

HEBER PUBLIC UTILITY DISTRICT

REPORT TO BOARD OF DIRECTORS

MEETING DATE: June 16, 2022

FROM: Laura Fischer, General Manager

SUBJECT: Approve Out of State Travel to Attend Tri-State Training in Las Vegas, Nevada

ISSUE:

Shall the Board of Directors approve the out of state travel to Las Vegas, Nevada by three of our HPUD Water/Wastewater Operators?

GENERAL MANAGER'S RECOMMENDATION:

It is recommended that the Board of Directors approve the out of state travel.

FISCAL IMPACT:

Not to exceed budgeted amount of \$3,575, which is included in the FY 2022-23 budget.

DISCUSSION:

According to the adopted Policy Manual, all out of state travel must be approved by the Board of Directors. The FY 2022-23 budget includes funds for staff to attend the Tri-State Training held each year in Las Vegas. This training is an inexpensive training for HPUD operators to earn the necessary continuing education credits required to maintain their Operator Water and Wastewater Certificates.

The Tri-State Seminar provides training and certification classes for safety, water, wastewater and stormwater industry professionals from California, Nevada, and Arizona. Technical sessions and workshops are tailored to help each attendee learn about new techniques, regulations, and advancements within each industry.

CONCLUSION:

As all out of state travel must be approved by the Board of Directors this item is before you. As the training is included in the FY 2022-23 budget this item was placed on the consent agenda.

Respectfully Submitted,

Laura Fischer,
General Manager

TECHNICAL PROGRAM

TUESDAY, AUGUST 9, 2022

MAINTENANCE	Dave Badgley, Chair	Jason Badgley, Co-Chair	SHOWROOM	SESSION
7:30 AM – 8:20 AM	Acoustical, Visual, and Tonar (TPA) Water Pipe Condition Assessment – <i>Heath Kelsey, Pipeline Diagnostic Services</i>			1106
8:30 AM – 9:20 AM	How to Differentiate Between Cast Iron and Ductile Iron Pipe – <i>Josh Blount, Ductile Iron Pipe Research Association</i>			1206
9:40 AM – 10:30 AM	Overview of Classic and the New State of the Art Pipeline Rehabilitation – <i>David Badgley, Badgley & Associates</i>			1306
10:40 AM – 11:30 AM	2 Paralell 24" Mains Rehabilitated While Navigating Through 45° and 90° Bends – <i>Jeff Coffman, Primus Line</i>			1406
1:00 PM – 1:50 PM	Demands for High Performance Specialty Coatings – <i>Gregory Wallace, Imerys</i>			1506
2:00 PM – 2:50 PM	Recent Developments With Composite Manhole Covers Help Solve a Leading Cause of Water Pollution – <i>Chad Nunnery, Composite Access Products</i>			1606
3:00 PM – 3:50 PM	Hydraulic Odor, Corrosion, and Aeration Control in Water & Sewer Applications – <i>Kerry Koressel, IPEX USA, LLC</i>			1706
WASTEWATER COLLECTION	Robert Wooten, Chair	Brandon Martinez, Co-Chair	GRAND BALLROOM B	SESSION
7:30 AM – 8:20 AM	Looks Like A Gusher! Air Release Valve (ARV) Preventative Maintenance – <i>Jonathan Sorrells, Town of Gilbert</i>			1102
8:30 AM – 9:20 AM	Why Do I Have So Many Different Nozzles On My Truck? Applying the Right Nozzle for the Right Job – <i>Scott Hall, AWWI</i>			1202
9:40 AM – 10:30 AM	Analyzing CCTV Inspection of Vitrified Clay Pipe – <i>Kent Carlson, National Clay Pipe Institute</i>			1302
10:40 AM – 11:30 AM	Odor/Corrosion Control: A System Owners Guide to Award Winning Success – <i>Vernon Vasquez, V&V Enterprise, LLC</i>			1402
1:00 PM – 1:50 PM	Davis Forcemain Condition Assessment: Finding Out Enough to Take Action <i>Christopher Ewers, Ewers Engineering, Inc.; John Alexander, City of Davis, CA</i>			1502
2:00 PM – 2:50 PM	What's That Smell? Advanced H2S Monitoring Pinpoints Problematic Sites and Optimizes Chemical Dosing – <i>Brogan Quist, Smart Cover Systems; Rudy Daniels, Pima County, AZ</i>			1602
3:00 PM – 3:50 PM	Challenges of Large Diameter Pipe Cleaning – <i>Tom Edwards, Duke's; Mark Barnett, Duke's</i>			1702
WASTEWATER TREATMENT	LeAnna Rizzo, Chair	Sidney Innerebner, Co-Chair	SONOMA C & D	SESSION
7:30 AM – 8:20 AM	Winning the War Against Wipes – <i>Georgie Ryan, JWC Environmental</i>			1110
8:30 AM – 9:20 AM	Headworks – Our First Line of Defense. 5 Critical Factors for a Successful and Resilient Headworks – <i>Wes Cardwell, Garver</i>			1210
9:40 AM – 10:30 AM	Anaerobic Digestion: Back to Fundamentals Part 1 – <i>Sidney Innerebner, Indigo Water Group</i>			1310
10:40 AM – 11:30 AM	Anaerobic Digestion: Back to Fundamentals Part 2 – <i>Sidney Innerebner, Indigo Water Group</i>			1410
1:00 PM – 1:50 PM	A View Beneath the Surface – <i>Steve Leach, Leach Microbial Consulting</i>			1510
2:00 PM – 2:50 PM	Evaluation of Infiltration Basin Operations on Groundwater Quality at Indian Springs, NV – <i>Gavin Kistingner, Southern Nevada Water Authority (SNWA); James Prieur, Southern Nevada Water Authority (SNWA)</i>			1610
3:00 PM – 3:50 PM	Use It Or Lose It? Biosolids Management Over the Long Haul – <i>John Richardson, Garver</i>			1710
WATER DISTRIBUTION	Ken Snow, Chair	Steve Davis, Co-Chair	GRAND BALLROOM A	SESSION
7:30 AM – 8:20 AM	Unintended Consequences of Water Conservation and Drought Measures – <i>Chris Castaing, San Diego County Water Authority</i>			1111
8:30 AM – 9:20 AM	Water Pipeline Strategy for Climate Change – <i>Takaaki Kagawa, Kubota; Takeshi Hara, Kubota</i>			1211
9:40 AM – 10:30 AM	Design-Build Booster Station Expansion in Buckeye, AZ <i>Ricardo Perez, Greeley and Hansen; Klete Rogers, J.R. Filanc Construction Company, Inc.</i>			1311
10:40 AM – 11:30 AM	Chemical Metering Pumps, Skid Systems, and Accessories – <i>Richard Hopkins, Blue-White</i>			1411
1:00 PM – 1:50 PM	Case Study: Seismic Retrofit on Existing 12" Ductile Iron Pipeline Installed by the City of Hayward, CA – <i>John Johnson, McWane Ductile</i>			1511
2:00 PM – 2:50 PM	Case Study: Design Considerations for the Las Vegas Boulevard Waterline Replacement Project – <i>Aric Farnsworth, Kimley-Horn & Associates; Ryan Pearson, Las Vegas Valley Water District</i>			1611
3:00 PM – 3:50 PM	Integrating Valve Inspections with Pipeline Inspections – <i>Britt Klein, Xylem, Inc.</i>			1711

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

9:20 AM - 9:40 AM - JAVA JOLT

11:30 AM - 1:00 PM - LUNCH

TECHNICAL PROGRAM

TUESDAY, AUGUST 9, 2022

ELECTRICAL/INSTRUMENTATION & CONTROLS		Peter Beaulieu, Chair	Heath Szymanski, Co-Chair	SONOMA B	SESSION
7:30 AM – 8:20 AM	Planning for Startup – Edward McDaniel, Jacobs Engineering				1114
8:30 AM – 9:20 AM	Ultrasonic vs Radar vs Laser in Pumping Station Applications – Addison Himes, ABB				1214
9:40 AM – 10:30 AM	Protecting Motors From Damage on PWM Systems – Mark Gaskill, Nidec Motor Corporation				1314
10:40 AM – 11:30 AM	Know the Level in Your Lift Station – Phil Colin, Flowline, Inc.; Michael Kennedy, California Environmental Controls, Inc.				1414
1:00 PM – 1:50 PM	Accurate and Reliable Level Measurement Doesn't Have to Be Hard or Expensive – Steve McCuskey, VEGA				1514
2:00 PM – 2:50 PM	Installing and Mapping Underground Infrastructure While Capturing GPS – Alyssa Dettloff, Subsite Electronics				1614
3:00 PM – 3:50 PM	Ensuring Reliable Data With Online Sensors – Benjamin Barker, YSI Inc, a Xylem brand				1714
ENVIRONMENTAL HEALTH/SAFETY & SECURITY		James Taylor, Chair	Tim Page-Bottorff, Co-Chair	NAPA A & B	SESSION
7:30 AM – 8:20 AM	Confessions of a Traveling Zombie – Tim Page-Bottorff, Total Safety Compliance				1108
8:30 AM – 9:20 AM	Accident Awareness and Loss Prevention – Rusty Nezat, Nezat Training and Consulting, Inc.				1208
9:40 AM – 10:30 AM	Active Shooter and Workplace Violence – Shayne Anderson, Eye On Safety				1308
10:40 AM – 11:30 AM	Gas Monitor Competence Training: The Big Hole in Confined Space Entry Training – Jason Call, TINOSI, Inc.				1408
1:00 PM – 1:50 PM	Improving Safety With Connected Safety Technology – Megan Irvine, Blackline Safety				1508
2:00 PM – 2:50 PM	What Municipalities Should Know About the OSHA Excavation and Trenching Standard – Kris Graham, United Rentals Trench Safety				1608
3:00 PM – 3:50 PM	OSHA Excavation and Trenching Standard – What Protective Systems Are Available for Municipalities or Contractors? – Joe Wise, United Rentals Trench Safety				1708
GROUNDWATER/RECHARGE		Geno Mammini, Chair	Don Hanson, Co-Chair	NAPA C & D	SESSION
7:30 AM – 8:20 AM	Well Development and Rehabilitation: Impacts on Well Efficiency and Water Quality – Part 1 – Mike Schnieders, Water Systems Engineering, Inc.; Edd Schofield, Johnson Screens				1104
8:30 AM – 9:20 AM	Well Development and Rehabilitation: Impacts on Well Efficiency and Water Quality – Part 2 – Mike Schnieders, Water Systems Engineering, Inc.; Edd Schofield, Johnson Screens				1204
9:40 AM – 10:30 AM	Well Infrastructure Renewal Program – Part 1 – Geoffrey Bates, California Water Service				1304
10:40 AM – 11:30 AM	Well Infrastructure Renewal Program – Part 2 – Geoffrey Bates, California Water Service				1404
1:00 PM – 1:50 PM	Rapid-High Resolution Zone-Testing for Groundwater Pilot Holes and Test Wells – Noah Heller, BESST, Inc.				1504
2:00 PM – 2:50 PM	Hopi Regional Water System: Planning, Design, and Construction – Jennifer Hill, Daniel B. Stephens & Associates				1604
3:00 PM – 3:50 PM	Importance of Re-Injection to a Desert Area – David Hilliard, GHD, Inc.; Joy Crutchfield, GHD, Inc.				1704
LABORATORY		Dana LaRance, Chair	John Shephard, Co-Chair	SONOMA A	SESSION
7:30 AM – 8:20 AM	TECTA B16: World's First Automated Microbiological Water Quality Testing System – Ryan Howard, Pathogen Detection Systems, Inc.				1103
8:30 AM – 9:20 AM	Nuisance Water Source Determination – Alex Albarran, City of Henderson; Rita Smith, City of Henderson				1203
9:40 AM – 10:30 AM	The Environmental Laboratory: Microbiological Analyses & Water Sample Collection Procedures – Part 1 – Marci Payne, Legend Technical Services of Arizona, Inc.				1303
10:40 AM – 11:30 AM	The Environmental Laboratory: Microbiological Analyses & Water Sample Collection Procedures – Part 2 – Marci Payne, Legend Technical Services of Arizona, Inc.				1403
1:00 PM – 1:50 PM	Enzymatic Methods for Testing Bacteria in Various Waters – Shawn Dubois, IDEXX Laboratories				1503
2:00 PM – 2:50 PM	Outrageous Laboratory Practices and Outlandish Assessment Findings – Michelle Wade, A2LA Work Place Training; Valerie Slaven, PDC Laboratories, LLC				1603
3:00 PM – 3:50 PM	QC Procedures for pH, DO, Chlorine (DPD Method), & Turbidity Analyses at In-House Laboratories – Peter Strimple				1703

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

9:20 AM - 9:40 AM - JAVA JOLT

11:30 AM - 1:00 PM - LUNCH

TECHNICAL PROGRAM

TUESDAY, AUGUST 9, 2022

STORMWATER	Jenn Davis, Chair	Jessica Gaffney, Co-Chair	GRANDVIEW LOUNGE	SESSION	7:00 AM - 7:30 AM - JAVA JOLT
7:30 AM – 8:20 AM	Cigarette Waste and the Waters of America – <i>Kenneth Beckstead, Cigarette Pollution Solutions</i>			1113	
8:30 AM – 9:20 AM	City of Las Vegas "Keep It Pristine" Storm Drain Artwork Project – <i>Sherri McMahon, City of Las Vegas; Myranda Bair, Artist & Educator</i>			1213	
9:40 AM – 10:30 AM	Stormwater as a Utility: A Case Study on Stormwater Rates – <i>Ed Schenk, Flagstaff Water Services</i>			1313	
10:40 AM – 11:30 AM	A New Day for Green/Multi-Benefit Stormwater Infrastructure in LA County – <i>Matt Frary, Los Angeles County Public Works</i>			1413	
1:00 PM – 1:50 PM	ADOTs MS4 Stormwater Sampling Program – <i>David Mack, ADOT Environmental Planning; Rebecca Sydnor, Wood PLC</i>			1513	
2:00 PM – 2:50 PM	Managing Stormwater in Real-Time During Repetitive Flood Disasters – <i>Ed Schenk, Flagstaff Water Services; Corryn Smith, Flagstaff Water Services</i>			1613	
3:00 PM – 3:50 PM	Stormwater Pressure Pipelines 101: What We Expect in Service Life and How to Check Them – <i>Christopher Ewers, Ewers Engineering, Inc.</i>			1713	



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Smith & Loveless
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TECHNICAL PROGRAM

WEDNESDAY, AUGUST 10, 2022

MAINTENANCE	Dave Badgley, Chair	Jason Badgley, Co-Chair	SHOWROOM	SESSION
7:30 AM – 8:20 AM	Are Your Water Tanks Capable of Surviving a Large Earthquake? You might Be Surprised. – Mark Moore, Blue Locker Commercial Diving			2106
8:30 AM – 9:20 AM	Integrating Valve Inspections With Pipeline Inspections – Britt Klein, Xylem Inc.			2206
9:40 AM – 10:30 AM	What You Need to Know About the Recent Changes in the Design and Assessment of Steel Water Storage Tanks – Leslie Scott, Tank Industry Consultants			2306
10:40 AM – 11:30 AM	Reducing Inflow, Infiltration, Corrosion, and Water Loss in Manholes Using State of the Art Methods – David Badgley, Badgley & Associates			2406
1:00 PM – 1:50 PM	Jeopardy: An Interactive Lesson on the Functions of Water and Wastewater Air Valves – Crystal Flitton, GSM Arizona			2506
2:00 PM – 2:50 PM	Epoxy Systems in the Water Processing Market and Their Solutions – Salvatore Parisi, ITW Performance Polymers			2606
3:00 PM – 3:50 PM	Predictive and Preventative Maintenance for Electric Motors – Don Taft, Valley Power Systems			2706
WASTEWATER COLLECTION	Robert Wooten, Chair	Brandon Martinez, Co-Chair	GRAND BALLROOM B	SESSION
7:30 AM – 8:20 AM	Increasing Production and Lowering Equipment Downtime – Rusty Nezat, Nezat Training and Consulting, Inc.			2102
8:30 AM – 9:20 AM	Wastewater Insepection Technologies – Complete Understanding of Your System – Matthew Olson, CUES, Inc.			2202
9:40 AM – 10:30 AM	Collection Line Strategies – Rick Allen, Biolyneus			2302
10:40 AM – 11:30 AM	Calibration & Bump Test Requirements for Direct Reading Portable Gas Monitors – Michael Calvo, Good for Gas Instrumentation			2402
1:00 PM – 1:50 PM	Flow, Pressure, and Care of the Rodder Hose – Carey Olcott, Haaker Equipment Company			2502
2:00 PM – 2:50 PM	Eliminating FOG and Odor in Collection Systems – Jim Dartez, Reliant Water Technologies			2602
3:00 PM – 3:50 PM	Events at Tuscany Lift Station – David McBride, City of Henderson; James Koloski, City of Henderson			2702
WASTEWATER TREATMENT	LeAnna Rizzo, Chair	Sidney Innerebner, Co-Chair	SONOMA C & D	SESSION
7:30 AM – 8:20 AM	Resource Recovery Success in Pima County, Arizona – Fernando Sarmiento, Greeley and Hansen; Bobby De Angelo, Pima County RWRD			2110
8:30 AM – 9:20 AM	Filaments and Other Settling Issues – Steve Leach, Leach Microbial Consulting			2210
9:40 AM – 10:30 AM	Optimizing Clarifiers: We Continue to Learn – John Esler, Clarifier Performance Evaluations, Inc.			2310
10:40 AM – 11:30 AM	Wastewater Surveillance of SARS-CoV-2 in Las Vegas – Dr. Edwin Oh, Univeristy of Nevada, Las Vegas			2410
1:00 PM – 1:50 PM	Coagulant/Polymer 101 – Fundamentals of Sedimentation and Dewatering – Yong Kim, UGSI Solutions, Inc			2510
2:00 PM – 2:50 PM	Saving Energy and Money Through Better Mixing – Alden Meade, Xylem			2610
3:00 PM – 3:50 PM	Lessons Learned on Odor Control Mangement in the Southwest – Ricardo Perez, Greeley and Hansen; Ray David, Greeley and Hansen			2710
WATER DISTRIBUTION	Ken Snow, Chair	Steve Davis, Co-Chair	GRAND BALLROOM A	SESSION
7:30 AM – 8:20 AM	Proactive Measures Taken to Prepare Goodyear Distribution System for New Surface Water Source – Joseph Chang, Jacobs			2111
8:30 AM – 9:20 AM	Managing Real-Time Customer Service Requests in a Mobile, Map-Based Software Solution – Sean Dingman, Websoft Developers, Inc.			2211
9:40 AM – 10:30 AM	Elements of an Effective Water Meter Replacement Program – Stephen Davis, Metering Technology Consultants			2311
10:40 AM – 11:30 AM	Learn How to Select, Size, and Install Waster Mters for Commercial and Industrial Applications – David Blakeney, Badger Meter Inc.			2411
1:00 PM – 1:50 PM	A Systemic Approach for Steel Storage Tank Condition Assessment: Inspection to Rehabilitation – Fariya Sharif, HDR, Inc; Hadley Habeck, HDR, Inc.			2511
2:00 PM – 2:50 PM	AWWA D102-21 Coating Systems for Tanks: Which Systems Offer Longest Service Life & Lowest Life-Cycle – Randy Moore, Tnemec Company, Inc.; Tug Ferguson, Southwest Coatings Specialists			2611
3:00 PM – 3:50 PM	Demystifying Satellite Leak Detection and the Value to Today's Water Utilities – Eric Trerotola, ASTERRA			2711

7:00 AM - 7:30 AM - JAVA JOIT

9:20 AM - 9:40 AM - JAVA JOIT

11:30 AM - 1:00 PM - LUNCH

TECHNICAL PROGRAM

WEDNESDAY, AUGUST 10, 2022

ELECTRICAL/INSTRUMENTATION & CONTROLS		Peter Beaulieu, Chair	Heath Szymanski, Co-Chair	SONOMA B	SESSION
7:30 AM – 8:20 AM	The Modern Water/Wastewater Control System Demystified: SCADA Basics for Users (Operators) – <i>Luke Stephenson, Enterprise Automation</i>				2114
8:30 AM – 9:20 AM	Practical Steps to Improve Your SCADA Cybersecurity Today – <i>Joe Hurley, Woodard & Curran</i>				2214
9:40 AM – 10:30 AM	How Industrial Ethernet Will Shape the Future of Water – <i>Nick Hanson, Endress+Hauser</i>				2314
10:40 AM – 11:30 AM	Dewatering Automation Using Predictive Controls – <i>Tony Guerra, Valmet</i>				2414
1:00 PM – 1:50 PM	Real-Time Pipeline Condition Assessment Using Artificial Intelligence and Internet of Things – <i>Tanmay Thakur, Nobel Systems; David Manuwa, Nobel Systems</i>				2514
2:00 PM – 2:50 PM	The Digital Transformation of Water and Wastewater – <i>Emily Kinloch, Atkins North America; Judy Kareck, Atkins North America</i>				2614
3:00 PM – 3:50 PM	The Future of AMI – 1 Minute Data – <i>Charlie Prosch, Metron Farnier</i>				2714
ENVIRONMENTAL COMPLIANCE/PRETREATMENT		Nicole deMoet, Chair	Towanda Heape, Co-Chair	NAPA C & D	SESSION
7:30 AM – 8:20 AM	Why Pretreatment Ordinances? – <i>Rick Allen, Biolynceus</i>				2107
8:30 AM – 9:20 AM	Case Study: FOG Grease Interceptor Replacement – <i>Joseph Jenkins, EEC Environmental</i>				2207
9:40 AM – 10:30 AM	Categorical Wastewater Discharge Permitting: Pretreatment Case Studies and Considerations – <i>Chelsea Weaver, City of Phoenix</i>				2307
10:40 AM – 11:30 AM	Synching Cross Connection and Pretreatment Programs – <i>Kathleen Garcia, City of Peoria</i>				2407
1:00 PM – 1:50 PM	PFAS: Mission 2022 and Beyond: Capture and Destroy – <i>Cathy Swanson, Puolite Corporation; Dan Teeters, Puolite Corporation</i>				2507
2:00 PM – 2:50 PM	Microplastics: An Emerging Contaminant of Concern – <i>Heather Jennings, Probiotic Solutions</i>				2607
3:00 PM – 3:50 PM	Leveraging Pretreatment Programs for One Water Initiatives: Findings From the Water Research Foundation – <i>Brynn Weeks, Carollo Engineers, Inc.</i>				2707
ENVIRONMENTAL HEALTH/SAFETY & SECURITY		James Taylor, Chair	Tim Page-Bottorff, Co-Chair	NAPA A & B	SESSION
7:30 AM – 8:20 AM	Understanding NFPA 70E Electrical Safety – <i>Ralph Stevens, Facilitation Unlimited</i>				2108
8:30 AM – 9:20 AM	Safely Managing My Contractors – <i>Stu Kempainen, Workplace Safety Specialists</i>				2208
9:40 AM – 10:30 AM	Sustainability Within Collection Systems: Methane Mitigation and Odor Control Programs – <i>Quinn Moss, Wevoqua Water Technologies; Nick Wagner, Manatee County Utilities</i>				2308
10:40 AM – 11:30 AM	Safety Leadership in Your Workplace – <i>Jon Cordoba, P3 Safety Solutions</i>				2408
1:00 PM – 1:50 PM	Navigating Risks Utilizing a Tailored Process – <i>Robert Delgado, Inland Empire Utilities Agency; Kenneth Monfore, Inland Empire Utilities Agency</i>				2508
2:00 PM – 2:50 PM	Overview of the OSHA Subpart AA Confined Space for Construction Standard – <i>Joe Wise, United Rentals Trench Safety</i>				2608
3:00 PM – 3:50 PM	Which Confined Space Standard Do I Follow? 1910 General Industry or 1926 Construction – <i>Kris Graham, United Rentals Trench Safety</i>				2708
STORMWATER		Jenn Davis, Chair	Jessica Gaffney, Co-Chair	GRANDVIEW LOUNGE	SESSION
7:30 AM – 8:20 AM	NDEP Construction Stormwater General Permit – Revision 2022 – <i>Kathryn Foxworthy, Nevada Division of Environmental Protection; Meghan Lyle, Nevada Division of Environmental Protection</i>				2113
8:30 AM – 9:20 AM	Construction Erosion and Sediment Control BMP Numeric Effluent Limits for TMDL Compliance – <i>Mark Grey, Construction Industry Coalition on Water Quality; Russ Foster, J. F. Shea Co., Inc.</i>				2213
9:40 AM – 10:30 AM	Basin Instincts: Post-Construction BMP Compliance and the Single-Family Residence – <i>Shawnetta Grandberry, City of Carlsbad</i>				2313
10:40 AM – 11:30 AM	The Long-Term Performance, Maintenance, and Operation of Stormwater LID BMPs – <i>Adrian Montoya, Riverside County Flood Control and Water Conservation District; Matt Yeager, Riverside County Flood Control and Water Conservation District</i>				2413
1:00 PM – 1:50 PM	You, Me, and Your QSP: A Municipal Perspective on Construction Site Compliance – <i>Shawnetta Grandberry, City of Carlsbad</i>				2513
2:00 PM – 2:50 PM	Streamlining Stormwater Compliance at Wastewater Treatment Facilities – <i>Abigail Sumanis, Clark County Water Reclamation District; AJ Rodrigues, Clark County Water Reclamation District</i>				2613
3:00 PM – 3:50 PM	Stormwater Pollution Prevention Techniques – <i>Thomas Owen, NPDES Stormwater Training Institute</i>				2713

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

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11:30 AM - 1:00 PM - LUNCH

TECHNICAL PROGRAM

WEDNESDAY, AUGUST 10, 2022

SURFACE WATER/WATER TREATMENT	Raj Chavan, Chair	Blake Gonska, Co-Chair	SONOMA A	SESSION
7:30 AM – 8:20 AM	Techniques for Verifying Inline Chlorine & Turbidity Analyzers at Surface Water Treatment Plants – <i>Peter Strimple, Inframark</i>		2112	7:00 AM - 7:30 AM - JAVA JOLT
8:30 AM – 9:20 AM	Disinfection Fundamentals & Technologies – <i>Kamrun Ahmadi, Stantec</i>		2212	
9:40 AM – 10:30 AM	Water Treatment 101: Beyond the Faucet – <i>Mark Elkouz, Atkins, North America; Raj Chavan, Atkins, North America</i>		2312	
10:40 AM – 11:30 AM	Why Mixer? The Key Benefits and Technology Behind Reservoir Mixing – <i>David Hartwig, D&H Water Systems; Clint Freeman, D&H Water Systems</i>		2412	
1:00 PM – 1:50 PM	Best Practices for Design and Operation of Chemical Feed Systems – <i>Andrew Snyder, D&H Water Systems</i>		2512	
2:00 PM – 2:50 PM	Active Tank Mixing – An Operator's Most Versatile Tool to Solve Drinking Water Quality Problems – <i>Kara Fritze, Kasco</i>		2612	
3:00 PM – 3:50 PM	The Basics of Carbon Dioxide Injection Methods & Equipment for pH Control – <i>Michael Dirth, TOMCO2 Systems</i>		2712	



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TECHNICAL PROGRAM

THURSDAY, AUGUST 11, 2022

MAINTENANCE	Dave Badgley, Chair	Jason Badgley, Co-Chair	SHOWROOM	SESSION
7:30 AM – 8:20 AM	8 Factors That Affect Pump Life – Water Lubricated – <i>Geoffrey Bates, California Water Service</i>			3106
8:30 AM – 9:20 AM	Spend Now Or Pay Later: A Good Preventative Maintenance Program Can Save You Money – <i>David Hilliard, GHD Inc.</i>			3206
9:40 AM – 10:30 AM	Troubleshooting and Maintaining Your Automatic Control Valve – <i>Jim Lugo, Watts Water Technology; Scott Allison, Delco Sales</i>			3306
10:40 AM – 11:30 AM	Material Considerations for Impressed Current Cathodic Protection Systems in the Water Industry – <i>Charlie Poore, MESA Products, Inc.</i>			3406
1:00 PM – 1:50 PM	Electronic O&M Manuals – A New Tool – <i>Deve Peterson, Jacobs Engineering Group, Inc.; Ryan Parenteaux, Jacobs Engineering Group, Inc.</i>			3506
2:00 PM – 2:50 PM	Never Gonna Turn You Off, Never Gonna Shut You Down: Maintaining Plant Operations During Construction – <i>Kyle Kruger, Garver USA</i>			3606
3:00 PM – 3:50 PM	Pipe & Well Rehabilitation: Muriatic Acid and Wishful Thinking Are Not Enough – <i>Steven Carl, Progressive Environmental Services</i>			3706
WASTEWATER COLLECTION	Robert Wooten, Chair	Brandon Martinez, Co-Chair	GRAND BALLROOM B	SESSION
7:30 AM – 8:20 AM	New Technologies Enabling Condition-Based Maintenance for Collection Systems – <i>Jon Borden, RH Borden and Company</i>			3102
8:30 AM – 9:20 AM	Innovative Bioaugmentation Technology for Fats, Oil, and Grease (FOG) Control in Wastewater Collection Systems – <i>Douglas Fagans, In-Pipe Technology</i>			3202
9:40 AM – 10:30 AM	Advanced Pipeline Inspection – <i>Stephanie Prescott, Jack Doheny Company; Kevin Kelly, Jack Doheny Company</i>			3302
10:40 AM – 11:30 AM	Improving CIPP Installation Quality Utilizing A Curing Monitoring System – <i>Michael Hoffmaster, Vortex Companies</i>			3402
1:00 PM – 1:50 PM	Emergency Sewer Force Main Design-Build Project With FRP Pipe – <i>Jeff LeBlanc, Thompson Pipe Group</i>			3502
2:00 PM – 2:50 PM	Examining Whether Depth-Only Monitors Can Effectively Measure Infiltration & Inflow (I&I) – <i>Jay Boyd, ADS Environmental Services</i>			3602
3:00 PM – 3:50 PM	Collection System Management Using a Mobile, Map-Base Software System – <i>Sean Dingman, Websoft Developers, Inc</i>			3702
WASTEWATER TREATMENT	LeAnna Rizzo, Chair	Sidney Innerebner, Co-Chair	SONOMA C & D	SESSION
7:30 AM – 8:20 AM	How Much Does Grit Cost You? – <i>Eric Tobin, Hydro International</i>			3110
8:30 AM – 9:20 AM	Biological Phosphorus Removal in a True Batch Sequencing Batch Reactor System – <i>Manuel de los Santos, Aqua-Aerobic Systems</i>			3210
9:40 AM – 10:30 AM	City of Surprise Consolidates Two Water Reclamation Facilities to Increase Operational Efficiencies – <i>Fernando Sarmiento, Greeley and Hansen; Johnny Cordova, Greeley and Hansen</i>			3310
10:40 AM – 11:30 AM	Coping With Struvite: Current Practice & A Novel Approach to Avoidance – <i>Lance Rodeman, BCR Environmental</i>			3410
1:00 PM – 1:50 PM	Three (3) Major Advantages of Disinfecting Wastewater in Closed Vessel UV Systems – <i>Patrick Bollman, Evoqua</i>			3510
2:00 PM – 2:50 PM	It Doesn't Have to Stink: Wastewater Odor Control 101 – <i>Ian Watson, USP Technologies</i>			3610
3:00 PM – 3:50 PM	Lessons Learned During a Major Maintenance Project at a Treatment Plant – <i>James Koloskie, City of Henderson; Brian Carlson, City of Henderson</i>			3710
WATER DISTRIBUTION	Ken Snow, Chair	Steve Davis, Co-Chair	GRAND BALLROOM A	SESSION
7:30 AM – 8:20 AM	New Technologies for Joining & Restraining Pipe – <i>Kenneth Alessi, Hymax a Mueller Brand</i>			3111
8:30 AM – 9:20 AM	The Basics of Line Stops, Hot Taps, Valve Insertions, and Pipe Freezing – <i>Steve Helm, Tap Master, Inc.</i>			3211
9:40 AM – 10:30 AM	Water Hammer and Transient Pressure Monitoring – <i>Frank Smith, Blacoh Industries</i>			3311
10:40 AM – 11:30 AM	Smart City Initiative: What Is It? More Than Just AMI? – <i>Richard Sanders, Zenner USA</i>			3411
1:00 PM – 1:50 PM	Smart Pressure Monitoring Yields Multiple Utility Benefits – <i>Chris Thompson, Sensus, a Xylem Brand; Dawn Groves, Sensus, a Xylem Brand</i>			3511
2:00 PM – 2:50 PM	Combining Smart Metering With Acoustic Leak Detection – <i>Martin Vaerum, Kamstrup Water Metering, LLC; Karen Siu, Kamstrup Water Metering, LLC</i>			3611
3:00 PM – 3:50 PM	Re-evaluating Water Meter Life Cycles – <i>Jase Warner, Elsinore Valley Municipal Water District</i>			3711

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

9:20 AM - 9:40 AM - JAVA JOLT

11:30 AM - 1:00 PM - LUNCH

TECHNICAL PROGRAM

THURSDAY, AUGUST 11, 2022

BACKFLOW PREVENTION	Nathan Ellis, Chair	Kevin Moran, Co-Chair	SONOMA B	SESSION
7:30 AM – 8:20 AM	Backflow Tester Certification Tips & Tricks – <i>Chris Castaing, San Diego County Water Authority</i>			3101
8:30 AM – 9:20 AM	Backflow Test Tracking Management Software Implementation – <i>Sean Dingman, Websoft Developers, Inc.</i>			3201
9:40 AM – 10:30 AM	Backflow Prevention Assembly Approval Process – Part 1 – <i>Henry Chang, University of Southern California</i>			3301
10:40 AM – 11:30 AM	Backflow Prevention Assembly Approval Process – Part 2 – <i>Henry Chang, University of Southern California</i>			3401
1:00 PM – 1:50 PM	Basics of Backflow and Detector Assemblies – <i>Sean Perry, Apollo Valves</i>			3501
2:00 PM – 2:50 PM	End to End Backflow Management for the City of Surprise – <i>Erin Mulligan, NJBSoft; Randy de la Garza, City of Surprise</i>			3601
3:00 PM – 3:50 PM	What Does an Operator Need to Know About Cross Connections and Backflow? – <i>Kenneth Ashlock, Cross Connection Environmental</i>			3701
ENVIRONMENTAL COMPLIANCE/PRETREATMENT	Nicole deMoet, Chair	Towanda Heape, Co-Chair	NAPA C & D	SESSION
7:30 AM – 8:20 AM	Liquid Gold Rush – Used Cooking Oil Theft and Its Collateral Environmental Impact – <i>Erik Anderson, Southern Nevada Health District</i>			3107
8:30 AM – 9:20 AM	Chromium VI: Best Treatment for Your Water – <i>Cathy Swanson, Puolite Corporation; Dan Teeters, Puolite Corporation</i>			3207
9:40 AM – 10:30 AM	Updated Review of PFAS – Regulatory and Technology Review – <i>Justin Smith, Probiotic Solutions</i>			3307
10:40 AM – 11:30 AM	But Is It Really A Categorical Facility? – <i>Michael Placencia, City of Riverside</i>			3407
1:00 PM – 1:50 PM	Connections – Current Issues Being Faced by the Largest Pretreatment Program West of the Mississippi – <i>Milton Boyd, Los Angeles County Sanitation District</i>			3507
2:00 PM – 2:50 PM	Understanding Pretreatment Compliance Inspections and Audits – <i>James Polek, USEPA Region 9</i>			3607
3:00 PM – 3:50 PM	EPA Pretreatment Update – <i>Amelia Whitson, USEPA Region 9</i>			3707
RECLAIM/REUSE	Frederick Tack, Chair	Coenraad Pretorius, Co-Chair	NAPA A & B	SESSION
7:30 AM – 8:20 AM	Reduced Life-Cycle Costs and Enhanced Sustainability of Wastewater Reuse Treatment Applications – <i>Brett Quimby, Aqua-Aerobic Systems</i>			3109
8:30 AM – 9:20 AM	Recycled Water Concerns and Challenges – <i>Randy de la Garza, City of Surprise</i>			3209
9:40 AM – 10:30 AM	Reverse Osmosis in Potable Water Reuse: Why Doesn't It Get the Credit It Deserves? – <i>Hannah Ray, Southern Nevada Water Authority; Eric Dickenson, Southern Nevada Water Authority</i>			3309
10:40 AM – 11:30 AM	Reuse Water Delivery: Doing More With Less – <i>Michael Bertrand, Town of Gilbert</i>			3409
1:00 PM – 1:50 PM	Pathogen Removal by a 10-Year Old Microfiltration Membrane Bioreactor – <i>Larry Morris, Kubota Membrane USA Corporation; Amos Branch, Carollo Engineers, Inc.</i>			3509
2:00 PM – 2:50 PM	Direct Potable Reuse (DPR) Demo Plant Brings Drought Resiliency and Efficiency with Organics Monitor – <i>Anik Chowdhury, Suez WTS; Steve Mungari, Suez WTS</i>			3609
3:00 PM – 3:50 PM	SoFi Stadium Multi-Functional Sustainable Water Resource Management System – <i>James Matthews, Pacific Advanced Civil Engineering; Andy Komor, Pacific Advanced Civil Engineering</i>			3709
SURFACE WATER/WATER TREATMENT	Raj Chavan, Chair	Blake Gonska, Co-Chair	SONOMA A	SESSION
7:30 AM – 8:20 AM	Zero2Waste® Gravity Filter Systems – Water ... Every Drop Counts! – <i>Mark Romers, Filter Magic</i>			3112
8:30 AM – 9:20 AM	Cryo-Thermal Desalination + – <i>Garold Hines, Watec Nevada</i>			3212
9:40 AM – 10:30 AM	Disinfection By-Products: Prevention and Treatment Optimization – <i>Matt Ogden, IXOM Watercare, Inc.; Harvey Hibel, IXOM Watercare, Inc.</i>			3312
10:40 AM – 11:30 AM	Arsenic Groundwater Remediation with In-Situ Electrogenerated Reagent – <i>Vladimir Dozortsev, Aqua Metrology Systems</i>			3412
1:00 PM – 1:50 PM	Considerations for Manganese Removal in Brackish RO Systems – <i>Robert Boysen, Garver; Caitlyn Ulrich, Garver</i>			3512
2:00 PM – 2:50 PM	Starting Up Goodyear's New Water Treatment Facility – Challenges & Opportunities with DBO Delivery – <i>Teresa Smith-DeHesus, Jacobs; Barbara Chappell, City of Goodyear</i>			3612
3:00 PM – 3:50 PM	Santan Vista WTP Ballasted Flocculation Expansion Project – <i>Brett Boissevain, WesTech Engineering, LLC</i>			3712

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

9:20 AM - 9:40 AM - JAVA JOLT

11:30 AM - 1:00 PM - LUNCH

TECHNICAL PROGRAM

THURSDAY, AUGUST 11, 2022

TOP OPS/LEADERSHIP	Brett Offerman, Chair	GRANDVIEW LOUNGE	SESSION	7:00 AM - 7:30 AM - JAVA JOLT
7:30 AM – 8:20 AM	The Critical Infrastructure No One Is Talking About – Interns – <i>Jordan Rodriguez, Stantec</i>		3105	
8:30 AM – 9:20 AM	When Leaders Get Better, Everyone Gets Better – <i>Gregory Potter, Sunrise Engineering, Inc.</i>		3205	
9:40 AM – 10:30 AM	The CSM Suite: Building Better Operators – <i>David Goldberg, SeeMore Impact Labs; Sidney Innerebner, Indigo Water Group</i>		3305	
10:40 AM – 11:30 AM	The Importance of Succession Planning for Utilities – <i>Michael McQuatters, City of Henderson; Robert Burgy, City of Henderson</i>		3405	
1:00 PM – 1:50 PM	Water & Wastewater Leadership in Department Operations Center – <i>Don Wasko, City of Carlsbad, Utilities & Emergency Services; Don Rawson, City of Carlsbad, Utilities & Emergency Services</i>		3605	
2:00 PM – 2:50 PM	Career Management and Interview 101 – <i>Chris Castaing, San Diego County Water Authority</i>		3705	
3:00 PM – 3:50 PM	"One Water": How Leadership From the Next Generation is Accomplishing Solutions to Our Water Issues – <i>Bill Dean, Poseidon Education</i>		3705	



HANG ON TO YOUR BADGE

ONCE THE SEMINAR IS OVER, YOU WILL NEED YOUR CONFIRMATION NUMBER TO RETRIEVE YOUR CEU INFORMATION.

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