

CONFERENCE PROGRAM



RECYCLED WATER... FROM EVOLUTION TO REVOLUTION

Westin San Diego Hotel • San Diego, California
March 19-21, 2017

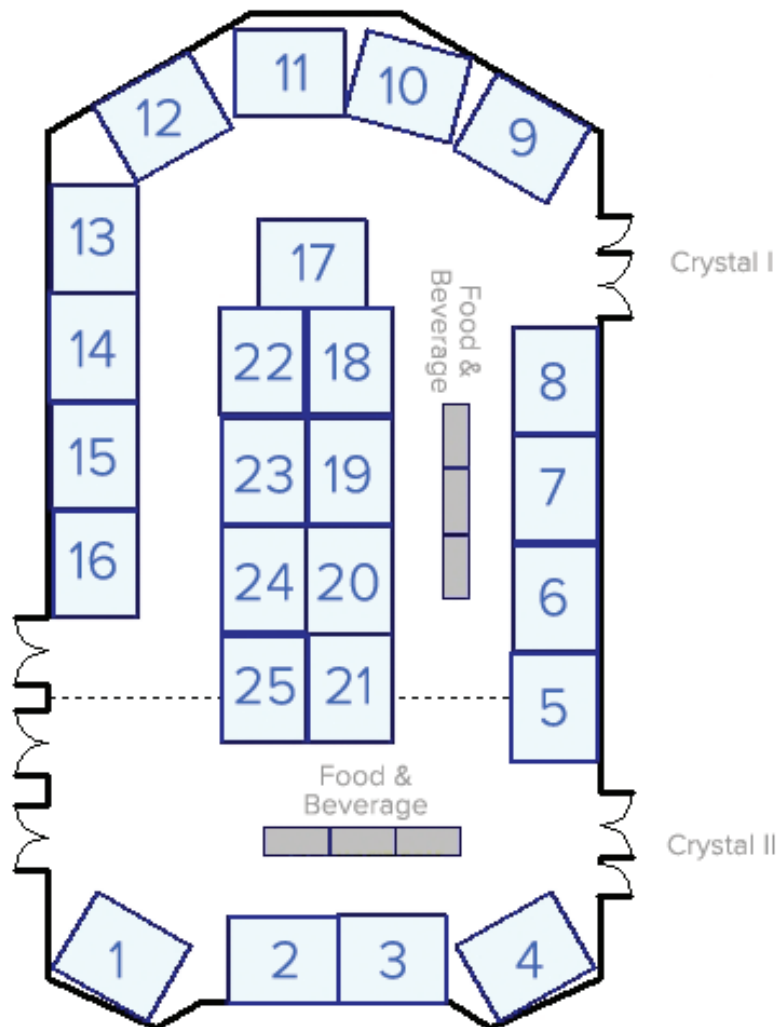
WaterReuse.org

GENERAL INFORMATION

EXHIBIT HALL HOURS

Sunday, March 19	5:00 pm – 6:30 pm
Monday, March 20	7:30 am – 3:30 pm
Tuesday, March 21	9:30 am – 12:00 pm

VENUE: WESTIN SAN DIEGO CRYSTAL BALLROOM



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PRESIDENT'S NETWORKING DINNER AT THE HOUSE OF BLUES

Sponsored by:



Monday, March 20

6:00 pm – 9:00 pm

House of Blues San Diego

1055 Fifth Avenue, San Diego, CA 92101

We hope you will join us on Monday evening for this fun-filled evening with dinner, drinks, a live band as well as Air Hockey, Foosball and Ping Pong at the House of Blues San Diego.

CONFERENCE MOBILE APP

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The Conference Mobile App provides easy-to-use interactivity that will enhance your conference experience:

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To Download the Conference Mobile App:

1. Search the App Store for "WaterReuse" by DoubleDutch
2. Once you download the App, choose the "2017 WaterReuse California Conference"

PURE WATER BREW SAN DIEGO COMPETITION & TASTING

Sunday, March 19
5:00 p.m. - 6:30 p.m.
Crystal Ballroom Foyer

Pure Brew San Diego will feature beers from over a dozen homebrewers from San Diego's Quality Ale and Fermentation Fraternity (QUAFF). The brewers have created their own San Diego-style IPAs or Pale Ales using San Diego's "Pure Water," which is the high-quality recycled water that will become part of the City's drinking water supply starting in 2021. Attendees of this event will have the opportunity to sample the beers and then vote for their favorites. The winning brewers will receive cash prizes.

Learn more about the Pure Water San Diego Program at www.purewatersd.org.

PADRE DAM PILSNER BEER TASTING WITH BALLAST POINT

Monday, March 14
3:00 p.m. - 6:00 p.m.
Crystal Ballroom Foyer

Water is the elixir of life and the starting point for all living things...even beer! Join Padre Dam as they commemorate the Padre Dam Pilsner featuring Ballast Point! Conference guests are invited to sample the cold brew using water from the Advanced Water Purification Program's demonstration facility in Santee, California. The facility uses a four-step purification process of free chlorine disinfection, membrane filtration, reverse osmosis and advanced oxidation. The program will create a new, local, sustainable and drought proof drinking water supply using state-of-the-art technology to purify East County's recycled water. If the program moves forward, it will meet up to 30 percent of East County's current drinking water demands. Learn more about the program at www.EastCountyAWP.com and make sure to join us for Padre Pilsner and celebrate the value of water...and a good beer!

SESSION AND PRESENTATION SURVEYS

Your feedback is important to us so please remember to rate each of the sessions and/or presentations that you attend. Surveys for each session and/or presentation can be found on the Conference Mobile App.

POWERPOINT PRESENTATIONS

PowerPoint Presentations can be found on the Conference Mobile App under each Session and Presentation.

CONTINUING EDUCATION UNITS (CEUs) AND PROFESSIONAL DEVELOPMENT HOURS (PDHs)

The WaterReuse California Annual Conference is pleased to offer Professional Development Hours (PDHs) for all states and Continuing Education Units (CEUs) in the state of **California**.

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 1.5 Continuing Education Units (CEUs) and 15 Professional Development Hours (PDHs).

How do I earn educational credits at the California Annual Conference?

In order to receive **CEU credit**, you will be required to sign-in and sign-out of every session you attend. If you forget to sign-in or sign-out of a session, you will not receive credit for that session; you must do both at every session you attend.

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 WaterReuse 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 WaterReuse does provide these files, most states will require the individual licensee to report continuing education credits. In California, this will need to be done directly with CWEA.

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.

CEU and PDH Credit Calculations:

1.0 CEU = 10 Hours of session time
1.0 PDH = 1 Hour of session time
1.0 Contact Hour = 1 Hour of session time

For Example: 1.2 CEU Credits = 12.0 PDH Credits or 17.0 PDH Credits could equate to 1.7 CEU Credits depending on individual state regulations.

PLENARY SESSIONS

OPENING SESSION

Monday, March 20
8:30 am – 9:30 am
Room: Emerald Ballroom



John Laird, Secretary of Natural Resources

John Laird was appointed California Secretary for Natural Resources by Governor Jerry Brown on Jan. 5, 2011. He has spent nearly 40 years in public service, including 23 years as an elected official.

In 2002, Laird was elected to represent the 27th Assembly District in the California Assembly, which includes portions of Santa Cruz, Monterey and Santa Clara Counties. He was re-elected in 2004 and again in 2006, when he received more than 70 percent of the vote. At the beginning of his second term, Laird joined the Assembly leadership team when Assembly Speaker Fabian Núñez named him chair of the Budget Committee, a position to which he was reappointed by Assembly Speaker Karen Bass in 2008.

While in the California Assembly Laird supported recycled water legislation, including authoring a bill that banned salt-based water softeners that negatively impacted water recycling.

Kevin L. Faulconer, Mayor of San Diego

Kevin L. Faulconer became the 36th mayor of San Diego on March 3, 2014, on a campaign message of bringing San Diego together and restoring integrity to City Hall.

Shortly after taking office, Mayor Faulconer began implementing his vision for “One San Diego,” a unified city with an inclusive city government that creates opportunities for San Diegans and delivers results for every neighborhood.

His accomplishments include directing 50 percent of all new major revenue toward neighborhood improvements; doubling the miles of streets repaired annually; hiring the first female police chief in San Diego history; improving emergency response times in underserved neighborhoods; increasing hours at libraries and recreation centers to their highest level in a decade; creating a year-round indoor homeless shelter for families and veterans that replaced temporary outdoor winter tents; negotiating a five-year agreement with police officers to address recruitment and retention problems; helping innovative companies grow and expand right here in San Diego, and bringing a customer-service attitude to city government.



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AWARDS LUNCHEON

Monday, March 20
12:00 pm – 1:30 pm
Room: Emerald Ballroom

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The Awards Luncheon will recognize excellent water reuse, reclamation, and recycling projects and practitioners. The California Section of the WateReuse Association will present the following Awards of Excellence during the luncheon on Monday:

- Recycled Water Agency of the Year (Large, Medium, and Small)
- Recycled Water Community Outreach/Public Education Program of the Year
- Recycled Water Advocate of the Year
- Recycled Water Customer of the Year
- Recycled Water Staff Person of the Year

GORDON COLOGNE BREAKFAST AND ANNUAL MEMBERSHIP MEETING

Tuesday, March 21
8:00 am – 9:30 am
Room: Emerald Ballroom

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The Gordon Cologne Breakfast, honoring Judge Gordon Cologne (ret.), author of the Porter-Cologne Act and the first lobbyist for the WateReuse Association, brings together policy makers and conferees for an informal update of the latest issues of the day in Sacramento and Washington DC.

This session will also include the presentation of the Gordon Cologne Award, which for the last 19 years recognizes an individual who has made a significant contribution to the legislative or regulatory advancement of water recycling in California.

The 2017 Gordon Cologne Award will be presented to Frances Spivy-Weber in recognition for her outstanding work to advance recycled water policy on the State Water Resources Control Board. Also the President's award will be awarded to Adam Olivieri, Ph.D., P.E. and Jim Crook, Ph.D., P.E., Co-Chairs of the SB 918 Expert Panel for extraordinary contribution and nationwide leadership in potable reuse.

Additionally, Jennifer West, WateReuse California Managing Director, Richard Harris, Nossaman LLP, legislative advocate for WateReuse California will provide state legislative updates on water recycling, including the WateReuse California sponsored legislation AB 574 (Quirk) on potable reuse.

TOWN HALL PLENARY SESSION AND LUNCHEON

Tuesday, March 21
12:00 pm – 2:00 pm
Room: Emerald Ballroom

Mastering Water Reuse – How to Identify and Overcome Extraordinary Challenges

Don't miss this revealing "Town Hall" discussion during Tuesday's conference lunch. Learn from our special guest speakers and well established water recyclers, how they have identified and overcome extraordinary challenges in the quest to implement their agency's projects. Each has faced Institutional Barriers, Political hurdles, Funding challenges, Regulatory compliance issues, and if those were not enough – Public Perception and Acceptance issues in their communities.

Moderated by the experienced recycled water communication specialist, Mark Millan of Data Instincts, Public Outreach Consultants.

Panelists Include:

Jim Fiedler, Chief Operating Officer: *Water Utility Enterprise, Santa Clara Valley Water District*

Halla Razak, Director of Public Utilities, *City of San Diego*

Mike Markus, General Manager, *Orange County Water District*

Paula Kehoe, Water Resources Director, *San Francisco Public Utility Commission*

Allen Carlisle, General Manager, *Padre Dam Municipal Water District*



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2017 WATEREUSE CALIFORNIA AWARD WINNERS



Congratulations to our 2017 WaterReuse California Award Winners. Be sure and view the Award Winners icon on the Conference Mobile App where you can find the full award description as well as an informational video they have each put together for the attendees to view.

RECYCLED WATER AGENCY OF THE YEAR – SMALL City of American Canyon

The City has a robust portfolio of water conservation projects and policies, and is particularly forward-thinking when it comes to recycled water infrastructure. American Canyon depends solely on imported supplies for all of our potable water needs. This means, when a state-wide drought occurs we are impacted heavily. Because of the recent drought the City has been forced to create a new supply of water within our community. The City continues to demonstrate leadership and extraordinary innovation, and we have significantly offset the crippling effects of the State's historical drought by expanding the acceptance and use of recycled water within the community. Our recycled water infrastructure is complemented by policies that creatively engage developers, residents, and businesses – large and small – to offset future water use with sustainable water activities. Recent projects include converting 24 (out of 26) City parks and medians, switching several private commercial and industrial users to recycled water, and requiring many new developments to dual-plumb their buildings. The impetus for these changes is the implementation of our innovative 'Zero Water Footprint' (ZWF) Policy. The ZWF Policy requires new water customers to offset their potable water usage with reduction elsewhere - primarily through the use of recycled water or other conservation projects.

The City recently updated its Recycled Water Master Plan and Water Efficient Landscape Ordinance that can be used as models for communities across the State looking to move toward recycled water infrastructure. We are eager to share our successes and strategies with our peers.

RECYCLED WATER AGENCY OF THE YEAR – MEDIUM Padre Dam Municipal Water District, Helix Water District, City of El Cajon and County of San Diego

Padre Dam Municipal Water District, Helix Water District, the City of El Cajon, and the County of San Diego partnered to create the East County Advanced Water Purification Program (Program). Through the efforts of these agencies, the Program will create a new, local, sustainable, and drought-proof water supply using state-of-the-art technology to purify East San Diego County's recycled water. This new water will diversify East County's water supply, reduce dependence on imported water and ultimately meet 30% of East County's drinking water demands.

These agencies are working together to plan and design capital improvement projects to increase recycled water production, improve water quality, expand recycled water distribution, and implement potable reuse. In 2017 alone, the following activities were completed, representing critical milestones to the successful implementation of the Program:

1. Completed a collaborative Program Planning Study to evaluate the engineering and economic feasibility of the Program.
2. Explored and tested an innovative approach at the Advanced Water Purification Facility aimed at minimizing brine waste and maximizing water production.
3. Received critical feedback and support from an Independent Advisory Panel related to brine minimization and surface water augmentation, to support future approval of the Program.
4. Provided outreach, education, and tours of the Demonstration Facility to 3,000 members of the community, including the public, media, and elected officials.

RECYCLED WATER AGENCY OF THE YEAR – LARGE Eastern Municipal Water District

Eastern Municipal Water District (EMWD) takes significant pride in being the industry standard for recycled water use. Through an integrated and comprehensive approach to facility investment, maximizing external funding opportunities, public outreach and water supply management, EMWD has taken a holistic approach to developing a recycled water program that beneficially uses 100 percent of its available supplies on an annual basis which now accounts for 36 percent of its total water supply portfolio. This is accomplished through support from its Board of Directors and a proactive and forward-thinking agency staff that is consistently evaluating opportunities to create customer-driven programs and deliberate facility investments that increase supply reliability and opportunity for an expanded customer base. Through those efforts, EMWD is committed to long-term water supply sustainability and maximizing its resources in an environmentally responsible manner.

RECYCLED WATER COMMUNITY OUTREACH AND PUBLIC EDUCATION PROGRAM OF THE YEAR Pure Water Monterey

For years, the Monterey Peninsula Groundwater Replenishment Project had languished, bogged down in local politics and a general lack of awareness and understanding. The visionary project, taking storm water, agricultural run-off, industrial wash-water and wastewater and recycling it utilizing a four step Advanced Water Purification Process, would provide a much-needed source of new water for the Monterey Peninsula and Salinas Valley. This safe, sustainable and environmentally sensitive project was the perfect answer for the region's water supply issues.

Locally, however, the project was dead in the water. Over-shadowed by a proposed desalination plant and an ongoing drought, the MPGWR as it was called, was merely an afterthought in the water supply discussion. Realizing the project's future was in extreme jeopardy, the project embarked on a bold and out of the box public outreach and education campaign. To begin, it was rebranded as Pure Water Monterey, the first in a growing line of "Pure Water" projects. Then, to provide much needed external inertia, the campaign turned the established outreach methodology on its head by contacting state and federal elected officials and agencies before beginning to work with local representatives.

This methodology proved to be an exceptional success as a bi-partisan group of high-ranking elected officials began to endorse Pure Water Monterey and industry organization began to recognize the project as truly innovative and the best near-term answer to the region's issues.

Today, Pure Water Monterey is approximately three short months from breaking ground thanks to its innovative Public Outreach and Education Campaign.

RECYCLED WATER CUSTOMERS OF THE YEAR City of Dublin

For more than 25 years, the City of Dublin has partnered with Dublin San Ramon Services District (DSRSD) in establishing and expanding the use of recycled water. In 2017, the city used 147 million gallons of recycled water.

1. To irrigate its parks, medians, and other green spaces—over 90 percent of all the water used for municipal operations.
2. Dublin is the District's second largest recycled water customer. In addition to its own extensive use of recycled water, the City of Dublin works closely with DSRSD in requiring developers to install recycled water distribution pipes in new Dublin developments.

When the District began extending purple pipes into established areas of Dublin in 2012, the city was first in line to retrofit its parks and street medians. Two years later during the drought emergency, the city expedited 25 more conversions to recycled water on city properties. The City of Dublin's support for DSRSD's recycled water program has been essential to diversifying the region's water supply and permanently reducing demand for imported water. Recycled water use by all DSRSD customers in Dublin reached 464 million gallons in 2017, 59 percent of all the recycled water the District sold.

Lake Mission Viejo Association

Lake Mission Viejo Association (LMVA) is deserving of recognition as the 2017 Recycled Water Customer of the Year for their commitment to using recycled water for 100% of their irrigation demands and supplemental lake refill demands. Lake Mission Viejo is a 125-acre man-made lake constructed in 1976, and first filled with potable water in 1978. Today, the lake is the first swimming and recreational lake in California to use

recycled water instead of drinking water for supplemental lake refill. Using recycled water saves 114 million gallons (350 acre-feet) of drinking water every year – enough water to meet the annual demands of 850 homes in the community. The project is estimated to cost \$5.47 million to be paid by LMVA over 20 years. LMVA also upgraded their irrigation systems to use recycled water throughout their 25 acres of landscape. Their annual irrigation demand is 18 million gallons (55 acre-feet). LMVA's investment and use of recycled water is key to ensuring the lake's vitality and the community's identity going forward.

Rose Hills Memorial Park

At 1,400 acres, Rose Hills is North America's largest memorial park. Keeping the grass green is a business priority which requires upwards of 1,300 acre-feet of water a year. Fortunately, Rose Hills has spent the last 23 years figuring out ways to use recycled water on its vast lawns. This is especially important amidst concerns about the drought and water shortages. In 2017 Rose Hills put an end to irrigating lawns with drinking water. Thanks to a change in state law prompted by the drought, Rose Hills is now able to use 100 percent recycled water on its grounds and in decorative fountains, saving enough drinking water for approximately 3,000 homes.

RECYCLED WATER STAFF PERSON OF THE YEAR

Brent Eidson, *City of San Diego Public Utilities Department*

Brent Eidson is the Deputy Director of External Affairs for the City of San Diego Public Utilities Department. In this role, he is responsible for public communications, outreach and media relations, as well as advocacy for state and federal legislative priorities for the City's Pure Water San Diego Program.

Under his leadership, the City has implemented a comprehensive education and outreach program for Pure Water San Diego, the City's potable reuse program to provide one-third of the City's drinking water supply locally by 2035. In 2017, Eidson lead planning efforts for the first-ever Pure Water Day Open House event that was attended by more

than 400 community members. Such innovative outreach efforts have helped increase public support for potable reuse in San Diego by nearly 50 percent since 2004, when public support was at a low of 26 percent.

Eidson's work with regulators, legislators and stakeholders has been instrumental to the success of the Pure Water Program. He has led efforts to gain federal approval for secondary equivalency for the Point Loma Wastewater Treatment Plant. In 2017, this resulted in the U.S. Environmental Protection Agency and the San Diego Regional Water Quality Control Board announcing their tentative approval of a modified permit. Eidson and team also successfully secured unanimous approval from City Council to advance Pure Water and submit a modified permit for Point Loma and secured the votes necessary from San Diego City Council for a five-year water rate plan that will provide funding for Pure Water.

Roshanak Aflaki, *City of Los Angeles, LA Sanitation*

Roshanak Aflaki is that rare municipal leader who is also a true innovator. In a period of great water stress in Southern California, Roshan has been instrumental at LASAN in managing over 100 MGD of Los Angeles' valuable water resources. She is also leading state-of-the-art upgrades at LASAN's facilities that will produce purified water for potable reuse, which is necessary for Los Angeles to meet its water needs. While managing the upgrade and expansion of TIWRP facilities for groundwater recharge, Roshan developed an Advanced Oxidation Process (AOP), from treatability testing to full-scale implementation, using UV with sodium hypochlorite. This AOP will be the first of its kind in the world and save the City millions of dollars. Roshan's willingness to look beyond the status quo and her ability to see better ways of solving challenges have significantly improved the potable reuse industry, and the AOP she developed is currently being specified for a number of future potable reuse projects in California and beyond.

Additionally, Roshan is leading a state-of-the-art potable reuse pilot-scale project at DCTWRP. This pilotscale project examines and compares seven different treatment trains simultaneously and includes such cutting-edge



technologies as ceramic membranes, ozone-enhanced biologically active filtration, enhanced reverse osmosis recovery to minimize brine generation, and soil aquifer treatment. Under Roshan's leadership, this pilot project will not only produce an optimal full-scale design compliant with direct potable reuse criteria, but will also provide the water reuse industry with more innovative solutions to make water reuse safer and more sustainable.

RECYCLED WATER ADVOCATE OF THE YEAR

Patricia Tennyson, *Katz & Associates*

Patricia Tennyson is Executive Vice President of Katz & Associates and an expert in potable reuse communications, with unparalleled experience in advancing communication about the science of water purification technology. She is a frequent industry presenter, panelist, and author and a tireless advocate for expanding water reuse on a local, regional, state and national level.

As a water specialist with nearly 30 years of experience in the industry, Patricia develops and implements outreach and education programs for water agencies nationwide, including numerous agencies throughout California. Patricia recently was co-principal investigator for two WaterReuse Research Foundation projects on public outreach, and she works with the WaterReuse Association to secure support for potable reuse from other industries, including environmental experts and the medical community. She has developed public outreach strategies and informational materials for potable reuse projects for the City of San Diego, Orange County Water District, City of Aurora, Santa Clara Valley Water District and El Paso Water Utilities, among others. Additionally, she has provided public outreach support for numerous agencies, including Denver Water, the Honolulu Board of Water Supply, South Florida Water Management District, San Francisco Public Utilities Commission, West Basin Municipal Water District, Eastern Municipal Water District, Metropolitan Water District and the San Diego County Water Authority.

Patricia is a member of the Board of Trustees for WaterReuse California and a former member of the WaterReuse Research Advisory Council. She is also a member of the AWWA Technical and Education Council and former chair of their Public Affairs Council.



Sunday, March 19, 2017

11:00 a.m. - 4:30 p.m.	Technical Tour – Pure Water San Diego and Claude “Bud” Lewis Carlsbad Desalination Plant SPONSORED BY: Tetra Tech		
2:00 p.m. - 5:30 p.m.	Registration Open – Crystal Ballroom Foyer		
Technical Sessions	A1: IPR Planning	B1: Ozone/BAC	C1: Industrial/Commercial/ Institutional
Sponsored By	Los Angeles Department of Water & Power	Brown and Caldwell	
Room	Opal Room	Diamond I Room	Topaz Room
Moderator	Jason Dadakis, Orange County Water District	Seval Sen, Padre Dam Municipal Water District	Eric Rosenblum, Envirosppectives
3:00 p.m. - 3:30 p.m.	Maximizing Every Drop – Balancing NPR Demands with the Need IPR in Oceanside Scott Goldman, RMC, A Woodard & Curran Company Cari Dale, City of Oceanside	O3 Squared – Ozone-Biofiltration-Ozone-UV in Melbourne Nick Burns, Black & Veatch	Full Scale Reclamation of Hospital Wastewater at a Danish University Hospital Ulf Nielsen, DHI
3:30 p.m. - 4:00 p.m.	Goldilocks – A Potable Reuse Solution That's Just Right... the Story Continues Christina Casler, Carollo Engineers Ron Duncan, Soquel Creek Water District	Real-time Control of Ozone-Enhanced Biologically Active Filtration for Reuse Tony Zhang, Xylem	California's First Fully Dual-Plumbed Hotel Gabriel Vargas, Irvine Ranch Water District
4:00 p.m. - 4:30 p.m.	Water Independence Now – The Road to Locally Sustainable Water Resources Robb Whitaker, Water Replenishment District of Southern California	Optimization of Ozone-BAC Processes for Potable Reuse Applications Vijay Sundaram, Stantec	Technical and Programmatic Considerations for Cooling Tower Reuse Mallika Ramanathan, Brown and Caldwell Dan Jackson, City of Benicia
4:30 p.m. - 5:00 p.m.	Working Together to Increase in Reuse in Santa Clarita Valley Dawn Taffler, Kennedy/Jenks Consultants	The Rise of Ozone BAF for Potable Reuse in California and Beyond Melanie Holmer, MWH, now a part of Stantec	EMWD's Accelerated Retrofit Program, Keeping Community Recreation in a Drought John Wuerth, Eastern Municipal Water District
5:00 p.m. - 6:30 p.m.	Welcome Reception and Pure Brew San Diego Competition & Tasting – Crystal Ballroom and Foyer SPONSORED BY: IDE Technologies Pure Brew San Diego will feature beers from over a dozen homebrewers from San Diego's Quality Ale and Fermentation Fraternity (QUAFF). The brewers have created their own San Diego-style IPAs or Pale Ales using San Diego's "Pure Water," which is the high-quality recycled water that will become part of the City's drinking water supply starting in 2021. Attendees of this event will have the opportunity to sample the beers and then vote for their favorites. The winning brewers will receive cash prizes. Learn more about the Pure Water San Diego Program at www.purewatersd.org		

Monday, March 20, 2017

7:30 a.m. - 3:30 p.m.	Registration Open – Crystal Ballroom Foyer		
7:30 a.m. - 3:30 p.m.	Exhibit Hall Open – Crystal Ballroom		
7:30 a.m. - 8:30 a.m.	Continental Breakfast – Crystal Ballroom SPONSORED BY: Upper San Gabriel Valley Municipal Water District		
8:30 a.m. - 9:30 a.m.	<p>Opening Session – Emerald Ballroom SPONSORED BY: Irvine Ranch Water District</p> <p>JOHN LAIRD, SECRETARY OF NATURAL RESOURCES</p> <p>John Laird was appointed California Secretary for Natural Resources by Governor Jerry Brown on Jan. 5, 2011. He has spent nearly 40 years in public service, including 23 years as an elected official.</p> <p>In 2002, Laird was elected to represent the 27th Assembly District in the California Assembly, which includes portions of Santa Cruz, Monterey and Santa Clara Counties. He was re-elected in 2004 and again in 2006, when he received more than 70 percent of the vote. At the beginning of his second term, Laird joined the Assembly leadership team when Assembly Speaker Fabian Núñez named him chair of the Budget Committee, a position to which he was reappointed by Assembly Speaker Karen Bass in 2008.</p> <p>While in the California Assembly Laird supported recycled water legislation, including authoring a bill that banned salt-based water softeners that negatively impacted water recycling.</p> <p>MAYOR KEVIN L FAULCONER, MAYOR OF SAN DIEGO</p> <p>Kevin L. Faulconer became the 36th mayor of San Diego on March 3, 2014, on a campaign message of bringing San Diego together and restoring integrity to City Hall.</p> <p>Shortly after taking office, Mayor Faulconer began implementing his vision for “One San Diego,” a unified city with an inclusive city government that creates opportunities for San Diegans and delivers results for every neighborhood.</p> <p>His accomplishments include directing 50 percent of all new major revenue toward neighborhood improvements; doubling the miles of streets repaired annually; hiring the first female police chief in San Diego history; improving emergency response times in underserved neighborhoods; increasing hours at libraries and recreation centers to their highest level in a decade; creating a year-round indoor homeless shelter for families and veterans that replaced temporary outdoor winter tents; negotiating a five-year agreement with police officers to address recruitment and retention problems; helping innovative companies grow and expand right here in San Diego, and bringing a customer-service attitude to city government.</p>		
9:30 a.m. - 10:00 a.m.	Networking Break – Crystal Ballroom SPONSORED BY: Dudek		
9:30 a.m. - 10:00 a.m..	Poster Sessions – Crystal Ballroom Foyer		
Technical Sessions	A2: Treatment Innovation	B2: Panel Discussion: San Diego's Pure Water Program	C2: Lessons Learned
Sponsored By	HDR	Trussell Technologies, Inc.	RMC, A Woodard & Curran Company
Room	Opal Room	Diamond I & II	Topaz Room
Moderator	Wendy Broley, Brown and Caldwell	John Helminski, City of San Diego	Eric Owens, West Basin Municipal Water District
10:00 a.m. - 10:30 a.m.	Custom Engineered Microfiltration System at West Basin's Carson Recycling Plant Nathan Boyle, Hazen and Sawyer	Pure Water San Diego: Forging the Path for Surface Water Augmentation Projects	Groundwater Replenishment System Final Expansion Challenges Sandy Scott-Roberts, Orange County Water District

Monday, March 20, 2017 (continued)

Technical Sessions	A2: Treatment Innovation	B2: Panel Discussion: San Diego's Pure Water Program	C2: Lessons Learned
10:30 a.m. - 11:00 a.m.	Online Detection & Removal of Colloidal Particles to Improve Membrane Efficiency Jana Safarik, Orange County Water District Ganesh Rajagopalan, Kennedy/Jenks Consultants	This panel will cover the topics of recycled water planning, regulatory issues, and environmental benefits of the Pure Water San Diego Program. Additionally, it will highlight key challenges of the program, and how the program team has addressed them to maintain project viability and program schedule.	Carlsbad – Seawater Desalination Plant – One Year of Operation David Moxey, IDE Americas
11:00 a.m. - 11:30 a.m.	Evaluation of the Cloth Media Depth Filter at Rates up to 21 gpm/ft2 Onder Caliskaner, Kennedy/Jenks Consultants	Panelists: James Borchardt, MWH, now a part of Stantec	The Unexpected Consequences of the Drought on Water Reuse Facilities Linda Sawyer, Brown and Caldwell
11:30 a.m. - 12:00 p.m.	Natural Attenuation of N-Nitrosodimethylamine (NDMA) Precursors in a De Facto Po Gwen Woods-Chabane, HDR	Shane Trussell, Trussell Technologies Victor Occiano, Brown and Caldwell John Helminski, City of San Diego Amy Dorman, City of San Diego	Chloride in Recycled Water for of Napa Wine Grapes: Identification of Solutions Andrew Damron, Napa Sanitation District
12:00 p.m. - 1:30 p.m.	Awards Luncheon – Emerald Ballroom SPONSORED BY: Water Replenishment District of Southern California		
Technical Sessions	A3: LRVs	B3: San Diego Surface Water Augmentation	C3: Data Management and Analysis
Sponsored By	HDR	Trussell Technologies, Inc.	RMC, A Woodard & Curran Company
Room	Opal Room	Diamond I & II	Topaz Room
Moderator	Alex Wesner, Separation Processes, Inc.	Shane Trussell, Trussell Technologies, Inc.	Scott Goldman, RMC, A Woodard & Curran Company
1:30 p.m. - 2:00 p.m.	LRV Credit using Fluorescence Based, Real Time Membrane Integrity Monitoring Jason Fues, Nalco Water	The Benefits of Reservoirs for Protecting Public Health in Potable Reuse Brian Pecson, Trussell Technologies, Inc.	Finding the Right Balance: Diversification of NPR and IPR at Eastern MWD David Ahles, Eastern Municipal Water District

Monday, March 20, 2017 (continued)

2:00 p.m. - 2:30 p.m.	Proposed Methodology for determining RO Unit Integrity for Pathogen Removal <i>James Vickers, Separation Processes, Inc.</i>	Evaluation of Surface Water Augmentation at Lake Jennings <i>Seval Sen, Padre Dam Municipal Water District</i> <i>Brian Olney, Helix Water District</i>	Recharge City <i>Barry Lehrman, Cal Poly Poma</i>
2:30 p.m. - 3:00 p.m.	Achieving Maximum Pathogen Removal Credit for UF and RO in Potable reuse Schemes – Full-Scale Experience at the Beenyup Advanced Water Recycling Facility <i>Jim Lozier, CH2M</i>	Escondido's Reuse Program for Agriculture and IPR via Surface Water Augmentation <i>Jim Rasmus, Black & Veatch</i>	Dynamic Data Analysis for AWT Facilities with Off-the-Shelf Software <i>Jocelyn Lu, Brown and Caldwell</i>
3:00 p.m. - 3:30 p.m.	Networking Break – Crystal Ballroom SPONSORED BY: Dudek		
3:00 p.m. - 3:30 p.m.	Poster Sessions – Crystal Ballroom Foyer		
3:00 p.m. - 6:00 p.m.	Padre Dam Pilsner Beer Tasting with Ballast Point – Crystal Ballroom Foyer Water is the elixir of life and the starting point for all living things...even beer! Join Padre Dam as they commemorate the Padre Dam Pilsner featuring Ballast Point! Conference guests are invited to sample the cold brew using water from the Advanced Water Purification Program's demonstration facility in Santee, California. The facility uses a four-step purification process of free chorine disinfection, membrane filtration, reverse osmosis and advanced oxidation. The program will create a new, local, sustainable and drought proof drinking water supply using state-of-the-art technology to purify East County's recycled water. If the program moves forward, it will meet up to 30 percent of East County's current drinking water demands. Learn more about the program at www.EastCountyAWP.com and make sure to join us for Padre Pilsner and celebrate the value of water...and a good beer!		

Monday, March 20, 2017 (continued)

Technical Sessions	A4: Today's MBRs	B4: Regulatory Regatta	C4: Economics
Sponsored By	HDR	Trussell Technologies, Inc.	RMC, A Woodard & Curran Company
Room	Opal Room	Diamond I & II	Topaz Room
Moderator	<i>Chance Lauderdale, HDR</i>	<i>Toby Roy, San Diego County Water Authority</i>	<i>John Robinson, John Robinson Consulting, Inc.</i>
3:30 p.m. - 4:00 p.m.	Meeting Today's Industrial Water Demands and Tomorrow's Challenges – Tertiary MBR <i>Bryce Danker, Hazen and Sawyer</i>	Engaging in Discussions Regarding Updates to the Recycled Water Policy <i>Laura McLellan, State Water Resources Control Board</i>	Economic Benefits of Water Reuse and the Impact of Drought <i>Justin Mattingly, Water Environment & Reuse Foundation</i>
4:00 p.m. - 4:30 p.m.	Case Studies to Advance Knowledge of Ceramic MBR Technology for Water Reuse <i>James DeCarolis, Black & Veatch</i>	Direct Potable Reuse Expert Panel on Developing Criteria for Reliability <i>Brian Bernados, State Water Resources Control Board</i>	The Dollars and Cents of a Recycled Water Program Alternatives Analysis <i>Monique Day, West Yost Associates</i>
4:30 p.m. - 5:00 p.m.	MBRs for Potable Water Reuse - Proving Pathogen Removal Performance <i>Nicola Fontaine, Carollo Engineers</i>	The SWRCB and DWR 2015 California Recycled Water Survey Result <i>Tonianne Pezzetti, California Department of Water Resources</i> <i>David Balgobin, State Water Resources Control Board</i>	The Economics of Desalination and Reuse – How to achieve "Water Grid Parity" <i>Udi Tirosh, IDE Technologies</i>
6:00 p.m. - 9:00 p.m.	President's Networking Dinner at the House of Blues San Diego (1055 Fifth Avenue, San Diego, CA 92101) SPONSORED BY: Water Systems Consulting, Inc. We hope you will join us for this fun-filled evening with dinner, drinks, a live band as well as Air Hockey, Foosball and Ping Pong at the House of Blues San Diego.		



Tuesday, March 21, 2017			
8:00 a.m. - 12:00 p.m.	Registration Open – Crystal Ballroom Foyer		
8:00 a.m. - 9:30 a.m.	Gordon Cologne Breakfast and Annual Membership Meeting – Emerald Ballroom SPONSORED BY: San Diego County Water Authority		
9:30 a.m. - 2:30 p.m.	Exhibit Hall Open – Crystal Ballroom		
9:30 a.m. - 10:00 a.m.	Networking Break – Crystal Ballroom SPONSORED BY: MWH, now part of Stantec		
9:30 a.m. - 10:00 a.m..	Poster Sessions – Crystal Ballroom Foyer		
Technical Sessions	A5: Design Stories from South to North	B5: Stormwater and Agriculture	C5: Public Outreach
Sponsored By	American Water Chemicals	Eastern Municipal Water District	Hazen and Sawyer
Room	Opal Room	Diamond I & II	Topaz Room
Moderator	David Russell, American Water Chemicals	Jim Rasmus, Black & Veatch	Barry Dugan, Sonoma County Water Agency
10:00 a.m. - 10:30 a.m.	Expanding Reuse for City of Carlsbad <i>Evelyn Chang, CDM Smith</i>	Keep San Clemente Green & Clean: Impact of Integrating Urban Runoff into WRP <i>Nathan Chase, RMC, A Woodard & Curran Company</i>	It Takes a Village: Ensuring Success in Advancing Water Reuse Program <i>Halla Razak, City of San Diego</i> <i>Sara Katz, Katz & Associates</i> <i>Julie Labonte, MWH, now a part of Stantec</i>
10:30 a.m. - 11:00 a.m.	“Fit for Purpose” Potable Reuse Treatment Strategies for the City of Los Angeles <i>Roshanak Aflaki, City of Los Angeles, LA Sanitation</i>	Non-Potable Reuse and Stormwater Ordinance Synergy: San Francisco’s Approach <i>Eric Zickler, Lotus Water</i>	Sometimes Backwards is Better - A New Twist on Public Outreach for Potable Reuse <i>Steve Thomas, Pure Water Monterey</i>
11:00 a.m. - 11:30 a.m.	Pure Water Monterey: Successful Fast-Track Design of Northern California’s First <i>Todd Reynolds, Kennedy/Jenks Consultants</i>	The Right Protection for the Right Water for the Right Use <i>Tracy Clinton, Carollo Engineers</i> <i>Eric Rosenblum, Envirosppectives</i>	Survey Says? Californians Ready for Potable Reuse <i>Richard Loeffler, Xylem</i>
11:30 a.m. - 12:00 p.m.	Potable Reuse Demo Testing at Silicon Valley Advanced Water Purification Center <i>Hossein Ashktorab, Santa Clara Valley Water District</i>	State of Agricultural Reuse of Recycled Water–Impediments and Incentives <i>Bahman Sheikh, Water Reuse Consulting</i>	No Gaps: Using an Integrated Team Approach for Project Success <i>Karen Snyder, Katz & Associates</i> <i>Andrew Salvesson, Carollo Engineers</i>

Tuesday, March 21, 2017 (continued)			
12:00 p.m. - 2:00 p.m.	Town Hall Plenary Session and Luncheon: Mastering Water Reuse - How to Identify and Overcome Extraordinary Challenges – Emerald Ballroom SPONSORED BY: Xylem Don't miss this revealing “Town Hall” discussion during Tuesday’s conference lunch. Learn from our special guest speakers and well established water recyclers, how they have identified and overcome extraordinary challenges in the quest to implement their agency’s projects. Each has faced Institutional Barriers, Political hurdles, Funding challenges, Regulatory compliance issues, and if those were not enough - Public Perception and Acceptance issues in their communities. Moderated by the experienced recycled water communication specialist, Mark Millan of Data Instincts, Public Outreach Consultants. Panelists include: <i>Jim Fiedler, Chief Operating Officer, Water Utility Enterprise, Santa Clara Valley Water District</i> <i>Halla Razak, Director of Public Utilities, City of San Diego</i> <i>Mike Markus, General Manager, Orange County Water District</i> <i>Paula Kehoe, Water Resources Director, San Francisco Public Utility Commission</i> <i>Allen Carlisle, General Manager, Padre Dam Municipal Water District</i>		
	2:00 p.m. - 2:30 p.m. Networking Break – Crystal Ballroom SPONSORED BY: MWH, now part of Stantec		
	2:00 p.m. - 2:30 p.m.. Poster Sessions – Crystal Ballroom Foyer		
Technical Sessions	A6: Soil Aquifer Treatment	B6: Operational Issues	C6: Disinfection Solutions
Sponsored By	American Water Chemicals	Eastern Municipal Water District	Hazen and Sawyer
Room	Opal Room	Diamond I & II	Topaz Room
Moderator	Ron Crites, Brown and Caldwell	Marc Serna, Moulton Niguel Water District	Troy Walker, Hazen and Sawyer
2:30 p.m. - 3:00 p.m.	FODTS as a Tool for Measuring Recharge Rate in a Potable Reuse Spreading Basin <i>Christine Pham, Orange County Water District</i>	Performing Pipe Loop Pilot Studies: Assessing and Integrating New Water Supplies <i>Jonathan Loveland, Black & Veatch</i>	Maximizing Disinfection Infrastructure for both Potable- and Non-potable Reuse <i>Al Lau, Padre Dam Municipal Water District</i> <i>Brian Pecson, Trussell Technologies, Inc.</i>
3:00 p.m. - 3:30 p.m.	Long-term Performance of Biochar as Bioretention Soil Media Amendment <i>Nabiul Afrooz, Stanford University</i>	Water Quality Influences of Desalinated Seawater from the Carlsbad SWRO Plant <i>Brent Alspach, Arcadis</i>	City of Lathrop CTF Phase 2 Expansion and Free Chlorine Disinfection Study <i>Andy Komor, Pacific Advanced Civil Engineering, Inc.</i>
3:30 p.m. - 4:00 p.m.	Soil Column Testing for San Fernando Valley Groundwater Recharge <i>Yoshiko Tsunehara, Los Angeles Department of Water and Power</i> <i>Bryan Trussell, Trussell Technologies, Inc.</i>	Orange County’s Ground Water Replenishment System Expansion - Operating Results <i>Vasu Veerapaneni, Black & Veatch</i>	The Treatment of RO Permeate for Potable Reuse using UV/Chlorine Advanced Oxidation <i>Keith Bircher, Calgon Carbon UV Technologies</i>

POSTER PRESENTATIONS

Deep Well Placement of Biosolids with Other Waste Water Residuals

Diane Jones, *City of Los Angeles*

Educating NextGen on Advanced Water Purification

Melissa McChesney, *Padre Dam Municipal Water District*

New Water Brew - Recycling Water for the Highest Purpose

Abigail Antilovich, *Xylem*

Pretreatment of WWTP effluents for Reverse Osmosis Reuse consisting of dual biol

Gal Greenberg, *IDE Technologies*

Salt/Nutrient Challenges in the San Fernando Valley

Anthony Hicke, *Upper Los Angeles River Area Watermaster*

THANK YOU 2017 PLANNING COMMITTEE

Wendy Broley, *Brown and Caldwell*

Lesley Dobalian, *San Diego County Water Authority*

Megan Drummy, *Katz & Associates*

Jennifer Duffy, *HDR*

Brent Eidson, *City of San Diego*

Jamie Fagnant, *Infrastructure Engineering Corporation*

Thomas Falk, *CDM Smith*

Karen Jedeke, *Pacific States Water*

Scott Lacy, *Brown and Caldwell*

Jocelyn Lu, *Brown and Caldwell*

Cathy Pieroni, *City of San Diego*

Jim Rasmus, *Black & Veatch*

Sanjay Reddy, *Black & Veatch*

John Robinson, *John Robinson Consulting*

Toby Roy, *San Diego County Water Authority*

Mike Thornton, *San Elijo Joint Powers Authority*

Christopher Trees, *San Elijo Joint Powers Authority*

Mike Wykosky, *Brown and Caldwell*

UPCOMING WATEREUSE EVENTS

May 22-23, 2017:

Industrial and Commercial Water Reuse Conference
Westin Peachtree Plaza *Atlanta, GA*

July 23-27, 2017:

11th IWA International Conference
on Water Reclamation and Reuse
Long Beach Convention Center *Long Beach, CA*

Sept. 10-13, 2017:

32nd Annual WaterReuse Symposium
Renaissance Phoenix Downtown Hotel *Phoenix, AZ*

May 25-28, 2018:

2018 WaterReuse California Annual Conference
Portola Hotel & Spa *Monterey, CA*

Sept. 9-12, 2018:

33rd Annual WaterReuse Symposium
JW Marriott Austin *Austin, TX*





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