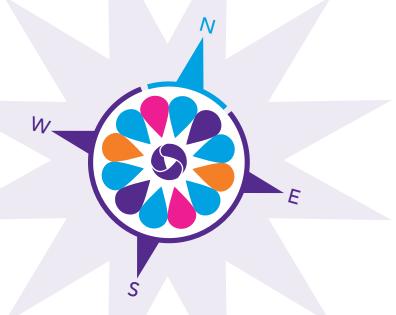


WateReuse SYMPOSIUM SHAPING OUR PAST & CHARTING OUR FUTURE



Welcome to the 37th Annual WateReuse Symposium

Dear Symposium Attendee:

The WateReuse Association and The Water Research Foundation are pleased to welcome you to the 2022 WateReuse Symposium! This year's theme, Water Reuse: Shaping Our Past & Charting Our Future, is a call to action for the water reuse community to apply available research and innovation to address the urgency of our changing Earth, including floods, fires, droughts, and pandemics.

Our Symposium kicks off with a keynote presentation from The Honorable Tanya Trujillo, Assistant Secretary for Water and Science in the United States Department of the Interior. Assistant Secretary Trujillo oversees the U.S. Geological Survey and Bureau of Reclamation and leads the Interior Department's efforts to address the country's worsening drought conditions.

San Antonio is a long-time leader in water reuse, and we invite you to learn from this city's accomplishments during locally focused tours, events, and plenary sessions. Beyond our strong foundation in Texas, this Symposium also takes an expanded look at water reuse in unexpected geographical locations. Join us for plenary sessions about different regional drivers and strategies, buildingscale water reuse innovations nationwide, and more.

This year, our program features nearly 70 hours of technical content and provides the opportunity for over 55 professional development hours. WateReuse and The Water Research Foundation continue to combine our strengths and bring you a comprehensive program that offers both practical approaches and theoretical considerations for the future of water recycling. You'll see an icon throughout the program that signifies which technical sessions align with Water Research Foundation projects, as well as which sessions align with National Water Reuse Action Plan efforts. You'll also see technical sessions demarcated by which project lifecycle phase they're most relevant to: Conceptual, Planning, Design & Construction, or Implementation & Operation.

We are overjoyed to see many of you joining us at this year's Symposium. For those participating in-person, please review our COVID-19 protocols at watereuse.org/COVID. We request that all attendees wear a mask while indoors at the Symposium. We are also excited to offer a robust on-demand virtual Symposium, available from March 21 through April 30, 2022.

Thank you again for your participation. Please do not hesitate to contact Symposium staff if you need any assistance throughout your Symposium experience. We look forward to seeing you again next March—in Atlanta, Georgia!



PATRICIA SINICROPI **Executive Director** WateReuse Association



PETER GREVATT Chief Executive Officer The Water Research Foundation

RESOURCES TO SUPPORT YOUR EXPERIENCE

PROFESSIONAL DEVELOPMENT

The 37th Annual WateReuse Symposium is pleased to offer Professional Development Hours (PDHs) for all states. It is the attendee's responsibility to follow up with state accreditation agencies to see whether you qualify.

How Do I Earn Educational Credits at the Symposium?

The 37th Annual WateReuse Symposium PDH/CEU request form is available at the registration desk. Please complete the form and return the form to the registration desk before the end of the Symposium.

When Will I Receive Credits for the Symposium?

Certificates will be emailed to participants within 3-4 weeks after the Symposium. It is the attendee's responsibility to submit the certificates to state accreditation agencies to request credit.

General Information

Terminology and education credit requirements and restrictions vary widely. All participants are responsible for checking with their license/certification authority to ensure that the WateReuse technical sessions meet specific requirements.

POWERPOINT PRESENTATIONS

A link will be emailed to all Symposium attendees at the conclusion of the conference for access to the Power-Point presentations.

GUIDE TO WATEREUSE SYMPOSIUM TECHNICAL SESSIONS WRF WRAF **PROJECT PROJECT PROJECT PROJECT ALIGNS ALIGNS** PHASE: PHASE: PHASE: PHASE: WITH: WITH: CONCEPTUAL **PLANNING DESIGN & IMPLEMENTATION NATIONAL** THE WATER & OPERATION **RESEARCH** CONSTRUCTION **WATER REUSE ACTION PLAN FOUNDATION EFFORTS EFFORTS**

9:00 pm - 1:00 pm	TOUR OF STEVE CLOUSE WATER RECYCLING CENTER SPONSOR: ARCADIS				
1:00 pm -	INNOVATION IN REUSE SALON JK Multi-point Ozone	ACHIEVING TREATMENT REMOVAL SALON LM Moderator: Martin Rumbaugh, AECOM A Scientific	WORKSHOP	WORKSHOP	
3:00 pm	Dissolution for Bromate Control & Trace Contaminant Oxidation Robert Pearce, Virginia Tech	Evaluation of Pathogen Removal Credits in MAR Systems Tanja Rauch-Williams, Carollo Engineers	DEVELOPING A NATIONWIDE WATER REUSE RESEARCH ROADMAP SALON CD Presented by The Water Research Foundation WRF Speakers: Shane Trussell, Trussell Tech; Vijay Sundaram, AECOM; Erin Mackey, Brown & Caldwell; Troy Walker, Hazen and Sawyer; Andy Salveson, Carollo; Eva Steinle-Darling, Carollo; Trent Stober, HDR Facilitators: Greta Zornes, CDM; Samir Mathur, CDM; Jean Debroux, Kennedy Jenks; Jeff Mosher, SAWPA; Steve Katz, Suez; Chris Hill, AECOM; Brian Pecson, Trussell Tech; Denise Funk, Brown & Caldwell; Zeynep Erdal, Black & Veatch; Greg Wetterau, CDM; Dave Smith, Water Innovation Services/US EPA (retired); Rob McCandless, Brown & Caldwell; Erin Messner, AWWA; Pinar Balci, NYDEP; Aliza Furneaux, WateReuse; Haley Falconer, City of Boise; Julie Minton, WRF; Katie Spahr, WRF;	WATER REUSE 101 – BOOTCAMP SALON AB Sponsored by Carollo Moderator: Ellen McDonald, Plummer What is Reuse? Eva Steinle-Darling, Carollo Determining Need Juan Gomez, San Antonio Water Systems Paying for Reuse Collins Balcombe, BOR Reuse Regulations Ellen McDonald, Plummer Case Studies Tracy Clinton, Carollo Building Public Support Christina Montoya, El Paso Water	
	On-Site Residential Graywater Reuse in San Francisco Apartment Building Jeff Danner, Innovatreat Data Analytics Practices for Efficient Water and Wastewater Management Guy Meiri, IOSight	Enhancing 1,4-Dioxane Removal with Co-Metabolic Biofiltration for Potable Reuse Hannah Stohr, Hampton Roads Sanitation District			
3:00 pm - 3:30 pm	NETWORKING BREAK SPONSOR: DIGITAL REALTY		Erin Partlan, WRF; Lyndsey Bloxom, WRF		

SUNDAY, MARCH 6

ACHIEVING TREATMENT REMOVAL

SALON LM

Moderator: Bohdan Bodniewicz, **AECOM**

3:30 pm -5:00 pm

WWTP Effluent Reuse: Multibarrier Ozonation & **Ceramic Membrane Filtration**

Martin Spruijt, **PWN Technologies**



More is Better: Potable Reuse Pilot Study to **Maximize Water Production** with FRRO

Ronit Erlitzki, Chart Industries; Megan Plumlee, Orange County Water District



Microbial Community Structure and Dynamics in Ozone-BAC System for Potable Reuse

Sunayna Dasgupta, American Water Works Service Company Inc; Dr. Zia Bukhari, American Water Works Service Company Inc.



WORKSHOP

DEVELOPING A NATIONWIDE WATER REUSE RESEARCH ROADMAP

SALON CD

Presented by The Water Research Foundation



Speakers:

Shane Trussell, Trussell Tech; Vijay Sundaram, AECOM; Erin Mackey, Brown & Caldwell: Troy Walker, Hazen and Sawyer; Andy Salveson, Carollo; Eva Steinle-Darling, Carollo; Trent Stober, HDR

Facilitators:

Greta Zornes, CDM; Samir Mathur, CDM; Jean Debroux, Kennedy Jenks; Jeff Mosher, SAWPA; Steve Katz, Suez; Chris Hill, AECOM; Brian Pecson, Trussell Tech; Denise Funk, Brown & Caldwell; Zeynep Erdal, Black & Veatch; Greg Wetterau, CDM; Dave Smith, Water Innovation Services/US EPA (retired): Rob McCandless, Brown & Caldwell; Erin Messner, AWWA; Pinar Balci, NYDEP; Aliza Furneaux, WateReuse; Haley Falconer, City of Boise; Julie Minton, WRF; Katie Spahr, WRF;

WORKSHOP

WATER REUSE 101 -**BOOTCAMP**

SALON AB

Sponsored by Carollo

Moderator: Ellen McDonald, Plummer

What is Reuse?

Eva Steinle-Darling, Carollo

Determining Need

Juan Gomez, San Antonio Water Systems

Paying for Reuse

Collins Balcombe, **BOR**

Reuse Regulations

Ellen McDonald, Plummer

Case Studies

Tracy Clinton, Carollo

Building Public Support

Christina Montoya, El Paso Water

5:30 pm -7:00 pm

WELCOME RECEPTION: WELCOME TO TEXAS

SPONSORS: EL PASO WATER, FREESE AND NICHOLS, GULF COAST AUTHORITY, PLUMMER, TRINITY RIVER AUTHORITY OF TEXAS, & WATEREUSE TEXAS

Erin Partlan, WRF; Lyndsey Bloxom, WRF

MONDAY, MARCH 7

8:00 am -10:00 am

OPENING GENERAL SESSION - SALON IG

SPONSORED BY AECOM

Light Breakfast and Welcome

Craig W. Lichty P.E., Vice President, Client Director, Black & Veatch, WateReuse President

Keynote Presentation

The Honorable Tanya Trujillo, Assistant Secretary for Water and Science, United States Department of the Interior

Panel Discussion

Water Reuse & Integrated Planning – The San Antonio Story: Exploring the Drivers, Benefits, and Challenges of a One Water Strategy

Moderator: Craig W. Lichty P.E., Vice President, Client Director, Black & Veatch, WateReuse President Melissa Bryant, P.E., Director of Technical Services, San Antonio River Authority

Erika Crespo, Assistant Deputy Director of the Water Quality Division, Texas Commission on Environmental Quality Gregg Eckhardt, Senior Analyst, San Antonio Water System

Nefi Garza, P.E., Assistant Director of Public Works, City of San Antonio

10:00 am -10:30 am

NETWORKING BREAK

SPONSOR: JACOBS

RETHINKING WATER'S FOOTPRINT

SALON AB

Emily O'Morrow, Brown & Caldwell

FROM POLICY TO PRACTICE: WATER REUSE **GUIDANCE & MORE**

SALON CD

Moderator: Alex Franchi, AECOM

INNOVATION IN POTABLE REUSE

SALON JK

Dave Ebersold, CDM

ADVANCING **COMMUNITY REUSE**

SALON LM

Moderator: Jim Pembroke, **HDR**

10:30 am -12:00 pm

Tackling Water Conservation, Quality & Policy Evolution with District Reuse

Pinar Balci, NYCDEP: Bonnie Campbell, Two Trees; Alan Cohn, NYCDEP; Zach Gallagher, Natural Systems Utilities; Rick Petrosino, Natural Systems Utilities



T-minus 10 & Counting: Navigating Florida's Elimination of **Surface Discharges**

Moderator: Robert Beltran, Dewberry

David Ammerman, Altamonte Springs; Laura Donaldson, Manson Bolves; Donaldson Varn; Nory Hancock, Pinellas County; Lynn Spivey, Plant City; Bart Weiss, Hillsborough County; Wayne Young, JEA (invited); Tamara Richardson, Polk County (invited);



The Future of Potable Reuse Using KPIs

Mahmudul Hasan, George Washington University; Stephen Katz, Suez; Justin Mattingly, EPA; Jeff Mosher, Santa Ana Watershed Project Authority; Kristin O'Neill, Stantec; Michael Watts, Garver



Innovation in Florida WateReuse: Palm Beach County's Green Cay Project

Dave MacNevin, CDM Smith



Benefits of a Large-Scale **Recycled Water Project**

Bruce Chalmers, Metropolitan Water District of Southern California



Anne Arundel County, MD -Our wAAter Program: Advanced Water Treatment for MAR

Christina Alito, HDR; George Heiner, Anne Arundel County, Maryland Department of **Public Works**



MONDAY, MARCH 7

12:00 pm -1:30 pm

WATEREUSE ANNUAL BUSINESS MEETING & LUNCHEON PLENARY - SALON IG

SPONSORED BY STANTEC

WateReuse Association Business Meeting

Craig W. Lichty P.E., Vice President, Client Director, Black & Veatch, WateReuse President State of the Association Patricia Sinicropi, Executive Director, WateReuse Association

Different Drivers, Different Strategies: Water Reuse in New Places

Karen Pallansch, Chief Executive Officer, Alexandria Renew Enterprises (Moderator) Jeff Glass, Diretor of Public Works, City of Westminster, Maryland (invited) Greg Goodwin, Applied Research Consultant, Bluefield Research David Niesse, Technical Services Officer, ReWa - Renewable Water Resources, South Carolina Brian Perkovitch, Executive Director, Metropolitan Water Reclamation District of Greater Chicago

Rusty Smith, Director of the Texas Produced Water Consortium

RETHINKING WATER'S FOOTPRINT

SALON AB

Aaron Tartakovsky, Epic CleanTech

FROM POLICY TO PRACTICE: WATER REUSE **GUIDANCE & MORE**

SALON CD

Moderator: Trent Stober, **HDR**

INNOVATION IN POTABLE REUSE

SALON JK

BUILDING PARTNERSHIPS THROUGH COMMUNITY ENGAGEMENT. EDUCATION, **& FINANCING**

SALON LM

Moderator: Jaime Kypuros, Tetra Tech

1:45 pm -3:15 pm

Water Reuse for Corporate Campus in Austin, TX

Katherine Jashinski, Austin Water; Eric Lohan. Sustainable Water/ NextEra Energy; Bob Salvatelli, NextEra Distributed Water



Advancing Water Reuse through Policy: Implementation of the Bipartisan Infrastructure Law

Deidre Finn, CIFIA; Greg Fogel, WateReuse Association; Justin Mattingly, U.S. EPA; Yuliana Porras-Mendoza, Bureau of Reclamation



Compilation & Synthesis

of US State Water Reuse

Regulations Sharon Nappier, EPA





When IPR Is Not Enough

Roshan Aflaki and Greta Zornes, CDM Smith; Bruce Chalmers, Metropolitan Water District of Southern California; Anselmo Collins, Los Angeles Department of Water and Power; Lynn Spivey, Plant City



Bumpy Road or Smooth Ride? Strategies for Mobile **DPR Demonstrations**

Jason Assouline, Carollo Engineers; John Rehring, Carollo Engineers



Building (& Rebuilding) Trust with Boise's **Recycled Water Program**

Royce Davis, City of Boise; Melanie Holmer, Brown and Caldwell; Natalie Monro. City of Boise



Raise a Glass to **Potable Reuse**

Patrick Dube. Water Environment Federation



	RETHINKING WATER'S FOOTPRINT SALON AB Moderator: Jeff Hansen, HDR	FROM POLICY TO PRACTICE: WATER REUSE GUIDANCE & MORE SALON CD Moderator: Patrick Regan, DuPont	INNOVATION IN POTABLE REUSE SALON JK Moderator: Kathleen Peach, Suez	DIGITAL INNOVATIONS SALON LM
3:45 pm - 5:15 pm	Case-Studies: Improving Industrial Water Footprints with Reuse Christopher Kramer, JEA; Amelia Luna, Sherwood Engineers; Ken Martins, Stantec; Patrick Regan, DuPont Water Solutions; Bob Salvatelli, NextEra Distributed Water	Partnering: Accelerating Regional Integrated Water Management Solutions Blaga Delic, AECOM; Ralph Exton, Suez Water Technologies and Solutions; Haley Falconer, City of Boise; Jon Freedman, SUEZ Water Technologies and Solutions; Jeff Mosher, Santa Ana Watershed Project Authority; Lydia Teel, Truckee Meadows Water Authority; Rick Warner, Warner and Associates	Approach to Implement the World's Largest Potable Reuse System – Hyperion 2035 Amos Branch, Carollo Engineers; Hubertus Cox, LASAN; Nasir Emami, LASAN; Zakir Hirani, Stantec; Roland Pilemalm, Carollo Engineers; Andrew Salveson, Carollo Engineers; Rueren Yu, Stantec	Cybersecurity Barriers to Innovation: Addressing Risk & Innovation for Reuse Sponsored by Hazen and Sawyer and Zivaro Ben Stanford, Hazen and Sawyer; Dan Weiske, Zivaro; Kevin Morley, AWWA; Mehul Patel, Orange County Water District



TUESDAY, MARCH 8

7:30 am -9:00 am

AWARDS BREAKFAST AND PLENARY SESSION - SALON IG

Annual WateReuse Awards for Excellence

Craig W. Lichty P.E., Vice President, Client Director, Black & Veatch, WateReuse President

Water Reuse Leaders Panel

Steve Johnson, Senior Vice President, Director of Strategy and Growth, AECOM Global Water Heather Polinsky, Resilience Global President, Arcadis

Dave Ross, Partner, Troutman Pepper

Karine Rouge, CEO Municipal Water, Veolia North America

Joseph P. Vesey, Senior Vice President & Chief Marketing Officer, Xylem

Cindy Wallis-Lage, Executive Director, Black & Veatch

INNOVATION IN POTABLE REUSE

INNOVATIVE APPROACHES TO WATER RECYCLING

OPTIMIZING TREATMENT, OPERATIONS, & MORE

SALON JK

9:00 am -10:00 am

Bureau of Reclamation **Advanced Water Treatment** Research Roadmap

Yuliana Porras Mendoza, Bureau of Reclamation





One Water: What Does It Mean to You?

Moderator: Sara Katz, Katz & Associates

Daniel Nix, City of Wichita Falls; Paula Paciorek, City of Houston; Kevin Critendon; Austin Water; Sam Marie Hermitte; Texas Water Development Board; Peter Grevatt, The Water Research Foundation



Innovation in Oxidation for Reuse: A Seamless Pipeline

Erin Mackey, Brown and Caldwell; Christina Morrison, Southern Nevada Water Authority; Erin Partlan, Water Research Foundation; Eric Wert, Southern Nevada Water Authority; Andrea White, Moleaer





Off the Roof: Measuring Microbial Characteristics of **Roof Runoff**

Jumana Aljafari, Colorado State University



Quantitative Relative **Chemical Assessment:** Filling the Gap

Melanie Holmer, Brown and Caldwell; Christopher Jones, Brown and Caldwell;



Evaluation of the Key Factors Impacting DPR **Treatment & Risk**

Anya Kaufman and Brian Pecson, Trussell Technologies; Adam Olivieri, EOA, Inc.





10:00 am -**NETWORKING BREAK** 10:30 am

SPONSOR: NEXTERA DISTRIBUTED WATER

TUESDAY, MARCH 8

INNOVATION IN POTABLE REUSE

INNOVATIVE APPROACHES TO WATER RECYCLING

OPTIMIZING TREATMENT, OPERATIONS, & MORE

ASSESSING RISK

10:30 am -12:00 pm

Preliminary Design & Cost Estimate of a **Direct Potable Reuse** Plant in AZ

Alyssa Aligata, Bureau of Reclamation



Risk-Based Guidance for Onsite Non-Potable Reuse: **Progress & Opportunities**

Jay Garland, EPA; Kerry Hamilton, Arizona State University; Michael Jahne, EPA; Anya Kaufman, Trussell Technologies; Sybil Sharvelle, Colorado State University





Demonstrating Greater LRVs Across NF & RO Membranes-Results from WRF 4958

Hannah Ray, Southern Nevada Water Authority; Han Gu, Orange County Water District; James Vickers, Separation Processes, Inc.; Jason Assouline, Carollo Engineers; Megan Plumlee, Orange County Water District; Eric Dickenson, Southern Nevada Water Authority; Chris Bellona, Colorado School of Mines; Tom Seacord,





Carollo Engineers

Quantitative Microbial Risk Assessment of Water Reuse

Karla Mendez, UTHealth Houston School of Public Health



Los Angeles' Headworks **DPR Project:** Implementing **Direct Potable Reuse**

Erik Avila and Brianna Plancarte, Los Angeles Department of Water and Power



Identifying WRRF Impacts on AWT Performance (WRF 4833 Module A)

> Kelly Landry, Hazen and Sawyer





Effective Online Microbial Monitoring for **Onsite Water Reuse**

Sheng Chu and Zach Gallagher, Natural Systems Utilities; Cody Ray, LuminUltra Technologies, Ltd



EEM-PARAFAC -**Monitoring Organic Matter** Through the Potable Water Cycle

Katherine Bell, Brown and Caldwell





TUESDAY, MARCH 8

12:15 pm -1:30 pm

PLENARY LUNCHEON - SALON IG

Onsite Water Reuse Systems Showcase: Building-Scale Innovation that Benefits the Entire Community

Facilitator: Greta Zornes, Water Reuse Practice Leader, CDM Smith

Wendy Broley, Vice President, Brown and Caldwell

Kevin Critendon, Assistant Director, Environmental, Planning and Development, Austin Water

Zach F. Gallagher, PE, LEED AP, President & COO, Natural Systems Utilities

Bob Salvatelli, Director, Water Origination, NextEra Distributed Water (formerly Sustainable Water)

Drew Wenzel, District Systems Water Lead, Google Real Estate

INNOVATIVE APPROACHES TO WATER **RECYCLING**

OPTIMIZING TREATMENT, OPERATIONS, & MORE

COLLABORATING IS KEY

NAVIGATING EVOLVING

1:45 pm -3:15 pm

Advancing Stormwater Capture & Use Policy, Research, & Action Priorities

Justin Mattingly, EPA: Dave Smith, Water Innovation Services/ US EPA (retired)

Reuse as a Water Quality

Compliance Strategy: Challenges & Opportunities Scott Mansell, Clean Water Services





Demonstration of an **MBR-RO Based Treatment** Train for Regional Reuse

Amos Branch, Carollo Engineers; George Di Giovanni, Metropolitan Water District of Southern California; Lysa Gaboudian, Los Angeles County Sanitation District; Zakir Hirani, Stantec; Joyce Lehman, Metropolitan Water District



of Southern California

Increasing Water Resiliency through Collaboration in **North Central Texas**

Glenn Clingenpeel, Trinity River Authority; Ellen McDonald, Plummer: R.J. Muraski, North Texas Municipal Water District; Denis Qualls, City of Dallas Water Utilities; Nicole Rutigliano, Tarrant Regional Water District; Shannon Spurlock,

Ochotona





Comparison of Potable Reuse Regulations and Impacts to Project Implementation

> Larry Schimmoller, Jacobs



Permitting a **Potable Reuse** System in the Midst of Regulatory Change in Florida

> Jo Ann Jackson, Black & Veatch; Ryan Popko, **JEA**



Collaboration in Action: Colorado DPR **Rulemaking Process**

Austa Parker, Brown and Caldwell



3:15 pm -3:45 pm

NETWORKING BREAK

TUESDAY, MARCH 8 **INNOVATIVE APPROACH-COLLABORATING NAVIGATING EVOLVING** OPERATIONS, IS KEY **REGULATIONS ES TO WATER RECYCLING** 3:45 pm -**Evidence from Consumer Operational Considerations** Multi-Agency Making Reuse Work -NPDES Permit Case Willingness-to-Pay Studies: & Insights for Reliable CBAT Reuse Programs: Lessons for 5:15 pm New Approaches to Successful Studies for EPA Robert Angelotti, Water Reuse Collaboration WRAP Action Item 2.2.6 Upper Occoquan Service Sara Katz, Authority; Felicia Marcus, Melanie Holmer, Katz and Associates; Gayathri Ram Mohan, Stanford University; Brown and Caldwell; Maik Kecinski, Eric Rosenblum, Emily Remmel, Gwinnett County DWR; Envirospectives; NACWA; University of Germano Salazar-Benites, Delaware; David Smith. Patricia Whitby, Hampton Roads Kent Messer, Water Innovation Services/ Brown and Caldwell Sanitation District; USEPA (retired); University of Vijay Sundaram, Delaware; Shannon Spurlock, AECOM; Mark Millan, Ochotona Lydia Teel, Data Instincts Truckee Meadows Water Authority **Produced Water Reuse** Efforts in Support of the **National Water Reuse Action Plan** Mike Hightower, New Mexico Produced Water Research Consortium Regulatory Challenges for Reuse of Produced Water via Land Application Amy Hardberger, Texas Tech University; Nichole Saunders, Environmental Defense Fund AN EVENING AT KNIBBE RANCH 6:30 pm -9:00 pm **VENUE SPONSOR: XYLEM** FIREWORKS SPONSOR: MCCARTHY **BUS SPONSOR: SUNDT** MUSIC SPONSOR: NACWA

WEDNESDAY, MARCH 9

8:00 am -8:45 am

BREAKFAST PLENARY SESSION - SALON IG

Bart Weiss, Chief Officer, Innovation and Resiliency, Hillsborough County Public Utilities (Florida), and Vice President, WateReuse Board of Directors

The Federal Government's Role in Promoting Reuse

Sharon Nappier, PhD, MSPH, National Program Leader for Water Reuse, US EPA - Office of Water Yuliana Porras-Mendoza, Advanced Water Treatment Research Coordinator, Bureau of Reclamation Martin Page, Operational Water Research Team Leader, Department of Defense

8:50 am -9:00 am

REPORT OUT: WRAP ACTION 2.2, REGULATOR STATE SUMMIT PLANNING - SALON IG

9:05 am -11:45 am

CLOSING SESSION - SALON IG

SPONSORED BY CDM SMITH

Reuse in the One Water Research Portfolio

Peter Grevatt, Chief Executive Officer, The Water Research Foundation

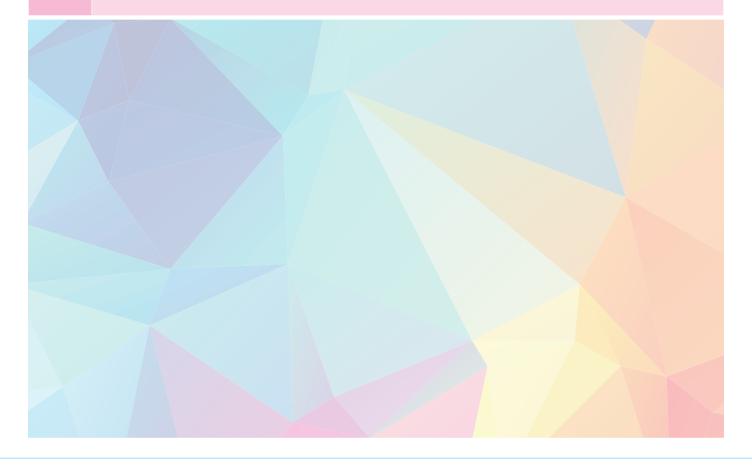
Running Towards the Hard Topics: Capturing and Communicating the Resiliency and Equity Value of Water Reuse

Facilitator: H.G. Chissell, Founder and Chief Executive Officer, Advanced Energy Group Steven Clouse, Senior Vice President & Chief Operating Officer, San Antonio Water System Sharon Nappier, National Program Leader for Water Reuse, U.S. Environmental Protection Agency

Deven Upadhyay, Chief Operating Officer and Assistant General Manager, Metropolitan Water District of Southern California

Closing Remarks

Bart Weiss, Chief Officer, Innovation and Resiliency, Hillsborough County Public Utilities (Florida), and Vice President, WateReuse Board of Directors



SAVE BDATE MARCH 4-8, 2023



