

PNCWA2026: *Rising to the Moment*

Monday, September 14th Agenda

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| Time                                                                                                                | Room 201                                                                                                                                                    | Room 202                                                                                                                              | Room 205                                                                                                                                                                                 | Room 206A                                                                                                                                 | Room 206B                                                                                                                                                                                                                                       | Room 206C                                                                                                                  | Room 206D                                                                                                                                                        | Room 207                                                                                                                                                                                     | Other Events                                                      |                                                                              |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------------------------------|
| 7:00AM - 8:00AM                                                                                                     | Ballroom 111: Breakfast (Open to All Attendees)                                                                                                             |                                                                                                                                       |                                                                                                                                                                                          |                                                                                                                                           |                                                                                                                                                                                                                                                 |                                                                                                                            |                                                                                                                                                                  |                                                                                                                                                                                              |                                                                   |                                                                              |
| 8:30AM - 10:00AM                                                                                                    | Ballroom 111: Opening General Session                                                                                                                       |                                                                                                                                       |                                                                                                                                                                                          |                                                                                                                                           |                                                                                                                                                                                                                                                 |                                                                                                                            |                                                                                                                                                                  |                                                                                                                                                                                              |                                                                   |                                                                              |
| 10:00AM -10:15AM                                                                                                    | BREAK                                                                                                                                                       |                                                                                                                                       |                                                                                                                                                                                          |                                                                                                                                           |                                                                                                                                                                                                                                                 |                                                                                                                            |                                                                                                                                                                  |                                                                                                                                                                                              |                                                                   |                                                                              |
| 10:15AM - 11:15AM                                                                                                   | Wastewater Treatment Fundamentals, Session 1                                                                                                                | Puget Sound Nutrients, Session 1                                                                                                      | Optimization of Municipal Treatment Facility Operations, Session 1                                                                                                                       | Leadership & Development, Session 1                                                                                                       | Climate Adaptation & Resilience, Session 1                                                                                                                                                                                                      | Collection Systems and Distribution, Session 1                                                                             | Water Reuse, Session 1                                                                                                                                           | Municipal Treatment, Session 1                                                                                                                                                               |                                                                   |                                                                              |
|                                                                                                                     | Wastewater Treatment 101<br><i>Hannah Thomascall</i>                                                                                                        | Navigating Nutrient Regulation in Puget Sound<br><i>Eleanor Ott, Shawn McKone</i>                                                     | North Idaho Operator Panel Discussion: UltraLow Tertiary Phosphorus Removal<br><i>Kylie Cutler, Andrew Ruiz, Craig Barrenpohl</i>                                                        | People and Pixels: Leading and Managing in an Increasingly Virtual World<br><i>Dan Speicher</i>                                           | Don't be the frog in the warming waters. Operations and climate change: a primer and a peer sourced set of vulnerabilities and solutions to prepare for a resilient water system today.<br><i>Tracy Lunsford, Beth Miller, Layne McWilliams</i> | Lessons Learned in Condition Assessment of the Inverness Force Main System<br><i>Heather Stephens, Brenda Sherwood</i>     | Quantifying PFAS in Crops and Wetland Vegetation at Land Application Sites<br><i>Kimia Tabib</i>                                                                 | Innovative Temporary Disinfection Strategy Saves Construction Time and Money<br><i>Patricia Tam, Zach Flinkstrom</i>                                                                         |                                                                   |                                                                              |
|                                                                                                                     | MBR Treatment Facilities in Practice: Overview, Applicability, and Procurement<br><i>Kelsey Wagner,</i>                                                     | Nutrient Removal Performance to Inform Technology Based Effluent Limits<br><i>Charles Hammond</i>                                     |                                                                                                                                                                                          | Leading a Multigenerational Workforce Through AI Adoption<br><i>Mizan Rashid, Mark Paling</i>                                             |                                                                                                                                                                                                                                                 | FFRPP Force Main Rehabilitation – The New Standard in Pressure Pipe Lining Sysstems<br><i>Matthew Izzard</i>               | From Regional Discharge to Hillside Reuse: Designing Affordable Wastewater Solutions for Small Communities<br><i>Ashley Williams , Nathan Wright , Jan Groth</i> | Ultraviolet (UV) Disinfection Procurement Selection Process Aiding the Design Development of the 210 mgd Elliot West Wet Weather Treatment Facility<br><i>Michael Borrero, Meghna Prasad</i> |                                                                   |                                                                              |
| 11:20AM - 12:20PM                                                                                                   | Wastewater Treatment Fundamentals, Session 2                                                                                                                | Puget Sound Nutrients, Session 2                                                                                                      | Project Delivery, Session 1                                                                                                                                                              | Leadership & Development, Session 2                                                                                                       | Climate Adaptation & Resilience, Session 2                                                                                                                                                                                                      | Collection Systems and Distribution, Session 2                                                                             | Water Reuse, Session 2                                                                                                                                           | Municipal Treatment, Session 2                                                                                                                                                               | Stormwater Tour<br>10:15 AM - 12:20 PM                            |                                                                              |
|                                                                                                                     | Fundamental Concepts in Biological Nutrient Removal<br><i>Christine HengellProm</i>                                                                         | Connecting Nutrient Management to Oxygen Available for Puget Sound Organisms<br><i>Stefano Mazzilli, Marielle Kanojia</i>             | Market Pulse: How to Use Market Soundings to Improve Collaborative Delivery Procurement<br><i>Shelby Hodge, Laura Nolan</i>                                                              | First Time Supervisor? Don't Just Survive, Thrive!<br><i>Mark Paling, Jason Flowers</i>                                                   | From Risk toward Resilience: Climate Adaptation for King County's WW Infrastructure<br><i>Jennifer Belknap</i>                                                                                                                                  | CIPP Lining the Unlineable<br><i>Bob Jacobsen</i>                                                                          | Upgrading Clean Water Services' Temperature Compliance Strategy – A Holistic, Watershed and ValueBased Approach<br><i>Scott Mansell , Lauren Roof</i>            | HighRate Clarification for Wet Weather Resilience: Actiflo BenchScale Study<br><i>Brent Robinson, Karstin Jacobson</i>                                                                       |                                                                   |                                                                              |
|                                                                                                                     | 50 years of tertiary treatment. Leveraging tertiary filtration experiences of the past when designing for the future.<br><i>Danny Murphy</i>                | An Evolving Regulatory Tide: Nutrient Compliance Changes for Puget Sound<br><i>Amanda McInnis, Natalie Monro</i>                      | Avoid Common CM/GC Pitfalls: Pursuing a WinWin without Giving Away the Farm<br><i>Michelle Green</i>                                                                                     |                                                                                                                                           | Climate Resilience in Action: Practical Frameworks from CoasttoCoast<br><i>Maithelle Das Loppin</i>                                                                                                                                             |                                                                                                                            | UltraViolet CuredinPlacePipe Lining of Center Street Trunk, a Large Diameter Eggshaped Brick Sewer in the Downtown area<br><i>Zach Swartzendruber,</i>           | CFD Modeling Supports the 210 mgd Elliot West Wet Weather Treatment Facility Hydraulic Design<br><i>Ed Wicklein</i>                                                                          |                                                                   |                                                                              |
| 12:25PM - 1:25PM                                                                                                    | Ballroom 111: Awards Luncheon (Ticket Required)                                                                                                             |                                                                                                                                       |                                                                                                                                                                                          |                                                                                                                                           |                                                                                                                                                                                                                                                 |                                                                                                                            |                                                                                                                                                                  |                                                                                                                                                                                              |                                                                   |                                                                              |
| 1:30PM - 2:30PM                                                                                                     | WAVE PRESENTATIONS                                                                                                                                          | Puget Sound Nutrients, Session 3                                                                                                      | Optimization of Municipal Treatment Facility Operations, Session 2                                                                                                                       | Utility and Asset Management, Session 1                                                                                                   | Emerging Contaminants, Session 1                                                                                                                                                                                                                | Collection Systems and Distribution, Session 3                                                                             | Biosolids, Session 1                                                                                                                                             | Municipal Treatment, Session 3                                                                                                                                                               |                                                                   |                                                                              |
|                                                                                                                     |                                                                                                                                                             | Tracking Puget Sound Nutrient Loading Trends and Water Quality Response<br><i>David Clark, Joel Baker, Stefano Mazzilli</i>           | Breaking the Cycle of Scaling: A Fresh Approach at Tri-City WRRF<br><i>Josh Miner, Shubhashini Oza</i>                                                                                   | Rising to the Moment Through Practical Shut Down Planning for Operational Facilities<br><i>Nicole Ream, Hana Kim , Christina Vanburen</i> | Avian Influenza A(H5) Surface Water Detection with eDNA Mobile Filtration<br><i>Bella Beha</i>                                                                                                                                                  | Finding the Path: When to Choose GC/CM or PDB for Lean Conveyance<br><i>Patrick Weber</i>                                  | Biosolids Planning for Community Growth Under Uncertainty: A RoadmapBased Approach<br><i>Quinn Behnke, Bill Owen</i>                                             | Implementation of a Major Wastewater Plant Expansion through the use of Progressive Design Build<br><i>Rick Kelly, Kelly Comstock</i>                                                        |                                                                   |                                                                              |
|                                                                                                                     |                                                                                                                                                             |                                                                                                                                       | Durham WRRF Tertiary Filter Performance Optimizations<br><i>Jana Otero, Matthew Christensen, Alex Crozas</i>                                                                             | Risk, Reward and Reality – Structuring Your Project So That Contractors Want to Hard Bid<br><i>Chris Boersten</i>                         | Genomic techniques informing harmful algal bloom (HAB) management strategies<br><i>Rachel Galda</i>                                                                                                                                             | Lessons from Supporting 10+ Miles of Large-Diameter Pipeline Construction<br><i>Jennifer Kersh, David Kelly</i>            | Policy Shifts & Technology Transitions: Scaling Biosolids Thermal Drying for LongTerm Resilience<br><i>Jeremy Koch</i>                                           | City of Lynden WWTP Biological Nutrient Removal Upgrade: Phased Conversion of Oxidation Ditches to MLE Within a FloodwayConstrained Site<br><i>Bitu Nasayob</i>                              |                                                                   |                                                                              |
| 2:30PM - 2:45PM                                                                                                     | BREAK                                                                                                                                                       |                                                                                                                                       |                                                                                                                                                                                          |                                                                                                                                           |                                                                                                                                                                                                                                                 |                                                                                                                            |                                                                                                                                                                  |                                                                                                                                                                                              |                                                                   | Spokane County Regional Water Reclamation Facility Tour<br>1:30 PM - 3:45 PM |
| 2:45PM - 3:45PM                                                                                                     | Project Delivery 101, Session 1                                                                                                                             | Puget Sound Nutrients, Session 4                                                                                                      | Optimization of Municipal Treatment Facility Operations, Session 3                                                                                                                       | Utility and Asset Management, Session 2                                                                                                   | Emerging Contaminants, Session 2                                                                                                                                                                                                                | Collection Systems and Distribution, Session 4                                                                             | Biosolids, Session 2                                                                                                                                             | Municipal Treatment, Session 4                                                                                                                                                               |                                                                   |                                                                              |
|                                                                                                                     | Critical Early Planning for Program Delivery: Keys to LongTerm Success<br><i>Petra Liskova, Anna James</i>                                                  | Evolving Puget Sound Nutrient Database to Support Broader Nutrient Program<br><i>Amanda McInnis</i>                                   | Sweating the Assets Low Build Intensification for Total Inorganic Nitrogen Removal with the Mobile Organic Biofilm™ (MOB) Process Installation in Reno, Nevada<br><i>Savanna Haygood</i> | Digital Dreams Meet Operational Reality: Curing the Shiny Object Syndrome<br><i>Scott Bash</i>                                            | 'Background' PFAS occurrence in groundwater and soil: influence of land use and urbanization<br><i>Rachel Galda, Ryan Dougherty</i>                                                                                                             | Pipe Ramming for the Frogs<br><i>Brendan O'Sullivan , Brandon Falk</i>                                                     | A Solid Approach to Pasco's Growing City<br><i>Will Kirby</i>                                                                                                    | State Point in Practice: Validating Assumptions and Making Daytoday Operational Decisions<br><i>Ornela Sasa-Hernandez, Erik Lornntson</i>                                                    |                                                                   |                                                                              |
| 3:50PM - 4:50PM                                                                                                     | Rising to the Moment Through Interface Management in Complex Capital Programs<br><i>Nicole Ream, Gabe Salmer</i>                                            | Post Point's Nutrient Reduction Evaluation Findings<br><i>Anne Conklin</i>                                                            | Aeration System Evaluation at Pocatello WPCF: Diffuser Replacement Restores Capacity and Avoids Near Term Blower Upgrade<br><i>Katerina Messologitis, Skyler Allen</i>                   | AI and Machine Learning in the Water Industry: Diffuser Replacement Restores Capacity and Avoids Asset Management<br><i>Nandita Ahuja</i> | Beyond Nutrients: PilotScale Removal of Phosphorus, Toxicity, Metals, and PFAS<br><i>Nick Guho</i>                                                                                                                                              | Strategic Selection of Sewer Installation and Rehabilitation Methods on a Complex Utility Project<br><i>Jacob Korsness</i> | Grease, Gas, and the Bottom Line: Twelve Years of FOG Facility Operations at the Durham WRRF<br><i>Kevin Wegener, Dan Garbely</i>                                | Improving CSO Metals Removal: Bench Scale Results and Treatment Pathways<br><i>Natalie Gustafson, Shannon Cavanaugh, John Carter</i>                                                         | Women of Water Networking Event<br>3:50 PM - 5:30 PM<br>Roof Deck |                                                                              |
|                                                                                                                     | Watershed 101, Session 1                                                                                                                                    | Puget Sound Nutrients, Session 5                                                                                                      | Optimization of Municipal Treatment Facility Operations, Session 4                                                                                                                       | Utility and Asset Management, Session 3                                                                                                   | Emerging Contaminants, Session 3                                                                                                                                                                                                                | Collection Systems and Distribution, Session 5                                                                             | Biosolids, Session 3                                                                                                                                             | Municipal Treatment, Session 5                                                                                                                                                               |                                                                   |                                                                              |
|                                                                                                                     | Benefits of Stream Restoration and Habitat Enhancement to Improve Watershed Health, Drought Resilience, and Inform BasinWide Planning<br><i>Paul Beskow</i> | Balancing Uncertainty and Compliance King County's Nutrient Reduction Evaluation<br><i>Ian McKelvey, Anne Conklin, Ali Saperstein</i> | Leveraging MABR Intensification Technology to Remove Nitrogen within Existing Tankage<br><i>Michael Falk</i>                                                                             | An Improved RFP/RFQ Process for Everyone's Benefit<br><i>Brian Murphy, Frank Dick</i>                                                     | DeRisking PFAS Compliance with RSSCTs and Machine Learning<br><i>Joe Downey, Raj Chavan</i>                                                                                                                                                     | From Aging to Amazing: Pump Station Retrofit Wins and the Moments That Made Us Smarter<br><i>Adam Crafts</i>               | Reducing Risk and Improving Performance in Thermal Hydrolysis Systems<br><i>Tom Nangle</i>                                                                       | Wastewater Surveillance Reveals Geographic and Sociodemographic Patterns of Antimicrobial Resistance<br><i>Matthew Latham</i>                                                                |                                                                   |                                                                              |
| Water Quality Trading 101: Watershedbased Clean Water Act Compliance Strategies<br><i>Chris Thomas, Jessica Fox</i> | Optimizing SBR Aeration Through DataDriven Modeling<br><i>Ryan Sanford , Christophe Boisvert</i>                                                            |                                                                                                                                       | From Data to Decision: PFAS Treatment Strategies for Landfill Leachate<br><i>Robert Reboadas</i>                                                                                         | Taking the Stink Out of Wet Well Maintenance<br><i>Sam Taaffe</i>                                                                         | When Everything Changed Overnight: The Story of Lahaina WWTF Resilience<br><i>William Leaf</i>                                                                                                                                                  |                                                                                                                            |                                                                                                                                                                  |                                                                                                                                                                                              |                                                                   |                                                                              |
| 5:00PM - 7:15PM                                                                                                     | Exhibit Hall 100: Exhibit Hall Opening Reception                                                                                                            |                                                                                                                                       |                                                                                                                                                                                          |                                                                                                                                           |                                                                                                                                                                                                                                                 |                                                                                                                            |                                                                                                                                                                  |                                                                                                                                                                                              |                                                                   |                                                                              |
| 7:15PM - 8:30PM                                                                                                     | Film Showing in Conference Theater: <i>Unless Something Goes Terribly Wrong</i>                                                                             |                                                                                                                                       |                                                                                                                                                                                          |                                                                                                                                           |                                                                                                                                                                                                                                                 |                                                                                                                            |                                                                                                                                                                  |                                                                                                                                                                                              |                                                                   |                                                                              |

## PNCWA2026: *Rising to the Moment*

## Tuesday, September 15th Agenda

| Time              | Room 201                                                                                                                                               | Room 202                                                                                                                                   | Room 205                                                                                                                               | Room 206A                                                                                                                                          | Room 206B                                                                                                                                  | Room 206C                                                                                                                                                | Room 206D                                                                                                                                                                      | Room 207                                                                                                                                                                                             | Other Events                                                               |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 7:00AM - 8:00AM   | Ballroom 111C: Operator's Breakfast   Ballroom 111AB: Breakfast (Open to All Attendees)                                                                |                                                                                                                                            |                                                                                                                                        |                                                                                                                                                    |                                                                                                                                            |                                                                                                                                                          |                                                                                                                                                                                |                                                                                                                                                                                                      |                                                                            |
| 8:00AM - 9:00AM   | Conveyance 101, Session 1                                                                                                                              | Water Reuse, Session 3                                                                                                                     | Digital Solutions and Automation, Session 1                                                                                            | Public Communications and Outreach, Session 1                                                                                                      | Storm, Surface Water, and Watershed Management, Session 1                                                                                  | Collection Systems and Distribution, Session 6                                                                                                           | Municipal Treatment, Session 6                                                                                                                                                 | Biosolids, Session 4                                                                                                                                                                                 |                                                                            |
|                   | Lift Station Design 101<br>Curtis Butterfield, Julia Reese                                                                                             | Advancing Water Reuse Through Regulatory Reform: A PNW Perspective<br>Amelia Luna, Erin Mackey, JJ Fenton                                  | Build, Buy or Hybrid: Pathways to Continuous Water Quality Monitoring<br>Jason Cook                                                    | Going Together to Go Farther: Regional Collaboration for Better Outcomes<br>Elizabeth Lowell, Manon Fisher                                         | From Limits to Markets: Assessing the Feasibility of a San Francisco Bay Nutrient Water Quality Trading Program<br>Chris Thomas, Mike Falk | Technologies for Climate Resiliency in Sewer System<br>Ann Quenzer                                                                                       | Around the World in 40 Minutes: Global Lessons for Meeting Stricter Nitrogen Limits<br>Matt Noesen, Paul Steele                                                                | Designing for Flexibility: PilotScale Digestion for LongTerm Solids Planning<br>Tyler Barber                                                                                                         |                                                                            |
|                   | Digging into NoDig: Intro to Trenchless Technologies<br>Ross Varin                                                                                     |                                                                                                                                            | Flowing Together: Spokane Turns RealTime Data into Action to Advance Stormwater Treatment and Protect the Spokane River<br>Adam Rhodes |                                                                                                                                                    | Wastewater Treatment for Watershed Protection: Understanding the Three Basin Rule<br>Peter Olsen, Pam Villarreal                           | Optimizing the Benefits of I/I Reduction: Oregon City's Approach to Private Side Laterals<br>Dave Brokaw                                                 |                                                                                                                                                                                | The Same...But Completely Different: Thermophilic Anaerobic Digestion Overhaul(s) in the Pacific Northwest<br>Matthew Williams                                                                       |                                                                            |
| 9:00AM - 9:30AM   | BREAK: Exhibitor Hall                                                                                                                                  |                                                                                                                                            |                                                                                                                                        |                                                                                                                                                    |                                                                                                                                            |                                                                                                                                                          |                                                                                                                                                                                |                                                                                                                                                                                                      |                                                                            |
| 9:30AM - 10:30AM  | Project Delivery 101, Session 2                                                                                                                        | Water Reuse, Session 4                                                                                                                     | Project Delivery, Session 2                                                                                                            | Public Communications and Outreach, Session 2                                                                                                      | Storm, Surface Water, and Watershed Management, Session 2                                                                                  | Collection Systems and Distribution, Session 7                                                                                                           | Municipal Treatment, Session 7                                                                                                                                                 | Biosolids, Session 5                                                                                                                                                                                 | Upriver Dam Tour<br>9:00 AM - 11:40 AM                                     |
|                   | Delivering Differently Making Sense of Collaborative Delivery Options<br>Michelle Green, Kristen Jackson                                               | The Role of Water Reuse in One Water Planning<br>McKay Breuner                                                                             | From Cost to Impact: Reframing Water Investments for Value<br>Luke Pinto                                                               | Building the Dream Team: Crafting Stories for Project Partnerships and Funding<br>Kelly Black, Erin Cox                                            | Beyond Opportunistic Retrofits: A Strategic Framework for WatershedScale Nature Based Solutions<br>Nikki Redden , John Phillips            | Rising to Coastal Risk – Relocating the 55th Street Pump Station<br>Travis Meyette, Shawn Spargo                                                         | Navigating Complex Biological Nutrient Removal Process Selection Decisions in an Uncertain Regulatory Climate<br>Kathryn Gies, Johnny Leavy                                    | Digestion Without Indigestion: Adaptive Planning for Biosolids Resiliency and Risk Management in the face of Uncertainty<br>Jen Murphy, Heather McKenna                                              |                                                                            |
|                   |                                                                                                                                                        | Source Water Characterization and Pilot Planning for Advancing Potable Reuse in the Pacific Northwest<br>Victoria Nystrom , Stephen Taylor | From Episodic VE to Continuous Value Management: Lessons from Seattle's Mouth of Duwamish CSO Program<br>Tyler Brentan , Greg Brink    | Working Upstream: Advancing EquityInformed Actions in Wastewater Capital Projects<br>Anika Tabachnick, Keanna Dandridge, Lynsey Burgess            |                                                                                                                                            | Designing for Resilience: Delivering the Fry Creek Pump Station to Protect Aberdeen from Tidal and Storm Driven Flooding<br>Charlie Allaben, David Kuhns | Operating Experience with DAS, ABAC, and Sidestream Nutrient Removal at the Boulder WRRF<br>Nathan Brown                                                                       |                                                                                                                                                                                                      |                                                                            |
| 10:35AM - 11:35AM | Utility Management 101, Session 1                                                                                                                      | Water Reuse, Session 5                                                                                                                     | Project Delivery, Session 3                                                                                                            | Public Communications and Outreach, Session 3                                                                                                      | Storm, Surface Water, and Watershed Management, Session 3                                                                                  | Collection Systems and Distribution, Session 8                                                                                                           | Municipal Treatment, Session 8                                                                                                                                                 | Biosolids, Session 6                                                                                                                                                                                 |                                                                            |
|                   | Stormwater Infrastructure Maintenance Overview<br>Becky Casey                                                                                          | Water Reuse Projects: Where Innovation and Dreams Meets Operational Realities<br>Ken Windram                                               |                                                                                                                                        | Building Trust Around the Tap: Engaging Communities to Address Chronic Groundwater Contamination<br>Isaac Estrada                                  | City of Spokane's Adaptive Management Approach to Facility Planning<br>Amanda McInnis, Lorena Croucher                                     | Microtunneling to Minimize Community and Environmental Impacts<br>Brendan O'Sullivan, Glen Wheeler                                                       | Piloting MABR Nitrogen Removal Under RealWorld Operating Constraints<br>Nikita Kowal, Anne Conklin                                                                             | From Cake to Product: Transforming Class A Biosolids Through Biodyrlying<br>Todd Williams                                                                                                            |                                                                            |
|                   | I/I CostEffectiveness 101: DataDriven Decisions for Wet Weather<br>Brent Robinson                                                                      | Demonstrating the ecological benefit of reuse water for wetland restoration using environmental DNA metabarcoding<br>Hannah Ferguson       | Clear as Primary Effluent – A CMGC Delivery Story in Oregon<br>Rob Peacock , Josh Johnson , William Pense                              | Down the Drain and in your Brain – How to get Wastewater Education to Stick<br>Hannah Thomascall, Elisabeth Murphy                                 | Balancing Water Quality & Cost: Adaptations to Nutrient Regulations in the West<br>Jessica Shepard, Geneva Bernstein, Madelynn Knab        | Emergency Repair and LongTerm Rehabilitation of Goedeck Trunk, RUSA's Primary Wastewater Conveyance Asset<br>Ryan Kershner, Clay Jordan, Rob Lee         | A UK first: The world's largest MABR combined with densification<br>Craig Duval                                                                                                | Beyond Dry: What Happens Next<br>Amy Hanna                                                                                                                                                           |                                                                            |
| 11:40AM - 1:00PM  | Ballroom 111: PNCA Business Luncheon (Ticket Required)                                                                                                 |                                                                                                                                            |                                                                                                                                        |                                                                                                                                                    |                                                                                                                                            |                                                                                                                                                          |                                                                                                                                                                                |                                                                                                                                                                                                      |                                                                            |
| 1:05PM - 2:05PM   | Wastewater Treatment Fundamentals, Session 3                                                                                                           | Water Reuse, Session 6                                                                                                                     | Digital Solutions and Automation, Session 2                                                                                            | Industrial Treatment, Session 1                                                                                                                    | Storm, Surface Water, and Watershed Management, Session 4                                                                                  | Leadership & Development, Session 3                                                                                                                      | Climate Change Adaptation, Greenhouse Gas Emissions, and Sustainability, Session 1                                                                                             | Municipal Treatment, Session 9                                                                                                                                                                       |                                                                            |
|                   | Nutrient Removal 101: From Conventional Activated Sludge to Advanced Technologies for Stringent Compliance<br>Murthy Kasi, Austin Carnes, Ron Gearhart | When It Rains, It Pours: RiskBased Winter Reuse Management in a Groundwater Management Area<br>Laurny Guerissi, Joe Mitzel                 | From GIS to GIS: The Next Evolution of Utility Intelligence<br>Mike Van Doorn, Marty Anderson                                          | Beer For Drinking, Recycled Water for Data Center Cooling A Case Study<br>Ufuk Erdal                                                               | Restoring Historic Drainages & Managing Risk with Regional Stormwater Facilities<br>Thomas Suesser, Katlin Vacca                           | Equitable Workforce Development Models for Large Utilities<br>Margo Iniguez Dawes, Eli Weiss                                                             | Operational Tradeoffs Between Nutrient Removal and N <sub>2</sub> O Emissions in Aerobic Granular Sludge Systems<br>Bao Nguyen Quoc                                            | Intensifying BNR with Low DO and Densified Activated Sludge: Implications and Performance<br>Jose Jimenez                                                                                            |                                                                            |
|                   |                                                                                                                                                        | Butte Montana Leading the Northwest in Wastewater Effluent Reuse<br>Garrett Pollo                                                          | When do Digital Tools Actually Help Operators?<br>Chirmya Gaidhani                                                                     |                                                                                                                                                    | Navigating Turbulence: Underground Stormwater Design in a Constrained Corridor<br>McKailee Beck, Bob Thayne                                |                                                                                                                                                          | Witchy Brew: New Empirical Insights into the Dark Art of Primary Sludge Fermentation<br>Jon Liberson                                                                           | Nanobubble Pretreatment as an Intensification Strategy at the Budd Inlet Treatment Plant<br>Riley Murnane, Paul Jue, Stephen Taylor                                                                  |                                                                            |
| 2:05PM - 2:35PM   | BREAK: Exhibitor Hall                                                                                                                                  |                                                                                                                                            |                                                                                                                                        |                                                                                                                                                    |                                                                                                                                            |                                                                                                                                                          |                                                                                                                                                                                |                                                                                                                                                                                                      |                                                                            |
| 2:35PM - 3:35PM   | Wastewater Treatment Fundamentals, Session 4                                                                                                           | Water Reuse, Session 7                                                                                                                     | Project Delivery, Session 4                                                                                                            | Industrial Treatment, Session 2                                                                                                                    | Storm, Surface Water, and Watershed Management, Session 5                                                                                  | Leadership & Development, Session 4                                                                                                                      | Municipal Treatment, Session 10                                                                                                                                                | Municipal Treatment, Session 11                                                                                                                                                                      | City of Post Falls Water Reclamation Facility<br>Tour<br>1:05 PM - 4:40 PM |
|                   | Centrifuge Processing 101<br>Sean Tierney                                                                                                              | Quantitative Water Quality Risk Assessments<br>Tagher Jones                                                                                | Getting Back on Track: Overcoming Schedule Challenges with Progressive DesignBuild<br>Brad Florentin                                   | Research and Regulation: Proactively and Reactively Investigating Industrial Sources of Nitrification Inhibition<br>Lella Barker, Cierah Aljerness | Shaving the Peaks in Battle Ground: A Case Study in Equalization<br>Travis Tormanen, Travis Meyette                                        | Learning how to juggle: Multidisciplinary project management 101<br>Laura Nolan                                                                          | Integrating Partial Denitrification–Anammox and Biological SelectionDriven Denitrification in a FullScale ContinuousFlow Facility Under Stringent Nitrogen Limits<br>Yewei Sun | The Next Generation of Biological Nutrient Removal: how the results from three Water Research Foundation projects will influence the future of nutrient removal design and operation<br>Leon Downing |                                                                            |
|                   | Biosolids Planning and Stakeholder Engagement: A New Paradigm<br>John Ross, Andria Fortier                                                             | Artificial Intelligence and Machine Learning Can Make Potable Reuse Projects More Resilient than Ever<br>Ufuk Erdal                        | Progressive Design Build Provides Lessons Learned from the Pandemic for Critical Infrastructure<br>Michael Fuss                        | Utility as Connector: Building Regional Resilience Through Industrial Symbiosis<br>Jessica Shaw, Matt Noesen, Mike Hodgson                         | West Point Treatment Plant Steady and Transient Hydraulic Modeling<br>Mahsa Ahmadoor                                                       | High Performing Teams That Deliver: Practical Lessons for Wastewater and Stormwater Projects<br>Keith Ward, Kerri Franklin                               | Intense Intensification Modeling: Improved Sensitivity and Capacity Analyses of Densified Sludge<br>Luke Pinto                                                                 | Beyond Nitrification: SystemWide Considerations Associated with BNR Conversion<br>Majid Neyestani                                                                                                    |                                                                            |
| 3:40PM - 4:40PM   | Wastewater Treatment Fundamentals, Session 5                                                                                                           | Water Reuse, Session 8                                                                                                                     | Project Delivery, Session 5                                                                                                            | Optimization of Municipal Treatment Facility Operations, Session 5                                                                                 | Storm, Surface Water, and Watershed Management, Session 6                                                                                  | Emerging Contaminants, Session 4                                                                                                                         | Municipal Treatment, Session 12                                                                                                                                                | Biosolids, Session 7                                                                                                                                                                                 |                                                                            |
|                   | Biosolids Land Application 101<br>Jori Nelson                                                                                                          | Water Rights and Wateruse<br>Speaker TBD                                                                                                   | From Red Tape to Green Lights! How CM/GC Can Expedite Project Delivery and Bolster Owner Engagement<br>Jordan Parker, Justin Bliclike  | Empowered Operators Deliver Energy Savings<br>Matt Smeraglio                                                                                       | From Submittal to Decision: Strengthening Stormwater and Floodplain Development Review<br>Dan Gorkipy, Kripa Chandran                      | PFAS Mitigation at Water Reclamation Facilities Leveraging Existing Processes<br>Michael Cubas                                                           | Designing Nanobubble Pilots That Deliver: Lessons from Previous Experimental Frameworks<br>Jon Liberson, Stephen Taylor                                                        | Making Digester Gas Work: Renewable Natural Gas Case Study<br>Karen Bill, Adam Behr                                                                                                                  |                                                                            |
|                   | Activated Carbon 101: Fundamentals, Performance, and Practical Applications in Water Treatment<br>Christopher Viscaino                                 | Communications and Wateresuse Case Studies<br>Speaker TBD                                                                                  | OnTime and Under Pressure: Collaborative Upgrades to Nampa's Influent Systems<br>Michael Schulz, Shannon Johnson , Nick Miller         | Crawling Out of the Graveyard: Practical Learnings from Utilities Transitioning from 24/7 Staffing<br>Ryan Sanford                                 | Counter the Scour! How Large Woody Material can be used to Protect Assets and how to Manage Risks<br>Paul Beskow                           | Occurrence and Removal of PFAS in LandfillRelated Matrices<br>Yage Li, Annapoala Panico                                                                  | Is Your Concrete QuietQuitting? Restoring Service Life for Critical Wastewater Facilities<br>Riley Walsh                                                                       | Topic TBD<br>SpeakerTBD                                                                                                                                                                              |                                                                            |
| 4:45PM - 6:45PM   | Exhibit Hall 100: Exhibit Hall Closing Reception                                                                                                       |                                                                                                                                            |                                                                                                                                        |                                                                                                                                                    |                                                                                                                                            |                                                                                                                                                          |                                                                                                                                                                                |                                                                                                                                                                                                      |                                                                            |
| 7:00PM - 10:00PM  | Block Party                                                                                                                                            |                                                                                                                                            |                                                                                                                                        |                                                                                                                                                    |                                                                                                                                            |                                                                                                                                                          |                                                                                                                                                                                |                                                                                                                                                                                                      |                                                                            |

PNCWA2026: Rising to the Moment

Wednesday, September 16th Agenda

| Time              | Room 201                                                                                                                                                                | Room 202                                                                                                                                 | Room 205                                                                                                                                                                                              | Room 206A                                                                                                                                                 | Room 206B                                                                                                                                                                | Room 206C                                                                                                                                      | Room 206D                                                                                                                                                                           | Room 207                                                                                                                                                  | Other Events                                                      |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 7:00AM - 8:00AM   | Ballroom 111: Breakfast (available to all attendees)                                                                                                                    |                                                                                                                                          |                                                                                                                                                                                                       |                                                                                                                                                           |                                                                                                                                                                          |                                                                                                                                                |                                                                                                                                                                                     |                                                                                                                                                           |                                                                   |
| 8:00AM - 9:00AM   | Project Delivery 101 , Session 3                                                                                                                                        | Biosolids, Session 8                                                                                                                     | Project Delivery, Session 6                                                                                                                                                                           | Optimization of Municipal Treatment Facility Operations, Session 6                                                                                        | Storm, Surface Water, and Watershed Management, Session 7                                                                                                                | Municipal Treatment, Session 13                                                                                                                | Collection Systems and Distribution, Session 9                                                                                                                                      | Climate Change Adaptation, Greenhouse Gas Emissions, and Sustainability, Session 2                                                                        | Airway Heights Water Reclamation Plant Tour<br>8:00 AM - 10:30 AM |
|                   | Building Resilient Utilities: Creative Financing for Water and Wastewater<br><i>Stillman Norton , Pam Villarreal</i>                                                    | The Impacts of Heating Biosolids on the Fate of PFAS: Drying, Pyrolysis, and Gasification<br><i>Francesca Ceconi</i>                     | Beyond asbulits: Asset onboarding that works<br><i>Chris Puccio</i>                                                                                                                                   | Novel Aeration Control Delivers Energy Savings and Improved Nutrient Removal<br><i>Sarah Elger</i>                                                        | Modeling Aquifer Storage and Recovery for Thermal Mitigation on the Tualatin River, OR<br><i>Zoe Rodriguez del Rey , Jared Kinnear</i>                                   | Study of a Montana Waterbody The Ashley Creek Use Attainability Analysis (UAA)<br><i>Rickey Schultz, Chad Wiseman</i>                          | Beyond Gravity: Developing a Risk Framework for Pressurized Sewer Infrastructure<br><i>Rob Lee, Vanessa Johnson, Melissa Mae</i>                                                    | GHGs for poop? We've got the scoop! There's new GHG guidance created specifically for the water sector.<br><i>Tracy Lunsford , Stephen Greenslade</i>     |                                                                   |
|                   | Constructability Review 101 – Fundamentals, Benefits, and Practical Examples<br><i>Adam Rector</i>                                                                      | From Pilot to FullScale: Navigating the Integration of Advanced Thermal Technologies for PFAS Removal in Biosolids<br><i>Donald Song</i> | Designing with Intent: Constructability Driven SOE Designs for the Carolina Trunk Sewer Rehabilitation Project<br><i>Conner Bauman</i>                                                                | Modeling The Impacts of Calcium Carbonate Alkalinity Enhancement on Biological Nutrient Removal<br><i>Nick Popolizio, Benjamin Geyman</i>                 | When Water Quality Standards Can't Reasonably Be Attained: Clean Act Water Options and Precedents<br><i>Clifton Bell</i>                                                 |                                                                                                                                                | Beyond Compliance: Elevating Stormwater Management from Permit Tracking to Strategic Asset Stewardship<br><i>Michelle Perdue , Shawn Alire, Beth Schrayshuen</i>                    | A CostEffective Nature Based Approach to Effluent Thermal load Mitigation<br><i>Mike Montazeri, Pete Munoz</i>                                            |                                                                   |
| 9:05AM - 10:05AM  | Modeling 101, Session 1                                                                                                                                                 | Biosolids, Session 9                                                                                                                     | Project Delivery, Session 7                                                                                                                                                                           | Digital Solutions and Automation, Session 3                                                                                                               | Storm, Surface Water, and Watershed Management, Session 8                                                                                                                | Municipal Treatment, Session 14                                                                                                                | Collection Systems and Distribution, Session 10                                                                                                                                     | Climate Change Adaptation, Greenhouse Gas Emissions, and Sustainability, Session 3                                                                        |                                                                   |
|                   | Biological Process Modeling 101 and Beyond<br><i>Katerina Messologitis, Vrunda Patel</i>                                                                                | Unlocking Hidden Solids Capacity Through Holistic, DataDriven Planning and Optimization<br><i>Luke Thompson Pinto, Alli Hornak</i>       | Navigating Friction Between Engineers and Manufacturers<br><i>Tanner Windom, Keith Beckman</i>                                                                                                        | Beyond the Buzzwords: What Digital Technology Can Deliver Today for Water and Wastewater<br><i>Susan Howard</i>                                           | Hydro Logic: Data Driven Decisions for Current and Future Facilities in Floodplains and Floodways<br><i>Dan Gariépy, Kripa Chandran</i>                                  | Origin of a Species: The Evolution of the Modern Day Mechanically Cleaned Bar Screen<br><i>Gary M Lohse, Andrew McGuire</i>                    | Separating Out the Crap: How to Innovate in a Changing Industry<br><i>Sam Taaffe , David Lane</i>                                                                                   | Extension of BEAM tool for assessing PFAS emissions and sustainability metrics in biosolids thermal processes<br><i>Francesca Ceconi</i>                  |                                                                   |
|                   | Introduction to Hydraulic Modeling Applications of Hydraulic Modeling in Water, Stormwater, and Wastewater Infrastructure Design<br><i>Mizan Rashid, Ashraful Islam</i> | Thermal Processes: Fundamentals and Next Steps<br><i>John Ross</i>                                                                       | Topic TBD<br><i>Speaker TBD</i>                                                                                                                                                                       | Reimagining Water Utility Automation: Lessons from the City of Conroe's SoftwareDefined Transformation<br><i>Sielen Namdar, Steve Johns, Aayush Patel</i> | Integrated MicroSorbent Adsorption and Pile Cloth Media Filtration for Advanced Removal of Organic Micropollutants and PFAS in Wastewater Effluents<br><i>John Dyson</i> | DataDriven Headworks Design<br><i>Tim Matheis</i>                                                                                              | How to plan for growth when working with overly optimistic developers<br><i>Brad Mercure, Austin Suing</i>                                                                          | From Deterministic Design to RiskBased Sewer Planning Under Climate Uncertainty<br><i>Amin Mahdipour, Scott Mansell</i>                                   |                                                                   |
| 10:05AM - 10:25AM | BREAK                                                                                                                                                                   |                                                                                                                                          |                                                                                                                                                                                                       |                                                                                                                                                           |                                                                                                                                                                          |                                                                                                                                                |                                                                                                                                                                                     |                                                                                                                                                           |                                                                   |
| 10:25AM - 11:25AM | Wastewater Treatment Fundamentals, Session 6                                                                                                                            | Biosolids, Session 10                                                                                                                    | Project Delivery, Session 8                                                                                                                                                                           | Digital Solutions and Automation, Session 4                                                                                                               | Optimization of Municipal Treatment Facility Operations, Session 7                                                                                                       | Municipal Treatment, Session 15                                                                                                                | Emerging Contaminants, Session 5                                                                                                                                                    | Utility and Asset Management, Session 4                                                                                                                   |                                                                   |
|                   | The Good, the Bad, and the Plugged: A Beginner's Guide to Screening<br><i>Kylie Cutler</i>                                                                              | Challenges in Startup of a Biological Class A Biosolids System<br><i>Scott Weirich</i>                                                   | You Bought It How Many Times? Lessons in MegaProject Operator Training<br><i>Kiersten Lee, Lindsey Rafter</i>                                                                                         | What' just happened? Why can't we have the right data when we need it?<br><i>Mario Benisch, Austin Carnes</i>                                             | Biological Nutrient Removal Facility Process Controls for Operational Flexibility and Reduced Operating Costs<br><i>Francesca Ceconi, Tricia Sweeny, Johnny Leavy</i>    | Combining Innovation and Funding to Meet Challenges in Rigby, Idaho<br><i>Eric Roundy</i>                                                      | Remote Lab: Rapid OnSite Detection of Candida auris in Wastewater<br><i>Ollie Cook</i>                                                                                              | From Stalemate to Solution: How Community Engagement Resolved a Four Decade Wastewater Challenge in Fall City<br><i>Brian Shuck, Jeff Wilson</i>          |                                                                   |
|                   | So you think you want an Actuator?<br><i>Chris Baersten</i>                                                                                                             | Startup & Optimization of Pocatello's Biosolids Reuse and Recovery Process<br><i>Jared Richens, Justin Bloxham, Colter Hollingshead</i>  | OperatorCentered and Multi Modal Training for Complex Projects Ship Canal Water Quality Project Storage Tunnel Training Program<br><i>Asa ChavezKnight, Juliana Andrade</i>                           | Designing Smarter: How Digital Twins Reduce Construction Cost in Aeration Basin Upgrades<br><i>Bruce Johnson</i>                                          |                                                                                                                                                                          | Big Funding, Big Challenges: The Twisp Story<br><i>Brent Deyo, Andrew Denham</i>                                                               | Stormwater 2.0: Managing Emerging Contaminants and Evolving Water Quality Rules<br><i>Jana Crawford, Dustin Atchison</i>                                                            | Risky Business: A Collaborative Approach to Risk and Vulnerability in Comprehensive Planning<br><i>Swati Maurya, Ryan Haller, Justin Phelps</i>           |                                                                   |
| 11:30AM - 12:30PM | Optimization of Municipal Treatment Facility Operations, Session 9                                                                                                      | Biosolids, Session 11                                                                                                                    | Project Delivery, Session 9                                                                                                                                                                           | Digital Solutions and Automation, Session 5                                                                                                               | Optimization of Municipal Treatment Facility Operations, Session 8                                                                                                       | Municipal Treatment, Session 16                                                                                                                | Municipal Treatment, Session 17                                                                                                                                                     | Leadership & Development, Session 5                                                                                                                       |                                                                   |
|                   | Permits, Petitions, and Progress: Delivering Under the Three Basin Rule<br><i>Luke Jones, Tsigereda Woldegiorgis , Pamela Villarreal</i>                                | More Gas, Less Solids: Inside the First FullScale Microbial Hydrolysis Facility<br><i>Cameron Clark</i>                                  | Threading the Needle: King County Wastewater Treatment Division's Innovative Alternatives Evaluation to Solve CSO Challenges for the Mouth of the Duwamish River<br><i>Edith Hadler, Shelby Hodge</i> | Modernizing SCADA Communication with Private Cellular Networks<br><i>Jeffrey Kanyuch, Trevor Klatt, Andy Huffman</i>                                      | Commissioning Starts on Day 1: Building a StartupReady Facility<br><i>Keith Beckman, Curtis Fenner</i>                                                                   | Fixed Covers, Secure Future: A Digester Upgrade Strategy Focused on Safety, Simplicity, and Emissions<br><i>Hannah McLean, Karina Woodland</i> | Breathing new life into old bioreactors: innovative aeration strategies for the future<br><i>Vrunda Patel</i>                                                                       | Mission Ready: Recruiting the Next Wave of Water Operators from the Military<br><i>Dotti Ramey, Becca Chapa</i>                                           |                                                                   |
|                   | Groundwater Changes and its Effects on Underground Electric Infrastructure<br><i>Lauren Koonce</i>                                                                      | BioDrying for Small Municipalities Case Studies, Performance Data, and Economic Analyses<br><i>Valentino Villa</i>                       | Optimizing a Combined Sewer Overflow Long Term Control Plan Using Alternative Delivery Methods to Deliver CSO HighRate Treatment<br><i>Yan Duan, Tim Healy</i>                                        |                                                                                                                                                           | Who's afraid of Serial #1? First Installations of New Processes or Equipment.<br><i>Mario Benisch</i>                                                                    | Membrane Disc Diffusers – Clean or Replace?<br><i>Jon Butt</i>                                                                                 | Bringing Aerobic Granular Sludge (AGS) to Continuous Flow Treatment Plants: A GameChanger for New Plants, Nutrient Removal and Increase to Plant Capacity<br><i>BettyAnn Curtis</i> | Cybersecurity Incident Induced Billing System Outage: A Case Study in Customer Communication and Operational Resilience<br><i>Alexa Morris, Erin Blue</i> |                                                                   |