

WaterReuse Annual Symposium Detailed Schedule

Sunday, March 6, 2022

9:00am – 1:00pm Tour of local water recycling facility

1:00pm – 3:00pm

| Workshops | | | Achieving Treatment Removal Moderator: Martin Rumbaugh, AECOM | Rethinking Water's Footprint Moderator: Amy Middleton, Plummer | Advancing Community Reuse Moderator: Stephanie Basch, Black & Veatch |
|--|--|--|---|--|---|
| Water Reuse 101 Bootcamp <i>Sponsored by Carollo Engineers</i> | Developing a Nationwide Water Reuse Research Roadmap <i>Presented by The Water Research Foundation</i> | Gray Water Treatment at a Residential Property in Macon, Georgia <i>Philip McCreanor, Mercer</i> | Giving Membranes the Virus Removal Credit They Deserve Using Field qPCR Testing <i>David MacNevin, CDM Smith</i> <i>Anna Ness, CDM Smith</i> <i>Ali Zarei-Baygi, CDM Smith</i> | Aggregated Rain Grid Networks: PropTech Resilience and Adaptation Through Reuse <i>Umi Kobayashi, RainGrid Inc.</i> <i>Kevin Mercer, RainGrid Inc.</i> | Using Machine Learning to Optimize RO Chemical Cleaning at an AWTF <i>Mark Donovan, GHD</i> |
| | | Multi-point Ozone Dissolution for Bromate Control and Trace Contaminant Oxidation <i>Robert Pearce, Virginia Tech</i> | A scientific evaluation of pathogen removal credits in MAR systems <i>Tanja Rauch-Williams, Carollo Engineers</i> | Condensate Recovery and Reuse: A Visual Tour of UC San Diego's Innovative Systems <i>Jeff Eisert, University of California San Diego's Innovative Systems</i> | Three Years of Brine Recovery RO Pilot Testing with EMWD <i>Lee Portillo, Black & Veatch</i> |
| | | | Enhancing 1,4-Dioxane Removal with Co-Metabolic Biofiltration for Potable Reuse <i>Hannah Stohr, Hampton Roads Sanitation District</i> | Onsite Water Reuse Field Testing at an Informal Settlement Community <i>Hsiang-Yang Shyu, University of South Florida</i> | Alternative Process Trains for Addressing Chemical Spikes in Potable Reuse <i>Greg Wetterau, CDM Smith</i> |

3:00pm – 3:30pm Networking Break

3:00pm – 7:30pm Exhibit Hall Open

3:30pm – 5:00pm

| Workshops | | | Achieving Treatment Removal Moderator: Ioan Chilarescu, AECOM | Rethinking Water's Footprint Moderator: Jocelyn Lu, Brown & Caldwell | |
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| Water Reuse 101 Bootcamp <i>Sponsored by Carollo Engineers</i> | Developing a Nationwide Water Reuse Research Roadmap <i>Presented by The Water Research Foundation</i> | | WWTP Effluent Reuse: Multibarrier Ozonation & Ceramic Membrane Filtration <i>Martin Spruijt, PWN Technologies</i> | Innovative Approaches to Engaging Next-Gen Water Professionals <i>Kristan VandenHeuvel, The Water Tower</i> | Sample compositing for new insights into the fate of CECs in potable reuse, <i>Michael Watts, Garver</i> |
| | | | More is Better: Potable reuse pilot study to maximize water production with FRRO <i>Ronit Erlitzki, Chart Industries</i> <i>Megan Plumlee, Orange County Water District</i> | Five Steps to Successful Community Support <i>William Ringland, East Valley</i> | A Multi-Agency Plan for Expanding Reuse (Kyleen Marcella, Stantec) |
| | | | Microbial Community Structure and Dynamics in Ozone-BAC System for Potable Reuse <i>Sunayna Dasgupta, American Water Works Service Company Inc</i> | Forest Glen Utility Texas Reuse Story <i>Samantha Marin, Forest Glen Utility Company</i> | The Perils of Using Chloramines for Pretreatment in Water Reuse RO <i>David Brown, American Water Chemicals</i> |

5:30pm – 7:00pm Welcome Reception: *Welcome to Texas*

Sponsored by Austin Water, El Paso Water, Freese and Nichols, Gulf Coast Authority, and Plummer

Monday, March 7, 2022

8:00am – 10:00am Opening General Session

Sponsored by AECOM

Light Breakfast and Welcome: Craig W. Lichty P.E., Vice President, Client Director, Black & Veatch, WaterReuse President

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

Panel Discussion: Water Reuse and 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, Director of Technical Services, San Antonio River Authority (invited)

Erika Crespo, Assistant Deputy Director of Water Quality, Texas Commission on Environmental Quality

Gregg Eckhardt, Senior Analyst, San Antonio Water System (invited)

Nefi Garza, Assistant Director of Public Works, City of San Antonio

8:00am – 5:00pm Exhibit Hall Open

10:00am – 10:30am Networking Break Sponsored by Jacobs

10:30am – 12:00pm

| Rethinking Water's Footprint Moderator: Emily O'Morrow, Brown & Caldwell | From Policy to Practice: Water Reuse Guidance and More Moderator: Alex Franchi, AECOM | Innovation in Potable Reuse Moderator: Dave Ebersold, CDM | Advancing Community Reuse Moderator: Jaime Kypuros, Tetra Tech | Building Partnerships through Community Engagement, Education, and Financing Moderator: Michele Braas, Xylem | Tackling CECs Moderator: Robert Jenkins, Arcadis |
|--|--|---|---|--|---|
| Tackling Water Conservation, Quality & Policy Evolution with District Reuse <i>Pinar Balci, NYCDEP Bonnie Campbell, Two Trees Alan Cohn, NYCDEP Zach Gallagher, Natural Systems Utilities Rick Petrosino, Natural Systems Utilities</i> | T-minus 10 & Counting: Navigating Florida's Elimination of Surface Discharges <i>David Ammerman, Altamonte Springs Robert Beltran, Dewberry (Moderator) 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)</i> | The Future of Potable Reuse using KPIs <i>Sara Arabi, Stantec 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</i> | Innovation in Florida WateReuse: Palm Beach County's Green Cay Project <i>Dave MacNevin, CDM Smith</i> | Bringing Communication Pros Together to Further Water Reuse <i>Ben Glickstein, WateReuse Association Mark Millan, Data Instincts, Melanie Mow Schumacher, Soquel Creek Water District, Patricia Tennyson, Katz & Associates</i> | Role of WRFs in Managing PFAS Circulation through the Water Cycle <i>Nona Jesmani, AECOM Vijay Sundaram, AECOM</i> |
| | | | Benefits of a Large Scale Recycled Water Project <i>Bruce Chalmers, Metropolitan Water District of Southern California</i> | Equitable Recycled Water Expansion – Through Principles, Policies and Fees <i>Dawn Taffler, Kennedy Jenks John Wuerth, Eastern Municipal Water District</i> | The Fate of CECs in Pacific Northwest Reclaimed Water Infiltration <i>Jeff Hansen, HDR</i> |
| | | | Anne Arundel County, MD - Our wAater Program: Advanced Water Treatment for MAR <i>Christina Alito, HDR George Heiner, Anne Arundel County, Maryland Department of Public Works</i> | Thinking Big While Building Small: A Museum Quality Pure Water Demo <i>Amos Branch, Carollo Engineers Darrell Johnson, Las Virgenes Municipal Water District</i> | PFAS in Wastewater Effluent: Meta-Analysis of Occurrence and GAC Removal <i>Pranjali Kumar, Carollo Engineers Kyle Thompson, Carollo Engineers</i> |

12:00pm – 1:30pm WateReuse Annual Business Meeting

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

Monday, March 7

Different Drivers, Different Strategy: Water Reuse in New Places

Moderator: Karen Pallansch, Chief Executive Officer, Alexandria Renew Enterprises

Jeff Glass, Director of Public Works, City of Westminster, Maryland (invited)

Greg Goodwin, Applied Research Consultant, Bluefield Research

David Niese, Technical Services Officer, ReWa – Renewable Water Resources, South Carolina

Brian Perkovitch, Executive Director, Metropolitan Water Reclamation District of Greater Chicago (invited)

Rusty Smith, Director of the Texas Produced Water Consortium

Samsung (invited)

1:45pm – 3:15pm

| Rethinking Water's Footprint Moderator: Aaron Tartakovsky, Epic CleanTech | From Policy to Practice: Water Reuse Guidance and More | Innovation in Potable Reuse Moderator: Stephen Katz, Suez | Building Partnerships through Community Engagement, Education, and Financing | Tackling CECs Moderator: Roshan Aflaki, CDM | Digital Innovations Moderator: Xiaohong He, AECOM |
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| Water Reuse for Corporate Campus in Austin, TX <i>Katherine Jashinski, Austin Water Eric Lohan, Sustainable Water/NextEra Energy Bob Salvatelli, Sustainable Water/NextEra Energy</i> | Advancing National Water Reuse Policy <i>Greg Fogel, WaterReuse Association Deidre Finn, CIFA Amanda Erath, Bureau of Reclamation Wendi Wilkes, EPA (Invited)</i> | When IPR is Not Enough <i>Greta Zornes, CDM Smith Roshan Aflaki, CDM Smith Bruce Chalmers, Metropolitan Water District of Southern California Gilbert Trejo, El Paso Water Anselmo Collins, Los Angeles Department of Water and Power Lynn Spivey, Plant City</i> | Bumpy Road or Smooth Ride? Strategies for Mobile DPR Demonstrations <i>Jason Assouline, Carollo Engineers John Rehring, Carollo Engineers</i> | Microplastics Regulation and Testing <i>Scott Coffin, State of California Water Resources Control Board Rick Zimmer, Eurofins Eaon Analytical, LLC</i> | Digital Innovations Will Make Potable Reuse Projects More Affordable <i>Ozan Erdal, Arcadis Ufuk Erdal, Arcadis</i> |
| Successful Implementation of Onsite and Distributed Water Reuse Systems <i>Carolyn Hayek, Columbia University</i> | Compilation and Synthesis of US State Water Reuse Regulations <i>Rabia Chaudhry, EPA</i> | | Building (and Rebuilding) Trust with Boise's Recycled Water Program <i>Royce Davis, City of Boise Melanie Holmer, Brown and Caldwell Natalie Monro, City of Boise</i> | Antibiotic Resistance Genes in Agricultural Reuse Water <i>Celestene Sebag, University of Arkansas Wen Zhang, University of Arkansas</i> | Advancements in Digital Water Quality Monitoring Provide Optimized Potable Reuse <i>Tyler Abercrombie, GHD</i> |
| | | | Raise a Glass to Potable Reuse <i>Patrick Dube, Water Environment Federation</i> | Constituents of emerging concern using a One Water framework <i>Marcus Bowersox, Tetra Tech</i> | Integrating Real-Time Collection System Monitoring for Potable Water Reuse <i>Amos Branch, Carollo Engineers Andy Salveson, Carollo Engineers</i> |

3:15pm – 3:45pm Networking Break Sponsored by Plummer

3:45pm – 5:15pm

| Rethinking Water's Footprint | From Policy to Practice: Water Reuse Guidance and More | Innovation in Potable Reuse Moderator: Kathleen Peach, Suez | Digital Innovations | Synergies Across Industries | Water Reuse Projects US and Beyond Moderator: Simon Baker, AECOM |
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| Case-Studies: Improving Industrial Water Footprints with Reuse <i>Ken Martins, Stantec Patrick Regan, DuPont Water Solutions Christopher Kramer, JEA Amelia Luna, Sherwood Engineers</i> | Partnering: Accelerating Regional Integrated Water Management Solutions <i>Rick Warner, Warner and Associates Ralph Exton, Suez Beverly Stinson, AECOM Lydia Teel, Truckee Meadows Water Authority Jeff Mosher, Santa Ana Watershed Project Authority Gilbert Trejo, El Paso Water</i> | Approach to Implement the World's Largest Potable Reuse System – Hyperion 2035 <i>Rueren Yu, Stantec Amos Branch, Carollo Engineers Hubertus Cox, LASAN Roland Pilemalm, Carollo Engineers Zakir Hirani, Stantec Nasir Emami, LASAN Andrew Salveson, Carollo Engineers</i> | Cybersecurity Barriers to Innovation: Addressing Risk and Innovation for Reuse <i>Sponsored by Hazen and Sawyer and Zivaro Ben Stanford, Hazen and Sawyer Taylor Williams, Zivaro Kevin Morley, AWWA</i> | Moving to a Portfolio Approach for Water-Energy-Food Resilience <i>Zeynep Erdal, Black & Veatch</i> | Beenyup Advanced Water Recycling Plant – Commissioning and Testing Outcomes <i>Miguel Angel Sanz, Suez Lisa Chan, Suez Fabian Fenoglio, Suez</i> |
| | | | A Recommended Framework for Industrial Enhanced Source Control Programs <i>Tyler Nading, Jacobs</i> | Developing Water Reuse in Underserved Communities: Learning from the US & Abroad <i>Carlo Amadei, World Bank Rabia Chaudhry, EPA Clementine Stip, World Bank</i> | |
| | | | Availability of reclaimed municipal wastewater for reuse – An update <i>May Wu, Argonne National Lab</i> | Planning & Implementation of a Comprehensive Water Reuse Project in Barbados <i>Simon Baker, AECOM</i> | |

5:30-6:30pm Young Professionals Charting the Future of Water Reuse

Sponsored by HDR

Tuesday, March 8

7:30am – 9:00am Breakfast Plenary session

Sponsored by Black & Veatch

Annual WaterReuse Awards for Excellence

B Narayanan, President and CEO, Carollo Engineers, WaterReuse Board of Directors

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

Water Reuse Leaders Panel

Moderator: Craig W. Lichty P.E., Vice President, Client Director, Black & Veatch, WaterReuse President

Patrick Decker, President and Chief Executive Officer, Xylem, Inc. (invited)

B Narayanan, President and CEO, Carollo Engineers (invited)

Heather Polinsky, PMP, F. SAME, Global President, Resilience, Arcadis (invited)

Beverly Stinson, Executive Vice President, Global Water Business Line Leader, AECOM

Cindy Wallis-Lage, Executive Director, Black & Veatch

8:00am – 3:30pm Exhibit Hall Open

9:00am – 10:00am

| Innovation in Potable Reuse Moderator: Robert Fowle, CDM | Innovative Approaches to Water Recycling | Optimizing Treatment, Operations, and More | Monitoring, Modeling, and Assessing Risk | Innovations in Project Finance Moderator: Michaela Rempkowski, McCarthy | Sustainability and Resiliency |
|---|--|---|---|--|---|
| Bureau of Reclamation Advanced Water Treatment Research Roadmap <i>Yuliana Porras Mendoza, Bureau of Reclamation</i> | One Water: What Does It Mean to You? Moderator: Grant Macinnis, Suez <i>Daniel Nix, Utilities Operations Manager, City of Wichita Falls</i> <i>Paula Paciorek, Division Manager Water Conservation, City of Houston</i> <i>Greg Meszaros, Austin Water</i> <i>Sam Marie Hermitte, Texas Water Development Board</i> <i>Renee Willette, US Water Alliance</i> | Innovation in Oxidation for Reuse: A Seamless Pipeline <i>Erin Mackey, Brown and Caldwell</i> <i>Christina Morrison, Southern Nevada Water Authority</i> <i>Erin Partlan, Water Research Foundation</i> <i>Eric Wert, Southern Nevada Water Authority</i> <i>Andrea White, Moleaer</i> | Off the Roof: Measuring Microbial Characteristics of Roof Runoff <i>Jumana Aljafari, Colorado State University</i> | Paying for Potable Reuse when Costs Increase Significantly <i>Anna James, Jacobs</i> <i>David Pedersen, Las Virgenes Municipal Water District</i> | Funding Harvest Water: Conjunctive Use and Ecological Resilience Work Together <i>Terrie Mitchell, Sacramento Regional County Sanitations District</i> <i>Dave Richardson, Woodard & Curran</i> <i>Erik Ringleberg, The Freshwater Trust</i> |
| Evaluation of the Key Factors Impacting DPR Treatment and Risk <i>Brian Pecson, Trussell Technologies</i> <i>Adam Olivieri, EOA, Inc.</i> <i>Anya Kaufman, Trussell Technologies</i> | | | Quantitative Relative Chemical Assessment: Filling the Gap <i>Katie Bell, Brown and Caldwell</i> <i>Hannah Ford, El Toro Water District</i> <i>Melanie Holmer, Brown and Caldwell</i> <i>Christopher Jones, Brown and Caldwell</i> <i>Varsha Wylie, Southern Water</i> | ESG Commitments Create Synergy in New Water Reuse Opportunities <i>Samir Dave, Brown and Caldwell</i> <i>Jeffrey Steinwinder, Brown and Caldwell</i> | Pure Water Oceanside: Breaking New Boundaries in Groundwater Recharge <i>Cari Dale, City of Oceanside</i> <i>Adam Hoch, Hoch Consulting</i> <i>Lindsay Leahy, City of Oceanside</i> <i>Shane Trussell, Trussell Technologies</i> |

Tuesday, March 8

10:00am – 10:30am Networking Break *Sponsored by Nextera Energy*

10:30am – 12:00pm

| Innovation in Potable Reuse | Innovative Approaches to Water Recycling | Optimizing Treatment, Operations, and More | Monitoring, Modeling, and Assessing Risk | Innovations in Project Finance | Sustainability and Resiliency |
|--|--|---|---|---|---|
| Preliminary Design and Cost Estimate of a Direct Potable Reuse Plant in AZ <i>Alyssa Aligata, Bureau of Reclamation</i> | Risk-Based Guidance for Onsite Non-Potable Reuse: Progress and Opportunities <i>Jay Garland, EPA Kerry Hamilton, Arizona State University Michael Jahne, EPA Anya Kaufman, Trussell Technologies Sybil Sharvelle, Colorado State University</i> | Demonstrating Greater LRVs Across NF and RO Membranes— Results from WRF 4958 <i>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, Inc.</i> | Quantitative Microbial Risk Assessment of Water Reuse <i>Karla Mendez, UHealth Science Center School of Public Health</i> | Private Funding Can Accelerate Reuse Projects- Water Purchase/ Process Agreements <i>William Brennan, Resilient Infrastructure Group Dan McCarthy, Dan McCarthy Consulting Ben Vitale, TBD Paul Schuler, Suez David Sobek, Carollo Engineers</i> | Workshop: Reuse in Unexpected Ways and Places <i>Sponsored by Brown and Caldwell</i> |
| Los Angeles’ Headworks DPR Project: Implementing Direct Potable Reuse <i>Erik Avila, Los Angeles Department of Water and Power Brianna Plancarte, Los Angeles Department of Water and Power</i> | | | Effective Online Microbial Monitoring for Onsite Water Reuse <i>Sheng Chu, Natural Systems Utilities Zach Gallagher, Natural Systems Utilities</i> | Cross-Industry Collaboration Improves Service and Meets Future Demand <i>Dusty Moisio, Rowland Water District</i> | |
| Identifying WRRF Impacts on AWT Performance (WRF 4833 Module A) <i>Kelly Landry, Hazen and Sawyer</i> | | | EEM-PARAFAC - Monitoring Organic Matter Through the Potable Water Cycle <i>Katherine Bell, Brown and Caldwell</i> | Advancing Water Reuse with Property Assessed Clean Energy <i>Dub Taylor, Texas PACE Authority Katherine Jashinski, Austin Water Sharlene Leurig, Texas Water Trade Jennifer Walker, National Wildlife Foundation</i> | |

12:15pm – 1:30pm Tuesday Plenary Luncheon

Sponsored by Suez

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

Facilitator: Greta Zornes, Principal, Water Reuse, CDM Smith

Pinar Balci, Assistant Commissioner for Bureau of Environmental Planning and Analysis, New York City Department of Environmental Protection (invited)

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

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

Bob Salvatelli, Director of Business Development, Sustainable Water

Drew Wenzel, Real Estate Development Executive at Google

Tuesday, March 8
1:45pm – 3:15pm

| Innovative Approaches to Water Recycling | Optimizing Treatment, Operations, and More | Collaborating is Key | Navigating Evolving Regulations | One Water - One Bright Future | Water Reuse 101 - Bootcamp (Run 2) |
|---|---|--|---|--|------------------------------------|
| From Recharge to Recovery: Federal Role and Innovation in ASR <i>Justin Mattingly, EPA</i> | Demonstration of an MBR-RO Based Treatment Train for Regional Reuse <i>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</i> | Increasing Water Resiliency through Collaboration in North Central Texas <i>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, Ochontoa</i> | Comparison of Potable Reuse Regulations and Impacts to Project Implementation <i>Larry Schimmoller, Jacobs</i> | Sponsored by Arcadis Moderator: Naomi Jones, McCarthy Facilitator: Ufuk Erdal, Senior Vice President and Water Reuse National Technology Director, Arcadis David Pedersen, General Manager, Las Virgenes Municipal Water District Sharon Citino, Planning Director, Houston Water Hubertus Cox, Water Recycling Implementation Division Manager, Los Angeles Sanitation & Environment Lauren Zuravnsky, Chief of Design and Construction, SWIFT at Hampton Roads Sanitation District | Sponsored by Carollo |
| Advancing Stormwater Capture and Use Policy, Research, and Action Priorities <i>Justin Mattingly, EPA, Dave Smith, Water Innovation Services/USEPA (retired)</i> | | Permitting a Potable Reuse System in the Midst of Regulatory Change in Florida <i>Jo Ann Jackson, Black & Veatch, Ryan Popko, JEA</i> | | | |
| Reuse as a Water Quality Compliance Strategy: Challenges and Opportunities <i>Scott Mansell, Clean Water Services</i> | | Collaboration in Action: Colorado DPR Rulemaking Process <i>Austa Parker, Brown and Caldwell</i> | | | |

3:15pm – 3:45pm Networking Break Sponsored by Atkins

3:45pm – 5:15pm

| Innovative Approaches to Water Recycling | Optimizing Treatment, Operations, and More | Collaborating is Key | Navigating Evolving Regulations | Rethinking Water's Footprint | Water Reuse 101 - Bootcamp (Run 2) |
|--|---|--|---|--|------------------------------------|
| Evidence from Consumer Willingness-to-Pay Studies: New Approaches to Water Reuse <i>Sara Katz, Katz and Associates, Maik Kecinski, University of Delaware, Kent Messer, University of Delaware, Mark Millan, Data Instincts</i> | Operational Considerations and Insights for Reliable CBAT <i>Robert Angelotti, Upper Occoquan Service Authority, Gayathri Ram Mohan, Gwinnett County DWR, Germano Salazar-Benites, Hampton Roads Sanitation District, Vijay Sundaram, AECOM, Lydia Teel, Truckee Meadows Water Authority</i> | Multi-agency Reuse Programs: Lessons for Successful Collaboration <i>Felicia Marcus, Stanford University, Eric Rosenblum, Enviroinspectives, David Smith, Water Innovation Services/USEPA (retired), Shannon Spurlock, Ochontoa</i> | Making Reuse Work – NPDES permit case studies for EPA WRAP Action Item 2.2.6 <i>Greg Fogel, WaterReuse Association, Melanie Holmer, Brown and Caldwell, Emily Rimmel, NACWA, Patricia Whitby, Brown and Caldwell</i> | Potential Synergy of Nutrient Reduction, Reuse, and Credit Trading <i>Sharon Waller, Sustainable Systems LLC – Consulting</i> | Sponsored by Carollo |
| | | | Produced Water Reuse Efforts in Support of the National Water Reuse Action Plan <i>Mike Hightower, New Mexico Produced Water Research Consortium</i> | Targeted Onsite Reuse for Integrated Water <i>Denise Chow, Los Angeles Sanitation and Environment</i> | |
| | | | Regulatory Challenges for Reuse of Produced Water via Land Application <i>Amy Hardberger, Texas Tech University, Nichole Saunders, Environmental Defense Fund</i> | The Rise of UV/Chlorine and the Fall of UV/Peroxide in Water Reuse <i>Christine Cotton, Arcadis</i> | |

6:30pm – 9:00pm An Evening at Knibbe Ranch

Venue Sponsor: Xylem. Fireworks Sponsor: McCarthy

Wednesday, March 9, 2022

8:00am – 9:00am Breakfast Plenary Session

Sponsored by CDM Smith

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

The Federal Government's Role in Promoting Reuse

Sharon Nappier, National Program Leader for Water Reuse, U.S. Environmental Protection Agency

Johnathan Yoder, Water Preparedness and Response, Centers for Disease Control and Prevention

Clinton Williams, US Arid-Land Agricultural Research Center, Department of Agriculture

Amanda Erath, Program Coordinator, Bureau of Reclamation (invited)

Kenneth Kort, Technology Manager, Department of Energy (invited)

Martin Page, Operational Water Research Team Leader, Department of Defense (invited)

9:50am – 10:30am Reuse in the One Water Research Portfolio

Peter Grevatt, Chief Executive Officer, The Water Research Foundation

10:30am – 11:40am 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

Paul Kerr, Supply Chain Facilities Engineer, Global Supplier Management, Intel Corp

NASA (invited)

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

11:40-11:45am Closing: Craig W. Lichty P.E., Vice President, Client Director, Black & Veatch, WaterReuse President