustainable MBR Jason Diamond, GE Water & Process Technologies		How to Use Your Existing SCADA for Energy Management Don Best, HDR Engineering		Class A Biosolids Produced with Closed Alkaline Process Charles Michael Wanstrom, Schwing Bioset		Maximizing Secondary Clarifier Capacity with Three-Dimensional Modeling Randal W. Samstag, Carollo Engineers		Sometimes It Takes a BIG Team to Do the Job - Alternative Delivery of Cogeneration through the Washington ESPC Process Jeremy Holland, HDR Engineering			
7:00 - 1:00							CEU Forms Turn In						