

Monday Morning - September 14							
7:00 - 5:30	Registration						
7:30 - 9:45	FACILITY TOUR: City of Meridian WWTP    FACILITY TOUR: City of Kuna WWTP    FACILITY TOUR: City of Boise WaterShed Public Educational Center						
10:00 - Noon	Opening Session						
Noon - 1:15	PNCWA Business Luncheon						
Monday Afternoon - September 14							
	Session 1 - Payette River Rm. Workforce Sustainability	Session 2 - Snake River Rm. Wastewater Treatment	Session 3 - Salmon River Rm. Anaerobic Digestion/Bio-energy	Session 4 - Cottonwoods Rm. Collection Systems	Session 5 - Summit Auditorium Phosphorus Removal	Session 6 - Douglas Firs Rm. Metals Removal	Session 7 - Ponderosa Pines Rm. Operators Track
1:20 - 2:00	Organizational Strategies Support Sustainable Communities  <i>Brad Jurkovic, Woolpert</i>	Evaluating the West Boise Secondary Clarifiers: CFD Modeling and Field Verification  <i>Richard Kelly, Brown and Caldwell</i>	Sustainable Energy Recovery Systems Provides Revenue While Reducing Carbon Footprint at Wastewater Treatment Facilities  <i>Jyh-Wei (AJ) Sun, CDM</i>	To Dose or not to Over Dose-That's the Million Dollar Question  <i>Kevin Dour, Tetra Tech</i>	Primary Sludge Fermentation for Reliable Biological Phosphorus Removal  <i>Li Lei, CH2M HILL</i>	Zinc Removal by Reactive Filtration with Hydrous Manganese Oxide  <i>Remy Newcombe, Blue Water Technologies</i>	Mechanical Seals Part 1  <i>Dave Mathes, A.W. Chesterton</i>
2:00 - 2:40	You Say Goodbye, I Say Hello: Succession Planning in an Aging Workforce  <i>Eva LaBonte, Clean Water Services</i>	Decentralized Wastewater Collection and Treatment, Bethel Heights Case Study  <i>Tristian Bounds, Orenco Systems Inc.</i>	Practical Design and Operating Experience with Co-Digestion of Grease  <i>Greg Moen, HDR Engineering</i>	Expanding the Use of a Hydraulic Software Package: The Development of an Interceptor Odor Predictive Model  <i>Lisa Tamura, HDR Engineering</i>	Evaluation of Treatment Alternatives to meet Total Phosphorus Limits at the West Boise WWTF  <i>William Leaf, CH2M HILL</i>	Heavy Metal Sorption to Biogenic Iron Oxides  <i>Thomas Leake, Washington State University</i>	Mechanical Seals Part 2  <i>Dave Mathes, A.W. Chesterton</i>
2:40 - 3:20	Recruitment, Internships, Retention, and Today's Workforce (tentative)  <i>Mike Baker, David Evans and Associates (tentative)</i>	Algae Removal from Wastewater Treatment Pond Effluent by Dissolved-Air Flotation  <i>Yakup Nurdogan, CDM</i>	Bio-Energy Potential from Food Processing Solid Waste Materials  <i>Robert Pharmer, Pharmer Engineering</i>	Vapor Phase Odor Control for Collection Systems  <i>Rich Blackmun, Black &amp; Veatch</i>	A Comparative Environmental Life Cycle Assessment: Biological VS Chemical Phosphorus Removal <i>David Watkins, Univ. of Idaho and Dan Kranenburg, DCI Engineers</i>	The Nitty Gritty On Municipal Grit  <i>Pat Herrick, Hydro International</i>	Composite Coatings  <i>Ted Bruner, A.W. Chesterton</i>
3:20 - 3:40	Break - Main Lobby						
3:40 - 4:20	Succession Planning: Building Personal Accountability for Career Planning  <i>Nick Pealy &amp; Joanne Peterso, Seattle Public Utilities</i>	Performance of a Tire Chip Media Constructed Wetland  <i>William Li, Stantec</i>	Fuel Interchangeability and supplementing biogas with propane/air or Natural Gas/air <i>Sean Guichon, Algas-SDI International</i>	Solving the Backup Dilemma in a Seattle Neighborhood  <i>Martha Burke, Seattle Public Utilities</i>	Phosphorus removal using biogenic iron oxides as a filter media substrate <i>Haley Falconer, Washington State University</i>	Wastewater Screening - A Fine Subject  <i>Tadd Giesbrecht, Brown and Caldwell</i>	Pump Basics  <i>Ed Smith PumpTech</i>
4:20 - 5:00	Next Generation Mentoring: Helping Younger Workers Find Meaning FOLLOWED BY ROUNDTABLE WITH ALL SESSION #1 SPEAKERS  <i>Nicki Pozos, Carollo Engineers</i>	Life Cycle Analysis for Selection of Treatment Processes and Materials of Construction for an On-Site Wastewater Treatment Facility  <i>Russell Mau, Gonzaga University</i>	Renewable Energy Utilization of Wastewater Treatment Facilities  <i>Jim Georger, Kruger, Inc.</i>	Albuquerque Bernalillo County Water Utility Authority Performs Comprehensive Odor Study on Its Entire Sanitary Interceptor System  <i>Mark Smith, HDR Engineering</i>	Pushing the Envelope with Low Phosphorus Limits  <i>Peter Schauer, Black &amp; Veatch</i>	Green Screening in Bend, Oregon  <i>Brian Casey, Carollo Engineers</i>	Pump Troubleshooting  <i>Ed Smith PumpTech</i>
Manufacturers Reception, 2-Person Operations Challenge, Monday Night Fun Night— Exhibit Hall							

Tuesday Morning - September 15						
7:00 - 5:30	Registration					
7:00 - 8:30	Continental Breakfast					
7:00 - 8:15	Operators Breakfast					
8:15 - 10:15	Section Exchange					
10:00 - 3:00	4-Person Operations Challenge					
	Session 8 - Payette River Rm. <b>Pump Stations/Hydraulics</b>	Session 9 - Summit Auditorium <b>BNR</b>	Session 10 - Snake River Rm. <b>Instrumentation/I&amp;C</b>	Session 11 - Salmon River Rm. <b>Water Reuse</b>	Session 12 - Cottonwoods Rm. <b>Utility Management</b>	Session 13 - Douglas Firs Rm. <b>Solids Processing/Reduction</b>
8:00 - 8:40	Trouble-shooting Vibration Issues at a Major Wastewater Pumping Station <i>Douglas Schneider, Brown and Caldwell</i>	Probabilistic Modeling and Uncertainty Analysis of a Two-Stage Biological Nitrogen Removal Process <i>Ayanangshu Dey, Mississippi State University</i>	Migration Path from an Aging Network to Ethernet Controls <i>Gilbert Kwan and Gabe Shones, Harris Group</i>	Microconstituent and Pathogen Removal in Reclaimed Water: A Summary of Pilot Testing Results and Full Scale Costs <i>Keith Bourgeois, Carollo Engineers</i>	Business Intelligence for the Modern Utility <i>Glenn Wolf, Westin Engineering</i>	Innovative Biosolids Management at the Hills Canyon Treatment Plant <i>Lakshmi Priya Dhanapal, Kennedy/Jenks Consultants</i>
8:40 - 9:20	Brightwater Marine Outfall Lessons Learned <i>Jeffrey Lundt, King County Wastewater Treatment Division</i>	Modernizing Trickling Filters for Nutrient (N & P) Removal <i>John Harrison, CDM</i>	Effluent Reuse in Water Reclamation Facilities, Instrumentation and Controls <i>Terry Stulc, Trindera Engineering</i>	Wastewater High Rate Irrigation – A Treatment Discharge Alternative <i>Daniel Moreno, Oregon State University</i>	Visualizing the Impact of Decision Making with the EFC Financial Dashboard <i>Bill Jarocki, Environmental Finance Center, Boise State University</i>	Cannibal™ Solids Reduction Process Implementation and Operation: Three Case Studies <i>Alan Chang, CH2M HILL</i>
9:20 - 10:00	Wet Well Design Using VFD's and Submersible Pumps <i>Bruce Dudzik, HDR Engineering</i>	Advancing a Novel Process for Post-Anoxic Denitrification <i>Alexander Mockos, University of Idaho</i>	The Major Problem with Automation - A Consultant's View <i>Robert Salmond, Tetra Tech</i>	Pilot Testing and Evaluation of Three Filtration Technologies for the Eugene / Springfield Wastewater Treatment Plant <i>Steve Celeste, Kennedy/Jenks Consultants</i>	Using Business Risk Exposure Tools To Reduce a Utility's liabilities. <i>Thomas Keown, GHD</i>	Simultaneous Dewatering and Class "A" Processing of WWTP Biosolids and Septage Utilizing a Steam Heated Screw Press <i>James Capell, FKC Co.</i>
10:00 - 10:30	Break - Exhibitors Hall					
	<b>Wastewater Treatment</b>	<b>Phosphorus Removal</b>	<b>Procurement/Contracting</b>			<b>Regulatory</b>
10:30 - 11:10	Offset rising energy costs and reduce your carbon footprint with small hydropower: City of Gresham Case Study <i>D. Peter Oveson, Brown and Caldwell</i>	Reducing RPWRF Effluent TP for Discharge to the Spokane River <i>Larry Esvelt, Esvelt Environmental Engineering</i>	How can I get what I asked for when this is a public bid contract? A Discussion on Alternative Procurement Strategies for Control System Installations <i>Kevin Stively, Brown and Caldwell</i>	System-Wide Water Budgeting for Reuse Master Planning - South Truckee Meadows WRF <i>Jason Smesrud, CH2M HILL</i>	Do You Know Your Cost of Treatment? <i>Tom Stow, Clean Water Services</i>	Spokane River TMDL – An Idaho Perspective <i>Paul Klatt, J-U-B Engineers</i>
11:10 - 11:50	Compact Wastewater Plants <i>John Harrison, CDM</i>	Treatment Process Selection for Very Low Effluent Phosphorus in Coeur d'Alene <i>David Clark, HDR Engineering</i>	An Alternative Contracting Procedure <i>Steve Kebbe, Clean Water Services</i>	After Planting the Seed: Growing a Water Reuse Program - Meridian, Idaho <i>Clint Dolsby, City of Meridian Idaho</i>	Master Planning Plus <i>Shem Liechty, Brown and Caldwell</i>	National WEF Update to Legislative and Regulatory Activities <i>Bob Matthews, CDM</i>
11:50 - 1:20	Buffet Luncheon—Exhibitors Hall					

EXHIBITORS HALL

**Tuesday Afternoon - September 15**

11:50 - 1:20							Buffet Luncheon—Exhibitors Hall						
Session 14 - Payette River Rm. <b>Centrate to Fertilizer</b>		Session 15 - Snake River Rm. <b>Disinfection</b>		Session 16 - Salmon River Rm. <b>Stormwater</b>		Session 17 - Cottonwoods Rm. <b>CSOs/SSOs/I&amp;I</b>		Session 18 - Summit Auditorium <b>WWTF Optimization/Sustainability</b>		Session 19 - Douglas Firs Rm. <b>Asset Management</b>			
1:20 - 2:00		Can Nutrient Recovery be a Financially Sustainable Development Objective? <i>David Seymour, Kennedy/Jenks Consultants</i>	Peracetic Acid - A New Disinfection Approach <i>Kelley Dancey, CH2M HILL</i>		Source Tracing (IDDE) Using Innovative Technologies <i>Rick Fuller, City of Tacoma WA</i>		A Broad-Brush Approach, using GIS, to Identify CSO Reduction Alternatives <i>Joan Montgomery &amp; Grizelda Sarria, Tetra Tech</i>		Making the Best Use of Assets in a Poor Economy at the Meridian, Idaho WWTP <i>Daniel Ayers, CH2M HILL</i>		Engineering Technologies for Underground Infrastructure Asset Management <i>Rich Blackmun, Black &amp; Veatch</i>		
2:00 - 2:40		West Boise WWTF Use of Struvite Crystallization Technology as part of the Phosphorus Removal Plan <i>Dan Barbeau, Pharmer Engineering</i>	Selection of UV Disinfection Systems for Achieving Class A Reuse Water at Small MBR plants <i>Li Lei, CH2M HILL</i>		Rewriting Seattle's Stormwater Ordinance <i>Robert Chandler, Seattle Public Utilities</i>		So Just How Effective Are Lamella Plates in Combined Sewer Overflow (CSO) Treatment? <i>Matt Crow, CDM</i>		Side Effects of WWTP Process Optimization <i>Levi Shoolroy, J-U-B Engineers</i>		Capital Plan Prioritization using Asset Management Strategies <i>Marc Yarlott, Veolia Water North America</i>		
2:40 - 3:20		Impact of Phosphorus Recovery on Treatment and Operation at Durham AWWTP <i>Mario Benisch, HDR Engineering</i>	Installation, operation and maintenance of a non-contact UV disinfection system <i>Sean Goris, Black &amp; Veatch</i>		A Tale of Three Cities: Retrofitting Surface Water Drainage Systems with Submersible Pump Stations <i>James Baird, Romtec Utilities</i>		Consequences of Managing CSO Flows through a Wastewater Treatment Plant – Case History at Port Angeles <i>Patricia Tam, Brown and Caldwell</i>		Case Study: Use of a Scale Model to Optimize Treatment Efficiency of the Moscow, ID WWTF <i>Matthew Gregg &amp; Nick Guho, University of Idaho</i>		Knowing the Current Condition of your Assets – a Simple and Effective Process <i>Roy Brandon, Brown &amp; Caldwell</i>		
3:20 - 3:40							Break - Exhibitors Hall						
3:40 - 4:20		<b>Managing Your Discharge</b>		<b>Pharmaceuticals &amp; EDCs</b>						<b>Education/Safety</b>			
Zero Discharge, Challenges and Opportunities <i>Doug Berschauer, CH2M HILL</i>		Fate of the endocrine disruptor compound, bisphenol A in municipal wastewater treatment plants - should we be concerned? <i>Henryk Melcer, Brown and Caldwell</i>		Measuring the Effectiveness of the City of Santa Monica's Award-winning Westside Urban Runoff Treatment Facility <i>Lawrence Magura, Black &amp; Veatch</i>		Balancing Immediate SSO Needs with Ongoing Comprehensive Wastewater Planning; A Case Study of the Planning, Design and Construction of Flow Equalization for the City of Blaine, WA <i>Jeff Lykken, Tetra Tech</i>		Optimizing Existing Aeration Basins for BNR Upgrade and Plant Capacity at the Meridian ID WWTP. <i>Ryan Anderson, Carollo Engineers</i>		LOTT's New Education Center: A Renewed Educational Focus for our Wastewater Utility <i>Lisa Dennis-Perez, LOTT Alliance</i>			
4:20 - 5:00		Is Your Multi-Port Diffuser on It's Best Behavior? : Predicting and Validating Discharge Characteristics <i>Kwabena Adu-Sarkodie, West Yost Associates</i>		Monitoring Groundwater for Pharmaceuticals and Personal Care Products from Municipal Lagoon Treatment <i>Tressa Nicholas, Idaho Dept. of Environmental Quality</i>		City of Los Angeles Stormwater Infiltration Projects <i>Alice Gong, City of Los Angeles</i>		Challenges of Continuous Simulations to Validate Compliance for CSO Facility Design <i>Duane Studer, AECOM</i>		Incorporating Sustainable Features Into the Tri City WPCP Phase I Expansion <i>Dale Richwine, MWH Americas</i>		Building a Safety Culture <i>Matthew Beltran, Veolia Water North America</i>	
6:00 - 7:00							Consultants Reception						
7:00 - 9:00							PNCWA Awards Banquet						

EXHIBITORS HALL

Wednesday Morning - September 16								
7:00 - 4:30	Registration							
7:00 - 8:30	Continental Breakfast							
	Session 20 - Payette River Rm. <b>Anaerobic Digestion/Bio-energy</b>	Session 21 - Snake River Rm. <b>Collection Systems</b>	Session 22 -Summit Auditorium <b>MBRs</b>	Session 23 -Salmon River Rm. <b>Water Quality/Effluent Criteria &amp; TMDLs</b>	Session 24 - Cottonwoods Rm. <b>Energy Efficiency</b>	Session 25 - Douglas Firs Room <b>Wastewater Planning</b>	<b>8 AM - 4 PM Special Session - Ponderosa Pines</b>	
<b>8:00 - 8:40</b>	A Study of Co-digestion of Organic Wastes for Increased Biogas Production  <i>Michael Salerno, CDM</i>	Design and Construction of a 200-foot-deep, 24-foot-diameter Conveyance System Access Shaft  <i>Daniel Williams, MWH Americas</i>	There is another flat plate MBR technology - evaluation of Huber's VRM membrane bioreactor.  <i>Henryk Melcer, Brown and Caldwell</i>	Using the Biotic Ligand Model, Water Effect Ratio, and Copper Translator for Site Specific Copper Criteria to Update Effluent Limits for a WWTP  <i>Scott Tobiason, Brown and Caldwell</i>	Net Present Worth Calculations in Fine Bubble Aeration Purchase Evaluations  <i>Richard Quinn, Stamford Scientific International</i>	A Coalition Approach to Regional Wastewater Planning: Finding the Way Together  <i>Heather Stephens, Kennedy/Jenks Consultants</i>	Wastewater Reuse Land Treatment System Modeling <i>Michael Cook Idaho DEQ</i>	
<b>8:40 - 9:20</b>	Climate Friendly: Food Waste Diversion to Digestion  <i>Mike Joyce, Kennedy/Jenks Consultants</i>	Condition Assessment & Rehabilitation Technology Selection Pierce County 72-inch Wastewater Tunnel to the Chambers Creek WWTP  <i>Mike Hyland, CDM</i>	How to Implement a Membrane Bioreactor Facility under a Tight Schedule  <i>Jude Grounds, MWH Americas</i>	Water Quality Standards Variances – What they are and when to use them  <i>Steve James, J-U-B Engineers</i>	Turbo blowers improve energy efficiency at an oxidation ditch wastewater treatment plant  <i>Chad Newton, Gray &amp; Osborne</i>	Collection System Modeling and GIS Applications  <i>Shad Roundy, Murray, Smith &amp; Associates</i>		
<b>9:20 - 10:00</b>	Full Scale and Operating Comparisons of Biogas Use Technologies at the Columbia Boulevard WWTP  <i>Garry Ott, City of Portland Bureau of Environmental Services</i>	Can You See It Now? Visual Tools Making Sanitary Sewer Master Planning Results Accessible and Useful  <i>Jeff Pelz, West Yost Associates</i>	Tools for predicting fouling in membrane bioreactors  <i>Adrienne Menniti, CH2M HILL</i>	Application of USEPA Aquatic Ecosystem Model AQUATOX to the Lower Boise River  <i>Thomas Dupuis, CH2M HILL</i>	Energy Efficiency Incentive Programs for Water Reclamation Facilities  <i>Terry Stulc, Trindera Engineering</i>	What You Don't Know May Cost You: Getting the Most Out of Your Existing Infrastructure  <i>Tom Giese, Kennedy/Jenks Consultants</i>		
<b>10:00 - 10:15</b>	Break							
					<b>Turbo Blowers</b>	<b>Small WWTFs/Startup</b>		
<b>10:15 - 10:55</b>	Cogeneration at the Columbia Boulevard WWTP: Procurement, Design, Construction and Operation <i>Muriel Gueissaz-Teufel, CDM</i>	Laser Profiling and Its Use in Pipe Assessment and Rehabilitation  <i>Jim Hansen, Brown and Caldwell</i>	MBR Design and Construction: The Devil is in the Details  <i>Val Frenkel, Kennedy/Jenks Consultants</i>	Creative Solutions to Nutrient Challenges in the Prickly Pear Watershed  <i>Amanda McInnis, HDR Engineering</i>	Direct Drive-Energy Efficient-High Speed-Turbo Blowers  <i>Al Firmin, CDM</i>	Wastewater Treatment Plant for Small Communities Designed for Lower Cost Operations–Construction & Startup <i>John Crippen, CDM</i>		
<b>10:55 - 11:35</b>	Digester Mixing – What's the Right System for My Plant?  <i>Michelle Burkhart, CH2M HILL</i>	Something Old, Something New: Redirecting an Existing, Operating Influent System to Serve a New Treatment Plant  <i>William Cranston, MWH Americas</i>	Lessons learned from MBR start-up  <i>Doug Berschauer, CH2M HILL</i>	Using an innovative asset management framework to improve watershed health and program effectiveness  <i>Jennifer Belknap Williamson, Brown and Caldwell</i>	Turbo Blower Evaluation and Prepurchase Two Large Project Case Studies  <i>Randal Zollinger, Bowen Collins &amp; Associates</i>	5-Day Lagoon Seepage Test – Case Study  <i>Brett Converse, J-U-B Engineers</i>		
<b>11:35 - 12:15</b>	Not Wasting Food Wastes: The City of Tacoma Experience Developing Co-Digestion at the Central Treatment Plant <i>Christopher Muller, Brown and Caldwell</i>	Trenchless Crossing Evaluation on the Martha Lake Gateway Sewer  <i>Eric Schey, Jacobs</i>	Dynamic Control of Scouring Airflow Rate Based on TMP in Submerged Membrane Bioreactor  <i>Hong Zhao, Kruger</i>	Water Quality Waivers for Small Communities  <i>Mark Holtzen, J-U-B Engineers.</i>	Turbo Blower Experiences  <i>Jason Broome, Forsgren Associates</i>	Startup - Chaos or Order  <i>John Koch, HDR Engineering</i>		
<b>7:00 - 4:30</b>	CEU Turn In							