



**2021**  
WaterReuse California  
ANNUAL CONFERENCE

BUILDING A RESILIENT FUTURE TOGETHER

**Sunday, September 19**

Time	RO Concentrate Minimization and Disposal	Panel Discussions
1:00- 1:30	<p><b>Brine Minimization Maximizes the Potential for Inland Potable Reuse Project.</b></p> <p>Fred Gerringer, Hazen and Sawyer</p>	<p><b>Same but different – 3 California utilities share what’s most important for reuse projects.</b></p> <p>Melanie Holmer, Brown and Caldwell</p>
1:30 –2:00	<p><b>Navigating the Path to Brine Management for Potable Reuse in Arid Regions.</b></p> <p>Michael Adelman, Stantec</p>	<p>Melanie Mow Schumacher, Soquel Creek Water District</p> <p>Christina Becerra Jones, LA Sanitation and Environment</p>
2:00-2:30	<p><b>Take it to the MAX: Optimizing Closed-Circuit Reverse Osmosis for Brine Recovery in Brackish Groundwater Treatment for Potable Use.</b></p> <p>Scott Miller, Black &amp; Veatch</p>	<p>Angela Morrow, City of Escondido</p>
2:30 -3:00	<p><b>Nature-Based Solutions as an Alternative Form of Treatment for RO Concentrate</b></p> <p>Medi Sinaki, Valley Water</p> <p>Nastaran Basiri, Valley Water</p>	
3:00-3:30	Break	

	Declining Flows	Panel Discussions
3:30-4:00	<p><b>From Zero to Ninety – Creative Solutions to Achieve Ninety Percent Water Reuse in the City of Oceanside in Ten Years</b></p> <p>Adam Hoch, Hoch Consulting</p> <p>Lindsay Leahy, City of Oceanside, Water Utilities Department</p>	<p><b>Bioanalytical Screening in Recycled Water – Current Status, Challenges, and Opportunities.</b></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><b>A One Water Approach to Water Augmentation for Las Virgenes-Triunfo Pure Water Project</b></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>
4:30 -5:00	<p><b>Innovative Strategies to Maximize Water Recycling with Declining Wastewater Flows.</b></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><b>Welcome Reception Exhibit Hall</b></p>		

Monday, September 20

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

	Potable Reuse Challenges and Solutions	Planning and Implementation	Non-Potable Reuse	Panel Discussions
11:00 – 11:30	<p><b>Risk Based Analysis of IPR and DPR for the Water Corporation of Western Australia</b></p> <p>Nick Turner, Water Corporation of Western Australia</p> <p>Andrew Salveson, Carollo Engineers</p>	<p><b>How to make a collaborative delivery method work: Hyperion Water Reclamation Plant delivers recycled water to LA's International Airport</b></p> <p>Christina Jones, LA Sanitation &amp; Environment</p>	<p><b>The Use of Recycled Water in Firefighting Systems: Safety and Practical Applications</b></p> <p>Earle Hartling, Los Angeles County Sanitation Districts</p>	<p><b>Transforming Utilities, Sustaining our Assets – How Advanced Analytics can Guide Better O&amp;M of Water Recycling Systems.</b></p> <p>Steven Dutschke, Kennedy Jenks</p> <p>Mike McCullough, Monterey One Water</p>
11:30-12:00	<p><b>Compliance with California's Draft DPR Criteria: Case Study of the City of San Diego's Phase 2 Pure Water Project</b></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><b>Water Reuse Results Realized Through Collaboration: A Case Study of OneWater Nevada</b></p> <p>Lydia Peri, Truckee Meadows Water Authority</p> <p>Rick Warner, Warner &amp; Associates</p> <p>John Enloe, Truckee Meadows Water Authority</p>	<p><b>The Economics of Sustainable Industrial Water Use, Reuse, and the Value of Water</b></p> <p>Thomas Chesnutt, A &amp; 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>

12:00-12:30	<b>IPR vs DPR: Which One Makes More Sense for Your Community</b>  Val Frenkel, Greeley Hansen	<b>Old Habits Die Hard: Unexpected Challenges to Integrating Potable Reuse and Existing Water Supplies</b>  Carrie Del Boccio, Woodard & Curran	<b>Design Complications Related to Water Recycle and Reuse using a Membrane-based Wastewater Treatment System</b>  Behrang Pakzadeh, Kiewit	
12:30-2:00	<b>Awards Luncheon</b>			
	<b>Potable Reuse Challenges and Solutions</b>	<b>Artificial Intelligence and Real-Time Monitoring</b>	<b>Groundwater Replenishment</b>	<b>Panels</b>
2:00-2:30	<b>WRF Research to advance reuse in California: CA State Water Board Grant</b>  Julie Minton, The Water Research Foundation  Katie Spahr, The Water Research Foundation	<b>Recycled Water: The Lynchpin to Groundwater Sustainability in Coachella Valley</b>  Rosalyn Prickett, Woodard and Curran  Jignesh Ladhawala, Coachella Valley Water District  Armando Rodriguez, Coachella Valley Water District	<b>Groundwater Modeling in Support of Pure Water: Why care? What to know? Real life stories from the Monterey Bay Region</b>  Pascual Benito, Montgomery & Associates  Hanieh Haeri, Montgomery & Associates	<b>Multi-Pronged Approach to Make Technology Work for Regulatory Success of DPR</b>  Zeynep Erdal, Black & Veatch  Heather Collins, Metropolitan Water District of Southern California  Dave Pedersen, Las Virgenes Municipal Water District
2:30-3:00	<b>CUWA: Facing Obstacles to Maximizing Water Reuse</b>  Hannah Ford, Brown and Caldwell	<b>Water Quality Impacts on AWT Design and Operation</b>  Larry Schimmoller, Jacobs  Jim Lozier, Jacobs	<b>Tracer Test Plan Development for a Groundwater Replenishment Reuse Project</b>  Fred Gerringer, Hazen & Sawyer  Andrew Han, Los Angeles Department of Water and Power	
3:00-3:30	Break			

3:30-4:00	<p><b>Climate Resiliency Tool for Future Projects</b></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><b>Validation of Artificial Intelligence for Water Reuse</b></p> <p>Andrew Salveson, Carollo Engineers</p> <p>Yasuhiro Matsui, Yokogawa</p> <p>Kevin Hardy, National Water Research Institute</p>	<p><b>A Methodical Approach to Groundwater Protection on the Central Coast</b></p> <p>Ben Fine, City of Pismo Beach</p> <p>Amos Branch, Carollo Engineers</p>	<p><b>Partnerships for Success with the Regional Recycled Water Program</b></p> <p>Joyce Lehman, Metropolitan Water District of Southern California</p> <p>Bruce Chalmers, Metropolitan Water District of Southern California</p>
4:00 -4:30	<p><b>WRF's WRAP (Water Reuse Action Plan) Actions</b></p> <p>Julie Minton, The Water Research Foundation</p> <p>Rabia Chaudry, US Environmental Protection Agency</p>	<p><b>Wastewater Intelligence: Optimizing wastewater treatment and maximizing the resources available for reuse</b></p> <p>Max Howels, Kando</p>	<p><b>Peering into the Unknown: Utilizing aerial geophysics to battle seawater intrusion and design an IPR Injection Well Network</b></p> <p>Daniel Heimel, Water Systems Consulting</p> <p>Ben Fine, City of Pismo Beach</p>	<p>Sun Liang, Metropolitan Water District of Southern California</p> <p>George Di Giovanni, Metropolitan Water District of Southern California</p> <p>Mike Liu, Metropolitan Water District of Southern California</p>
4:30-5:00	<p><b>Potable Reuse Decision Toolbox: Charting an Implementation Pathway for Small to Medium Sized-Agencies</b></p> <p>Susan Brownstein, Woodard and Curran</p> <p>Tom Richardson, Woodard and Curran</p>	<p><b>Advancements in Digital Water Quality Monitoring Allow for Optimized Potable Reuse AWTF Operation</b></p> <p>Mark Donovan, GHD</p> <p>Tyler Abercrombie, GHD</p> <p>Aditi Padhye, KETOS</p>	<p><b>Employing an Inventive Communication and Outreach Strategy to Engage by encouraging Advisory Groups for the Hyperion 2035 Program</b></p> <p>Christina Jones, LA Sanitation and Environment</p>	<p>Lysa Gaboudian, Metropolitan Water District of Southern California</p> <p>Shawn Thompson, Metropolitan Water District of Southern California</p> <p>Rupam Soni, Metropolitan Water District of Southern California</p>
6:00-7:30	<b>President's Reception – Poolside</b>			

Tuesday, September 21

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	<p><b>Redrawing the Potable Reuse Process Flow Chart - How the Rosamond Community Service District Keeps Beneficial Reuse Simple</b></p> <p>Steve Perez, Rosamond CSD</p> <p>Brian Villacorta, Coombs Hopkins Company</p> <p>Greg Wood, Rosamond CSD</p>	<p><b>The Rise of UV/Chlorine and the Fall of UV/peroxide in Water Reuse: What is best for Your Facility</b></p> <p>Christine Cotton, Arcadis</p>	<p><b>Alternative Approaches for Chemical and Pathogen Control in CA DPR Projects.</b></p> <p>Ufuk Erdal, Arcadis</p> <p>Randy Barnard, State Water Resources Control Board Division of Drinking Water</p> <p>Eric Hoek, University of California, Los Angeles</p> <p>Glen Daigger, University of Michigan</p>
10:30-11:00	<p><b>Communications: To Construction...And Beyond!!</b></p> <p>Melanie Schumacher, Soquel Creek Water District</p> <p>Mark Millan, Data Instincts</p>	<p><b>Ceramic Microfiltration Allows Reuse of Challenging Wastewaters at Two U.S. Location</b></p> <p>Dave Holland, Aqua-Aerobic Systems</p>	
11:00-11:30	<p><b>Keeping Pure Water "Fluid": How the City of San Diego Has Dynamically Adapted its Outreach Program Over the Last Decade</b></p> <p>Megan Drummy, Katz &amp; Associates</p> <p>John Stufflebean, City of San Diego Public Utilities Department</p>	<p><b>East Bayshore Recycled Water Quality Improvements Pilot Study - Recycled Water Use in Cooling Tower</b></p> <p>An Bartlett, EBMUD</p> <p>John Kenny, Trussell Technologies</p>	

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



