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 - Pavette River Session 3 - Salmon River Session 4 - Cottonwoods Session 5 - The Summit Session 6 - Douglas Firs Session 7 - Ponderosa Pines Session 2 - Snake River Workforce Sustainability Wastewater Treatment Anaerobic Digestion/Bio-energy Collection Systems Metals Removal Phosphorus Removal Operators Track Moderator Chris McCalib, Lakehaven Utility Moderator Erik Coats, University of Idaho Moderator Nicki Pozos, Carollo Engineering Moderator Cyndy Bratz, Brown and Caldwell Moderator Carrie Pak, Clean Water Services Moderator Gilbert Sanchez, Veolia Water NA Moderator Jim Pardy, City of Boise District Sponsored by West Yost Associates SPONSOR Sponsored by Brown and Caldwell Evaluating the West Boise Secondary Sustainable Energy Recovery Systems Organizational Strategies Support To Dose or not to Over Dose-That's the Primary Sludge Fermentation for Reliable Zinc Removal by Reactive Filtration with Clarifiers: CFD Modeling and Field Provides Revenue While Reducing Carbon Mechanical Seals Part 1 Hydrous Manganese Oxide Sustainable Communities Million Dollar Question **Biological Phosphorus Removal** 1:20 - 2:00 Verification Footprint at Wastewater Treatment Facilities Richard Kelly, Brown and Caldwell Jyh-Wei (Al) Sun, CDM Li Lei, CH2M HILL Brad Jurkovac, Woolpert Kevin Dour, Tetra Tech Remy Newcombe, Blue Water Technologies Dave Mathes, A.W. Chesterton Expanding the Use of a Hydraulic Software Evaluation of Treatment Alternatives to meet You Say Goodbye, I Say Hello: Succession Decentralized Wastewater Collection and Practical Design and Operating Experience Package: The Development of an Interceptor Total Phosphorus Limits at the West Boise Heavy Metal Sorption to Biogenic Iron Oxides Mechanical Seals Part 2 Planning in an Aging Workforce Treatment, Bethel Heights Case Study with Co-Digestion of Grease 2:00 - 2:40 Odor Predictive Model WWTF Eva LaBonte, Clean Water Services Tristian Bounds, Orenco Systems Inc. Greg Moen, HDR Engineering Lisa Tamura, HDR Engineering William Leaf, CH2M HILL Thomas Leake, Washington State University Dave Mathes, A.W. Chesterton Wastewater Pretreatment A Comparative Environmental Life Cycle Succession Planning: Building Personal Algae Removal from Wastewater Treatment Bio-Energy Potential from Food Processing Vapor Phase Odor Control for Collection Assessment: Biological VS Chemical The Nitty Gritty On Municipal Grit Composite Coatings Accountability for Career Planning Pond Effluent by Dissolved-Air Flotation Solid Waste Materials Systems 2:40 - 3:20 Phosphorus Removal David Watkins, J-U-B Engineers; Dan Nick Pealy, Seattle Public Utilities Yakup Nurdogan, CDM Robert Pharmer, Pharmer Engineering Rich Blackmun, Black & Veatch Pat Herrick, Hydro International Ted Bruner, A.W. Chesterton Kranenburg, DCI Engineers 3:20 - 3:40 Break - Main Lobby Creating your Talent Pipeline through Performance of a Tire Chip Media Fuel Interchangeability and supplementing Solving the Backup Dilemma in a Seattle Phosphorus removal using biogenic iron Apprenticeship (an in-house program for Wastewater Screening - A Fine Subject Pump Hydraulics (Basics) Constructed Wetland biogas with propane/air or Natural Gas/air Neighborhood oxides as a filter media substrate 3:40 - 4:20 operators) Tadd Giesbrecht, J-U-B Engineers and Tom Joanne Peterson, Seattle Public Utilities William Li. Stantec Sean Guichon, Algas-SDI International Martha Burke, Seattle Public Utilities Haley Falconer, Washington State University Ed Smith and Joe Evans, PumpTech Chapman, Brown and Caldwell Albuquerque Bernalillo County Water Utility Next Generation Mentoring: Helping Younger Life Cycle Analysis for Selection of Treatment Renewable Energy Utilization of Wastewater Authority Performs Comprehensive Odor Pushing the Envelope with Low Phosphorus Workers Find Meaning (followed by Processes and Materials of Construction for Green Screening in Bend, Oregon Pump Hydraulics (Advanced) 4:20 - 5:00 Treatment Facilities Study on Its Entire Sanitary Interceptor L imits ROUNDTABLE WITH ALL SPEAKERS) an On-Site Wastewater Treatment Facility System Nicki Pozos, Carollo Engineers Russell Mau, Gonzaga University Jim Georger, Kruger, Inc. Mark Smith, HDR Engineering Peter Schauer, Black & Veatch Brian Casey, Carollo Engineers Ed Smith and Joe Evans, PumpTech Manufacturers Reception, 2-Person Operations Challenge, Water For People Build A Latrine Fundraiser, Monday Night Fun Night- Exhibit Hall

	- September 15								
7:00 - 5:30	Registration								
7:00 - 8:30	Continental Breakfast								
7:00 - 8:00	Operators Breakfast								
8:00 - 10:00	Section Exchange								
10:00 - 3:00	4-Person Operations Challenge								
	Session 8 - Payette River Pump Stations/Hydraulics	Session 9 - The Summit BNR	Session 10 - Snake River Instrumentation/I&C	Session 11 - Salmon River Water Reuse	Session 12 - Cottonwoods Utility Management	Session 13 - Douglas Firs Solids Processing/Reduction			
	Moderator Jeff Lundt, King County	Moderator Heather Stephens, Kennedy/Jenks	Moderator David Watkins, J-U-B Engineers	Moderator Adrienne Menniti, CH2M HILL	Moderator Eddie Speer, CDM	Moderator Brian Hemphill, HDR Engineering			
SPONSOR	Sponsored by Parametrix								
8:00 - 8:40	Trouble-shooting Vibration Issues at a Major Wastewater Pumping Station	Probabilistic Modeling and Uncertainty Analysis of a Two-Stage Biological Nitrogen Removal Process	Migration Path from an Aging Network to Ethernet Controls	Microconstituent and Pathogen Removal in Reclaimed Water: A Summary of Pilot Testing Results and Full Scale Costs	Business Intelligence for the Modern Utility	Innovative Biosolids Management at the Hill: Canyon Treatment Plant			
	Douglas Schneider, Brown and Caldwell	Ayanangshu Dey, Mississippi State University	Gilbert Kwan and Gabe Shones, Harris Group	Keith Bourgeous, Carollo Engineers	Glenn Wolf, Westin Engineering	Priya Dhanapal and Monty Hazlehurst, Kennedy/Jenks Consultants			
8:40 - 9:20	Brightwater Marine Outfall Lessons Learned	Modernizing Trickling Filters for Nutrient (N & P) Removal	Effluent Reuse in Water Reclamation Facilities, Instrumentation and Controls	Flexible MBR Design to Meet Unknown Permit Limits, Low Flow Start-up Conditions, and Future Reuse Requirements	Visualizing the Impact of Decision Making with the EFC Financial Dashboard	Cannibal [™] Solids Reduction Process Implementation and Operation: Three Case Studies			
	Jeffrey Lundt, King County Wastewater Treatment Division	John Harrison, CDM	Terry Stulc & Raymond Daigh, Trindera Engineering	Larry Rupp, Keller Associates	Darcey Doyle, Environmental Finance Center, Boise State University	Alan Chang, CH2M HILL			
9:20 - 10:00	Wet Well Design Using VFD's and Submersible Pumps	Advancing a Novel Process for Post-Anoxic Denitrification	The Major Problem with Automation - A Consultant's View	Pilot Testing and Evaluation of Three Filtration Technologies for the Eugene / Springfield Wastewater Treatment Plant	Using Business Risk Exposure Tools To Reduce a Utility's liabilities.	Simultaneous Dewatering and Class "A" Processing of WWTP Biosolids and Septage Utilizing a Steam Heated Screw Press			
	Bruce Dudzik, HDR Engineering	Alexander Mockos, University of Idaho	Robert Salmond, Tetra Tech	Steve Celeste, Kennedy/Jenks Consultants	Thomas Keown, GHD	James Capell, FKC Co.			
10:00 - 10:30	D Break - Exhibitors Hall								
	Wastewater Treatment	Phosphorus Removal	Procurement/Contracting			Regulatory			
10:30 - 11:10	Offset rising energy costs and reduce your carbon footprint with small hydropower: City of Gresham Case Study	·	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	System-Wide Water Budgeting for Reuse Master Planning - South Truckee Meadows WRF	Do You Know Your Cost of Treatment?	Spokane River TMDL – An Idaho Perspective			
	Jennifer Belknap Williamson, Brown and Caldwell	Larry Esvelt, Esvelt Environmental Engineering	Kevin Stively, Brown and Caldwell	Jason Smesrud, CH2M HILL	Tom Stow, Clean Water Services	Paul Klatt, J-U-B Engineers			
11:10 - 11:50	Compact Wastewater Plants	Treatment Process Selection for Very Low Effluent Phosphorus in Coeur d'Alene	An Alternative Contracting Procedure	After Planting the Seed: Growing a Water Reuse Program - Meridian, Idaho	Master Planning Plus	National WEF Update to Legislative and Regulatory Activities			
1110 - 11.00	John Harrison & Muriel Gueissaz-Teufel, CDM	David Clark, HDR Engineering	Steve Kebbe, Clean Water Services	Tom Barry and Clint Dolsby, City of Meridian; David Keil, HDR	Shem Liechty and Jason Mumm, Brown and Caldwell	Bob Matthews, CDM			
11:50 - 1:20	Buffet Luncheon								

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11:50 - 1:20	Buffet Luncheon—Exhibitors Hall						
	Session 14 - The Summit Centrate to Fertilizer Moderator Craig Anderson, Murray, Smith &	Session 15 - Snake River Disinfection	Session 16 -Salmon River Stormwater	Session 17 - Cottonwoods CSOs/SSOs/I&I	Session 18 - Payette River WWTF Optimization/Sustainability Moderator Max Hildebrand, Brown and	Session 19 - Douglas Firs Asset Management	
	Associates	Moderator Bill Benko, Carollo Engineers Moderator Shannon Taylor, City of Redmond		Moderator Bob Swarner, King County	Caldwell	Moderator Mark Walter, Clean Water Services	
PONSOR	Sponsored by HDR Engineering			Sponsored by Tetra Tech	Sponsored by J-U-B Engineers		
1:20 - 2:00	Can Nutrient Recovery be a Financially Sustainable Development Objective?	Peracetic Acid - A New Disinfection Approach	Source Tracing (IDDE) Using Innovative Technologies	A Broad-Brush Approach, using GIS, to Identify CSO Reduction Alternatives	Making the Best Use of Assets in a Poor Economy at the Meridian, Idaho WWTP	Engineering Technologies for Underground Infrastructure Asset Management	
	David Seymour, Kennedy/Jenks Consultants	Kelley Dancey, CH2M HILL	Rick Fuller, City of Tacoma WA	Joan Montgomery and Grizelda Sarria, Tetra Tech	Daniel Ayers, Brown and Caldwell; Bruce Johnson, CH2M HILL; Clint Dolsby, City of Meridian	Rich Blackmun, Black & Veatch	
2:00 - 2:40	West Boise WWTF Use of Struvite Crystallization Technology as part of the Phosphorus Removal Plan	Selection of UV Disinfection Systems for Achieving Class A Reuse Water at Small MBR plants	Low Impact Development - Land Use, Policy and Technical Feasibility Framework	So Just How Effective Are Lamella Plates in Combined Sewer Overflow (CSO) Treatment?	Side Effects of WWTP Process Optimization	Capital Plan Prioritization using Asset Management Strategies	
	Dan Barbeau, Pharmer Engineering	Li Lei, CH2M HILL	Paul Fendt, CDM	Matt Crow, CDM	Levi Shoolroy, J-U-B Engineers	Marc Yarlott, Veolia Water North America	
2:40 - 3:20	Impact of Phosphorus Recovery on Treatment and Operation at Durham AWWTP	Installation, operation and maintenance of a non-contact UV disinfection system	ТВА	Consequences of Managing CSO Flows through a Wastewater Treatment Plant – Case History at Port Angeles	Caldwell, ID Actiflo Turbo Low Phosphorous Pilot Project	Knowing the Current Condition of your Asset – a Simple and Effective Process	
	Mario Benisch, HDR Engineering	Sean Goris, Black & Veatch		Patricia Tam, Brown and Caldwell	Jim Georger, Kruger, Inc. and John O'Hare, Veolia Water NA	Roy Brandon, Brown & Caldwell	
3:20 - 3:40			Break - Ext	hibitors Hall			
	Managing Your Discharge	Pharmaceuticals & EDCs				Education/Safety	
3:40 - 4:20	Zero Discharge, Challenges and Opportunities	Fate of the endocrine disruptor compound, bis- phenol A in municipal wastewater treatment plants - should we be concerned?	Measuring the Effectiveness of the City of Santa Monica's Award-winning Westside Urban Runoff Treatment Facility	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	Optimizing Existing Aeration Basins for BNR Upgrade and Plant Capacity at the Meridian ID WWTP.	LOTT's New Education Center: A Renewed Educational Focus for our Wastewater Utility	
3.40 - 4.20	Doug Berschauer, CH2M HILL	Henryk Melcer, Brown and Caldwell	Lawrence Magura, Black & Veatch	Jeff Lykken, Tetra Tech	Ryan Anderson, Carollo Engineers; Clint Dolsby, City of Meridian	Lisa Dennis-Perez, LOTT Alliance	
4:20 - 5:00	Is Your Multi-Port Diffuser on It's Best Behavior? : Predicting and Validating Discharge Characteristics	Monitoring Groundwater for Pharmaceuticals and Personal Care Products from Municipal Lagoon Treatment	Federal Stormwater RegulationsAre they relevant in the desert and how do they affect you?	Challenges of Continuous Simulations to Validate Compliance for CSO Facility Design	Incorporating Sustainable Features Into the Tri City WPCP Phase I Expansion	Building a Safety Culture	
	Kwabena Adu-Sarkodie, West Yost Associates	Tressa Nicholas, Idaho Dept. of Environmental Quality	Dennis Galinato, Murray Smith & Associates	Duane Studer, AECOM	Dale Richwine, Richwine Environmental	Matthew Beltran, Veolia Water North America	
6:00 - 7:00	Consultants Reception						
7:00 - 9:00	PNCWA Awards Banquet						

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