



# Ruby Jubilee

## 40th TRI-STATE SEMINAR

**Celebrating**  
40 YEARS OF TRAINING EXCELLENCE  
**AUGUST 4-7, 2025**  
SOUTH POINT HOTEL & CASINO | LAS VEGAS

## TECHNICAL PROGRAM

**TUESDAY, AUGUST 5, 2025**

MAINTENANCE		Dave Badgley, Chair   Jason Badgley, Co-Chair	SHOWROOM	SESSION	7:00 AM - 7:30 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>Tucson Waters Homegrown Asset Management Program for Large Diameter Pipelines</b> – Britt Klein, Xylem			1106	
8:30 AM – 9:20 AM	<b>Preventing DC Stray Currents</b> – Charlie Poore, MESA Products			1206	
9:40 AM – 10:30 AM	<b>Trenchless Pipeline Rehabilitation</b> – David Badgley, Performance Pipeline Technologies			1306	
10:40 AM – 11:30 AM	<b>Right Maintenance to the Right Equipment at the Right Time</b> – Ralph Stevens & James McPherson, CTS International			1406	
11:40 AM – 12:30 PM	<b>Pressure Pipeline Rehabilitation Methods for Municipal Water Applications</b> – Jeff Coffman, Insituform Technologies			1506	
2:00 PM – 2:50 PM	<b>Structural vs Non-Structural Pipeline Rehabilitation</b> – Firat Sever, CDM Smith			1706	
3:00 PM – 3:50 PM	<b>Will Your Water Tank Survive a Major Earthquake</b> – Mark Moore, Blue Locker Commercial Diving			1806	
WASTEWATER COLLECTION		Brandon Martinez, Chair   Andy Keller, Co-Chair	GRAND BALLROOM A	SESSION	9:20 AM - 9:40 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>Adaptive Master Planning Approaches Support More Informed Decision Making</b> – Ryan Orgill, Carollo Engineers			1102	
8:30 AM – 9:20 AM	<b>The Future of Manhole Covers: CAP Innovative Approach</b> – William Nunnery, Composite Access Products (CAP)			1202	
9:40 AM – 10:30 AM	<b>NASSCO PACP/LACP/MACP; How Can Your Town Benefit?</b> Jerry Weimer, Jerry Weimer Consulting & Nick Spano, Essential Equipment			1302	
10:40 AM – 11:30 AM	<b>Innovating Sewer Condition Assessments with AI, Web, and Cloud Technologies</b> – Nino Rivas, CUES/SPX			1402	
11:40 AM – 12:30 PM	<b>Inspecting SROG Sewer Siphons and Palo Verde Power Plant Reclaim Pipelines</b> – Britt Klein, Xylem			1502	
2:00 PM – 2:50 PM	<b>Anatomy of a Combination Sewer Cleaning Machine and its Evolution</b> Rusty Nezat, Nezat Training and Consulting, Inc.			1702	
3:00 PM – 3:50 PM	<b>A Solution for Monitoring Inflow and Infiltration in Wastewater Infrastructure</b> Kent Dalton, West Coast Equipment & Safety Supply & Simon Fisker, Consibio			1802	
WASTEWATER TREATMENT		Frederick Tack, Chair   Sidney Innerebner, Co-Chair	SONOMA C & D	SESSION	LUNCH A - 11:30 AM - 1:00 PM / LUNCH B - 12:30 PM - 2:00 PM
7:30 AM – 8:20 AM	<b>A Wild Ride in the Wild West! The Story of the AJSD WRF Expansion Project</b> Anne Latimer, Apache Junction Sewer District			1110	
8:30 AM – 9:20 AM	<b>Controlling the Activated Sludge Process SRT Control and Teamwork</b> – Ken Schnaars, Brown and Caldwell			1210	
9:40 AM – 10:30 AM	<b>Fundamentals of Chemical Calculations and Reactions</b> – Chris Maher, Cleanwater Services			1310	
10:40 AM – 11:30 AM	<b>How to Optimize your Clarifiers</b> – John Esler, Clarifier Performance Evaluations, Inc.			1410	
11:40 AM – 12:30 PM	<b>Real World Considerations for Pump Design, Operation and Troubleshooting</b> – Steve Truitt, Penn Valley Pump			1510	
2:00 PM – 2:50 PM	<b>Formation of Granular Sludge with Low Strength Wastewater</b> – Brett Quimby, Aqua-Aerobic Systems			1710	
3:00 PM – 3:50 PM	<b>Teaching an Old Dog New Tricks – Troubleshooting &amp; Optimizing Chlorine Disinfection System</b> Brian Hilts, CDM Smith			1810	
WATER DISTRIBUTION		Ken Snow, Chair   Steve Davis & Britt Klein, Co-Chair	GRAND BALLROOM B	SESSION	
7:30 AM – 8:20 AM	<b>Advancements in Acoustic Monitoring of Pre-stressed Concrete Cylinder Pipe-Detecting Leaks</b> – Rob King, Xylem			1111	
8:30 AM – 9:20 AM	<b>The Science of Mixing and Improving Water Quality in Water Storage Tanks</b> – Michael Duer, Red Valve			1211	
9:40 AM – 10:30 AM	<b>First Fix Your Valves – Then Assess Your Pipe!</b> – Britt Klein, Xylem			1311	
10:40 AM – 11:30 AM	<b>Maximizing Utility Efficiency: Using IoT &amp; Advanced Analytics to Optimize Meter Performance</b> Josh Mendes, Olea Edge Analytics			1411	
1:00 PM – 1:50 PM	<b>Pressure Conveyance Pipe Design Consideration's Correlation to Pumping Cost and Efficiency</b> Ethan Lux, Molecor USA			1611	
2:00 PM – 2:50 PM	<b>Impacts of Having Pressure Monitoring and Acoustic Leak Detection in Your System</b> Kevin Barnes, Fluid Conservation Systems			1711	
3:00 PM – 3:50 PM	<b>Pipes, Patterns, and Predictions: Transforming Infrastructure Management with AI</b> Bridget Garlinghouse, VODA.ai			1811	



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**TUESDAY, AUGUST 5, 2025**

ELECTRICAL / INSTRUMENTATION & CONTROLS		Heath Szymanski, Chair   Shane Hershey, Co-Chair	SONOMA B	SESSION	7:00 AM - 7:30 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>10 Design and Security Tips to Elevate Your SCADA System</b> – Tera Dalia & Reese Tyson, Inductive Automation			1114	
8:30 AM – 9:20 AM	<b>Gilbert NWTP: Electrical Fault Resilience and Redundancy</b> – Daniel Roose, Water Works Engineers			1214	
9:40 AM – 10:30 AM	<b>Fortifying Industrial Automation: A Comprehensive Cybersecurity Strategy</b> <i>Ahmik Hindman, Rockwell Automation</i>			1314	
10:40 AM – 11:30 AM	<b>Advanced Topics: Variable Frequency Drives</b> – Kirsten Trout, Nidec Drives			1414	
1:00 PM – 1:50 PM	<b>Water Systems Under Threat: The Role of Cybersecurity in Safeguarding Supply</b> – Heath Jeppson, Stanley Consultants			1614	
2:00 PM – 2:50 PM	<b>An In-place MCC Replacement Option for Switchgear &amp; Automation Modernization</b> <i>Clark Burbidge, Codale Electric Supply &amp; Heath Szymanski, Las Vegas Valley Water District</i>			1714	
3:00 PM – 3:50 PM	<b>Precision in the Desert: Essential Online Water Quality Monitoring in the Tri-State Region</b> <i>Garrett Figley, Swan Analytical Instruments</i>			1814	9:20 AM - 9:40 AM - JAVA JOLT
GROUNDWATER / RECHARGE		Geno Mammini, Chair   Don Hanson, Co-Chair	NAPA C & D	SESSION	
7:30 AM – 8:20 AM	<b>Groundwater Wells 101</b> – Nate Arnold, Daniel B. Stephens & Associates & Geno Mammini, Clear Creek Associates			1104	
8:30 AM – 9:20 AM	<b>Understanding Steel Options for Groundwater Well Casing, Screen, and Pump Column</b> <i>Jeremy Kuhn, Roscoe Moss Company</i>			1204	
9:40 AM – 10:30 AM	<b>Advancements in Water Well Screen Hydraulics</b> – Kevin McGillicuddy, Roscoe Moss Company			1304	
10:40 AM – 11:30 AM	<b>Groundwater Well Maintenance Made Easy</b> – Joseph Cowlshaw,, Hose Solutions, Inc.			1404	
11:40 AM – 12:30 PM	<b>Groundwater Well Liner – Extending Asset Life</b> – Geoffrey Bates, California Water Service			1504	
2:00 PM – 2:50 PM	<b>Sustainable Arsenic &amp; Fluoride Removal with Zero Liquid Discharge for Drinking Water</b> <i>Tony Powell &amp; Brian Butters, Purifics Water Inc.</i>			1704	LUNCH A - 11:30 AM - 1:00 PM / LUNCH B - 12:30 PM - 2:00 PM
3:00 PM – 3:50 PM	<b>Planning and Implementing Aquifer Recharge Projects</b> – Alex Potter & Travis Geringer, Clear Creek Associates			1804	
LABORATORY		John Shephard, Chair   Kyle Anders, Co-Chair	SONOMA A	SESSION	
7:30 AM – 8:20 AM	<b>Water Sample Collection Best Practices</b> <i>McKenna Oh, Western Environmental Testing Laboratory &amp; Nick Ross, Western Environmental Testing Laboratory</i>			1103	
8:30 AM – 9:20 AM	<b>Techniques for Measuring Surfactants in Surface Water &amp; Wastewater</b> <i>Erica Marti &amp; Gabson Baguma, University of Nevada, Las Vegas</i>			1203	
9:40 AM – 10:30 AM	<b>Performing the 4-Point Microexam</b> – Steve Leach, Leach Microbial Consulting			1303	
10:40 AM – 11:30 AM	<b>What the Mox? An Overview of Commamox, Anammox, and the Nite-Denite Cycle</b> <i>Heather Jennings, Huma Environmental</i>			1403	
1:00 PM – 1:50 PM	<b>IDEXX Tecta: Automated Bacterial Testing of Water Samples</b> – Shawn Dubois, IDEXX Laboratories			1603	
2:00 PM – 2:50 PM	<b>Understanding the Risk of Legionella Pneumophila in Water Systems</b> <i>Shawn Dubois, IDEXX Laboratories</i>			1703	
3:00 PM – 3:50 PM	<b>Quantitative Microbial Risk Assessment for De Facto Reuse in the Las Vegas Valley</b> <i>Emily Clements &amp; Katherine Crank, Southern Nevada Water Authority</i>			1803	
RECLAIM / REUSE		Coenraad Pretorius, Chair   Erin Daugherty, Co-Chair	NAPA A & B	SESSION	
7:30 AM – 8:20 AM	<b>Fundamentals of Membrane Filtration and Reverse Osmosis Operation in Reuse Applications</b> <i>Kyle Nelson, Brown and Caldwell</i>			1109	
8:30 AM – 9:20 AM	<b>What to Know; Design, Construction and Operation of a Treatment Plant by Real Operators</b> <i>Ryan Becker, Rosamond CSD</i>			1209	
9:40 AM – 10:30 AM	<b>Cost-Effective Water Reuse: Reducing Cost of Treatment With Silicon Carbide Membranes</b> – Ashwini Khare, Ovivo			1309	
10:40 AM – 11:30 AM	<b>Game Changers in Managing Organics for Direct Potable Reuse</b> – Jasmina Markovski, ADEQ			1409	
1:00 PM – 1:50 PM	<b>Planning and Piloting for Direct Potable Reuse in California and Arizona</b> – Amos Branch, Carollo			1609	
2:00 PM – 2:50 PM	<b>Follow the Light: UV for Potable and Nonpotable Reuse Applications</b> – Patrick Bollman, Xylem			1709	
3:00 PM – 3:50 PM	<b>Characterizing Virus Reduction During Secondary Biological Treatment for Water Reuse</b> <i>Phillip Wang, Southern Nevada Water Authority</i>			1809	



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STORMWATER	Jennifer Davis, Chair   Kevin Boesch, Co-Chair	GRANDVIEW LOUNGE	SESSION
7:30 AM – 8:20 AM	<b>Microplastics in the Waters of America</b> – <i>Kenneth Beckstead, Pollution Solutions Group, Inc.</i>		1113
8:30 AM – 9:20 AM	<b>Stormwater – Lessons Learned From the City Rate Increase Project</b> – <i>Dalia Fadl, City of Rancho Cordova</i>		1213
9:40 AM – 10:30 AM	<b>Stormwater Outreach – Bring Real World STEM Challenges to the Classroom!</b> <i>Kristin Homuth, Maricopa County Stormwater Quality Program</i>		1313
10:40 AM – 11:30 AM	<b>Weighing the Impact of Recent U.S. Supreme Court Decisions on Storm Water Regulation</b> <i>Gregory Newmark, Meyers Nave</i>		1413
1:00 PM – 1:50 PM	<b>Stormwater Education &amp; Inspections in the Dry Desert</b> – <i>Luke Owen, NPDES Stormwater Training Institute</i>		1613
2:00 PM – 2:50 PM	<b>Nevada Division of Environmental Protection (NDEP): What's New in Stormwater?</b> <i>Kathryn Foxworthy, Nevada Division of Environmental Protection (NDEP)</i>		1713
3:00 PM – 3:50 PM	<b>Characterization of Stormwater Sampling Data in the Las Vegas Valley</b> <i>John Tennert, Regional Flood Control District</i>		1813

7:00 AM - 7:30 AM - JAVA JOLT



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## TECHNICAL PROGRAM

**WEDNESDAY, AUGUST 6, 2025**

MAINTENANCE		Dave Badgley, Chair   Jason Badgley, Co-Chair	SHOWROOM	SESSION	7:00 AM - 7:30 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>MH &amp; Stuctural Problems and Solutions Using State of the Art Materials &amp; Techniques</b> <i>David Badgley, Badley &amp; Assoc. Performance Pipeline Technologies</i>			2106	
8:30 AM – 9:20 AM	<b>Controlling H2S in Collection Systems, HAB in Ponds and Lakes Using Soil Based Bacteria</b> <i>Jim Aanderrud, Permidian Technologies, EnBiorganic</i>			2206	
9:40 AM – 10:30 AM	<b>Hydraulic Odor &amp; Corrosion Control in Sewer Drops &amp; Water Tank Aeration</b> – Kerry Koressel, IPEX USA LLC			2306	
10:40 AM – 11:30 AM	<b>Corrosion Protection Best Practices for Critical Water Assets</b> – Gary Graham, Farwest Corrosion Control			2406	
11:40 AM – 12:30 PM	<b>Troubleshooting and Maintaining Your Automatic Control Valve</b> – Jim Lugo, Watts Water Technologies			2506	
2:00 PM – 2:50 PM	<b>Installation and Maintenance for Electric Motors and Drives</b> <i>Don Taft &amp; Tyler Lavery, Valley Power Systems</i>			2706	
3:00 PM – 3:50 PM	<b>Enhancing Preventive Maintenance Through Infrared Thermography and Vibration Analysis</b> <i>Tanner Canfield, Canfield Engineering &amp; Integration</i>			2806	9:20 AM - 9:40 AM - JAVA JOLT
WASTEWATER COLLECTION		Brandon Martinez, Chair   Andy Keller, Co-Chair	GRAND BALLROOM A	SESSION	
7:30 AM – 8:20 AM	<b>Cleaning Efforts at the City of Las Vegas WWTP Outfall</b> <i>Saul Gutierrez, CONSOR &amp; Dominic Panaligan, City of Las Vegas</i>			2102	
8:30 AM – 9:20 AM	<b>Wireless Sewer Flow Monitoring</b> – Richard Delagadillo, McCrometer Inc. & David Brown, McCrometer Inc.			2202	
9:40 AM – 10:30 AM	<b>Manhole Virtual Models (MVM) – Manhole Asset Management</b> – Jason Lake, RH Borden and Company			2302	
10:40 AM – 11:30 AM	<b>Combination Machine Maintenance</b> <i>Thadeus Dedmon, Haaker Equipment Company &amp; Tony Saragosa Haaker Equipment Company</i>			2402	
11:40 AM – 12:30 PM	<b>Performing Proper Open Trench Point Repair</b> – Michael Bea & Tom Bea, Joints Couplings			2502	
2:00 PM – 2:50 PM	<b>Soil Based Bacteria – Natures Solution for Odor, FOG and Sludge Reduction</b> <i>Jim Aanderrud, Permidian Technologies</i>			2702	LUNCH A - 11:30 AM - 1:00 PM / LUNCH B - 12:30 PM - 2:00 PM
3:00 PM – 3:50 PM	<b>Manhole Inspections - What Does All The Data Mean And Petaluma's Project Experience</b> <i>Mike Ping, Dukes &amp; Dan Hererra, City of Petaluma CA</i>			2802	
WASTEWATER TREATMENT		Frederick Tack, Chair   Sidney Innerebner, Co-Chair	SONOMA C & D	SESSION	
7:30 AM – 8:20 AM	<b>DAFT 101: Most everything you wanted to know about Dissolved Air Flotation Thickeners</b> <i>Adrian Edwards, WAVE Services, LLC</i>			2110	
8:30 AM – 9:20 AM	<b>Centrifuge Dewatering and Thickening 101</b> – Sean Tierney, Franzensburg Centrifuge			2210	
9:40 AM – 10:30 AM	<b>Understanding Activated Sludge Microbiology to Optimize Process Operation</b> – Rasha Maal-Bared, CDM Smith			2310	
10:40 AM – 11:30 AM	<b>The Wonderful World of Microbiology</b> – Steve Leach, Leach Microbial Consulting			2410	
11:40 AM – 12:30 PM	<b>Best Practices for Centrifuge Equipment Procurement</b> – Jacob Emmons, Arcadis			2510	
2:00 PM – 2:50 PM	<b>Case Study: Struvite Reduction via Hydrogen Perox</b> – Brenda Blake, USP Technologies			2710	
3:00 PM – 3:50 PM	<b>Concrete Rehabilitation &amp; Coating – Key Quality Assurance for a Successful Application</b> <i>Joseph Keating &amp; Scott Wendling, Savereisen, Inc.</i>			2810	
WATER DISTRIBUTION		Ken Snow, Chair   Steve Davis & Britt Klein, Co-Chair	GRAND BALLROOM B	SESSION	
7:30 AM – 8:20 AM	<b>Contingency Planning For Emergency Pipeline Repair – Lessons Learned</b> – Mike Scholz, JCM Industries, Inc.			2111	
8:30 AM – 9:20 AM	<b>Big Pipes, Big Data: Advances in Metallic Pipeline Condition Assessment</b> – Eric Toffin, Pure Technologies			2211	
9:40 AM – 10:30 AM	<b>Exposing Hidden Secrets of Water Meter Inaccuracy</b> – Stephen Davis, Metering Technology Consultants			2311	
10:40 AM – 11:30 AM	<b>How Utilities Can Use Water Data to Spot Leaks, Save Water, and Keep Customers Happy</b> <i>Ellie Graeden, Metron-Farnier</i>			2411	
1:00 PM – 1:50 PM	<b>Intro to Line Stops, Hot Taps, Valve Insertions, &amp; Pipe Freezing</b> – Steve Helm, Tap Master Inc.			2611	
2:00 PM – 2:50 PM	<b>Peristaltic &amp; Diaphragm Pumps, Accessories, Skids for Ideal Operation and Maintenance</b> <i>Richard Hopkins, Blue White</i>			2711	
3:00 PM – 3:50 PM	<b>Optimizing Water Systems/Comprehensive Guide to Selecting and Applying</b> – Tina Christine & Jaymin Jackson, Cla-Val			2811	





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ELECTRICAL / INSTRUMENTATION & CONTROLS		Heath Szymanski, Chair   Shane Hershey, Co-Chair	SONOMA B	SESSION	7:00 AM - 7:30 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>Introduction to Technical Skills for Automation and Control Systems</b> <i>Jeromy Peterson &amp; Joshua Pearce, Ripple Industries, LLC</i>			2114	
8:30 AM – 9:20 AM	<b>EPA Cybersecurity Inspection Outcome with EPCOR and City of Surprise</b> <i>Mark Reski, PE, GICSP, Quantum Engineering, Jonathan Pitney, EPCOR USA &amp; Maris Adams, City of Surprise</i>			2214	
9:40 AM – 10:30 AM	<b>Can Motion Control/Robotics Enhance Water/Wastewater Operations?</b> <i>Brian Schreiber, Quantum Engineering &amp; Max Davitt, LinMot USA, Inc.</i>			2314	
10:40 AM – 11:30 AM	<b>Best Practices for Electric Motor Installation &amp; Maintenance</b> – <i>Mark Gaskill &amp; Scott Hopkins, Nidec Motor Corporation</i>			2414	
1:00 PM – 1:50 PM	<b>Instrumentation Diagnostics Deserve Their Own PLC</b> <i>Christopher Helliwell &amp; Nick Hanson, Endress+Hauser</i>			2614	
2:00 PM – 2:50 PM	<b>Inside a UL 508A Panel Shop: Safety, Quality, and Compliance</b> – <i>Joshua Merino, Felix Construction</i>			2714	
3:00 PM – 3:50 PM	<b>Harnessing AI for Operational Improvements in Maintenance Scheduling</b> <i>Bret Young, Rockwell Automation &amp; Clark Burbidge, Codale Electric Supply</i>			2814	
ENVIRONMENTAL COMPLIANCE / PRETREATMENT		Nicole deMoet, Chair   Stephanie Pezzelle, Co-Chair	NAPA C & D	SESSION	9:20 AM - 9:40 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>Using Effective Compliance Tools and Practices for Managing Violations and Enforcements</b> <i>Saqub Karori, NJB Soft LLC</i>			2107	
8:30 AM – 9:20 AM	<b>H2S Safety for Pretreatment Inspectors Part 1</b> – <i>Rick Allen, BioLyneus Biological Solutions</i>			2207	
9:40 AM – 10:30 AM	<b>H2S Safety for Pretreatment Inspectors Part 2</b> – <i>Rick Allen, BioLyneus Biological Solutions</i>			2307	
10:40 AM – 11:30 AM	<b>Greening in Metal Finishing Operations</b> – <i>Brian Casellon, Los Angeles Bureau of Sanitation</i>			2407	
11:40 AM – 12:30 PM	<b>Remote Sewer Monitoring Technology for Pretreatment Programs</b> – <i>Chelsey McCluskey, City of Pheonix</i>			2507	
2:00 PM – 2:50 PM	<b>Grease Wars</b> – <i>Chris Gravenstein, City of Reno &amp; Cody McDougall, City of Sparks</i>			2707	
3:00 PM – 3:50 PM	<b>Examples of High Performing Municipal Pretreatment Programs</b> – <i>Samuel Mcleod, FOG BMP Software</i>			2807	
ENVIRONMENTAL HEALTH / SAFETY & SECURITY		Tim Page-Bottorff, Chair   Jon Cordoba, Co-Chair	NAPA A & B	SESSION	LUNCH A - 11:30 AM - 1:00 PM / LUNCH B - 12:30 PM - 2:00 PM
7:30 AM – 8:20 AM	<b>Supervisors: Your Ace in the Hole</b> – <i>Mary Silva, Crum and Forster &amp; David Silva, Silva Performance Solutions</i>			2108	
8:30 AM – 9:20 AM	<b>The Value of Venting</b> – <i>Tim Page-Bottorff, SafeStart</i>			2208	
9:40 AM – 10:30 AM	<b>Not Another Stupid Mistake! A 2-Prong Approach For Making Routine Work Safer</b> <i>Sharon Lipinski, Habit Mastery Consulting</i>			2308	
10:40 AM – 11:30 AM	<b>4 Safety Leadership Fundamentals: A Conversation With a Retired Naval Officer</b> <i>Robert McCarthy, Department of Defense</i>			2408	
1:00 PM – 1:50 PM	<b>From the Ground Up: Nurturing Informal Leaders</b> <i>Mary Silva, Crum and Forster &amp; David Silva, Silva Performance Solutions</i>			2608	
2:00 PM – 2:50 PM	<b>The Need for 3rd party Standby Rescue &amp; Rope Safety Systems</b> <i>Damian Noe, American Rescue and Safety &amp; Josh Parafinik, American Rescue and Safety</i>			2708	
3:00 PM – 3:50 PM	<b>Safety: Making it Stick</b> – <i>Eldeen Pozniak, Diggins Safety Associates</i>			2808	
STORMWATER		Jennifer Davis, Chair   Kevin Boesch, Co-Chair	GRANDVIEW LOUNGE	SESSION	
7:30 AM – 8:20 AM	<b>Advancing Stormwater and Sewer System Inspections with Pipe Crawlers and Photogrammetry</b> <i>Tristan Walker, Deep Trekker</i>			2113	
8:30 AM – 9:20 AM	<b>Storm Sewer Maintenance: Fact or Fiction</b> – <i>Braxton Coles, City of Houston</i>			2213	
9:40 AM – 10:30 AM	<b>Managing Stormwater with Drones at the Port of Tacoma</b> – <i>Ben Nield, The Northwest Seaport Alliance</i>			2313	
10:40 AM – 11:30 AM	<b>Technology in a Changing Environment: Using Drones for SWPPP</b> – <i>Samatha Wood, Ames Construction</i>			2413	
1:00 PM – 1:50 PM	<b>Construction Challenges in a Changing Climate</b> – <i>Phil Ryder, Ames Construction</i>			2613	
2:00 PM – 2:50 PM	<b>Common Sense Stormwater Control Measures Design and Installations</b> <i>Edward D'Agostino, R&amp;D Stormwater Management</i>			2713	
3:00 PM – 3:50 PM	<b>Weaving a Post-Construction Stormwater Compliance Program into Existing Agency Processes</b> <i>Julia Manfredi, WSP USA, Inc.</i>			2813	

# TECHNICAL PROGRAM

## WEDNESDAY, AUGUST 6, 2025

SURFACE WATER / WATER TREATMENT		Blake Gonska, Chair   Kamrun Ahmadi, Co-Chair	SONOMA A	SESSION	7:00 AM - 7:30 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>Leveraging Backcasting to Address Future Water Quality Challenges for Lake Mead</b> Brooke Stemple, Southern Nevada Water Authority			2112	
8:30 AM – 9:20 AM	<b>Disinfection By-Products: Prevention and Treatment Optimization</b> – Matt Ogden, IXOM Watercare Inc.			2212	
9:40 AM – 10:30 AM	<b>What is New in 2025 for PFAS Treatment</b> – Mark Dodd, Aquatech International AES Division			2312	
10:40 AM – 11:30 AM	<b>Partnering with Arizona DEQ to Tackle PFAS Challenges in Arizona's Communities</b> Vicki Chu, Kimley-Horn & Associates			2412	
1:00 PM – 1:50 PM	<b>The Role of CO2 in Corrosion Control</b> – Camila Hess, Tomco Systems			2612	
2:00 PM – 2:50 PM	<b>Engineering Rollup Regeneration Services for Hexavalent Chromium Treatment</b> Tyler Butel, Chart Industries & Phil Chandler, Datumpin			2712	
3:00 PM – 3:50 PM	<b>On-Site Sodium Hypochlorite Generation: A Safe and Reliable Disinfection</b> – Kevin Sanner, Clearwater1			2812	



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#2

SW Services LLC

1/2H



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## TECHNICAL PROGRAM

THURSDAY, AUGUST 7, 2025

MAINTENANCE		Dave Badgley, Chair   Jason Badgley, Co-Chair	SHOWROOM	SESSION	7:00 AM - 7:30 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>Maintenance and Repair Coating For Key Water/Wastewater Infrastructure Assets</b> <i>Brian Cheshire, Tnemec Company</i>			3106	
8:30 AM – 9:20 AM	<b>Trenching and Shoring Awareness – You've Got Options!</b> – Nick Tarin, United Rentals			3206	
9:40 AM – 10:30 AM	<b>For a Few Dollars More, You Can Greatly Increase the Life and Efficiency of Your Pumps</b> <i>Michael Bodart, General Pump Company Inc.</i>			3306	
10:40 AM – 11:30 AM	<b>Data Driven Maintenance: Practical Solutions for Evaluation &amp; Implementation</b> <i>Roberto Lee, Enterprise Automation</i>			3406	
11:40 AM – 12:30 PM	<b>Utility Locating Technologies: Find Metal, Plastic and Asbestos Cement Pipe</b> – Adam Zeciri, Locating Dynamics			3506	
2:00 PM – 2:50 PM	<b>Electrical Maintenance, Electrical Safety and New NFPA 70B Requirements</b> – Tim Rohrer, Exiscan			3706	
3:00 PM – 3:50 PM	<b>Are You Safe or Just Compliant? AR Daily Wear or Task-Based Kits for Arc Flash Protection</b> <i>Derek Sang, Bulwark Protection</i>			3806	
WASTEWATER COLLECTION		Brandon Martinez, Chair   Andy Keller, Co-Chair	GRAND BALLROOM A	SESSION	9:20 AM - 9:40 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>Wastewater Monitoring For Public Health: Recent Progress And Future Directions</b> <i>Casey Barber, Southern Nevada Water Authority</i>			3102	
8:30 AM – 9:20 AM	<b>Considerations When Looking to Purchase New Hydrovac Trucks</b> – Nick DeMagistris, Transwest			3202	
9:40 AM – 10:30 AM	<b>Sewer System Operators in Arizona, California And Nevada Leverage Real-Time Monitoring</b> <i>Eric Van Cleave, SmartCover</i>			3302	
10:40 AM – 11:30 AM	<b>Revolutionizing Manhole Rehabilitation: A Case Study on Agency-Driven Success</b> <i>Brandon Tremelling, Geneva Pipe &amp; Precast – A Northwest Pipe &amp; Alena Mikhaylova, Geneva Pipe &amp; Precast – A Northwest Pipe</i>			3402	
11:40 AM – 12:30 PM	<b>Insane in the Force Main: A Multi-Phase Condition Assessment Journey</b> <i>Paul Gagliardo, Gagliacqua Consulting &amp; Chris MacDonald, CMP Pipelines</i>			3502	
2:00 PM – 2:50 PM	<b>Preventive Maintenance for WW Collection Systems</b> – Loyd Rawlings, USABlueBook & John Schwartz, USABlueBook			3702	
3:00 PM – 3:50 PM	<b>Trenchless Technology for Structural Rehabilitation of Water, Storm and Sewer Systems</b> <i>Kurt Chirbas, GeoTree Solutions</i>			3802	
WASTEWATER TREATMENT		Frederick Tack, Chair   Sidney Innerebner, Co-Chair	SONOMA C & D	SESSION	LUNCH A - 11:30 AM - 1:00 PM / LUNCH B - 12:30 PM - 2:00 PM
7:30 AM – 8:20 AM	<b>Evaluation of Advanced In-Situ Generated Ferrate System for PFAS Degradation</b> – Keith McLeroy, AMS			3110	
8:30 AM – 9:20 AM	<b>Single Aerobic Basin Nitrification/Denitrification at Grand Canyon's Phantom Ranch</b> <i>Lauren Takitch, Entex Technologies, Inc.</i>			3210	
9:40 AM – 10:30 AM	<b>Navigating Phosphorus Removal: A Comparative Guide to Chemical and Biological Treatment</b> <i>Raj Chavan, Ardurra &amp; Murthy Kasi, Olsson</i>			3310	
10:40 AM – 11:30 AM	<b>Chlorine Contact Tank Expansion &amp; Disinfection Conversion at Meadowlark Water Reclamation</b> <i>Ryan Morgan, Vallecitos Water District</i>			3410	
11:40 AM – 12:30 PM	<b>Back to Basics: Review of UV Disinfection</b> – Patrick Bollman, Xylem			3510	
2:00 PM – 2:50 PM	<b>Septic Impact on Rural WWTPs: Dewatering, Sludge Handling, and Resilient Facility Planning</b> <i>Frederick Tack, Consor</i>			3710	
3:00 PM – 3:50 PM	<b>The Role of Permanent Magnets and Rare-Earth Materials in Wastewater Treatment</b> <i>Greg Page, Neo Water Treatment</i>			3810	
WATER DISTRIBUTION		Ken Snow, Chair   Steve Davis & Britt Klein, Co-Chair	GRAND BALLROOM B	SESSION	
7:30 AM – 8:20 AM	<b>Adding New Control Points on Distribution Mains. The Traditional and Low-Dig Options.</b> <i>Shawn Petty, Advanced Valve Technologies</i>			3111	
8:30 AM – 9:20 AM	<b>Leveraging Digital Tools and AI for Comprehensive Water Loss Management</b> <i>Allison Hedges and Bryce Murphy, Itron</i>			3211	
9:40 AM – 10:30 AM	<b>Making Water Infrastructure Intelligent</b> – Mike Uthe, Mueller Water Products			3311	
10:40 AM – 11:30 AM	<b>Water Meters Can't Find Water Main Line Leaks, Can They? You Bet They Can!</b> – Jake Waidmann, Kamstrup			3411	
1:00 PM – 1:50 PM	<b>Saving Your System Through High Resolution Data</b> – Eric Larson, Badger Meter			3611	
2:00 PM – 2:50 PM	<b>Pipeline Preparation, Plans, and Solutions for Emergency or Planned Repairs</b> – Monty Harrup, Rangeline Group			3711	
3:00 PM – 3:50 PM	<b>Leveraging AMI data to Develop District Metered Areas (DMAs)</b> <i>Tim Collie and Ryan Johnson, Elsinore Valley Municipal Water District</i>			3811	





# Ruby Jubilee

## 40<sup>th</sup> TRI-STATE SEMINAR

**Celebrating**  
40 YEARS OF TRAINING EXCELLENCE  
**AUGUST 4-7, 2025**  
SOUTH POINT HOTEL & CASINO | LAS VEGAS

## TECHNICAL PROGRAM

**THURSDAY, AUGUST 7, 2025**

BACKFLOW PREVENTION		Nathan Ellis, Chair   Kevin Neal, Co-Chair	SONOMA B	SESSION	7:00 AM - 7:30 AM - JAVA JOLT
7:30 AM – 8:20 AM	<b>Backflow Assembly Field Testing – Safety and Health Guidelines – Are You Compliant?</b> <i>Robert Purzycki, Backflow Apparatus &amp; Valve Co.</i>			3101	
8:30 AM – 9:20 AM	<b>Backflow Repair Basics</b> – <i>Kenneth Ashlock, Cross Connection Environmental</i>			3201	
9:40 AM – 10:30 AM	<b>Backflow Tester Certification Shortfalls!</b> – <i>Chris Castaing, San Diego County Water Authority</i>			3301	
10:40 AM – 11:30 AM	<b>Degree of Hazard, What Does It Really Mean?</b> – <i>Chris Castaing, San Diego County Water Authority</i>			3401	
1:00 PM – 1:50 PM	<b>Tester &amp; Business Ethics</b> – <i>Kenneth Ashlock, Cross Connection Environmental</i>			3601	
2:00 PM – 2:50 PM	<b>Hazard Assessments – Plan of Action</b> – <i>Ron Hazzard, C4-Cross Connection Control Consultants</i>			3701	
3:00 PM – 3:50 PM	<b>Minimizing Time and Cost Burdens on Blackflow Program Managers</b> – <i>Mitch LeBas, Backflow Prevention Services</i>			3801	9:20 AM - 9:40 AM - JAVA JOLT
ENVIRONMENTAL COMPLIANCE / PRETREATMENT		Nicole deMoet, Chair   Stephanie Pezzelle, Co-Chair	NAPA C & D	SESSION	
7:30 AM – 8:20 AM	<b>Soil Based Bacteria - Natures Natural Solution in Industrial and Municipal Applications</b> <i>Jim Aanderud, Permidian Technologies LLC</i>			3107	
8:30 AM – 9:20 AM	<b>Evaluating &amp; Interpreting PFAS Results at a Wastewater Treatment Facility</b> <i>Eric Anderson, Clark County Water Reclamation District</i>			3207	
9:40 AM – 10:30 AM	<b>Understanding the Pretreatment Processes to Protect your POTW</b> – <i>Cathy Swanson &amp; Dan Teeters, Ecolab</i>			3307	
10:40 AM – 11:30 AM	<b>Planning for PFAS Treatment and Pilot Study, One Year With the Town of Payson's Pilot</b> <i>Dane Whitmer, Consor Engineer</i>			3407	
11:40 AM – 12:30 PM	<b>ADEQ's PFAS Progress: Regulatory, Statewide Sampling and Mitigation Project Advances</b> <i>Mathew Olson, Arizona Department of Environmental Quality</i>			3507	
2:00 PM – 2:50 PM	<b>PFAS Destruction: Lessons Learned From Field Programs Inform the Treatment Train Model</b> <i>Gavin Scherer, DE-FLUORO</i>			3707	LUNCH A - 11:30 AM - 1:00 PM / LUNCH B - 12:30 PM - 2:00 PM
3:00 PM – 3:50 PM	<b>Microplastics On My Mind</b> – <i>Heather Jennings, Huma Environmental</i>			3807	
ENVIRONMENTAL HEALTH / SAFETY & SECURITY		Tim Page-Bottorff, Chair   Jon Cordoba, Co-Chair	NAPA A & B	SESSION	
7:30 AM – 8:20 AM	<b>Using Gas Detection to Help Determine Appropriate PPE</b> – <i>Greg Khair, Draeger &amp; Mark Heuchert, Draeger</i>			3108	
8:30 AM – 9:20 AM	<b>The Dynamic Duo Situational &amp; Self-Awareness Unite for Ultimate Safety and Success</b> <i>Tim Page-Bottorff, SafeStart &amp; David Silva, Silva Performance Solutions</i>			3208	
9:40 AM – 10:30 AM	<b>Toward a Fall Protection Paradigm Shift</b> – <i>Russell Duren, PGM Safety Services</i>			3308	
10:40 AM – 11:30 AM	<b>Lessons Learned From My Father: A Father/Daughter Experience in Safety When Owning A Biz</b> <i>Jonahha O'Dell, Safety, Health and Env Consultants &amp; John Runge, Runge Builders</i>			3408	
1:00 PM – 1:50 PM	<b>A Big Hole In Confined Spaces</b> – <i>Jason Call, Tinosi Inc.</i>			3608	
2:00 PM – 2:50 PM	<b>PFAS and Other Contaminants of Concern</b> – <i>Rasha Maal-Bared, CDM Smith</i>			3708	
3:00 PM – 3:50 PM	<b>Confined Space vs. Any Space with Hazards: Is it Permit Required?</b> – <i>Michael Vaughn, Safety Help Today</i>			3808	
LEADERSHIP DEVELOPMENT		Brett Offerman, Chair   Lisa Farinas, Co-Chair	GRANDVIEW LOUNGE	SESSION	
7:30 AM – 8:20 AM	<b>Emotional Intelligence: Building Self-Awareness by Understanding Feelings and Emotions</b> <i>Keli Callahan, Stantec Consulting Services Inc.</i>			3105	
8:30 AM – 9:20 AM	<b>Analyzing Performance Problems</b> <i>James McPhearson &amp; Ralph Stevens, Competency Training Systems CTS International Inc.</i>			3205	
9:40 AM – 10:30 AM	<b>Training To Standards and Compliance</b> <i>James McPhearson &amp; Ralph Stevens, Competency Training Systems CTS International Inc.</i>			3305	
10:40 AM – 11:30 AM	<b>The Tech Talent Pool: Barren Desert or Lush Oasis?</b> – <i>Joseph Blackman, Vitendo</i>			3405	
1:00 PM – 1:50 PM	<b>Career Management &amp; Interviewing – An Operational Perspective</b> <i>Chris Castaing, San Diego County Water Authority</i>			3605	
2:00 PM – 2:50 PM	<b>Empowering Water Utility Leaders: Building Essential Skills for Success</b> – <i>Michele Rodriguez, Ridgecresta</i>			3705	
3:00 PM – 3:50 PM	<b>Strategic Planning and Execution of the Water Utility</b> – <i>Ken Snow, Town of Gilbert Arizona</i>			3805	





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SURFACE WATER / WATER TREATMENT	Blake Gonska, Chair   Kamrun Ahmadi, Co-Chair	SONOMA A	SESSION
7:30 AM – 8:20 AM	<b>UV-LED Technology: A Mercury-Free Alternative for Water Treatment</b> <i>Hannah Ray, Southern Nevada Water Authority</i>		3112
8:30 AM – 9:20 AM	<b>PFAS is here... now how do I deal with it without breaking the bank?</b> – <i>Steve Green, ATEC Water Systems</i>		3212
9:40 AM – 10:30 AM	<b>Chlorine and UV-LED Disinfection of L. Pneumophila and A. Polyphaga Host</b> <i>Ayella Maile-Moskowitz, Southern Nevada Water Authority</i>		3312
10:40 AM – 11:30 AM	<b>How Continuous Ultra Filtration and SiC Membranes Provide Environmental Advantages</b> <i>Brian Butters, Purifics Water Inc.</i>		3412
1:00 PM – 1:50 PM	<b>Surface Water Primary Disinfection Options with UV Technology</b> – <i>Scott Binder, Trojan Technologies</i>		3612
2:00 PM – 2:50 PM	<b>Designing, Fabricating and Installing a Chemical Feed Systems for Your Application</b> <i>Tommy Hartwig, D&amp;H Water Systems Inc.</i>		3712
3:00 PM – 3:50 PM	<b>Extending the Bed Life of Existing Arsenic Adsorbent Systems: A Full-Scale Case Study</b> <i>Tommy Hartwig, D&amp;H Water Systems Inc.</i>		3812

7:00 AM - 7:30 AM - JAVA JOLT



## HANG ON TO YOUR BADGE

ONCE THE SEMINAR IS OVER, YOU WILL NEED YOUR  
CONFIRMATION NUMBER TO RETRIEVE YOUR PDH CERTIFICATE.

#20  
TruGrit Traction Inc  
1/4V  
1st Half

#5  
Miscowater  
1/4V