



2021
WaterReuse California
ANNUAL CONFERENCE

BUILDING A RESILIENT FUTURE TOGETHER

Sunday, September 19

| Time | RO Concentrate Minimization and Disposal | Panel Discussions |
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| 1:00- 1:30 | <p>Brine Minimization Maximizes the Potential for Inland Potable Reuse Project.</p> <p>Troy Walker, Hazen and Sawyer</p> <p>Wendie Heie, Rancho California Water District</p> | <p>Alternative Approaches for Chemical and Pathogen Control in CA DPR Projects.</p> <p>Ufuk Erdal, Arcadis</p> <p>Randy Barnard, State Water Resources Control Board Division of Drinking Water</p> |
| 1:30 –2:00 | <p>Navigating the Path to Brine Management for Potable Reuse in Arid Regions.</p> <p>Michael Adelman, Stantec</p> | <p>Eric Hoek, University of California, Los Angeles</p> <p>Glen Daigger, University of Michigan</p> |
| 2:00-2:30 | <p>Take it to the MAX: Optimizing Closed-Circuit Reverse Osmosis for Brine Recovery in Brackish Groundwater Treatment for Potable Use.</p> <p>Scott Miller, Black & Veatch</p> | |
| 2:30 -3:00 | <p>Nature-Based Solutions as an Alternative Form of Treatment for RO Concentrate</p> <p>Medi Sinaki, Valley Water</p> <p>Nastaran Basiri, Valley Water</p> | |
| 3:00-3:30 | Break | |

| | Declining Flows | Panel Discussions |
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| 3:30-4:00 | <p>From Zero to Ninety – Creative Solutions to Achieve Ninety Percent Water Reuse in the City of Oceanside in Ten Years</p> <p>Adam Hoch, Hoch Consulting</p> <p>Lindsay Leahy, City of Oceanside, Water Utilities Department</p> | <p>Bioanalytical Screening in Recycled Water – Current Status, Challenges, and Opportunities.</p> <p>Claire Waggoner, California State Water Resources Control Board</p> <p>Luciana Pereyra, Trussell Technologies</p> <p>Daniel Schlenk, University of California, Riverside</p> |
| 4:00-4:30 | <p>A One Water Approach to Water Augmentation for Las Virgenes-Triunfo Pure Water Project</p> <p>Katie Bollmer, Jacobs</p> <p>Eric Schlageter, Las Virgenes Municipal Water District</p> | <p>Alvina Mehinto, Southern California Coastal Water Research Project</p> <p>Stephanie Guyon, Los Angeles County Sanitation Districts</p> <p>Rick Zimmer, Eurofins</p> |
| 4:30 -5:00 | <p>Innovative Strategies to Maximize Water Recycling with Declining Wastewater Flows.</p> <p>Chris Trees, San Elijo Joint Power Authority</p> <p>Michael Thornton, San Elijo Joint Power Authority</p> | |
| <p>5:30 – 6:30</p> <p>Welcome Reception Exhibit Hall</p> | | |

Monday, September 20

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| 8:30 – 9:30 | Opening Session: Water Board Chair E. Joaquin Esquivel Brian Fuchs, US Drought Monitor | | | |
| | Direct Potable Reuse | Planning and Implementation | Non-Potable Reuse | |
| 9:30 – 10:00 | The Headworks DPR Demonstration Project: Implementing DPR for the City of LA Greg Wetterau, CDM Smith Erik Avila, Los Angeles Department of Water and Power | Equitable Recycled Water Expansion – Through Principles, Policies and Fees Dawn Taffler, Kennedy Jenks John Wuerth, Eastern Municipal Water District | Lessons Learned from a Greenfield Water Resource Recovery Facility in Coastal CA Rick Koon, Cayucos Sanitary District Dylan Wade, Water Systems Consulting | |
| 10:00 – 10:30 | Completion of Nevada’s First Ozone-BAC based Advanced Purified Water Demonstration – Perspectives for California DPR Projects in the Future Vijay Sundaram, AECOM Lydia (Peri) Teel, Truckee Meadows Water Authority | Challenges and Success in Planning for a Robust and Flexible Purified Water Program Hossein Ashktorab, Valley Water Nastaran Basiri, Valley Water | Application of Recycled Water in Agriculture: Overcoming Technical and Regulatory Barriers Mohsen Mehran, Rubicon Engineering Corporation | |
| 10:30 – 11:00 | Break | | | |

| | Potable Reuse Challenges and Solutions | Planning and Implementation | Non-Potable Reuse | Panel Discussions |
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| 11:00 – 11:30 | <p>Risk Based Analysis of IPR and DPR for the Water Corporation of Western Australia</p> <p>Nick Turner, Water Corporation of Western Australia</p> <p>Andrew Salveson, Carollo Engineers</p> | <p>How to make a collaborative delivery method work: Hyperion Water Reclamation Plant delivers recycled water to LA's International Airport</p> <p>Christina Jones, LA Sanitation & Environment</p> | <p>The Use of Recycled Water in Firefighting Systems: Safety and Practical Applications</p> <p>Earle Hartling, Los Angeles County Sanitation Districts</p> | <p>Transforming Utilities, Sustaining our Assets – How Advanced Analytics can Guide Better O&M of Water Recycling Systems.</p> <p>Steven Dutschke, Kennedy Jenks</p> <p>Mike McCullough, Monterey One Water</p> |
| 11:30-12:00 | <p>Compliance with California's Draft DPR Criteria: Case Study of the City of San Diego's Phase 2 Pure Water Project</p> <p>Brian Pecson, Trussell Technologies</p> <p>Anya Kaufmann, Trussell Technologies</p> <p>Shane Trussell, Trussell Technologies</p> <p>Rhodes Trussell, Trussell Technologies</p> <p>Douglas Owen, Stantec</p> <p>John Stufflebean, City of San Diego</p> <p>Jeffery Pasek, City of San Diego</p> | <p>Water Reuse Results Realized Through Collaboration: A Case Study of OneWater Nevada</p> <p>Lydia (Peri) Teel, Truckee Meadows Water Authority</p> <p>Rick Warner, Warner & Associates</p> | <p>The Economics of Sustainable Industrial Water Use, Reuse, and the Value of Water</p> <p>Thomas Chesnutt, A & N Technical Services</p> <p>Eric Rosenblum, Envirospectives</p> | <p>Mehul Patel, Orange County Water District</p> <p>Jeff Foushee, LyondellBasell</p> <p>Stacey Jones, Aspen Technology</p> |

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| 12:00-12:30 | IPR vs DPR: Which One Makes More Sense for Your Community Val Frenkel, Greeley Hansen | Old Habits Die Hard: Unexpected Challenges to Integrating Potable Reuse and Existing Water Supplies Carrie Del Boccio, Woodard & Curran | Design Complications Related to Water Recycle and Reuse using a Membrane-based Wastewater Treatment System Behrang Pakzadeh, Kiewit | |
| 12:30-2:00 | Awards Luncheon | | | |
| | Potable Reuse Challenges and Solutions | Artificial Intelligence and Real-Time Monitoring | Groundwater Replenishment | Panels |
| 2:00-2:30 | State Water Board/WRF Research to Advance Reuse in California Julie Minton, The Water Research Foundation Katie Spahr, The Water Research Foundation Keel Robinson, Trussell Technologies | Recycled Water: The Lynchpin to Groundwater Sustainability in Coachella Valley Rosalyn Prickett, Woodard and Curran Jignesh Ladhawala, Coachella Valley Water District Armando Rodriguez, Coachella Valley Water District | Employing an Inventive Communication and Outreach Strategy to Engage by encouraging Advisory Groups for the Hyperion 2035 Program Christina Jones, LA Sanitation and Environment | Multi-Pronged Approach to Make Technology Work for Regulatory Success of DPR Zeynep Erdal, Black & Veatch Heather Collins, Metropolitan Water District of Southern California Dave Pedersen, Las Virgenes Municipal Water District |
| 2:30-3:00 | CUWA: Facing Obstacles to Maximizing Water Reuse Hannah Ford, Brown and Caldwell | Water Quality Impacts on AWT Design and Operation Larry Schimmoller, Jacobs Jim Lozier, Jacobs | Tracer Test Plan Development for a Groundwater Replenishment Reuse Project Fred Gerringer, Hazen & Sawyer Andrew Han, Los Angeles Department of Water and Power | |
| 3:00-3:30 | Break | | | |

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| 3:30-4:00 | <p>Climate Resiliency Tool for Future Projects</p> <p>Flor Burrola, City of LA, LA Sanitation and Environment</p> <p>Henry Durand, City of Los Angeles, LA Sanitation and Environment</p> | <p>Validation of Artificial Intelligence for Water Reuse</p> <p>Andrew Salveson, Carollo Engineers</p> <p>Yasuhiro Matsui, Yokogawa</p> <p>Kevin Hardy, National Water Research Institute</p> | <p>A Methodical Approach to Groundwater Protection on the Central Coast</p> <p>Ben Fine, City of Pismo Beach</p> <p>Amos Branch, Carollo Engineers</p> | <p>Same but different – 3 California utilities share what’s most important for reuse projects.</p> <p>Melanie Holmer, Brown and Caldwell</p> <p>Melanie Mow Schumacher, Soquel Creek Water District</p> |
| 4:00 -4:30 | <p>EPA’s Water Reuse Action Plan: Latest from EPA and WRF</p> <p>Julie Minton, The Water Research Foundation</p> <p>Rabia Chaudry, US Environmental Protection Agency</p> <p>Erin Parlan, The Water Research Foundation</p> | <p>Wastewater Intelligence: Optimizing wastewater treatment and maximizing the resources available for reuse</p> <p>Max Howels, Kando</p> | <p>Peering into the Unknown: Utilizing aerial geophysics to battle seawater intrusion and design an IPR Injection Well Network</p> <p>Daniel Heimel, Water Systems Consulting</p> <p>Ben Fine, City of Pismo Beach</p> | <p>Christina Becerra Jones, LA Sanitation and Environment</p> <p>Angela Morrow, City of Escondido</p> |
| 4:30-5:00 | <p>Potable Reuse Decision Toolbox: Charting an Implementation Pathway for Small to Medium Sized-Agencies</p> <p>Susan Brownstein, Woodard and Curran</p> <p>Tom Richardson, Woodard and Curran</p> | <p>Advancements in Digital Water Quality Monitoring Allow for Optimized Potable Reuse AWTF Operation</p> <p>Mark Donovan, GHD</p> <p>Tyler Abercrombie, GHD</p> <p>Aditi Padhye, KETOS</p> | <p>Groundwater Modeling in Support of Pure Water: Why care? What to know? Real life stories from the Monterey Bay Region</p> <p>Pascual Benito, Montgomery & Associates</p> <p>Hanieh Haeri, Montgomery & Associates</p> | |
| 6:00-7:30 | President’s Reception – Poolside | | | |

Tuesday, September 21

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| 8:00-9:30 | Gordon Cologne Breakfast (WRCA membership Meeting) Family Feud: N. Cal vs S. Cal Grudge Match | | |
| | Outreach and Communications | Treatment | Panels |
| 9:30-10:00 | Break | | |
| 10:00-10:30 | Redrawing the Potable Reuse Process Flow Chart - How the Rosamond Community Service District Keeps Beneficial Reuse Simple Steve Perez, Rosamond CSD Brian Villacorta, Coombs Hopkins Company Greg Wood, Rosamond CSD | The Rise of UV/Chlorine and the Fall of UV/peroxide in Water Reuse: What is best for Your Facility Christine Cotton, Arcadis | Partnerships for Success with the Regional Recycled Water Program Joyce Lehman, Metropolitan Water District of Southern California Bruce Chalmers, Metropolitan Water District of Southern California Sun Liang, Metropolitan Water District of Southern California |
| 10:30-11:00 | Communications: To Construction...And Beyond!! Melanie Schumacher, Soquel Creek Water District Mark Millan, Data Instincts | Ceramic Microfiltration Allows Reuse of Challenging Wastewaters at Two U.S. Location Dave Holland, Aqua-Aerobic Systems | George Di Giovanni, Metropolitan Water District of Southern California Mike Liu, Los Angeles County Sanitation Districts Lysa Gaboudian, Los Angeles County Sanitation Districts |
| 11:00-11:30 | Keeping Pure Water "Fluid": How the City of San Diego Has Dynamically Adapted its Outreach Program Over the Last Decade Megan Drummy, Katz & Associates John Stufflebean, City of San Diego Public Utilities Department | East Bayshore Recycled Water Quality Improvements Pilot Study - Recycled Water Use in Cooling Tower An Bartlett, EBMUD John Kenny, Trussell Technologies | Shawn Thompson, Los Angeles County Sanitation Districts Rupam Soni, Metropolitan Water District of Southern California |

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| 11:30–12:00 | Learning While Educating: A Case Study on Building the ARC Digital Water Museum Jennifer Swart, Water Replenishment District | Role of Water Recycling Facilities in Managing PFAS Circulation through the Water Cycle Christopher Curran, AECOM Vijay Sundaram, AECOM | |
| 12:00 to 1:30 | Lunch – LA Water Reuse Future Panel Discussion | | |
| 1:30-2:00 | Break | | |
| | MBR in IPR Projects | Regulatory and Permitting | Panels |
| 2:00-2:30 | Evaluation of MBR-based Approaches to Optimize Indirect Potable Reuse at the Joint Water Pollution Control Plant Colin Fitzgerald, Jacobs Bruce Mansell, Los Angeles County Sanitation Districts | Pure Water in Miramar Reservoir: Tracers and Modeling Close the Loop On Regulatory Approval Jeffery Pasek, City of San Diego Public Utilities Dept | Water Reuse Communications in 2021 and Beyond: Developments and Best Practices. Rupam Soni, Metropolitan Water District of Southern California Patsy Tennyson, Katz & Associates |
| 2:30-3:00 | Pathogen Credits for MBR – The Latest from the Water Research Foundation and the First Validated Tier 2 System Larry Morris, KUBOTA Water and Environment R&D Center USA | Initializing the Initial Phase: Permitting Groundwater Replenishment in LA Andrew Han, LADWP Ryan Thiha, LASAN Tracey Dinh, LADWP | Gina Ayala, Orange County Water District Ivonne Castillo, Metropolitan Water District of Southern California Ben Glickstein, East Bay Municipal Utility District |
| 3:00-3:30 | Morro Bay Water Reclamation Facility: Expanding the Innovative IPR Portfolio in California Kaitie Gellerman, Black & Veatch Sandeep Sathyamoorthy, Black & Veatch James DeCarolis, Black & Veatch | Maximizing Virus Credit Using the Title 22 Recycled Water Alternative Disinfection Framework for the First Potable Reuse Application Yan Qu, Trussell Technologies Bonita Fan, Inland Empire Utilities Agency | Stephanie Spicer, LADWP Rebecca Rubin, Soquel Creek Water District |

