



2022

WaterReuse
CALIFORNIA
CONFERENCE

CONFERENCE PROGRAM



WATERREUSE
CALIFORNIA



GENERAL INFORMATION

EXHIBIT HALL HOURS (GRAND FOYER)

SUNDAY, SEPTEMBER 11

3:00 pm – 6:30 pm

MONDAY, SEPTEMBER 12

7:30 am – 3:30 pm

TUESDAY, SEPTEMBER 13

7:30 am – 2:00 pm

(8:00 am – 9:00 am: *Breakfast with the Exhibitors*)

WELCOME RECEPTION

Sunday, September 11 | 5:30 pm – 7:00 pm | Grand Foyer



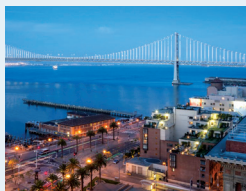
Join our exhibitors and your fellow attendees in the Grand Foyer as we kick off this year's conference.

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PRESIDENT'S RECEPTION

Monday, September 12 | 5:30 pm – 7:00 pm | Waterfront CDE and Foyer



Meet WateReuse California leadership at this annual networking reception.

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CONFERENCE WI-FI

Stay connected at the WaterReuse California Conference thanks to Jacobs, the official Conference Wi-Fi Sponsor.

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PROFESSIONAL DEVELOPMENT HOURS

The WaterReuse 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.

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 the conference registration desk or emailed to lgutierrez@watereuse.org.

When Will I Receive Credits for the California Annual Conference?

Certificates will be made available to participants electronically within 8-10 weeks after the Conference. Please keep in mind that, although WaterReuse 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 WaterReuse technical concurrent sessions meet specific requirements.

PLENARY SESSIONS

MONDAY, SEPTEMBER 12

OPENING SESSION

Monday, September 12 | 8:30 am – 9:30 am | Grand Ballroom

WELCOME REMARKS

PAUL SCIUTO

President, WaterReuse 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.

DENNIS HERRERA

General Manager, San Francisco Public Utilities Commission

Herrera joined the SFPUC in 2021 after serving as San Francisco's City Attorney for nearly 20 years, where he built one of the premier public law offices in the country and spearheaded cases of national importance on civil rights, health-care, and environmental protection. As the SFPUC's lawyer for nearly two decades, Herrera was at the forefront of pivotal water, power, and sewer issues facing San Francisco.



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OPENING SESSION SPEAKER

DR. DAVID SEDLAK

Director, Berkeley Water Center

Dr. Sedlak is the Co-Director of Berkeley Water Center and author of *Water 4.0: The Past, Present, and Future of the World's Most Vital Resource*. Sedlak is a frequent lecturer and TED Talk presenter on developing sustainable water supplies and mitigating catastrophic drought impacts. In addition to his laboratory and field research, Sedlak is interested in the developing new approaches for managing the urban water cycle.



PLENARY SESSIONS

MONDAY, SEPTEMBER 12

AWARDS LUNCHEON AND PRESENTATION

Monday, September 12 | 12:00 pm – 1:30 pm | Grand Ballroom

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

OPENING REMARKS

CRAIG LICHTY

President, WaterReuse Association

Craig Lichty is a Vice President and Northern California Area Director with Black and Veatch. He also serves as the President of the WaterReuse Association and is a past President of WaterReuse California. Craig has over 30 years' experience in the planning and implementing water recycling projects and programs throughout the Western US. He is currently serving as Project Director for the City of Palo Alto's Advance Water Purification System and is supporting Valley Water as an advisor on its Program Management and Owners Advisor team for the P3 delivery of their Purified Water Program.



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AECOM



TUESDAY, SEPTEMBER 13

GORDON COLOGNE PLENARY

Tuesday, September 13 | 9:00 am – 10:00 am | Grand Ballroom

Join the reuse community and The Water Research Foundation in a celebration of a quarter century of advancing potable reuse in California and the partnerships that made it happen. Audience trivia, fun facts, prizes, and the celebration of our champions...

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**CDM
Smith**



**San Diego County
Water Authority**

JOIN US FOR THE GORDON COLOGNE PLENARY

TUESDAY, SEPTEMBER 13
9:00 AM - 10:00 AM

**Celebrate a Quarter Century of
Advancing Potable Reuse in California...
And the Partnerships That Made It Happen**

WaterReuse California, The Water Research Foundation,
and State Water Resources Control Board



THE
**Water
Research**
FOUNDATION



PLENARY SESSIONS

TUESDAY, SEPTEMBER 13

PLENARY LUNCH SESSION

Tuesday, September 13 | 12:30 pm – 1:30 pm | Grand Ballroom

WATER-RESILIENT CALIFORNIA

California is facing daunting water supply challenges. Chris Austin, otherwise known as the water Maven, will lead an all-star panel discussion about the future of water reuse as a key component of California's water supply portfolio. The panelists include **Sean Maguire**, Board Member, State Water Board; **Nancy Vogel**, Deputy Secretary of Water, California Natural Resources Agency; and **Dr. Newsha Ajami**, Lawrence Berkeley Lab. The panelists will provide a perspective of what is the future of water supplies in the Western States in the face of climate change, investments needed to increase drought resiliency and reduce reliance on declining water sources, particularly the Colorado Basin, and how California's regulations and policies are leading the way for water reuse.

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WATEREUSE CALIFORNIA AWARDS

WATEREUSE CALIFORNIA 2022 AWARD WINNERS

RECYCLED WATER AGENCY OF THE YEAR - SMALL

WEST BAY SANITARY DISTRICT

To mitigate the impacts of severe regional drought, West Bay Sanitary District partnered with Sharon Heights Golf Club to construct a satellite recycled water treatment facility at the club's property in Menlo Park, California. Wastewater diverted to the plant is treated and used to irrigate the golf course, preserving as much as 400,000 gallons of potable water each day. This makes a huge difference for residents enduring a seemingly endless cycle of drought and water restrictions. Insights garnered through the project's execution and operation have helped the West Bay Sanitary District establish a strong proof of concept for additional recycled water projects. The District has already begun to identify opportunities for expansion throughout the city, including a second facility in Bedwell Bayfront Park.

RECYCLED WATER AGENCY OF THE YEAR – MEDIUM

SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Innovation has been at the heart of the SFPUC since it started over 100 years ago. SFPUC is continuing in this tradition as it seeks innovative solutions to address its water challenges. New partnerships are being explored to test atmospheric water generation and brewery process water reuse. Under the OneWaterSF umbrella, the SFPUC is actively promoting water use efficiency and developing new local water supplies, including recycled water and onsite water reuse. By planning for and implementing water supply diversification, SFPUC hopes to protect its customers from potential disruptions in water supply and increase its resiliency during times of drought. The SFPUC is reimagining the possibilities for its future water supply and implementing new ideas to meet tomorrow's challenges.

RECYCLED WATER AGENCY OF THE YEAR – LARGE

SANTA MARGARITA WATER DISTRICT

Santa Margarita Water District's Trampas Canyon Dam and Reservoir is the largest surface water reservoir in south Orange County and the jewel of the District's

WATER REUSE CALIFORNIA AWARDS

recycling and reuse assets. At full capacity, the reservoir will hold 1.6 billion gallons of recycled water and in so doing will move the District a step closer to its goal of recycling and storing 100% of its treated wastewater. Another key element of Trampas is that it saves imported drinking water supplies by using the recycled water for outdoor irrigation and construction. In the final analysis, this reservoir is filled with more than recycled water; it is filled with a vision of the future of water reliability for South Orange County.

RECYCLED WATER OUTREACH/EDUCATION PROGRAM OF THE YEAR OLIVENHAIN MUNICIPAL WATER DISTRICT

With California now in an official drought emergency, water resources management is more critical than ever. It is only through the combination of water use efficiency, new supply development, and recycled water use that California can address future water challenges. Olivenhain Municipal Water District recognizes that in order for ratepayers to support recycled water efforts, they need to be well informed. To this end, recycled water is a focal point for OMWD's public outreach campaigns. The importance of water reuse is echoed in all public engagement efforts including in-person events, exploring new potential recycled water customers, through a variety of social media channels, as well as through news releases and the OMWD website. The local demand for recycled water has never been higher and is due largely in part to the outreach efforts of OMWD.

RECYCLED WATER CUSTOMER OF THE YEAR VALERO WILMINGTON REFINERY

The Valero Wilmington Refinery is a major oil refinery located on a 120-acre site in the Los Angeles Harbor District. For the past three years, their commitment to sustainable operations has made them recipients of the Long Beach Green Flag environmental achievement award. In January 2021, Valero committed to using Advanced Treated Recycled Water (ATRW) from Terminal Island Water Reclamation Plant (TIWRP) to run their industrial processes, further demonstrating their commitment to sustainability. Valero is essential to supporting the City's goal of reusing all ATRW for beneficial purposes by 2035 and for complying with the regulatory requirement to cease discharge from TIWRP to the Los Angeles

Harbor by 2024. As the first private recycled water customer in the Harbor, Valero sets a strong precedent for future expansions of LADWP's recycled water system by offsetting over 1000 AFY of potable demand.

RECYCLED WATER CUSTOMER OF THE YEAR

COCO SAN SUSTAINABLE FARM

The CoCo San Sustainable Farm (Farm), through its passionate and tenacious Executive Director, Dr. Carolyn Phinney, has overcome many obstacles to successfully demonstrate that recycled water can be used to grow fruit and vegetables in a highly urbanized area, while providing healthy food to students and those in need, raising awareness about recycled water, teaching the public about sustainable farming practices, and bringing the local community together through volunteering opportunities. The Farm, located on a buffer property adjacent to Central San's wastewater treatment plant, has donated nearly 80,000 pounds of produce to regional food banks and a high school culinary program. It also serves a model that Dr. Phinney hopes to see replicated at other wastewater treatment plants that have recycled water and buffer properties.

RECYCLED WATER STAFF PERSON OF THE YEAR

JOYCE LEHMAN

Principal Engineer/Interim Team Manager, Metropolitan Water District of Southern California

Joyce Lehman's engagement in MWD's Pure Water Southern California Program began in 2015 as a contributor to numerous studies and technical evaluations. She currently oversees operations and testing of a 500,000 gpd, industry-transforming demonstration facility incorporating MBR into a potable reuse AWT train. The data collected under Joyce's leadership are being applied to gain regulatory acceptance and inform design of a 150 mgd full-scale facility. While she prefers being behind the scenes and focusing on her myriad of responsibilities, Joyce's leadership has played an important role in the project's success, and she has gained the respect of her peers by exemplifying excellence. Diligent, driven, and fully committed to achieving the program objectives, she epitomizes the best attributes of Recycled Water Staff Person of the Year.

WATER REUSE CALIFORNIA AWARDS

RECYCLED WATER ADVOCATE OF THE YEAR

CARI DALE

Water Utilities Director, City of Oceanside

Cari Dale has spent over 29 years directing potable water, wastewater, water reuse, and stormwater programs for public utilities. In 2010, the City of Oceanside set an ambitious goal of a 50 percent local water supply by 2030, decreasing the city's dependence on imported water. Ms. Dale's innovative water reliability strategies has allowed the city to develop multiple supply enhancement projects including the expansion of recycled water, higher quality recycled water for agriculture, indirect potable reuse, groundwater expansion, brine optimization and the use of recycled water for habitat. Ms. Dale recently oversaw development of the first fully operational IPR project in San Diego County, Pure Water Oceanside. Pure Water Oceanside became operational in December 2021 producing 3-4.5 million gallons of water per day. Recently Ms. Dale accepted a position with Hoch Consulting as Director Water Resources.

BAHMAN SHEIKH AWARD FOR VISION IN WATER REUSE

ANDY SALVESON

Vice President, Water Reuse Chief Technologist, Carollo Engineers

Andy has devoted his career to recycled water, and like Dr. Sheikh he has pursued this goal with passion, intelligence, and grace. An early advocate of direct potable reuse, Andy evaluated DPR projects throughout the United States and Australia, while his commitment to public health led him to champion the use of quantitative methods—using real performance data—to evaluate risk. A generous collaborator, Andy was invited to participate in sponsored research projects (WHO, NWRI, WEF, and WRF) in nearly a dozen countries. In addition, Andy developed novel techniques to use waste heat to pasteurize wastewater effluent and most recently he has championed the use of AI to enhance the efficiency and reliability of recycled water treatment. Andy Salveson: international expert, trusted colleague, innovator, and recipient of the 2022 Bahman Sheikh Award for Vision in Water Reuse.

PRESIDENT'S AWARD

DR. RHODES TRUSSELL

Dr. Trussell is known worldwide as an authority in water treatment, his career characterized by application of fundamental science to improve water technology. He has advised cities throughout the United States and on every continent, working on dozens of treatment plants, from less than one mgd to more than 900 mgd. Dr. Trussell is often called upon to help utilities manage projects where public health and the support of regulatory authorities is critical. Since founding Trussell Technologies, he has shifted the focus of his work to developing new sources of water for the Southwest, particularly through potable reuse. In recent decades, his most satisfying professional work has been with the WaterReuse Association. Dr. Trussell has been honored by the profession, including the National Academy of Engineering, the AMWA D. R. Boyd Award, the AAEE Kapp Lecture, the AEESP F. G. Pohland Medal, the AWWA A.P. Black Award, the CA-NV AWWA G. F. Fuller award, the IWA Global Water Award, the NWRRI Clark Prize, and the ASCE/EWRI Simon Freese Award.



LIFETIME ACHIEVEMENT AWARD

GEORGE TCHOBANOGLOUS, PHD, PE, NAE, BCEE

George is Professor Emeritus in the Department of Civil and Environmental Engineering at the University of California, Davis. His principal research interests are in the areas of wastewater treatment and water reuse. He has authored or co-authored over 600 technical publications including 23 textbooks and 8 reference works. He has given more than 625 presentations. He has written extensively on water reuse, dating back to 1969 and he still writing on potable reuse. In 2003, he received the Clarke Prize and in 2004, he was inducted into the National Academy of Engineering. George earned his B.S. degree in Civil Engineering from the University of the Pacific, his M.S. degree in sanitary engineering from the University of California at Berkeley, and his Ph.D. from Stanford University.



CONFERENCE SCHEDULE

SUNDAY, SEPTEMBER 11			
11:00 am	REGISTRATION OPENS – MARKET STREET FOYER		
12:00 pm – 12:30 pm			TOUR
	POTABLE REUSE SUCCESS STORIES SEACLIFF A-C Sponsor: Tetra Tech Moderator: Zakir Hirani, Stantec	PANEL DISCUSSIONS GRAND C Sponsor: North San Diego Water Reuse Coalition	SILICON VALLEY ADVANCED WATER PURIFICATION CENTER MARKET STREET FOYER Sponsor: El Dorado Irrigation District
1:00 pm – 1:30 pm	Augmenting Groundwater Aquifers through Direct Injection of Advance Treated Stormwater and Urban Runoff Corey Bracken, Alex Waite, Sunny Wang; City of Santa Monica	Implementing California's First Surface Water Augmentation Project: Lessons from San Diego's North City Pure Water Experience John Carroll, City of San Diego Public Utilities Department Sara Katz, Katz and Associates Doug Owen, Stantec	Bus leaves at 12:15 pm. Lunch will be provided at tour site. Return time is estimated.
1:30 pm – 2:00 pm	GWRS Final Expansion – Squeezing Out the Last Drop Mike Markus and Sandy Scott-Roberts, Orange County Water District	Jeffery Pasek, City of San Diego Public Utilities Department Shane Trussell, Trussell Technologies, Inc.	
2:00 pm – 2:30 pm	Valley Water's Planned Potable Reuse Project with Phased IPR and DPR Hossein Ashktorab and Nastaran Basiri, Valley Water		
2:30 pm – 3:00 pm	The Success Story of UV/Chlorine AOP Performance and Control for Indirect Potable Reuse at Pure Water Oceanside, CA Mihaela Stefan, Trojan Technologies		

SUNDAY, SEPTEMBER 11

3:00 pm – 3:30 pm	BREAK – GRAND FOYER SPONSORS: SAN DIEGO COUNTY WATER AUTHORITY AND STANTEC		
	<p>AGENCY COLLABORATION ON REUSE PROJECTS</p> <p>SEACLIFF A-C</p> <p>Sponsor: Los Angeles County Sanitation District</p> <p>Moderator: Melanie Tan, Kennedy Jenks</p>	<p>PANEL DISCUSSIONS</p> <p>GRAND C</p> <p>Sponsor: Inland Empire Utilities Agency</p>	<p>TOUR</p> <p>SILICON VALLEY ADVANCED WATER PURIFICATION CENTER</p> <p>3:30 return time is estimated.</p>
3:30 pm – 4:00 pm	<p>DERWA-Central San Diversion Project</p> <p>Melody LaBella, Central Contra Costa Sanitary Dist</p> <p>Jan Lee, Dublin San Ramon Services District</p> <p>Florence Wedington, East Bay Municipal Utility District</p>	<p>Potable Reuse Educational Facilities – Lessons Learned and Best Practices</p> <p>Gina Adriano, Valley Water</p> <p>Gina Ayala, Orange County Water District</p> <p>Carrie Del Boccio, Woodard & Curran</p> <p>Stephanie Cuevas (invited), Water Replenishment District</p> <p>Eric Eckl, Water Words That Work</p> <p>Rebecca Gold Rubin, Soquel Creek Water District</p>	
4:00 pm – 4:30 pm	<p>Navigating the Complexities of Regional Partnerships to Achieve Reuse Goals</p> <p>Jeff Noelte, East Valley Water District</p> <p>Rosalyn Prickett, Woodard & Curran</p> <p>Michael Thornton, San Elijo JPA</p>		
4:30 pm – 5:00 pm	<p>A Tale of Two Projects: When Does Potable Reuse Make Sense?</p> <p>Fred Gerringer, Hazen and Sawyer</p>		
5:00 pm – 5:30 pm	BREAK – GRAND FOYER		
5:30 pm – 7:00 pm	WELCOME RECEPTION – GRAND FOYER SPONSORS: ARCADIS, LAS VIRGENES MUNICIPAL WATER DISTRICT, TRUSSELL TECHNOLOGIES, AND WATER REPLENISHMENT DISTRICT		

CONFERENCE SCHEDULE

MONDAY, SEPTEMBER 12

7:30 am – 8:30 am	BREAKFAST – GRAND BALLROOM SPONSOR: DUDEK AND WESTERN MUNICIPAL WATER DISTRICT			
8:30 am – 9:30 am	OPENING GENERAL SESSION – GRAND BALLROOM SPONSORS: CENTRAL CONTRA COSTA SANITARY DISTRICT, METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, MWH CONSTRUCTORS, AND STANTEC Paul Sciuto, President WaterReuse California Dennis Herrera, General Manager, San Francisco Public Utilities Commission Dr. David Sedlak, Author, Co-Director of Berkeley Water Center			
	CONCENTRATE MANAGEMENT BAYVIEW A Sponsor: TORAY Membrane Moderator: Sanjay Reddy, Carollo	CLIMATE CHANGE RESILIENCY SEACLIFF AB Sponsor: Central Basin Municipal Water District Moderator: Claire Johnson, Orange County Water District	EXPANDING & IMPROVING NON-POTABLE REUSE SEACLIFF CD Sponsor: Woodard & Curran Moderator: Mark Tetterer, Irvine Ranch Water District	PANEL DISCUSSIONS BAYVIEW B Sponsor: Kennedy Jenks Moderator: Dawn Taffler, Kennedy Jenks
9:30 am – 10:00 am	Collaborative Approaches to Find the Best Available Technologies for Concentrate Management Ivy Drexler, Isle Utilities Medi Sinaki, Valley Water	Quantification of Carbon for Potable Reuse in CA and Potential Decarbonization Options Gregory Bowden, Karthick Narayanaswamy, and Vijay Sundaram; AECOM	Integrating Water Infrastructure – Maximize Existing Assets Pedro Hernandez, Henry Louie, and Jeff Provenzano; South Bay Water Recycling/City of San José	Multi-Agency Potable Reuse: It's a Marathon, Not a Sprint Negin Ashoori, BAWSCA Justin Chapel, City of Redwood City Kim Hackett, SVCW
10:00 am – 10:30 am	Climate Modeling for Concentrate Management and Evaporation Alternatives Frederick Tack, GHD Inc	Decarbonization, Sustainability and Water Reuse: Managing and Balancing the Upstream with Downstream Sandeep Sathyamoorthy, Black & Veatch	LA's Proof-of-Concept Hyperion AWWPF Informs a Path for Potable Reuse Christina Becerra Jones, LA Sanitation and Environment Andrew Lazenby and Erin Mackey, Brown and Caldwell	Azalea Mitch, City of San Mateo Marisa Tricas, Cal Water Yin Lan Zhang, SFPUC

MONDAY, SEPTEMBER 12

10:30 am –
11:00 am

BREAK – GRAND FOYER

PLANNING
BAYVIEW A

Sponsor:
PCL
Construction, Inc.

Moderator:
Dan Lopez,
Black & Veatch

**ADVANCED
SOURCE
CONTROL**
SEACLIFF AB

Sponsor:
Monterey
One Water

Moderator:
Melody LaBella,
Central San

**PUBLIC
OUTREACH,
EDUCATION, &
COMMUNICATION**
SEACLIFF CD

Sponsor:
Metropolitan
Water District
of Southern
California

Moderator:
Dave Ebersold,
CDM Smith

**PANEL
DISCUSSIONS**
BAYVIEW B

Sponsor:
Black & Veatch

Moderator:
Jeff Neemann,
Black & Veatch

11:00 am –
11:30 am

**Identifying the
Amount of
Wastewater That
Is Available and
Feasible to
Recycle in
California**

Harold Leverenz,
University of
California, Davis

Ryujiro
Tsuchihashi,
Jacobs

**Supporting Water
Reuse through
the Federal
Pretreatment
Program**

Jan Pickrel and
Amelia Whitson,
U.S. EPA

**Comms for All:
A Session with the
WaterReuse
California
Communications
Collaborative
Group**

Rupam Soni,
Metropolitan
Water District
of Southern
California

Patsy Tennyson,
Katz & Associates

**Soup to Nuts of
Delivering IPR/
DPR Projects –
Lessons Learned
and Pun Intended**

Erick Hoek,
UCLA
Department
of Civil and
Environmental
Engineering

Chuck Mitchel,
Black & Veatch

Melanie Mow-
Schumacher,
Soquel Creek
Water District

11:30 am –
12:00 pm

**Show Me
the Money:
Financing Water
Reuse Projects
through the WIFIA
and CA CWSRF
Programs**

Kavita Mak,
U.S. EPA

Nichole Morgan,
State Water
Resources
Control Board

**What Effect Does
PFAS Have on
California Water
Reuse?**

Roshanak Aflaki,
CDM Smith

Lan Wiborg,
Orange County
Sanitation District

**Reaching Out
to Diverse
Communities to
Discuss the Pure
Water Southern
California
Program**

Ivonne Castillo
and Rupam Soni,
Metropolitan
Water District
of Southern
California

Gary Silverman,
Filanc

Kirsten Struve,
Valley Water

CONFERENCE SCHEDULE

MONDAY, SEPTEMBER 12				
12:00 pm – 12:30 pm	The Role of Recycled Water in Understanding Demand Management Katie Evans, Woodard & Curran	A Journey from Industrial Pretreatment to Enhanced Source Control Akin Babtola, City of Santa Cruz Melanie Mow-Schumacher, Soquel Creek Water District Austa Parker, Brown and Caldwell	Building Trust in Treatment Trains, including those with Artificial Intelligence Mark Millan, Data Instincts Kevin Hardy, NWRI	Panel Discussion (continued) Soup to Nuts of Delivering IPR/ DPR Projects – Lessons Learned and Pun Intended
12:30 pm – 2:00 pm	AWARDS LUNCHEON – GRAND BALLROOM PRESENTATION OF CALIFORNIA AWARDS OF EXCELLENCE SPONSORS: AECOM, IRVINE RANCH WATER DISTRICT, VALLEY WATER, AND WOODARD & CURRAN Craig Lichty, President, WateReuse Association, Black & Veatch			
2:00 pm – 2:30 pm	BREAK – GRAND FOYER SPONSOR: HAZEN AND SAWYER			



MONDAY, SEPTEMBER 12

	ADVANCEMENTS IN TREATMENT TECHNOLOGIES BAYVIEW A Sponsor: Trussell Technologies Moderator: Leo Portillo, Black & Veatch	WATER QUALITY ISSUES SEACLIFF AB Sponsor: Orange County Water District Moderator: Alex Franchi, AECOM	REGULATORY, POLICY, & COMPLIANCE ISSUES SEACLIFF CD Sponsor: Irvine Ranch Water District Moderator: Rick Zimmer, Eurofins	PANEL DISCUSSIONS BAYVIEW B Sponsor: Jacobs Moderator: Rich Nagel, Jacobs
2:30 pm – 3:00 pm	Can Recent Advances in Light Scattering Technologies Provide a Viable Surrogate Technology for Virus Monitoring during Potable Reuse? Ganesh Rajagopalan, AECOM	A Proactive Plan to Evaluate Groundwater Leaching for IPR in California Ben Fine, Pismo Beach Damaris Hanson, Morro Bay Rob Morrow, WSC Andrew Salveson, Carollo	REUSExplorer and Synthesis of US State Water Reuse Regulations Rabia Chaudhry and Angela Davis, US EPA	Can Reuse Take the Doubt Out of the Current Drought?! Anselmo Collins, LADWP Shivaji Deshmukh, IEUA Vincent Gin, Valley Water Paula Kehoe, SFPUC Dave Pedersen, LVMWD Paul Sciuto, Monterey One Water
3:00 pm – 3:30 pm	Pilot Evaluation of High Recovery Flow-Reversal RO in Potable Reuse Application Ronit Erlitzki, AdEdge Water Technologies Han Gu and Megan Plumlee, Orange County Water District	Understanding the Potential Implications of California Toxics Rule Compliance for a New Reservoir Water Augmentation Project Jennifer Phillips, Larry Schimmoller, and Paul Swaim; Jacobs David Pederson, Eric Schlategar, Oliver Slosser, and John Zhao; Las Virgenes Municipal Water District	Regulatory Considerations for WRF 4958 to Achieve Greater Pathogen LRVs with RO Membranes Jason Assouline, Carollo Engineers	

CONFERENCE SCHEDULE

MONDAY, SEPTEMBER 12

3:30 pm –
4:00 pm

**The Last Link in
the AWP Chain:
Optimization of
Lime Post-
Treatment for
Surface Water
Augmentation**

Seval Sen,
Padre Dam
Municipal Water
District

Shane Trussell,
Trussell
Technologies, Inc.

**Monitoring
Strategies for
Chemicals of
Emerging Concern
(CECs) in Cali-
fornia's Aquatic
Ecosystems
Recommendations
of a Science
Advisory Panel**

Paul Anderson,
Arcadis

Nancy Denslow,
University of
Florida

Jörg E. Drewes,
Technical
University of
Munich, Germany

Erica Kalve, State
Water Resources
Control Board

Derek Muir,
Environment and
Climate Change
Canada

Adam Olivieri,
EOA, Inc.

Shane Snyder,
Nanyang Techno-
logical University,
Singapore

Daniel Schlenk,
UC Riverside

**The Challenges
of Bringing
Recycled Water
to San Francisco**

Barbara Palacios,
SFPUC

Claudia Llerandi,
Kennedy Jenks

**Panel Discussions
(continued)**

**Can Reuse Take
the Doubt Out
of the Current
Drought?!**

Anselmo Collins,
LADWP

Shivaji Deshmukh,
IEUA

Vincent Gin,
Valley Water

Paula Kehoe,
SFPUC

Dave Pedersen,
LVMWD

Paul Sciuto,
Monterey One
Water

MONDAY, SEPTEMBER 12

				PANEL DISCUSSIONS BAYVIEW B Sponsor: Los Angeles County Sanitation District Moderator: Mark Millan, Data Instincts
4:00 pm – 4:30 pm	Maximizing Virus Log Reduction Above Ground: Strontium and Chloramine Crediting Alison Imamura, Monterey One Water John Kenny, Trussell Technologies, Inc.	East Bayshore Recycled Water Project Quality Challenges and Solutions An Bartlett, EBMUD	How to Comply With Non-Existent Objectives? The Need for and Development of a Salt and Nutrient Management Plan in the Upper Temescal Valley Carolina Sanchez, West Yost	Secrets to Realizing a Water Reuse Project Ron Duncan, Soquel Creek WD Juan Guerrero, Pure Water San Diego Mike McCullough, Monterey One Water
4:30 pm – 5:00 pm	“Active” Control of UV and Free Chlorine Promotes Desired Cost for Critical Oxidation Steps Savings Scott Bindner, Trojan Technologies	Successful Conveyance Strategies for Surface Water Augmentation: East County Water Purification Program Seval Sen, Padre Dam Municipal Water District Gregory Watanabe, GHD	Title 22 Engineering Reports Review – A DDW Recycled Water Unit Staff Perspective Faraz Asad and Scott Miller, State Water Resources Control Board	
5:00 pm – 5:30 pm	BREAK – GRAND FOYER			
5:30 pm – 7:00 pm	PRESIDENT’S RECEPTION – WATERFRONT CDE & FOYER SPONSOR: JR FILANC CONSTRUCTION COMPANY, KUBOTA WATER AND ENVIRONMENTAL, MONTEREY ONE WATER			

CONFERENCE SCHEDULE

TUESDAY, SEPTEMBER 13			
8:00 am – 9:00 am	CONTINENTAL BREAKFAST WITH THE EXHIBITORS – GRAND FOYER		
9:00 am – 10:00 am	GORDON COLOGNE PLENARY – GRAND BALLROOM SPONSORS: CDM SMITH AND SAN DIEGO COUNTY WATER AUTHORITY WRCA ANNUAL MEMBERSHIP MEETING Celebrate A Quarter Century of Advancing Potable Reuse in California and the Partnerships that Made it Happen		
	DIRECT POTABLE REUSE BAYVIEW A Sponsor: AECOM Moderator: Kevin Hardy, NWRI	LESSONS LEARNED PART 1 SEACLIFF AB Sponsor: HDR Moderator: Anita Jain, West Yost	PANEL DISCUSSIONS BAYVIEW B Sponsor: Carollo
10:00 am – 10:30 am	2022 DDW Update on Direct Potable Reuse Brian Bernados, State Water Resources Control Board, DDW	Maturing AWTFs – Lessons Learned Jessica Koop, Water Replenishment District	S.F.'s Oldest Brewery, Anchor Brewing, Pioneers Innovation in Resource Recovery Paula Kehoe, SFPUC Bill Musiak, Cambrian Innovations Brie Post, Trussell Technologies Matt Silver, Cambrian Innovation
10:30 am - 11:00 am	Permitting RWA in a TWA World: Adapting the DPR Criteria for San Diego's RWA Project Anya Kaufmann, Brian Pecson, Shane Trussell, and Rhodes Trussell; Trussell Technologies, Inc. Douglas Owen, Stantec Jeffery Pasek, City of San Diego	Instructions Subject to Change: Commissioning Lessons from Pure Water Monterey Garon Goularte, Monterey One Water	
11:00 am - 11:30 am	For DPR, Can Advanced Treated Water Be Blended with Surface Water Upstream of a Surface Water Treatment Plant? Madeline Kelsch, LADWP Giridhar Upadhyaya, Carollo Engineers	Supply Chain Solutions Steve Friedman, HDR	
11:30 am - 12:00 pm	Marriage of DPR & Ocean Desal – Doheny Ocean Pure Water Augmentation Bob Ohlund, DUDEK	Implementing DPR in Small Communities – Can CA Communities Learn from Cloudcroft, NM? Christian Sanders, Jillian Vadegrift, and Greta Zornes; CDM Smith	

TUESDAY, SEPTEMBER 13

12:00 pm – 1:30 pm	LUNCH PLENARY – GRAND BALLROOM SPONSOR: BLACK & VEATCH Water-Resilient California: How policies, partnerships, regulations, and science can lead the way towards a resilient water supply		
1:30 pm – 2:00 pm	BREAK – GRAND FOYER SPONSOR: CENTRAL CONTRA COSTA WATER DISTRICT AND IRVINE RANCH WATER DISTRICT		
	ONSITE REUSE BAYVIEW A Sponsor: ARCADIS Moderator: Paula Kehoe, SFPUC	LESSONS LEARNED PART 2 SEACLIFF AB Sponsor: Brown and Caldwell Moderator: Pedro Hernandez, City of San Jose	PANEL DISCUSSIONS BAYVIEW B Sponsor: San Francisco PUC Moderator: Melanie Holmer, Brown & Caldwell
2:00 pm – 2:30 pm	Onsite Treatment & Reuse of Nonpotable Water Regulations Brian Bernados, State Water Resources Control Board, DDW	Potable Reuse at Oxnard: The Quest for LRVs Tim Beaman, City of Oxnard Adam Zacheis, Brown and Caldwell	Microplastics – Recycled Water Utility Perspectives on the Next Big Unknown Amber Baylor, SOCWA Jordan Damerel, Fairfield Suisun Lisa Haney, Irvine Ranch Water District Melody LaBella, Central San Diego Rosse, University of CA Irvine
2:30 pm - 3:00 pm	Incorporating Onsite Water Reuse Research into Plumbing Codes and Standards Taylor Nokhoudian, National Blue Ribbon Commission for Onsite Non-Potable Water Systems Rabia Chaudhry and William Platten, US EPA	Water Microbiome through Potable Reuse Treatment Train Rose Kantor and Kara Nelson, University of California, Berkeley Jorien Favere, Ghent University	
3:00 pm - 3:30 pm	An Innovative Water Reuse Concept for Data Center Cooling Ufuk Erdal, ARCADIS Jon Liberzon, Tomorrow Water	Development and Tracer Study Validation of a 3D Model of Miramar Reservoir for Indirect Potable Reuse Kareem Hannoun, Water Quality Solutions Jeffery Pasek, City of San Diego	

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