CONFERENCE PROGRAM



WateReuse California ANNUAL CONFERENCE

BUILDING A RESILIENT FUTURE TOGETHER

SEPTEMBER 19-21, 2021 • JW MARRIOTT LOS ANGELES



GENERAL INFORMATION

EXHIBIT HALL HOURS

Sunday, September 19

Monday, September 20

Tuesday, September 21

3:00 pm - 6:30 pm

7:30 am - 3:30 pm

9:30 am – 2:30 pm

WELCOME RECEPTION

Sunday, September 19 | 5:30 pm - 7:00 pm | Platinum F-J



Join our exhibitors and your fellow attendees in the exhibit hall as we kick off this year's conference. Welcome back to face to face interaction! SPONSORED BY



PRESIDENT'S RECEPTION

Monday, September 20 $\,$ l $\,$ 6:00 pm - 7:30 pm $\,$ l $\,$ JW Marriott Pool



We hope you will join us on Monday evening for this funfilled networking reception at the pool. SPONSORED BY







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- Interactive Activity Feed where attendees can post, comment on, or "like" other posts
- Share your thoughts about the conference on Facebook, Twitter, and LinkedIn right from the app

GENERAL INFORMATION

POWERPOINT PRESENTATIONS

PowerPoint Presentations can be found in the virtual environment under each Session and Presentation.

PROFESSIONAL DEVELOPMENT HOURS

The WateReuse California Annual Conference is pleased to offer Professional Development Hours (PDHs) for all states.

How Many Educational Credits Can I Earn at the California Annual Conference?

By attending all sessions on Sunday, Monday, and Tuesday, you can earn up to 15 PDHs. You can also earn PDHs by watching content in the virtual environment

How Do I Earn Educational Credits at the California Annual Conference?

In order to receive PDH hours, you will need to complete the PDH form located in your registration packet. These forms can be dropped off at one of the drop boxes located throughout the conference or mailed to the WateReuse office after the conference.

When Will I Receive Credits for the California Annual Conference?

Certificates and transcripts will be made available to participants electronically within 8-10 weeks after the Conference. Please keep in mind that, although WateReuse does provide these files, most states will require the individual licensee to report continuing education credits.

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 concurrent sessions meet specific requirements.



November 10, 2021 11:00 to Noon PST

To learn more about WateReuse California including how to engage in its committees and its local chapters, please go to our website.

https://watereuse.org/sections/watereuse-california/



PLENARY SESSIONS

MONDAY, SEPTEMBER 20

OPENING SESSION

Monday, September 20 | 8:30 am - 9:30 am | Room: Platinum A-E

WELCOME REMARKS

PAUL SCIUTO President, WateReuse California

After coming on as Deputy General Manager of Monterey One Water in September 2014, Paul Sciuto took over as General Manager in June 2015 and has been key to strengthening and maximizing the Agency's commitment to the community. Under his leadership, Monterey One Water moved to modernize, increase efficiency and accountability, and promote new and innovative thinking. Paul has worked in the potable water, wastewater, and recycled water sectors for more than 30 years.

KEYNOTE SPEAKER

E. JOAQUIN ESQUIVEL Water Board Chair

E. Joaquin Esquivel was appointed to the State Water Resources Control Board by Governor Jerry Brown in March 2017 and designated by Governor Gavin Newsom as Chair in February 2019. Previously, he served as Assistant Secretary for federal water policy at the California Natural Resources Agency in the Governor's Washington, D.C. office, where he facilitated the development of policy priorities between the agency, the Governor's Office, the California Congressional delegation, and federal stakeholder agencies.

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OPENING SESSION SPEAKER

BRIAN FUCHS Climatologist, US Drought Monitor

Brian Fuchs is a faculty member and climatologist for the National Drought Mitigation Center (NDMC) at the University of Nebraska, focused on drought related issues and research projects. Brian oversees the Monitoring Program Area and research related to mitigation, risk assessment, monitoring, impact, and reporting of drought. He is one of the lead authors for the United States Drought Monitor and the North American Drought Monitor.



AWARDS LUNCHEON AND PRESENTATION

Monday, September 20 | 12:00 pm - 1:30 pm | Room: Platinum A-E

Join us for a presentation of the California Awards of Excellence as WateReuse California recognizes agencies, customers, and individuals that have demonstrated exceptional leadership in advancing water recycling in California. SPONSORED BY







PLENARY SESSIONS

TUESDAY, SEPTEMBER 21

GORDON COLOGNE BREAKFAST

Tuesday, September 21 | 8:00 am - 9:30 am | Room: Platinum A-E

The Gordon Cologne Breakfast honors exceptional water reuse advocacy in the state. We will also present the WateReuse California Family Feud North v. South – Grudge Match! Can Team South pull it off this year?!





TOWN HALL PLENARY LUNCHEON

Tuesday, September 21 | 12:00 pm - 2:00 pm | Room: Platinum A-E

LA'S WATER REUSE FUTURE

For over 60 years, water and wastewater agencies in the Los Angeles region have been on the forefront of water reuse, implementing numerous projects, driving regulatory change and pushing forward technical innovation. So, what's next for this region?

This panel will provide an engaging discussion on the future of water reuse in the Los Angeles region and beyond. This future includes bold, large-scale, collaborative projects that will build lasting sustainable, reliable, and resilient water supplies.

Join the panel and hear from leaders of water and wastewater agencies who are planning these groundbreaking water reuse efforts. Together, they will collectively create a new supply of water for almost four million people in the Los Angeles Region. Highlighted projects include the Operation NEXT-Hyperion 2035 Joint Programs, the Regional Recycled Water Program, and groundwater storage and augmentation projects in the Central and West Coast Groundwater Basins. Participants will learn about project challenges and opportunities, and how collaboration and partnerships are propelling these projects forward.

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WATEREUSE CALIFORNIA AWARDS

WATEREUSE CALIFORNIA 2021 AWARD WINNERS

Congratulations to the 2021 WateReuse California Award Winners. Use the Award Winners icon on the Conference Mobile App to view the full award description as well as informational videos.

BAHMAN SHEIKH AWARD FOR VISION IN WATER REUSE

FELICIA MARCUS

William C. Landreth Visiting Fellow, Stanford University Water in the West Program

Inforty years of public, private, and non-profit service, Felicia Marcus has advocated, educated, demonstrated, litigated, and regulated for water reuse. She has shared her powerful ideal of integrated water management in which all utilities find common purpose in making the most of our limited water supplies so that California communities prosper without impairing the rich environment which draws so many to our state.

As counsel for Heal The Bay she argued that "used water" had a higher purpose than disposal. As President of the LA Board of Public Works she worked to achieve that purpose through the first Office of Water Recycling. As EPA Region 9 Administrator she continued to encourage utilities to reuse water as an alternative to discharge. More recently, as chair of the California State Water Resources Control Board, Felicia revealed her dedication to water recycling by ensuring that the series of regulations developed under her authority would gain the support of environmental advocates and others who might challenge their adoption.

RECYCLED WATER ADVOCATE OF THE YEAR

JESUS GONZALEZ

Manager of Water Recycling Policy, Water Resources Division, Los Angeles Department of Water and Power

Jesus Gonzalez helped develop, oversee and fund (through LADWP) a 30-second and 2-minute "video brochure" for WateReuse California and Southern California Water Committee. Starting June 4 this will be used to ask the California Legislature and with Legislative staff to provide \$750 million for Recycled Water funding statewide in the Drought Package (2021/22 budget). The video will be embedded in the WRCA advocacy letters and used in legislative meetings. It will also be sent out to all WRCA members so that they can send it out over their social media channels.

Jesus worked closely with WRCA and SCWC and an animation video company to help develop a short video to explain why California needs to make a major investment in recycled water during the current drought. With the Pandemic the California state capitol is largely closed to the public. At the same time major funding hangs in the balance for recycled water. This video allows WRCA to stand out in a crowd as many interest groups make pitches to include funding for various types of projects.

RECYCLED WATER AGENCY OF THE YEAR - LARGE

TERMINAL ISLAND WATER RECLAMATION PLANT

The Terminal Island Water Reclamation Plant (TIWRP) is a dual wastewater treatment and water recycling plant with conventional wastewater treatment processes up to Tertiary treatment, and advanced treatment processes in its Advanced Water Purification Facility (AWPF) consisting of Microfiltration (MF), Reverse Osmosis (RO), and an Advanced Oxidation Process (AOP). It is currently one of the only facilities in the United States to perform wastewater treatment and water recycling in the same facility and has produced and delivered MF and RO-treated water since 2006 for subsurface injection and seawater intrusion prevention at the Dominguez Gap Barrier (DGB). Therefore, TIWRP staff is experienced with the entire process of treating wastewater to recycled water standards.

Recently, TIWRP upgraded its AWPF capacity from 6 MGD to 12 MGD to be able to treat 100% of TIWRP's influent wastewater flow and replaced its chloramination disinfection with an advanced oxidation process.

RECYCLED WATER AGENCY OF THE YEAR - MEDIUM

CITY OF UKIAH

The City of Ukiah has recently completed the first three phases of a new water recycling facility, which provides an additional 1,000 acre-feet per year of water to the Ukiah Valley. The project addresses several local needs including meeting regulatory requirements that limit the city's wastewater discharge to the Russian River. It also creates a more diversified and drought resilient water supply and provides water for agricultural uses like irrigation and frost protection.

WATEREUSE CALIFORNIA AWARDS

Ukiah now has about 30 percent of its water portfolio coming from the recycled water facility. That has greatly increased the stability of its water supply, while reducing diversions from the Russian River which helps protect fisheries.

Due to the Drought Emergency in Mendocino and Sonoma Counties the State Water Resource Control Board sent out Notices of Water Unavailability to all post 1914 water rights holders, effectively curtailing all agricultural diversions in the Ukiah Valley. For many of the farmers connected to the City of Ukiah's Recycled Water Project, recycled water is the only source of water they have in 2021.

RECYCLED WATER AGENCY OF THE YEAR - SMALL

CITY OF HEALDSBURG RECLAMATION FACILITY

The City of Healdsburg produces Title 22 recycled water which is distributed for agricultural, industrial, and construction uses through a distribution system of 2 pump stations, approximately 47,000 linear feet of pipe, and 2 automated filling stations. Water is supplied to over 1,000 acres of vineyards and a local gravel processing facility for dust control and washing aggregate materials used for asphalt and concrete production. The City's trucked recycled water program benefits construction use (primarily soil compaction, dust control, and hydro-seeding), irrigation for remote properties, and residential landscape irrigation. Over 900 residents either self-haul or receive deliveries of recycled water to offset drinking water use for landscape irrigation, reducing diversions from the Russian River by over 40%. 133,000,000 gallons have been reused since January 2020.

RECYCLED WATER CUSTOMER OF THE YEAR

FOREST LAWN MEMORIAL PARKS

Beginning in 1989, Forest Lawn Memorial Park Association has diligently connected all five of their properties located in Los Angeles County (Long Beach, Covina Hills, Cypress, Hollywood Hills and Glendale) to recycled water and, in some cases, building or upgrading transmission lines, storage reservoirs and pump stations. To accomplish this, Forest Lawn has worked with multiple recycled water producers and purveyors. These five locations receive recycled water from four different water reclamation plants (operated by either the Los Angeles County Sanitation Districts or the City of Los Angeles Sanitation Department)

and are served through five separate retail water purveyors. Forest Lawn's five sites use over 1,700 acre-feet per year on 623 acres of cemetery. Environmental stewardship is part of their mission to provide their "forever" business with a sustainable replacement for potable water in irrigating their extensive landscaping serving multiple communities in Los Angeles County.

RECYCLED WATER OUTREACH/EDUCATION PROGRAM OF THE YEAR

PURE WATER OCEANSIDE

The City of Oceanside is committed to improving local supply reliability and communicating the importance of its indirect potable reuse project, Pure Water Oceanside. Complete in 2022, the project will be the first operating IPR project in San Diego County. Once finished, the project will provide more than 32% of the City of Oceanside's water supply. A combination of innovative communication methods and leadership have paved the way for the project. Outreach methods provide information about the project's purpose, need, benefits, technology and safety. The campaign includes educational videos, virtual and in person tour programs, educational materials, media relations and special events. Communication tactics have instilled confidence in the treatment process, highlighted the professionalism of the city's staff - all while building project support.

RECYCLED WATER STAFF PERSON OF THE YEAR

BEN SMITH

Senior Engineer, Orange County Water District

Ben Smith is a principal engineer at the Orange County Water District where he has worked for ten years supporting the District's recycled water program. OCWD operates the Green Acres Project (GAP), which treats secondary treated water to a tertiary level, then provides recycled water for landscape irrigation at parks, schools, and golf courses; industrial uses; toilet flushing; and power generation cooling. From operations, service and repairs, end-users, rules and regulations, accounting, and even writing his master's thesis on GAP operations and management, Ben is the "go to" person for all things related to GAP. Ben's tireless work also led to fundamental changes in GAP pricing and retail agency agreements to ensure the project's long-term viability, reflecting Ben's personal commitment to recycled water.

SUNDAY, SEPTEMBER 19			
	RO CONCENTRATE MINIMIZATION & DISPOSAL - ROOM DIAMOND 6-7 Moderator: Steve Friedman, HDR Sponsor: San Diego County Water Authority		
1:00 pm - 1:30 pm	Brine Minimization Maximizes the Potential for Inland Potable Reuse Project Troy Walker, Hazen and Sawyer Wendie Heie, Rancho California Water District		
1:30 pm - 2:00 pm	Navigating the Path to Brine Management for Potable Reuse in Arid Regions Michael Adelman, Stantec		
2:00 pm - 2:30 pm	Take It to the MAX: Optimizing Closed-Circuit Reverse Osmosis for Brine Recovery in Brackish Groundwater Treatment for Potable Use Scott Miller, Black & Veatch		
2:30 pm - 3:00 pm	Nature-Based Solutions as an Alternative Form of Treatment for RO Concentrate Medi Sinaki, Valley Water Nastaran Basiri, Valley Water		
3:00 pm - 3:30 pm	BREAK Sponsor: Hazen and Sawyer and Padre Dam Municipal Water District		
	DECLINING FLOWS - ROOM DIAMOND 6-7 Moderator: Janet Fordunski, Woodard & Curran Sponsor: HDR		
3:30 pm - 4:00 pm	From Zero to Ninety – Creative Solutions to Achieve Ninety Percent Water Reuse in the City of Oceanside in Ten Years Adam Hoch, Hoch Consulting Lindsay Leahy, City of Oceanside, Water Utilities Department		
4:00 pm - 4:30 pm	A One Water Approach to Water Augmentation for Las Virgenes-Triunfo Pure Water Project Katie Bollmer, Jacobs Eric Schlageter, Las Virgenes Municipal Water District		
5:30 pm – 7:00 pm	WELCOME RECEPTION - ROOM PLATINUM F-J Sponsor: National Water Research Institute and Woodard & Curran		

MONDAY, SEPTEMBER 20				
8:00 am – 8:30 am	CONTINENTAL BREAKFAST Sponsor: Kiewit and El Dorado Irrigation District			
8:00 am – 9:30 am	OPENING SESSION - ROOM PLATINUM A-E Keynote Speaker: E. Joaquin Esquivel, Water Board Chair Opening Session Speaker: Brian Fuchs, US Drought Monitor Sponsor: Kennedy Jenks and San Francisco Public Utilities Commission			
	DIRECT POTABLE REUSE	PLANNING & IMPLEMENTATION	NON-POTABLE REUSE	
	ROOM DIAMOND 1-2 Moderator: Jesus Gonzalez, Los Angeles Department of Water and Power	ROOM DIAMOND 6-7 Moderator: Julie Ann Robison, City of Glendale Sponsor:	ROOM DIAMOND 8-9 Moderator: Pooja Sinha, Stantec Sponsor:	
	Sponsor: AECOM	CDM Smith		
9:30 am – 10:00 am	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 am – 10:30 am	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	

MONDAY, SEPTEMBER 20 (continued)				
10:30 am – 11:00 am	BREAK Sponsor: Dudek			
	POTABLE REUSE CHALLENGES & SOLUTIONS	PLANNING & IMPLEMENTATION	NON-POTABLE REUSE	FEATURED SESSION
	ROOM DIAMOND 1-2 Moderator: Scott Lacy, Brown and Caldwell Sponsor: Trussell Technologies	ROOM DIAMOND 6-7 Moderator: Medi Sinaki, Valley Water Sponsor: Los Angeles Department of Water and Power	ROOM DIAMOND 8-9 Moderator: Jessica Arm, Metropolitan Water District Sponsor: North San Diego Water Reuse Coalition	PANEL DISCUSSIONS ROOM DIAMOND 3 Moderator: Steven Dutschke, Kennedy Jenks Sponsor: Kennedy Jenks
11:00 am – 11:30 am	Risk Based Analysis of IPR and DPR for the Water Corporation of Western Australia Nick Turner, Water Corporation of Western Australia Andrew Salveson, Carollo Engineers	How To Make a Collaborative Delivery Method Work: Hyperion Water Reclamation Plant Delivers Recycled Water to LA's International Airport Christina Jones, LA Sanitation & Environment	The Economics of Sustainable Industrial Water Use, Reuse, and the Value of Water Thomas Chesnutt, A & N Technical Services Eric Rosenblum, Envirospectives	Transforming Utilities, Sustaining Our Assets – How Advanced Analytics Can Guide Better O&M of Water Recycling Systems Mike McCullough, Monterey One Water
11:30 am - 12:00 pm	Compliance with California's Draft DPR Criteria: Case Study of the City of San Diego's Phase 2 Pure Water Project Anya Kaufmann, Brian Pecson, Rhodes Trussell, and Shane Trussell, Trussell Technologies Douglas Owen, Stantec Jeffery Pasek and John Stufflebean, City of San Diego	Water Reuse Results Realized Through Collaboration: A Case Study of OneWater Nevada Lydia (Peri) Teel, Truckee Meadows Water Authority Rick Warner, Warner & Associates	Design Complications Related to Water Recycle and Reuse Using a Membrane- Based Wastewater Treatment System Behrang Pakzadeh, Kiewit	Mehul Patel, Orange County Water District Jeff Foushee, LyondellBasell Will Knight, Seeq

MONDA	y, SEPTEMBER	20 (continued)		
12:00 pm – 12:30 pm	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		Transforming Utilities, Sustaining Our Assets (continued)
12:30 pm – 2:00 pm		IEON - PLATINUM Veatch and AECOM		
2:00 pm – 2:30 pm	POTABLE REUSE CHALLENGES & SOLUTIONS ROOM DIAMOND 1-2 Moderator: Keenan Bull, MKN & Associates, Inc. Sponsor: Irvine Ranch Water District WRF Research to Advance Reuse in California: CA State Water	ARTIFICIAL INTELLIGENCE & REAL-TIME MONITORING ROOM DIAMOND 6-7 Moderator: Jason Dadakis, Orange County Water District Sponsor: Jacobs Recycled Water: The Lynchpin to Groundwater	GROUNDWATER REPLENISHMENT ROOM DIAMOND 8-9 Moderator: Alex Waite, City of Santa Monica Sponsor: Orange County Water District Employing an Inventive Communication and Outreach	FEATURED SESSION PANEL DISCUSSIONS ROOM DIAMOND 3 Moderator: Zeynep Erdal, Black & Veatch Sponsor: Black & Veatch Multi-Pronged Approach to Make Technology Work for
	CA State Water Board Grant Julie Minton, The Water Research Foundation Katie Spahr, The Water Research Foundation Keel Robinson, Trussell Technologies	Sustainability in Coachella Valley Rosalyn Prickett, Woodard and Curran Jignesh Ladhawala, Coachella Valley Water District Armando Rodriguez, Coachella Valley Water District	and Outreach Strategy to Engage by Encouraging Advisory Groups for the Hyperion 2035 Program Christina Jones, LA Sanitation and Environment	Work for Regulatory Success of DPR Heather Collins, Metropolitan Water District of Southern California Kevin Hardy, National Water Research Institute Dave Pedersen, Las Virgenes Municipal Water District

MONDA'	MONDAY, SEPTEMBER 20 (continued)				
2:30 pm – 3:00 pm	CUWA: Facing Obstacles to Maximizing Water Reuse Wendy Broley, 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	Multi-Pronged Approach to Make Technology Work for Regulatory Success of DPR (continued)	
3:00 pm – 3:30 pm	BREAK Sponsor: Dudek				
	POTABLE REUSE CHALLENGES & SOLUTIONS ROOM DIAMOND 1-2 Moderator: Graham Juby, Carollo Engineers Sponsor: Woodard and Curran	ARTIFICIAL INTELLIGENCE & REAL-TIME MONITORING ROOM DIAMOND 6-7 Moderator: Brent Alspach, Arcadis Sponsor: Carollo Engineers	GROUNDWATER REPLENISHMENT ROOM DIAMOND 8-9 Moderator: Hannah Ford, El Toro Water District Sponsor: Water Systems Consulting	PANEL DISCUSSIONS ROOM DIAMOND 3 Moderator: Melanie Holmer, Brown and Caldwell Sponsor: Metropolitan Water District of Southern California	
3:30 pm – 4:00 pm	Climate Resiliency Tool for Future Projects Flor Burrola, City of Los Angeles, LA Sanitation and Environment Henry Durand, City of Los Angeles, LA Sanitation and Environment	Validation of Artificial Intelligence for Water Reuse Andrew Salveson, Carollo Engineers Yasuhiro Matsui, Yokogawa Kevin Hardy, National Water Research Institute	A Methodical Approach to Groundwater Protection on the Central Coast Ben Fine, City of Pismo Beach Amos Branch, Carollo Engineers	Same But Different – Three California Utilities Share What's Most Important for Reuse Projects Ron Duncan, Soquel Creek Water District Christina Becerra Jones, LA Sanitation and Environment Angela Morrow, City of Escondido	

MONDA	/, SEPTEMBER	20 (continued)		
4:00 pm – 4:30 pm	WRF's WRAP (Water Reuse Action Plan) Actions Julie Minton, The Water Research Foundation Rabia Chaudry, US Environmental Protection Agency	Wastewater Intelligence: Optimizing Wastewater Treatment and Maximizing the Resources Available Max Howels, Kando	Peering into the Unknown: Utilizing Aerial Geophysics to Battle Seawater Intrusion and Design an IPR Injection Well Network Daniel Heimel, Water Systems Consulting Ben Fine, City of Pismo Beach	Same But Different – Three California Utilities Share What's Most Important for Reuse Projects (continued)
4:30 pm – 5:00 pm	Potable Reuse Decision Toolbox: Charting an Implementation Pathway for Small to Medium Sized-Agencies Susan Brownstein, Woodard & Curran Erica Wolski, Woodard & Curran Tom Richardson, Woodard and Curran	Advancements in Digital Water Quality Monitoring Allow for Optimized Potable Reuse AWTF Operation Mark Donovan, GHD Tyler Abercrombie, GHD Aditi Padhye, KETOS		
6:00 pm – 7:30 pm		CEPTION – JW MA stern Municipal Wa	RRIOTT POOL ter District and Mon	iterey One Water

TUESDAY, SEPTEMBER 21				
8:30 am – 9:30 am	GORDON COLOGNE BREAKFAST (WRCA MEMBERSHIP MEETING) Sponsor: Environmental Science Associates and Upper San Gabriel Valley Municipal Water District FAMILY FEUD: N. CALIFORNIA VS S. CALIFORNIA GRUDGE MATCH Sponsor: CDM Smith and Inland Empire Utilities Agency ROOM PLATINUM A-E			
9:30 am – 10:00 am	BREAK Sponsored by: Arcadis a	ınd Western Municipal Wa	ter District	
	OUTREACH & COMMUNICATIONS ROOM DIAMOND 6-7 Moderator: Melanie Holmer, Brown & Caldwell Sponsor: Atkins	TREATMENT ROOM DIAMOND 8-9 Moderator: Todd Reynolds, Kennedy Jenks Sponsor: San Francisco Public Utilities Commission	PANEL DISCUSSIONS ROOM DIAMOND 3 Moderator: Joyce Lehman, Metropolitan Water Dist of Southern California Sponsor: Eastern Municipal Water District	
10:00 am – 10:30 am	Redrawing the Potable Reuse Process Flow Chart – How the Rosamond Community Service District Keeps Beneficial Reuse Simple Steve Perez and Greg Wood, Rosamond CSD Brian Villacorta, Coombs Hopkins Company	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 Bruce Chalmers, George Di Giovanni, Joyce Lehman, and Rupam Soni, Metropolitan Water District of Southern California Lysa Gaboudian,	
10:30 am - 11:00 am	Communications: To ConstructionAnd Beyond!! Ron Duncan, 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	and Mike Liu, Los Angeles County Sanitation Districts	

TUESDAY	, SEPTEMBER 21 (c	continued)		
11:00 am - 11:30 am	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, East Bay Municipal Utility District John Kenny, Trussell Technologies	Partnerships for Success with the Regional Recycled Water Program (continued)	
11:30 am - 12:00 pm	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 Alex Franchi and Vijay Sundaram, AECOM		
12:00 pm – 1:30 pm	LUNCH: LA WATER REUSE FUTURE PANEL DISCUSSION ROOM PLATINUM A-E Sponsor: Metropolitan Water of SC			
1:30 pm – 2:00 pm	BREAK Sponsored by: Arcadis a	and Western Municipal Wa	ter District	
	MBR IN IPR PROJECTS	REGULATORY & PERMITTING		
	ROOM DIAMOND 6-7	ROOM DIAMOND 8-9		
	Moderator: Jeremy Neill, Coombs-Hopkins Company Sponsor: NWRI	Moderator: Gina Dorrington, Ventura Water Sponsor: West Yost Associates		
2:00 pm – 2:30 pm	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 Department		

TUESDAY, SEPTEMBER 21 (continued)				
2:30 pm - 3:00 pm	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, Los Angeles Department of Water and Power Azya Jackson, LA Sanitation and Environment		
3:00 pm - 3:30 pm	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		

VIRTUAL SESSIONS

VIRTUAL-ONLY SESSIONS (AVAILABLE IN THE VIRTUAL ENVIRONMENT ONLY)

Alternative Approaches for Chemical and Pathogen Control in CA DPR Projects

Ufuk Erdal. Arcadis

Randy Barnard, State Water Resources Control Board Division of Drinking Water Eric Hoek, University of California, Los Angeles Glen Daigger, University of Michigan

Bioanalytical Screening in Recycled Water – Current Status, Challenges, and Opportunities – Panel Discussion

Claire Waggoner, California State Water Resources Control Board Luciana Pereyra, Trussell Technologies Daniel Schlenk, University of California, Riverside Alvina Mehinto, Southern California Coastal Water Research Project Stephanie Guyon, Los Angeles County Sanitation Districts Rick Zimmer, Eurofins

Challenges in Full-Scale Modeling of Water Resource Recovery Facilities

Mani Firouzian, University of California, Irvine

Evaluation of Peracetic Acid for Biofouling Control of UF Membranes as an Alternative to Chlorine

Jana Safarik, Orange County Water District Martin Reinhard, Stanford University Megan Plumlee, Orange County Water District

Lessons Learned, Challenges, and Barriers to Successful Recycled Water Programs

Suzanne Brown, Los Angeles County Sanitation Districts

Managing Recycled Water and IPR Systems with Declining Wastewater Flows

Denise Chow, Lenise Marrero, and Azya Jackson; City of Los Angeles, LA Sanitation

Online Strontium Meter for Potable Reuse RO LRV Crediting

Eileen Idica, Trussell Technologies Seval Sen, Padre Dam Municipal Water District

Water Reuse Communications in 2021 and Beyond: Developments and Best Practices – Panel Discussion

Patsy Tennyson, Katz & Associates Gina Ayala, Orange County Water District Ivonne Castillo, Metropolitan Water District of Southern California Ben Glickstein, East Bay Municipal Utility District Stephanie Spicer, Los Angeles Department of Water and Power Rebecca Rubin, Soquel Creek Water District

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CDM SMITH

Tom Falk falktc@cdmsmith.com



CENTRAL BASIN MUNICIPAL WATER DISTRICT

Alex Rojas alexr@centralbasin.org



EASTERN MUNICIPAL WATER DISTRICT

Joe Mouwad mouwadj@emwd.org



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