

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

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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

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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	



HANG ON TO YOUR BADGE

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

1st Half
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Smith & Loveless
#26

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 Inseption 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	Synging 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
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

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



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Flow-N-Control
#48

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

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 CEU INFORMATION.

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