

PNCWA 2015

Building Professional Excellence in Water Quality™

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Kennedy/Jenks Consultants

Monday Morning - October 26								
7:00 - 5:30	Registration							
8:00 - 10:00	Opening Session							
10:00 - 10:30	Break & Operations Challenge Viewing Time							
10:00 - 3:00	4-Person Operations Challenge							
	Session 1A Treatment Process	Session 2A Regulations	Session 3A Planning	Session 4A Digestion / Energy Recovery	Session 5A Collection Systems	Session 6A Stormwater / Combined Sewer Overflow	Session 7A Laboratory	
10:30 - 11:15	Sidestream Growth of Nitrifying and Nitrifying-Denitrifying Granular Sludge for Use in Mainstream Nitrification Bioaugmentation <i>Bryce Figdore, University of Washington</i>	Evaluating a Water Quality Trading Program for Your Facility <i>Kaola Swanson, Freshwater Trust; Mollie Mangerich, City of Meridian</i>	Tailoring Alternative Delivery to Meet Your Needs: Chambers Creek Regional Wastewater Treatment Plant (CCRWTP) <i>Chris Cleveland, Brown and Caldwell; Ryan Dooley, Pierce County</i>	A Comparison of WAS-Only Versus Primary+WAS Thermal Hydrolysis Pre-treatment to Mesophilic Anaerobic Digestion <i>Drury Whitlock, CH2M</i>	Proactive, Condition-Centric Force Main Management – Mitigating Risks <i>Logan Fesenmair, Pure Technologies</i>	To Separate or Not to Separate – That Is the Question for Today's Wastewater Utilities with Combined Sewer Systems <i>Craig Close, HDR Engineering</i>	The Puzzle of Developing Special Lab Methods <i>Wayne Heinemann, CH2M</i>	
11:15 - 12:00	Evaluating Nitrogen Side Stream Treatment for Centrate at the Meridian, ID Wastewater Treatment Plant <i>Zach Dobroth, Brown and Caldwell</i>	Creative and Common-Sense Approaches to Temperature Compliance in Idaho <i>Jason Smesrud, CH2M</i>	Discovery Clean Water Alliance – Collaborative Capital Planning for a New Regional Agency <i>John M. Peterson, Clark Regional Wastewater District; Michelle Burkhardt, CH2M</i>	The Quest for Renewable Natural Gas: Portland's Progress on Biogas to RNG <i>Muriel Gueissaz-Teufel, City of Portland; Jeremy Holland, HDR Engineering</i>	Pierce County Wins a 35-Year Battle with RDII <i>Robin Ordonez, Predl Systems; Kip Julin, Pierce County</i>	Seattle Public Utilities' CSO Reduction Program – Continuing the Legacy of Improving Water Quality <i>Jennifer Price, CH2M; Ben Marré, Seattle Public Utilities</i>	The Unintended Consequences of New Low Numeric Mercury Permit Limits <i>Kathryn Harris, City of Boise</i>	
Monday Afternoon - October 26								
12:00 - 1:15	Networking Lunch							
1:15 - 2:00	Optimizing Vertical Flow Wetland Distribution and Operation for Anammox Potential <i>Leila Barker, Clean Water Services</i>	Toxics – What Levels Are in the Environment and Our Wastewater? <i>Lynn Williams, Brown and Caldwell</i>	Enhancing Value with Alternative Project Delivery <i>Corey Maxfield, MWH Constructors</i>	Co-Digestion of High Strength Wastes: Need for a Holistic Approach <i>Ganesh Rajagopalan, Kennedy/Jenks Consultants</i>	Sewer Force Mains: Making Cost-Effective Risk-Based Decisions about Condition Assessment vs. Replacement <i>Colleen Petilla, HDR Engineering; Alexander Mockos, Seattle Public Utilities</i>	Reliability and Redundancy in Equipment Evaluation for CSO Facilities <i>Jeffrey Lundt, King County</i>	Mad as a Hatter about Mercury Local Limits <i>Terry Alber, City of Boise</i>	
2:00 - 2:45	Fernhill Natural Treatment System: Using Vertical Flow Wetlands to Target Ammonia Removal <i>Michael Humm, Kennedy/Jenks Consultants</i>	Outfall Mixing Studies as a Tool to Address Emerging Aquatic Life & Human Health Water Quality Criteria <i>David Wilson, CH2M</i>	A Tale of Two Projects: Recent Experience Using CMGC Project Delivery <i>John Dummer, Clean Water Services</i>	Startup of a FOG Feed System to Anaerobic Digesters <i>Peter Schauer, Clean Water Services</i>	Do You Smell Stormwater? <i>Dennis Galinato, Murray, Smith & Associates; Clint Dolsby, City of Meridian</i>	Reliability Centered Design for King County's New Georgetown Wet Weather Treatment Station <i>Tina Hastings, CH2M; Alden Wyma, King County</i>	Discharge Compliance for Phosphorus and Trace Metals <i>Karen McHale, Blue Water Technologies</i>	
2:45 - 3:00	Break							
	Session 1B Treatment Process	Session 2B Regulations	Session 3B Management	Session 4B Digestion / Energy Recovery	Session 5B Collection Systems	Session 6B Water Reuse	Session 7B Laboratory	
3:00 - 3:45	A Critical Summary Review of Phytoremediation and Bioremediation of Polychlorinated Biphenyls (PCBs) <i>Pete Stayton, J-U-B Engineers</i>	Understanding Revised Federal Ammonia Criteria, Impacts on Treatment Requirements, and Strategies for Implementation in State Rulemaking <i>David Clark, HDR Engineering</i>	What to Do about Privately Owned Water Quality Facilities <i>Tony Gilbertson, Clean Water Services</i>	Combined Heat and Power Performance at the West Point Treatment Plant <i>Susan Hildreth, King County; Ian McKelvey, Brown and Caldwell</i>	Making Sense of Collection System Temperature Data <i>Simon Smith, University of Idaho</i>	Recharging Groundwater with Reclaimed Water: A Valuable Water Rights Mitigation Strategy in Action <i>Jeff Hansen, HDR Engineering; Teri O'Neal, City of Lacey; Donna Buxton, City of Olympia</i>	Alternative Method to Replace Total Kjeldahl Nitrogen Procedure for NPDES Stormwater and Wastewater Nitrogen Reporting <i>Matthew Boyles, City of Tacoma Center for Urban Waters</i>	
3:45 - 4:30	PNCWA Student Design Competition: Nitrification Upgrade for Municipal Water Resource Recovery, Cofax, WA <i>Eric Hughes, Ben Carleton, Sharon Strom and Derek Probst, University of Idaho</i>	US EPA's Updated Ammonia Standards Are Coming: What It May Mean for Your Wastewater Treatment Plant <i>Henryk Melcer, Brown and Caldwell</i>	Applying the 80/20 Rule to Asset Management <i>Robin Krause, Clark Regional Wastewater District</i>	Conversion of WWTP Digester Gas into Compressed Natural Gas Vehicle Fuel <i>Robert Bowers, Cornerstone Environmental Group</i>	How to Spend \$100,000,000 - City of Bend Collection System Planning <i>David Stangel, Murray, Smith & Associates; Tom Hickmann, City of Bend</i>	Interactive, Graphical Model Simplifies Prioritization of Recycled Water Projects <i>Steve Kebbe, Clean Water Services; Bob Eimstad, Carollo Engineers</i>	Clean Hands/Dirty Hands Sampling Technique for Trace Metals Sampling of Wastewater Effluents and Receiving Waters <i>Kathryn Harris, City of Boise</i>	
4:30 - 5:15	Investigation of Sidestream Polyhydroxyalkanoate (PHA) Production within a Novel Enhanced Biological Phosphorus Removal (EBPR) System Performing Nitrification and Post-Anoxic Denitrification <i>Derek Probst & Erik Coats, University of Idaho</i>	Clarkston WWTP – Evaluation of Treatment Alternatives to Meet Ammonia Limits <i>Larry Rupp, Keller Associates</i>	What Got Us Here Won't Get Them There: Finding and Growing Our Future Leaders <i>Phyllis Brunner, Brown and Caldwell; Michael Fuss, City of Nampa</i>	Start Up and Performance of the Durham AWWTF Brown Grease Receiving and Cogeneration Facilities <i>Lynne Chicoine, CH2M; Randy Naef, Clean Water Services</i>	Energy Savings in Water and Wastewater Transmission Systems Through the Use of Appropriate Air Valves <i>Kim Sorensen, ARI USA</i>	Permitting the Obvious? A Recycled Water Success Story in Hermiston, Oregon <i>Mark Cullington, Kennedy/Jenks Consultants</i>	Underused Laboratory Methods <i>Ted Holt, Hach</i>	
5:00 - 7:00	Exhibitors Reception—Exhibit Hall							
7:00 - 8:00	Monday Night Dinner							
8:00 - 11:30	Networking Night (hosted by PNCWA Young Professionals - offsite)							

West Boise WRRF Tour, 1:15 - 3:45

Tuesday Morning - October 27									
7:00 - 5:30	Registration								
7:00 - 8:00	Operators Breakfast								
	Session 8 Nutrient Removal	Session 9 Planning / Management	Session 10 Energy Efficiency	Session 11 Stormwater / Wet Weather Treatment	Session 12 Treatment Process	Session 13 Sustainability / Integrated Watershed Management	Session 14 Collection Systems	EXHIBIT HALL Section Exchange 8:00 - 9:30	
8:00 - 8:45	Demonstration for Selecting Instrumentation for Monitoring and Control of Biological Nutrient Removal Process at the Budd Inlet Treatment Plant <i>Ali Polda, Brown and Caldwell</i>	Benefits of Turning Big, Expensive Infrastructure Decisions Over to Citizens <i>Tom Hickmann, City of Bend; Sharon Smith, Bryant Lovlien & Jarvis</i>	No Small Potatoes! Saving Energy in Idaho Wastewater Facilities <i>Layne McWilliams, Cascade Energy; Chellie Jensen, Idaho Power</i>	Piloting Real Time Control Retrofits of Stormwater Facilities: Two Oregon Case Studies <i>Richard Boyle, Clean Water Services</i>	Optimization of High Rate Clarification <i>Peter Schauer, Clean Water Services</i>	Identifying Needs for Integrated Water Management <i>Lynn Williams, Brown and Caldwell</i>	Expanded Rehabilitation Program (ExRP) – Pipe Rehabilitation Technology Selection Guidelines <i>Joshua Simpson, HDR Engineering; Maria Stevens, Seattle Public Utilities</i>		
8:45 - 9:30	Instrumentation and Control for Improved Biological Phosphorus Removal Stability <i>Adrienne Menniti, Clean Water Services</i>	Idaho, Oregon, Washington WARN Overview (Water/Wastewater Agency Response Network) <i>Shelley Roberts, Idaho Rural Water and ID WARN</i>	Taking the Mystery Out of Power Factor <i>Joe Evans, PumpTech</i>	"Honey, I put a stormwater facility in the front yard": Efforts and Strategies to Encourage and Incentivize Stormwater Treatment on Private Property and in the Public-Right-of-Way <i>Jo Sullivan, King County</i>	Sand Filtration for Algae Removal - A Unique Case Study <i>Skyler Allen, Keller Associates</i>	Integrated Watershed Management for Effluent Treatment in a Small Watershed <i>Mark Madison, CH2M; Ron Thames, RUSA</i>	In House Asset Management for Oak Lodge Sanitary District's Collection System <i>Rich Ludlow, Oak Lodge Sanitary District</i>		
9:30 - 10:30	Break - Exhibit Hall								
10:30 - 11:15	Activated Primary Fermentation for Enhanced Biological Phosphorus Removal (EBPR): Design and Operation <i>Eric Hughes, University of Idaho</i>	Let's Get There Fast! Multiparty Management of Construction Schedule – West Boise Phosphorus Removal Project <i>Gregg Thompson, CH2M; Bill Benko, City of Boise; Zeka Johnson, RSCI Group</i>	Gresham's Energy Net-Zero Journey <i>Jeff McCormick, Carollo Engineers; Jeff Maag, City of Gresham</i>	First Flush: Optimizing Wastewater Assets for Urban Stormwater Pollution Management <i>Jeffrey Schmidt, MWH</i>	Using CFD and Cost/Benefit Analysis for Selection of Improvements to Secondary Clarifiers at the Rock Creek AWWTF <i>Rick Kelly, Brown and Caldwell; Peter Schauer, Clean Water Services</i>	Is Development and Watershed Restoration Compatible? <i>Ken Nilsen, PACE Engineers</i>	Renton CCTV Inspection Improvements, Useful for More than the Morning Announcements <i>Shengkun Yang, Carollo Engineers</i>		
11:15 - 12:00	The Dixie Drain Phosphorus Removal Facility Pilot: Design, Implementation, and Conclusions <i>Don Bloomquist, Brown and Caldwell</i>	Making Your Work Management System Work for You: The City of Bend Water Reclamation Facility Expansion Story <i>Kurt Vause, StreamlineAM; Scott Thompson, City of Bend</i>	Best Practices – An Alternative to Benchmarking that Encourages Collaboration for Improved Wastewater Treatment and Energy Sustainability <i>Allen de Steiguer, Jacobs</i>	Performance of a Wet Weather Step Feed Process Using SRT Control <i>Lynne Chicoine, CH2M</i>	Case Histories of Innovations in Secondary Treatment – Weighing Out Risk vs Opportunity <i>John Harrison, R.M. Towill</i>	Derry Dell Creek Improvement Project <i>Jadene Stensland, Clean Water Services; Erik Schultz, ESA</i>	Wastewater Conveyance – New Force Main Replacing an Old Siphon, Similar Design Challenges <i>John Crippen, CDM Smith</i>		
12:00 - 1:15	PNCWA Annual Business Luncheon								

Preconference Workshops, Sunday Oct. 25

Taking Activated Sludge Operations to the Next and Necessary Level

Sunday October 25 10:00 am – 5:00 pm

Speaker:

Eric Wahlberg, WasteWater Technology Trainers

Technically Based Local Limits— Development, Special Problems, and Long Term Planning

Sunday October 25 10:00 am – 5:00 pm

Speaker:

Wayne W. Heinemann, CH2M

Find the Leader within You

Sunday October 25 10:00 am – 5:00 pm

Facilitators: Mark Poling and Jadene Stensland, Clean Water Services; Tom Hastings, Veolia

Speakers:

Doug Berschauer, Past PNCWA President, CH2M Project Manager

Jim Clark, Senior Vice President, Black & Veatch, Past President of WEF

Nicki Pozos, Oregon Water Marketing Manager, HDR Engineering

Cheaper, Smarter, Cleaner—

Integrated Watershed Management and Sustainability Practice

Sunday October 25 10:00 am – 5:00 pm

Moderator:

Cyndy Bratz, Bratz Environmental Engineering

Speakers:

Bob Baumgartner, Clean Water Services

Marti Bridges, Idaho DEQ, State Office

Kevin Buckley, Seattle Public Utilities

Steve Burgos, City of Boise

Bobby Cochran, Willamette Partnership

Alex Johnson, The Freshwater Trust

Layne McWilliams, Cascade Energy, Inc.

Todd Miller, Eugene/Springfield MWM

Mark Poling, Clean Water Services

Jennifer Price, CH2M

Chris Randolph, Idaho Power

Darrin Sharp, OSU

Mike Taylor, City of Spokane

Ron Thames, RUSA



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Tuesday Afternoon - October 27							
12:00 - 1:15	PNCWA Annual Business Luncheon						
	Session 15 Operations	Session 16 Public Involvement / Management	Session 17 Resource Recovery	Session 18 Water Reuse	Session 19 Treatment Process	Session 20 Sustainability / Integrated Watershed Management	Session 21 Collection Systems
1:15 - 2:00	Applying Quantitative Polymerase Chain Reaction (qPCR) to Characterize Your MLSS and Enhance Your Process Knowledge <i>Erik Coats, University of Idaho</i>	Public Education and Outreach: Thinking Outside the Box <i>Cheryl Jenkins, City of Nampa</i>	Profitable Recovery of Ammonia from Anaerobic Digestate <i>Dennis Burke, Environmental Energy & Engineering Co.</i>	Aquifer Injection of High Quality Reclaimed Water: A CEC Case Study <i>Brad Jeppson, Carollo Engineers</i>	Lessons Learned: 35 Years Optimizing a Coupled Treatment Process <i>Dan Hanthorn, ZAPS</i>	PNCWA Climate Change Position Paper <i>Cyndy Bratz, Bratz Environmental, John Phillips, King County</i>	Identifying and Addressing Various Types of Odor Issues Along a 20 Mile-Long Interceptor in Phoenix, Arizona <i>Mark Smith, Brown and Caldwell</i>
2:00 - 2:45	Smart Biomass Control Saves Energy While Maintaining Treatment Objectives <i>Bulbul Ahmed, XYLEM</i>	Juggling Fire While the Audience Heckles: Communicating Asset Management for Grey, Green, and Blue Infrastructure <i>Jennifer Belknap Williamson, City of Portland</i>	Industry Update for WASSTRIP on WRRF Nutrient Flows, Digestion and Dewatering of Bio-P Sludge <i>Nathan Turner, Ostara Nutrient Recovery Technologies</i>	Water Reuse through the Quincy Integrated Utility Management <i>Jonathan Turk, Brown and Caldwell</i>	Magnetite Ballast Technologies: A Review of Challenges, Design and Performance <i>Nathan Antonneau, Evoqua Water Technologies</i>	Sustainability at Coca Cola <i>Paul Bowen, The Coca-Cola Company</i>	Pump Station Evaluations Using EPASWMM <i>Shad Roundy, Murray, Smith & Associates</i>
2:45 - 3:00							
3:00 - 3:45	How to Maximize the Value of Polymers for Improved Sludge Dewatering <i>Yong Kim, UGSI Chemical Feed</i>	Leading People and Managing Assets for a Sustainable Future <i>James Courchaine, Tata and Howard</i>	Resource Recovery at Central Kitsap Treatment Plant <i>Eron Jacobson, Brown and Caldwell</i>	Auger Falls Heritage Park...A City Legacy in the Making <i>Mark Holtzen, J-U-B Engineers</i>	BPR and BNR – Enhancing High Performance with Flow Equalization <i>Michael Conn, J-U-B Engineers</i>	Climate-Driven Drought Outlooks in the Pacific Northwest and Water Resources Management: Challenges and Opportunities <i>Dr. Jay Ryu, University of Idaho</i>	Vibration – A Pump's Worst Enemy <i>John Koch, HDR Engineering</i>
3:45 - 4:30	Using Bench-Scale Dewatering Testing to Identify Causes of Excessive Polymer Consumption <i>Pat Roe, HDR Engineering; Larry Ekstrom, Pierce County</i>	3rd Party Lawsuits, EPA Enforcement, and Other Things That Go "Bummer" in the Night <i>Steve James, J-U-B Engineers</i>	Generating Class A Struvite at the West Boise WWTP <i>Jordi Figueras, Pharmer Engineering</i>	UV Facility Audits of Reuse Applications <i>Traci Brooks, Carollo Engineers</i>	Design and Start-up of a Unified Fermentation and Thickening (UFAT) Process <i>Christopher Maher, Clean Water Services</i>	Collective Impact in Washington County, Oregon – An Integrated Watershed Management Approach <i>Carol Murdock, Clean Water Services</i>	Fast and Furious Design and Construction of the South Magnolia CSO Storage Tank <i>Kevin Dour, Tetra Tech; Shahzad Namini, King County</i>
4:30 - 5:15	Flushables: the New "F" Word <i>Jeff Coyne, MWH</i>	Designing a Comprehensive Asset Management Plan: Lessons learned, resources, and recommendations from the first year <i>Michael Comeskey, City of Boise</i>	From Wasted to Wanted: Maximizing Waste Carbon Resource Recovery for Bioplastic Production <i>Ben Carleton, University of Idaho</i>	IP IPA: Starting a Conversation about Water One Pint at a Time <i>Sheri Wantland, Clean Water Services</i>	Mitigation of a Large Decrease in BOD to Enhanced Biological Phosphorus Removal Wastewater Treatment Process <i>Craig Anderson, Murray, Smith & Associates</i>	Integrating Sustainability into Decision Making for the City of Grants Pass <i>Bhargavi Maremanda, Carollo Engineers</i>	Consequence of Failure Scenarios and Costs for Large Diameter Pipelines in the Validation and the Alternative Analysis of Structural Rehabilitation Options <i>Tammy Cleys, City of Portland</i>
5:15 - 7:00	Exhibit Hall Closing Reception						
7:00 - 9:00	PNCWA Awards Banquet						

EXHIBIT HALL
Meridian WRRF Tour, 1:15 - 3:45

Schedule Highlights

Sunday: 4 Preconference Workshops, Operations Challenge Day 1, Meet and Greet
Monday: Opening Session, Tech Sessions, Operations Challenge Day 2, Plant Tour, Exhibit Floor Opening Reception
Tuesday: Operators Breakfast, Section Exchange, Exhibit Hall, Tech Sessions, Plant Tour, Micro-Brew Tasting, Awards Banquet
Wednesday: Plant Tour, Tech Sessions

Deadlines:

Conference registration early bird rates through Sept. 12
 Preregistration ends Oct. 15

Monday Night Social – Open to All!

The Young Professionals group would like to invite all conference attendees to this event hosted at Beside Bardenay starting at 8:00 pm!

Facility Tours – no preregistration required

West Boise Water Resource Recovery Facility
 Mon. Oct. 26 1:15 pm–3:45 pm
Meridian Water Resource Recovery Facility
 Tues. Oct. 27 1:15 pm–3:45 pm
Lander Street Water Resource Recovery Facility
 Wed. Oct. 28 8:00 am–10:30 am

Earn up to 2.3 to 2.4 CEUs (requested) for Sun. through Wed.

Wednesday Morning, October 28									
7:00 - 1:00	Registration								
	Session 22 Nutrient Removal	Session 23A Project Delivery / Construction	Session 24 Stormwater	Session 25 Disinfection	Session 26 Planning	Session 27 Plant Optimization / Treatment	Session 28 Solids and Residuals		
8:00 - 8:45	New Hypertrophic Biological Treatment Technology Provides Single-Stage BOD and Nutrient Removal and Recovery for High-Strength Waste Streams <i>Jon Liberzon, Algal Scientific Corporation; David Keil, SPF Water</i>	Technology Driven Design-Build Teams: What Is the Engineer's Role? <i>Terry Stulc, Trindera Engineering</i>	Landscape Architecture Plays an Important Role in Development of Successful Stormwater Design <i>Scott Radford, MWH Constructors</i>	Retrofitting Next Generation Ultraviolet Light Technology for the City of Grants Pass Water Restoration Plant <i>Gary Brelinski, City of Grants Pass; Bhargavi Maremanda, Carollo Engineers</i>	Improving Team Performance Using Innovative Project Delivery Approaches – When It's Okay for Public Works Professionals to Scrum <i>Mark Liebe, City of Portland</i>	Gasification a Path to Energy Neutrality for Wastewater Treatment <i>Jeff Snyder, PHG Energy</i>	Feasibility and Economics of Producing High Value Bioplastic from Methane Gas – Another Resource That Can Be Recovered from Wastewater <i>Megan Plumlee, Kennedy/Jenks Consultants</i>	City of Boise's Lander Street WRRF Tour: 8:00 - 10:30	
8:45 - 9:30	Incorporating Next Level of Treatment (NLT) in Spokane's Integrated Clean Water Plan <i>Mark Esvelt, Esvelt Engineering; Lars Hendron, City of Spokane</i>	Public Agency Contractor Prequalification, does it work? <i>Ken Windram, Hayden Area Regional Sewer Board</i>	Solids Management at Georgetown Wet Weather Treatment Station <i>Miaomiao Zhang, CH2M; Pat Burke, King County</i>	Non-Contact UV Disinfection; an Introduction and Comparison to Conventional Quartz Based Contact UV Systems <i>Alexander Reynolds, Enagua; Skyler Allen, Keller Associates</i>	Design-Build Approach Saves Time and Minimizes Public Disruption for Trenchless Sewer Rehab in Vancouver, BC <i>Daniel Buonadonna, CH2M</i>	Advanced Corrosion Monitoring Tools <i>Dan Ayers, J-U-B Engineers</i>	Sludge Treatment Optimization and Phosphorus Removal by MAP-Crystallization for Biological P-removal Plants <i>Gerhard Forstner, CNP - Technology Water and Biosolids Corp</i>		
9:30 - 10:15	Using Microbial Carbon Storage Polymers to Drive Post-Anoxic Denitrification in an EBPR Process <i>Jason Mellin, University of Idaho</i>	American Iron and Steel Requirements for SRF Funded Projects <i>David Dunn, WA ECY; Angela Parker, OR DEQ; Tim Wendland, ID DEQ</i>	International Stormwater BMP Database: Updated Findings and Use for Watershed and Integrated Planning and Pollutant Trading <i>Eric Strecker, GeoSyntec Consultants</i>	Ultraviolet Disinfection for Water Reclamation: Upgrade and Expansion for Better Reliability and Reduced Maintenance at Lahaina, County of Maui, Hawaii <i>David Murray, Brown and Caldwell</i>	City of The Dalles Progressive Design Build Delivery of WWTP Improvements <i>Tom Paul, Mortenson Construction; Preston Van Meter, Kennedy/Jenks Consultants</i>	Using Hydraulic Modeling to Identify Flow Restrictions and Increase Treatment Plant Hydraulic Capacity <i>Edward Wicklein, Carollo Engineers</i>	The Solution to Soaked Sludge: Solids Thickening in the Pacific Northwest <i>Luke Werner, Kennedy/Jenks Consultants</i>		
10:15 - 10:30	Break								
		Session 23B Water Reuse							
10:30 - 11:15	Pulling Double Duty: Setting up Denitrification in Tertiary Treatment Filters <i>David Kopchynski, Parametrix</i>	Cascadia WWTP – Design for Community Water Reuse <i>Christopher Stoll, Kennedy/Jenks Consultants</i>	Strategic Approaches for Stormwater Management <i>Carrie Pak, Clean Water Services</i>	Use of Peracetic Acid as a Wastewater Disinfectant to Eliminate the Formation of Chlorinated Disinfection By-products and Inhibit the Activity of Endocrine Disrupting Compounds <i>Philip Block, PeroxyChem</i>	SECURE in the Cloud <i>Rick Patton, Advanced Control Systems</i>	Construction, Startup, and Operation of the Integrated Fixed-Film Activated Sludge System at the Twin Falls, WWTP <i>Ana Arango, CH2M</i>	Dewatering Optimization – 25% Cake and 95% Capture, or Lowest Total Cost? <i>Christopher Maher, Clean Water Services</i>		
11:15 - 12:00	Primary Effluent Filtration for Carbon Diversion to Achieve Energy Savings and Increase Plant Capacity <i>Onder Caliskaner, Kennedy/Jenks Consultants</i>	Effluent for the Affluent <i>Robyn Mattison, City of Ketchum; Pat McMahon, Sun Valley Water & Sewer</i>	Seattle Public Utilities Programmatic Approach to Reducing SSOs <i>Jeff Lykken, HDR Engineering; Steven Drangsholt, Seattle Public Utilities</i>	Design, Testing and Operation Considerations for PAA Disinfection Systems <i>Kati Bell, CDM Smith</i>	Business Performance Management for Utilities of the Future: Creating a Robust Framework to Guide Direction and Decision-Making at All Levels of an Organization <i>Elizabeth Lowell, HDR Engineering</i>	Innovative Integrated Fixed-Film Activated Sludge (IFAS) Oxidation Ditch Conversion for Total Nitrogen Control <i>Renzun Zhao, Ertex Technologies</i>	Prediction of Full-Scale Dewatering of Sewage Sludges <i>Phani Pedd, Andritz Separation</i>		

Conference Headquarters Hotel

Grove Hotel (same block as the conference site)

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- Single/Double \$129*
- 100% non-smoking hotel - Free WiFi
- Complimentary shuttle to/from airport
- Daily self-park \$12.00 and valet \$16.00
- Cutoff date for Special Group Rates: Sept. 22

Additional Accommodations

Hampton Inn & Suites Boise/Downtown

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www.boisedowntownsuites.hamptoninn.com

- Single/Double \$139*
- 100% non-smoking hotel - Free WiFi
- Complimentary hot breakfast
- Complimentary shuttle to/from airport
- Daily self-park city garage \$12.00

Hotel 43 (across the street from conference site)

181 Grove Street

208.342.4622

http://www.hotel43.com/

- Single/Double \$139*
- 100% non-smoking hotel - Free WiFi
- Daily self-park \$12.00
- Cutoff date for Special Group Rates: Oct. 1

See www.pncwa.org/lodging for

- lodging details
- group rate names
- links to book online

Conference & Exhibition

October 25-28

Boise Centre

Boise, ID

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