

Sunday, March 17, 2019

11:00 a.m. – 4:45 p.m.	Technical Tour Water Replenishment District of Southern California and the City of Anaheim <i>(departing from the main entrance of the hotel)</i>		
12:00 p.m. – 5:30 p.m.	Registration Open		
Technical Sessions	A1: Planning for Reuse	B1: Groundwater Recharge – Part 1	C1: Oxidation Processes
1:00 p.m. – 1:30 p.m.	Creating a “Virtual” One-Water Utility: Pricing and Institutional Arrangements <i>Robert Raucher, Corona Environmental Consulting</i>	Partnerships in Managing, Improving, and Planning Groundwater Supply Reliability <i>Andrew Campbell, Joshua Aguilar and Joel Ignacio, Inland Empire Utilities Agency</i>	Operating World’s first UV Hypo AOP System for Reuse – An Operators Story <i>Jens Scheideler, Xylem, Inc.</i> <i>Seung Ta Oh, City of Los Angeles, LA Sanitation</i>
1:30 p.m. – 2:00 p.m.	Prioritizing Investment of a Reclaimed Water Program through a Triple Bottom Line Approach <i>Christina Alito, HDR</i>	From Grand to Gradual: Implementing Groundwater Replenishment in LA <i>Yoshiko Tsunehara, Los Angeles Department of Water and Power</i>	Comparison of UV/AOP Oxidants for the Removal of DBPs and their Precursors <i>Shannon Roback, California State University, Dominguez Hills</i>
2:00 p.m. – 2:30 p.m.	Dynamic Modeling Solutions to Maximize Reuse in San Luis Obispo <i>Jasmine Diaz, Water Systems Consulting, Inc.</i>	Maximizing Groundwater Use in the Central and West Coast Basins through RW <i>Sarah Mouakkad, Los Angeles Department of Water and Power</i> <i>Diana Gatza, Water Replenishment District of Southern California</i> <i>Nasir Emami, City of Los Angeles, LA Sanitation</i>	Optimization of Ozone/Biofiltration in Potable Reuse Treatment Trains <i>James Barazesh, Carollo Engineers</i>
2:30 p.m. – 3:00 p.m.	LA River Flow Study: Changing Water Landscape Triggers a Paradigm Shift	Central Coast Blue: A One Water Approach to Sustainable Groundwater Supplies	NDMA Mitigation in Ozone-Biofiltration Potable Reuse Treatment Trains

	<i>Azya Jackson, City of Los Angeles, LA Sanitation</i>	<i>Michael Cruikshank, Water Systems Consulting</i>	<i>Daniel Gerrity, University of Nevada Las Vegas</i>
3:00 p.m. – 3:30 p.m.	Networking Break		
3:00 p.m. – 3:30 p.m.	Poster Sessions		
Technical Sessions	A2: Alternative Supplies	B2: Groundwater Recharge – Part 2	C2: Potable Reuse Treatment Monitoring
3:30 p.m. – 4:00 p.m.	Urban Runoff to the Rescue: How to Integrate Urban Runoff into your Wastewater <i>Robert Morrow, Woodard & Curran</i>	Distributed Temperature Sensing as a Tool to Evaluate Basin Cleaning Strategies <i>Ricardo Medina, Orange County Water District</i>	Thinking Big While Building Small: Las Virgenes-Triunfo Pure Water Demonstration <i>David Lippman, Las Virgenes Municipal Water District</i> <i>Hannah Ford, Carollo Engineers</i>
4:00 p.m. – 4:30 p.m.	Planning for Stormwater to Supplement San Diego's Pure Water Program <i>Jim Rasmus, Carollo Engineers</i>	Evaluation of Pathogen Reduction by Soil Aquifer Treatment through Soil Columns <i>Yan Qu, Trussell Technologies, Inc.</i>	Colloidal Particles Removal through Online Monitoring to Lower Membrane Fouling <i>Ganesh Rajagopalan, Kennedy/Jenks Consultants</i>
4:30 p.m. – 5:00 p.m.	Tapping into Available Capacity in Existing Infrastructure to Create Solutions <i>David Pedersen, Las Virgenes Municipal Water District</i>	Groundwater Recharge: Using Underflow as Primary Source of Diluent <i>Rosalyn Prickett, Woodard & Curran</i>	Adenosine Triphosphate as an Online Surrogate to Monitor Reverse Osmosis Perform <i>Jana Safarik, Orange County Water District</i>
5:00 p.m. – 6:30 p.m.	Welcome Reception		

Monday, March 18, 2019

7:30 a.m. – 3:30 p.m.	Registration Open
7:30 a.m. – 3:30 p.m.	Exhibit Hall Open
7:30 a.m. – 8:30 a.m.	Continental Breakfast
8:30 a.m. – 9:30 a.m.	<p>Opening Session</p> <p>Welcoming Remarks – <i>Vicente Sarmiento, Board President, Orange County Water District</i></p> <p>Wade Crowfoot <i>Secretary, California Natural Resources Agency</i></p> <p>In January, Wade was appointed by Governor Gavin Newsom to be the Secretary for the California Natural Resources Agency. As Secretary, Wade will oversee many departments of the new administration, including the Department of Water Resources and the Fish and Game Commission. Wade was chief executive officer of the Water Foundation from 2016 to 2018. He was deputy cabinet secretary and senior advisor to Governor Edmund G. Brown Jr. from 2013 to 2016. Wade also served as deputy director for Governor Brown’s Office of Planning and Research from 2011 to 2013. He was West Coast political director at the Environmental Defense Fund from 2009 to 2011 and senior environmental advisor to former San Francisco Mayor Gavin Newsom from 2004 to 2007</p> <p>Peter H. Gleick President Emeritus and Co-founder, Pacific Institute</p> <p>Dr. Peter Gleick is a scientist, innovator, and communicator on water and climate issues and a long-time advocate for a sustainable water future in California and worldwide. In 1987 he co-founded the independent thinktank Pacific Institute, which he led as president until mid-2016, when he became president emeritus. Dr. Gleick received the prestigious MacArthur “genius” Fellowship and is an elected member of the U.S. National Academy of Sciences. He is a Fellow of the American Association for the Advancement of Science, and winner of the Ven Te Chow Award from the International Water Resources Association and the United States Water Prize from the US Water Alliance. Dr. Gleick developed one of the earliest assessments of the consequences of climate change for water resources, assessed the risks of conflict over water, and helped to define basic water needs and the human right to water – work that has been used by the United Nations and in human rights court cases. He has pioneered and advanced the concepts of the “soft path for water” and “peak water.” Dr. Gleick holds a B.S. in Engineering and Applied Sciences from Yale University and an M.S. and Ph.D. from the Energy and Resources Group of the University of California, Berkeley. He serves on the boards of numerous journals and organizations and is the author or co-author of many scientific papers and twelve books, including the series <i>The World’s Water</i> (Island Press, Washington), <i>Bottled and Sold: The Story Behind our Obsession with Bottled Water</i> (Island Press, Washington), and <i>A 21st Century U.S. Water Policy</i> (Oxford University Press, New York).</p>
9:30 a.m. – 10:00 a.m.	Networking Break

9:30 a.m. – 10:0 a.m.	Poster Sessions			
Technical Sessions	A3: Public Outreach	B3: Recycled Water Planning and Challenges	C3: Panel Discussion – DPR Research	D3: Onsite Non-Potable Reuse Challenges and Opportunities – Part 1
10:00 a.m. – 10:30 a.m.	Prepping your Electeds for your Potable Reuse Project <i>Mark Millan, Data Instincts, Public Outreach Consultants</i>	Taking the Long View – Evaluating Potable Reuse for Future Supply Reliability <i>Andrew Lazenby, Brown and Caldwell</i>	An Update on California’s Priority DPR Research Topics To help develop DPR regulations by 2023, the State of California is undertaking research in five priority research topics. This panel session— moderated by the State Expert Panel co-chairs— convenes the leads of the State’s Technical Working Groups to discuss progress in the control of pathogenic microorganisms and toxic chemicals. Moderators: <i>Adam Olivieri, EOA, Inc.</i>	History and Trends in Decentralized Reuse Systems <i>Don Berger and Monique Day, West Yost Associates</i>
10:30 a.m. – 11:00 a.m.	Skeptics Into Supporters—Creating Partnerships with Elected Officials & Agencies <i>Melissa McChesney, Padre Dam Municipal Water District</i>	To Drink or Not to Drink? Potable vs Non-Potable Reuse <i>Paul Gilbert-Snyder, East Bay Municipal Utility District</i>		Distributed Systems to Optimize Regional Water Reuse <i>Wendy Broley, Brown and Caldwell</i>
11:00 a.m. – 11:30 a.m.	Pathway to Potable Reuse: How to Involve Your Stakeholders in Project Planning <i>Brent Eidson, City of San Diego Public Utilities Department</i> <i>Sarah Lemons, Katz & Associates</i>	Water Quality Challenges in Expanding the use of Recycled Water <i>An Bartlett, East Bay Municipal Utility District</i>		Plumbing Our Future <i>Nancy King, California Department of Water Resources</i>
11:30 a.m. – 12:00 p.m.	Creating a More Effective Means of Communicating <i>Anthony Tew, Los Angeles Department of Water and Power</i> <i>John Ruetten, Resource Trends, Inc.</i>	Developing a Diverse Portfolio of Water Resources through Water Reuse <i>Amanda Combs, Dudek</i>	<i>Jim Crook, Environmental Engineering Consultant</i> Panel: <i>Randy Barnard, SWRCB</i> <i>Julie Minton, The Water Research Foundation</i> <i>Brian Pecson, Trussell Technologies, Inc.</i>	On-Site Reuse Treatment Plants – Discharge Permits to Manage Downstream Impacts <i>Charles Hardy, West Yost Associates</i>

			<p><i>Jean Debroux, Kennedy/Jenks Consultants</i></p> <p><i>Shane Trussell, Trussell Technologies, Inc.</i></p> <p><i>Keith Maruya, SCCWRP</i></p>	
12:00 p.m. – 1:30 p.m.	Awards Luncheon			
Technical Sessions	A4: Communications Collaborative Group Workshop – Part 1	B4: Source Control Management	C4: Water Quality Challenges with Potable Reuse	D4: Onsite Non-Potable Reuse Challenges and Opportunities – Part 2
1:30 p.m. – 2:00 p.m.	<p>Part 1 of a three-hour workshop session which will provide:</p> <ul style="list-style-type: none"> · A formal introduction of the Communications Collaborative Group by the chair and vice chair so that all WateReuse members can learn about the Group. 	<p>Comprehensive Source Control for Potable Reuse</p> <p><i>George Tchobanoglous, University of California, Davis</i></p>	<p>Per- and Polyfluoroalkyl Substances in Advanced Treatment for Potable Reuse</p> <p><i>Eva Steinle-Darling, Carollo Engineers</i></p>	<p>Identifying and Overcoming the Barriers to Onsite Non-Potable Water Reuse in CA</p> <p><i>Amanda Rupiper, University of California, Davis – Center for Water- Energy Efficiency</i></p>
2:00 p.m. – 2:30 p.m.	<ul style="list-style-type: none"> · An opportunity for WateReuse California communication and public affairs professionals to meet face-to-face with colleagues from around the state and establish or build on relationships so community engagement techniques can be shared. 	<p>Source Control in Action! Using Source Control to Improve SWIFT Performance</p> <p><i>Tyler Nading, Jacobs</i></p>	<p>Evaluating Post Treatment Challenges for Potable Reuse Applications</p> <p><i>Megan Plumlee, Orange County Water District</i></p> <p><i>David Hokanson, Trussell Technologies, Inc.</i></p>	<p>Implementing an Onsite Non-potable Reuse Program in San Francisco</p> <p><i>Paula Kehoe, San Francisco Public Utilities Commission</i></p>
2:30 p.m. – 3:00 p.m.	<ul style="list-style-type: none"> · A hands-on effort to help solidify the Group’s goal of collaboration among participants through a breakout group assignment where 	<p>Surfs-up at the Ala Wai Golf Course: A New TDS Perspective for Reuse</p> <p><i>Ryan Holloway, Kennedy/Jenks Consultants</i></p>	<p>Evaluating the Integration of Purified Water Into Existing Distribution Systems</p> <p><i>Anya Kaufmann, Trussell Technologies, Inc.</i></p>	<p>Reducing Potable Water Usage at the City of Los Angeles Hyperion WRP</p> <p><i>Amy So, City of Los Angeles Bureau of Engineering</i></p>

	<p>participants will work together to revise the June 2016 Water Reuse Terminology document adopted by several agencies, including WateReuse Association, which was one of the public outreach needs that were identified in the interest survey conducted in August 2018.</p> <p>Facilitators: <i>Melanie Mow Schumacher, P.E.</i> <i>Soquel Creek Water District</i></p> <p><i>Eleanor Torres, ,</i> <i>Orange County Water District</i></p>			
3:00 p.m. – 3:30 p.m.	Networking Break			
3:00 p.m. – 3:30 p.m.	Poster Sessions			
Technical Sessions	A5: Communications Collaborative Group Workshop – Part 2	B5: California Reuse Updates	C5: Quantitative Microbial Risk Assessment	D5: Agriculture and Reuse
3:30 p.m. – 4:00 p.m.	<p>Part 2 (continuation of A4) of a three-hour session.....</p> <p>Granted conditions vary throughout the state – geologically, hydrologically, politically and more. Yet some of the same questions come up everywhere and through collaborating with their peers, public affairs professionals can help each other</p>	<p>New Funding Opportunities for Recycled Water Projects <i>(3:30 - 4:00)</i></p> <p><i>Mike Downey, P.E., SWRCB, DFA / Water Recycling Funding Program</i></p>	<p>PureWaterSF: Purification and Water Quality Risk Analysis for Decentralized DPR</p> <p><i>Manisha Kothari, San Francisco Public Utilities Commission</i></p>	<p>Agricultural Reuse at 20 California Wastewater Facilities</p> <p><i>Tonianne Pezzetti, California Department of Water Resources</i></p>
4:00 p.m. – 4:30 p.m.		<p>In the past five years the State Water Resources Control Board, Division of Financial Assistance has awarded well</p>	<p>A Review and Comparison of Microbial Risks between Planned and De Facto Reuse</p>	<p>Conjunctive Use Recycled Water Program Water Storage and Ecosystem Benefits</p>

	<p>learn about successful approaches and build on those to identify innovative ways to tackle thorny problems all face eventually. There is also a lot of collateral material and related information that has been developed throughout the state, so this Group also offers an opportunity to share resources. In addition, working together will help build the bonds that allow for additional problem-solving exercises in the future.</p>	<p>over a billion dollars in grants and loans available for recycled water project. The water board continues to prioritize the funding of recycled water projects across the State. This presentation will describe the current policies and procedures used to select and approve funding applications including the new priority scoring system for having your project placed on the Fundable List adopted in the annual Intended Use Plan.</p>	<p><i>Jeffrey Soller, Soller Environmental, LLC</i></p>	<p><i>Dave Richardson, Woodard & Curran</i></p>
<p>4:30 p.m. – 5:00 p.m.</p>	<p>Facilitators:</p> <p><i>Patricia Tennyson, Katz & Associates</i></p> <p><i>Carolyn Schaffer, Metropolitan Water District of Southern California</i></p> <p><i>Rupam Soni, Metropolitan Water District of Southern California</i></p> <p><i>Rebecca Gold Rubin, Soquel Creek Water District</i></p>	<p>WRCA Legislation and Priorities for 2019 <i>(4:00 - 5:00)</i></p> <p>Learn about the new 2019 California legislation session and bills impacting both potable and non-potable recycled water projects, including WRCA sponsored legislation. December 2018 the Recycled Water Policy was significantly revised. The policy impacts many aspects of recycled water projects. Learn about the new recycled water statewide goals, recycled water reporting requirements, the wastewater change petition process, and</p>	<p>QMRA 101 – Fundamentals of Planning for, Interpreting, and Utilizing a QMRA</p> <p><i>Andrew Salveson, Carollo Engineers</i></p>	<p>Converting an Agricultural Research Facility from Untreated to Recycled Water</p> <p><i>Darren Haver, University of California, Division of Agriculture and Natural Resources</i></p> <p><i>Paul Cook, Irvine Ranch Water District</i></p>

	<p>the new bioassays tests required for potable reuse projects.</p> <p>Presenters: <i>Jennifer West, WateReuse California</i></p> <p><i>Dave Pedersen, Las Virgenes Municipal Water District (Chair WRCA Leg-Reg Committee)</i></p> <p><i>Christine Compton, Irvine Ranch Water District, (Vice Chair WRCA Leg-Reg Committee)</i></p> <p><i>Beth Olhasso, West Coast Advisors and WRCA Legislative Advocate</i></p>		
5:30 p.m. – 7:30 p.m.	President's Reception		

Tuesday, March 19, 2019	
8:00 a.m. – 12:00 p.m.	Registration Open
8:00 a.m. – 9:30 a.m.	<p>Gordon Cologne Breakfast and Annual Membership Meeting</p> <p>Join us for a celebration of the founders of WateReuse! 2019 marks the 30-year anniversary of the association, which will be recognized at the national conference in San Diego this September. Meet some of the mavericks that started WateReuse -- learn of their early achievements and how they launched a successful national association with seven state sections.</p> <p>Legislative Update California has a new Governor and Legislature. 2019 will be a pivotal year for California water policy and reuse. Hear from WateReuse (WRCA) legislative advocate (Beth Olhasso, West Coast Advisors) on the latest in the what is happening inside the state Capitol and within Governor Gavin Newsom's Administration. Hear about WRCA new efforts to define potable reuse terminology, push forward Title 22 non-potable reuse changes and possibly defend water reuse from unnecessarily mandates.</p>

9:30 a.m. – 2:30 p.m.	Exhibit Hall Open		
9:30 a.m. – 10:00 a.m.	Networking Break		
9:30 a.m. – 10:00 a.m.	Poster Sessions		
Technical Sessions	A6: Panel Discussion – Trends and Predictions for Recycled Water in California	B6: Reuse and Regulations	C6: Treatment Technologies
10:00 a.m. – 10:30 a.m.	General Managers and water reuse leaders from across California will look deeply in the crystal ball and describe what they see as the future of reuse in the next 20 years.	Developing a Statewide Treated Wastewater and Recycled Water Reporting System <i>Laura McLellan, State Water Resources Control Board</i>	Purification of Storm Water & Urban Runoff for Reuse Using Ceramic Membrane Technology <i>Tony Powell, Purifics</i>
10:30 a.m. – 11:00 a.m.	What will climate change and sea level rise mean for reuse?	Multi-Dilution NPDES Permitting: the New Path Forward <i>Brie Post, Trussell Technologies, Inc.</i>	A Simple Measurement of MBR Integrity That Goes Back to Basics <i>Stephen Katz, SUEZ Water Technologies & Solutions</i>
11:00 a.m. – 11:30 a.m.	How will communities plan for drought and uncertain water supplies? What will the regulatory environment look like?	Permitting the First Surface Water Augmentation Project: The City of San Diego's <i>Jeffery Pasek, City of San Diego, Public Utilities Department</i>	Maximizing MF/UF Membrane Life – How One Utility Exceeded Industry Expectations <i>Jim Lozier, Jacobs</i>
11:30 a.m. – 12:00 p.m.	How will automation and technology change our industry? Moderator: <i>Paul Cook, General Manager, Irvine Ranch Water District</i> Panelists: <i>Mike Markus, General Manager, Orange County Water District</i> <i>Norma Camacho, General Manager, Santa Clara Valley Water District</i> <i>Paula Kehoe, Director of Water Resources, San Francisco PUC</i>	Reservoir Modeling for Surface Water Augmentation <i>Seval Sen, Padre Dam Municipal Water District</i>	dprShield: Piloting a New Treatment Process to Increase Recovery at OCWD <i>Erik Desormeaux, Porifera Inc.</i>

12:00 p.m. – 2:00 p.m.	<p>Town Hall Plenary Session and Luncheon</p> <p>Women in Water Reuse: Diversity for the Future An inclusive and diverse water sector is necessary to build trust and promote innovation for the future. Increased inclusion of women and a diverse workforce presents an obvious opportunity to encourage innovation and progress business goals alongside social and developmental goals. This session, led by a professional facilitator, Desire Adaway, will educate, entertain and provide pragmatic information related to understanding the benefits of equity and inclusivity. Women leaders from the reuse industry will serve as supporting facilitators during a series of exercises, led by Desire, to stimulate interactive discussions. The goal of the session is to challenge our membership to look within their organizations, and themselves, to see how they can contribute to supporting an inclusive culture at their organization. Because it's good for business, it's good for our employees and it's good for our communities.</p>		
2:00 p.m. – 2:30 p.m.	Networking Break		
2:00 p.m. – 2:30 p.m.	Poster Sessions		
Technical Sessions	A7: Large System Planning	B7: Operations and Implementation	C7: Potable Reuse Treatment Challenges
2:30 p.m. – 3:00 p.m.	One Water LA 2040 Plan: Maximizing Potential Wastewater Assets <i>Denise Chow, City of Los Angeles, LA Sanitation</i>	AWT Demonstration Facility Implements Innovative Design Concepts <i>Zakir Hirani, Stantec</i>	Fate and Transport of Microplastics in Advanced Water Treatment (AWT) Systems <i>Mutiara Ayu Sari, Stantec</i>
3:00 p.m. – 3:30 p.m.	Moving Towards a Sustainable Water Supply; Large-Scale Water Reuse in California's Silicon Valley <i>Hossein Ashktorab, Santa Clara Valley Water District</i>	Advancing Startup and Training at Pure Water San Diego Using Dynamic Simulation <i>Troy Matsuura, Jacobs</i>	Regulatory Impacts of Decreasing Wastewater Flows on City of L.A Water Recycling <i>Stephen Opot and Eryn Fleming, City of Los Angeles, LA Sanitation</i>
3:30 p.m. – 4:00 p.m.	What it takes to Retrofit 1,200-acres of Urban Public Parks in San Francisco <i>Claudia Llerandi, Kennedy/Jenks Consultants</i> <i>Fan Lau, San Francisco Public Utilities Commission</i>	Addressing Potable Reuse Certification Needs-The AWOT Certification Program <i>Erin Mackey, Brown and Caldwell</i>	Comparing Efficacy of Two GAC-Containing Direct Potable Reuse Treatment Trains <i>Jonathan Loveland, Black & Veatch</i>

Poster Presentations

Attention Points to Manage Supply Water Quality Risks in Potable Reuse

Sandeep Sathyamoorthy, Black & Veatch

Effect of Ozone Dose on RO Permeate TOC – Pure Water Monterey Experience

John Kenny, Trussell Technologies, Inc.

Grey and Yellow Water Treatment and On-Site Reuse using Constructed Wetlands

Monica Rodriguez-Estrada, Grupo Multidisciplinario Integral SC

Managing Wastewater Collection Systems Under Water Conservation: The LA Story

Regidia Voong, City of Los Angeles, LA Sanitation

Performance Based Analytical Method for Determination of 1,4-dioxane and 123-TCP

Lee Yoo, Orange County Water District

Pilot Results from 6 different MF/UF Membranes for Potable Reuse at 3 WWTPs

Christina Casler, Carollo Engineers

Removal of Contaminants of Emerging Concern from using a Novel Water Reclamation

Ilene Ramirez, Cal Poly Pomona

Reuse of Cooling Tower Blowdown at San Jose Conference Center

Steven Peck, Aqua Clear

Suggested Monitoring for Direct Potable: Southern California Water Reclamation

Christina Zabalza, Cal Poly Pomona