

CONFERENCE PROGRAM



**WATEREUSE**  
CALIFORNIA ANNUAL CONFERENCE

## GENERAL INFORMATION

### EXHIBIT HALL HOURS

<b>Sunday, March 25</b>	<b>3:00 pm – 6:30 pm</b>
<b>Monday, March 26</b>	<b>7:30 am – 3:30 pm</b>
<b>Tuesday, March 27</b>	<b>9:30 am – 2:30 pm</b>

VENUE: PORTOLA HOTEL & SPA AT MONTEREY BAY



## CONFERENCE WIFI

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## PRESIDENT'S RECEPTION AT THE MONTEREY BEACH HOUSE

**Monday, March 26**

**5:30 pm – 7:30 pm**

**Monterey Beach House**

**285 Figueroa Street, Monterey, CA 93940**

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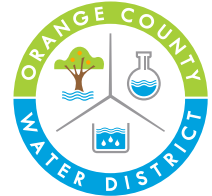
We hope you will join us on Monday evening for this fun-filled networking reception on the sands of the magnificent Monterey Bay. The evening will include food, drinks, games, a beach bonfire and entertainment by the Bounce Kitty Buskers Band – band sponsored by Norris Associates Water and Wastewater Engineering.

## CONFERENCE MOBILE APP

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

- Browse the technical program by time, speaker or track and create your own personalized agenda
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## PURE WATER MONTEREY CRAFT BEER THROWDOWN

Join Pure Water Monterey, Water Systems Consulting and some of the Monterey Peninsula's best craft brewers as they compete for the title of Champion at the Pure Water Monterey Craft Beer Throwdown.

These award-winning brew masters will put their skills to the test combining the ingredients of their choosing with the clean and clear water from Pure Water Monterey's Advanced Water Purification Demonstration Facility.

Attendees at the Welcome Reception will have the opportunity to taste the offerings while choosing their favorite and enjoying the festivities. We hope you'll attend and experience what the Future of Water tastes like!



## 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.

## 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 26**

**8:30 am – 9:30 am**

**Room: De Anza Ballroom II & III**

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**E. Joaquin Esquivel,  
State Water Resources Control Board**

E. Joaquin Esquivel was appointed to the State Water Resources Control Board (Board) by Governor Edmund G. Brown Jr. in March of 2017. Prior to his current appointment to the Board he served as Assistant Secretary for Federal Water Policy at the

California Natural Resources Agency. Working in Governor Brown's Washington D.C. office, Mr. Esquivel represented the interests of the Natural Resources Agency and its departments and facilitated, communication, outreach, coordination, and the development of policy priorities between the Agency, the Governor's Office, the California Congressional delegation, and federal stakeholder agencies in the nation's capital.

Prior to his July 2015 appointment to the Natural Resources Agency, Mr. Esquivel worked for U.S. Senator Barbara Boxer of California for eight and a half years in her Washington D.C. office.

Mr. Esquivel is a graduate of U.C. Santa Barbara with a B.A. in English, was born and raised in California's Coachella Valley, the is the proud son of educators and grandson of farm workers.

## AWARDS LUNCHEON AND PRESENTATION

**Monday, March 26**

**12:00 pm – 1:30 pm**

**Room: De Anza Ballroom II & III**

The Awards Luncheon will recognize excellent water reuse, reclamation, and recycling projects and practitioners. The California Section of the WaterReuse 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

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## GORDON COLOGNE BREAKFAST, ANNUAL MEMBERSHIP MEETING AND WATEREUSE FAMILY FEUD

**Tuesday, March 27**

**8:00 am – 9:30 am**

**Room: De Anza Ballroom II & III**

The Gordon Cologne Breakfast, honoring Judge Gordon Cologne (ret.), author of the Porter-Cologne Act and the first lobbyist for the WaterReuse 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 20 years recognizes an individual who has made a significant contribution to the legislative or regulatory advancement of water recycling in California.

The 2018 Gordon Cologne Award will be presented to Assemblyman Bill Quirk in recognition for his outstanding work in successfully authoring AB 574 a WaterReuse California – California Coastkeeper Alliance sponsored bill.

Additionally, Jennifer West, WaterReuse California Managing Director, Richard Harris, Nossaman LLP, legislative advocate for WaterReuse California and Pat Sinicropi, Executive Director of the WaterReuse Association will provide state and federal legislative and regulatory updates.

Finally, don't miss the first ever WaterReuse Family Feud — North vs. South Edition. Watch teams of General Managers from the North and South face off against each other to answer questions related to recycled water, potable reuse, California and federal water reuse policy and more. Winners receiving prizes and bragging rights!

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## TOWN HALL PLENARY SESSION AND LUNCHEON

**Tuesday, March 27**

**12:00 pm – 2:00 pm**

**Room: De Anza Ballroom II & III**

### **Steven Moore, California State Water Resources Control Board**

Steven Moore was appointed to the board by Governor Edmund G. Brown Jr. in 2012, reappointed in 2016, and elected as Vice Chair of the Board in 2017. He previously served on the San Francisco Bay Regional Water Board from 2008-2012 under the Brown and Schwarzenegger administrations and held staff positions at that Regional Water Board at various times between 1992-2006.

Between 1989 and 2012, Mr. Moore worked over 10 years as an engineer and consultant on a wide variety of water infrastructure projects, including sewer reconstruction, recycled water, stormwater, water supply, stream and wetland restoration, and Environmental Impact Reports throughout California. Mr. Moore has experience both obtaining and issuing discharge permits, wetland permits, and clean water grants and loans. He led Basin Planning for the Regional Water Board from 2002-2006.

### **Mayor Bill Kampe, Mayor of the City of Pacific Grove and President of the Monterey Peninsula Regional Water Authority**

Bill started his professional career earning graduate degrees in engineering and business after serving our country in the United States Navy. A 35-year career with Hewlett-Packard and Agilent Technologies followed in Senior Marketing and Quality Management roles. That experience included global marketing responsibilities for electronic instruments, leadership of environmental programs, customer satisfaction programs, innovation practices, and financial performance measurement.

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After retiring from the private sector, Bill became active in local politics and was elected to the City of Pacific Grove's City Council in 2008 and its Mayor in 2012. As part of his regional responsibilities, he is a board member of the Monterey Peninsula Regional Water Authority and is currently serving as president. The MPRWA is focused on supporting projects to create an alternate water supply to replace excess withdrawals from the Carmel River. He also serves on the Association of Monterey Bay Area Governments, where he just completed a year as president.

Previously, he chaired the board of the Ventana Wildlife Society – restoring the California condor on the Central Coast. He is currently engaged in efforts to attain Heritage Area recognition for the nationally significant history, culture, and resources of our Monterey Bay Area. Bill resides in Pacific Grove, CA where he and his wife have lived for the past 10 years.

### **Jim Peasley, Padre Dam Municipal Water District**

Director Peasley was re-elected to his second four year term in November 2014. He served as Board President in 2014 and Vice President in 2013 and 2018. Peasley has over 35 years of experience in water, recycled water, and wastewater industries as a Registered Professional Civil Engineer. Director Peasley is Padre Dam's current representative on the San Diego Metro Commission/Metro Wastewater Joint Powers Authority, and the Santee Chamber of Commerce. He is also the alternate member of the City of San Diego Independent Rates Oversight Committee.

### **Charles Caspary, Las Virgenes Municipal Water District**

Charles Caspary (Division 1 Director, Vice President) joined the LVMWD board in 2001. A resident of Hidden Hills, he has more than 35 years of experience in the recycling and environmental services industry. Mr. Caspary is former owner of Atlas Refuse Removal and Las Virgenes Disposal, and served on the California Refuse Removal Council, the Greater Los Angeles Solid Waste Management Association. He is named





as co-inventor of several patents in solar energy and water desalination. Caspary formerly served on the Board of Trustees for the Boys & Girls Club of Conejo and Las Virgenes and as a Trustee for the Viewpoint Educational Foundation. Mr. Caspary currently serves on the board of Run For Her, a Calabasas-based charity that promotes awareness of ovarian cancer and raises research funds for the Women's Cancer Research Institute at Cedars - Sinai. He also represents the District on the Governing Board of the Santa Monica Bay Restoration Commission.

### **Barbara Keegan, Santa Clara Valley Water District**

Barbara Keegan was born in Canada to Irish immigrant parents. At the age of twelve her family moved to California, and they subsequently became American Citizens. She first moved to San Jose in 1975 and has lived in District 2 for most of her life. Barbara and her husband currently reside in Willow Glen.

Barbara is a third generation Civil Engineer and has lived in Canada, Ireland, the United States and Brazil. She attended San Jose State University where she earned her Bachelor's and Master's degrees in Civil Engineering. Barbara is a licensed Civil Engineer.

Barbara has a strong professional background in Civil Engineering which includes many years of experience in successfully delivering capital projects and resolving construction disputes. She was the second woman engineer to be hired by the City of San Jose's Public Works Department where she worked for 19 years and rose to the level of Division Manager. Her Division was the largest in the Department and she directly supervised over 100 employees.

Subsequently Barbara became the City Engineer/Assistant Director of Public Works for the City of Sunnyvale. Barbara represented Sunnyvale on the Cities/County/Water District collaborative that dealt with land use authority adjacent to streams. The last two years of her career were spent at the Water District.

In addition to serving on the Water District Board, Barbara also serves on the Boards of the North Willow Glen Neighborhood Association and the San Jose Arena Authority.



## THANK YOU TO OUR CONFERENCE SPONSORS AND EXHIBITORS FOR THEIR SUPPORT!



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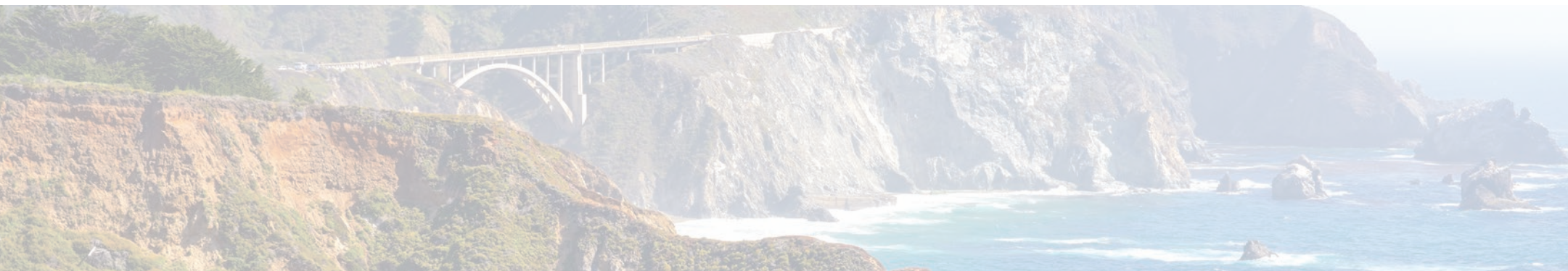
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## 2018 WATEREUSE CALIFORNIA AWARD WINNERS



Congratulations to our 2018 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 Santa Ynez Band of Chumash Indians

The Santa Ynez Band of Chumash Indians (Tribe) reside on a 127-acre Reservation in the community of Santa Ynez, California, in Santa Barbara County. The Tribe has developed an extensive water reuse program over the past 14 years. In the early 2000s, the Tribe embarked upon a major expansion of their original casino on-Reservation, constructing the first Chumash Casino Resort complex on the South Reservation.

In 2004, the Tribe began producing tertiary recycled water on-Reservation for landscape irrigation, cooling tower makeup, and toilet flushing at the Chumash Resort. The Tribe constructed a 0.2 mgd sequencing batch reactor (SBR) plant, with ultra-violet (UV) disinfection, and obtained their first treatment plant discharge permit from the EPA at that time. As a federal Indian Tribe, the Tribe did not need to obtain a State Regional Water Quality Control Board discharge permit; however, they ensured the plant has always complied with State standards for surface water discharge. The permit allowed the Tribe to discharge tertiary recycled water to the East Fork Zanja de Cota Creek (tributary to the Santa Ynez River), and to reuse the tertiary water for on-Reservation reuse including toilet flushing at the Chumash Casino Resort, on-Reservation landscaping, and cooling tower makeup water.

As part of the Tribe's expansion of the Resort in 2016, the Tribe upgraded their WRF to a 0.4 mgd membrane bioreactor (MBR) plant and transitioned to disinfection using chlorine (sodium hypochlorite). At the same time, the Tribe expanded their existing 130,000-gallon recycled water storage capacity to 350,000 gallons to keep up with growing demands on their recycled water program. Wallace Group in conjunction with the Tribe, prepared the first Title 22 Engineering Report for State approval in 2015; once the plant was upgraded to the current MBR plant in 2016 (designed by Pace Engineering), Pace Engineering updated this Title 22 Engineering Report to include the MBR process, and also to address the new chlorine disinfection process which re-used the original plant sand filtration vessels for chlorine contact time. Pace Engineering successfully conducted a field pilot study, to determine that using low CT requirements (less than 90 minutes minimal contact time) will reliably meet the required disinfection standards for tertiary recycled water (2.2 MPN coliform). This updated Report received

State approval in January 2018, and the Tribe continues to deliver recycled water to reuse sites both on- and off-Reservation in Santa Ynez. Off-Reservation reuse sites include two landscaped parcels immediately adjacent to the South Reservation, the Tribe's Unocal service station landscaping, and Caltrans median on Highway 246 adjacent to the South Reservation.

### RECYCLED WATER AGENCY OF THE YEAR – MEDIUM Monterey Peninsula Water Management District and Monterey One Water

Webster's Dictionary describes the word innovation as "the introduction of something new or, a new idea, method or device" with its synonyms including "change, revolution, transformation and breakthrough" Pure Water Monterey embodies the definition of the word "innovation" as not only a groundbreaking project in its conception, but in its water sources, project partnerships, technology, agency approvals and the project's importance to solving environmental health and water supply issues for an entire region.

While Advanced Water Purification projects are not new, most notably Orange County, no other projects have utilized such divergent water sources, across such a divergent and at times disenfranchised group of public and private partners. Additionally, from the standpoint of the science and technology behind safe and affordable water purification, there are no other projects that must account for the breadth and depth of potential contaminants and compounds of emerging concern that Pure Water Monterey does. Finally, under a State of California mandate for project completion and delivery of water by 2019, the principle project partners the Monterey One Water and the Monterey Peninsula Water Management District worked feverously to secure double digit local, state and federal agency approvals that were necessary to qualify for California's State Revolving Fund loan.

Today, through the cooperative thinking of the Monterey Peninsula Water Management District and Monterey One Water the Pure Water Monterey Advanced Water Purification project has officially broken ground and will begin delivering 3,500+ acre-feet per year of pure, potable water in the Spring of 2019.

### RECYCLED WATER AGENCY OF THE YEAR – LARGE City of Modesto, City of Turlock and the Del Puerto Water District

Stanislaus County in California's Central Valley produces more than \$3 billion in agricultural exports annually, making it one of the state's—and nation's—top agricultural producers. That kind of production requires a lot of water—water that has been scarce in recent years due to ongoing drought and state mandated



pumping reductions. In fact, area farmers have received little or no state-supplied water at all for four out of the last five years, and despite recent rainfall, the future continues to look dry.

In December 2017, the North Valley Regional Recycled Water Program—a partnership between the cities of Modesto and Turlock and the Del Puerto Water District—began delivering a new supply of highly reliable tertiary-treated recycled water to thirsty fields and orchards in the San Joaquin Valley. At start up, the project delivers 30,600AFY into the Delta-Mendota Canal, making it one of the largest water recycling projects in the country.

*“This changes the future for the district and its landowners,” says Anthea Hansen, Del Puerto’s General Manager. “It is reliable, it is something you can count on when you talk to the bank and make management decisions for your operation. To me that is the greatest value of this project.”*

The project required a high degree of collaboration and coordination with US Bureau of Reclamation, California State Water Resources Control Board, Regional Water Quality Control Board, environmental interests, San Joaquin River and Delta-Mendota Canal water users, and between the NVRWP partner agencies.

## RECYCLED WATER COMMUNITY OUTREACH AND PUBLIC EDUCATION PROGRAM OF THE YEAR

### East County Advanced Water Purification Program

Padre Dam Municipal Water District provides high quality water, recycled water, park/recreational facilities and wastewater management services for more than 100,000 people in East San Diego County. Padre Dam is 100 percent reliant on imported water for potable customer distribution.

In 2015, as California faced its fifth year of drought and the cost of imported water continued to rise, Padre Dam knew it had to create a solution by diversifying its water supply source and identifying a local supply. As a leader in water reuse, Padre Dam recognized it made sense to recycle its water. With a three million dollar grant from the Department of Water Resources, innovative water purification technologies and knowledge from its pioneering work in wastewater treatment and reuse, Padre Dam embarked on its Advanced Water Purification (AWP) program. Through the program, Padre Dam would create a new, local, and reliable and drought-proof drinking water supply by treating recycled water using advanced water purification technology.

From the beginning, Padre Dam determined a robust public education and outreach program was a crucial element for the program’s overall success. Project leadership agreed community support was as necessary as technical feasibility to evaluate the program. As part of a demonstration facility that produces 100,000 gallons of purified water each day, an AWP Visitor’s Center was

built to welcome the community and serve as the hub for public education and exploration. The public education efforts were launched with initial perception research, inception planning and results compilation.

Utilizing the results of the initial survey a communications program was developed for the project. The education and outreach goals of the Advanced Water Purification Program are to:

- Inform and educate East County stakeholders on the benefits and needs of the Advanced Water Purification Program.
- Build awareness, trust, support and confidence in the quality and safety of advanced water purification and the program with stakeholders.
- Engage the community through involvement in all phases of the program including planning, design, environmental certification, construction and start-up.
- Convey key messages clearly, accurately, coherently and consistently.

## RECYCLED WATER CUSTOMERS OF THE YEAR

### Marine Corps Air Station Miramar

Marine Corps Air Station (MCAS) Miramar located in San Diego, CA has demonstrated excellence by reducing an enormous amount of potable water consumption through a multifaceted water conservation program. The installation has an internally managed distribution system of reclaimed water (RCW) as a utility service. This RCW is used for irrigation, construction activities, dual plumbed buildings, street sweeping, and soon evaporative cooling through connection to cooling towers. In addition to RCW use, the base implements many best practices to further the reduction of potable water such as a central irrigation control for reliable conservation, installation of thousands of low or no flow water fixtures and raising awareness by providing educational water conservation resources to base personal.

The base has invested roughly \$6M in projects. RCW utility expansion projects have increased the infrastructure 47% for a total over 5 miles of distribution systems. Through the expansion of this RCW system almost all major irrigation sites on the installation have been converted to RCW from potable water and will accommodate future use of RCW. Another project converted all of the wash racks on the base to isolated recirculated water systems. These systems are saving 75% of the water used to wash both vehicles and aircraft at the air station.

In 2017, the base’s water use was 35% RCW and has a goal to be 50% in the future with our investment in the RCW utility. Since 2009, potable water usage on the installation has already decreased over 54%.

## RECYCLED WATER STAFF PERSON OF THE YEAR **Elzbieta (Ela) Karczewski, Carlsbad Municipal Water District**

Elzbieta (Ela) Karczewski is an unsung hero in the evolution of recycled water use for the Carlsbad Municipal Water District (CMWD). Since 2003, Ela has been on the forefront of converting commercial, HOA, and institutional sites to nonpotable recycled water irrigation, helping save over 4,000 afy of potable water.

Ela is CMWD's recycled water ambassador, working with customers daily to address site-specific needs and helping them through the retrofit process. She strongly demonstrates CMWD's organizational values of innovation, excellence, and stewardship. When convincing customers to convert to recycled water was a tough sell, Ela worked diligently to meet CMWD's strategic vision of a diversified supply source. CMWD currently serves 884 recycled water meters, more than any other district in San Diego County, and Ela personally converted 379 meters, nearly half of them!

She is remarkable in her ability to single-handedly take projects from design, to plan review to cross-connection testing. No matter the conditions or the obstacles, she produces high quality work and finds ways for her retrofits to save water and money. In 2017, she was solely responsible for connecting 55 sites in less than 10 months. For each site, her work involves a site visit, developing plans for DEH review, retrofit monitoring, and final testing and certification.

Were it not for Ela's dedication, ingenuity and collaborative approach, CMWD would not be able to have built such a strong recycled water program. She is truly worthy of the 2018 California WaterReuse Recycled Water Staff Person of the Year award.

## **Pedro Hernandez, South Bay Water Recycling Program**

Pedro Hernandez demonstrates technical skills, creative initiative, and leadership that enable him to leverage his Program contributions for a wider Regional and State impact. Pedro has nearly 10 years experience with Northern California's largest Recycled Water Program, which has 143 miles of purple pipe, 4 water retailers, and over 850 Commercial customers. His critical program improvements include the creation of a new Enforcement System, complete with field tools, and staff training, and the streamlining of Rules, Regulations and Procedures for Project Permitting and Compliance for the first time in nearly 20 years. Pedro also managed tracking, reporting and reimbursement for over \$61M in U S Bureau of Reclamation Grants for the construction of the SBWR system. His training enhancements include the Redesign of quarterly Site Supervisor Training, and specialized customer training for a mandatory Truck Fill program established under regional drought ordinances.

Pedro leverages his skills and experience to make an impact at the Regional and State level as well, including technical support of nearly 100 plan review and customer service projects per year for the Program's 4 retailers. Through his participation in the County's RW Sub Committee, Pedro was selected to provide Agency training for the development of high quality Site Supervisor Training, which was attended by over 50 water professionals in Santa Clara County. Pedro is influencing the Statewide conversation as an Elected member of the Norcal WaterReuse Board, Chapter Secretary, and member of the Legislative and Regulatory Committee and the Local Program Committees, where he has successfully hosted technical workshops and provided resources for water experts throughout the State.

As Pedro expands his influence into potable water, water conservation, and new technologies for Non-potable water through the San Jose Municipal Water Program, the industry will continue to benefit from his vision, professionalism, and willingness to share his time and expertise with us all.

## RECYCLED WATER ADVOCATE OF THE YEAR **Michael Wehner, Orange County Water District**

Mike Wehner, Assistant General Manager of the Orange County Water District, clearly embodies the spirit of the 2018 WaterReuse Recycled Water Advocate of the Year. Mike has more than 40 years of experience and leadership in recycled water quality and is a true industry pioneer. In the 1980s, he oversaw the regulation of non-potable reuse systems as the Water Quality Program Chief at the Environmental Health Department of the County of Orange, ensuring sensible requirements while protecting local public health. Subsequently, Mike moved to the Orange County Water District where he has led applied research, scientific investigations, water quality monitoring, and regulatory compliance in support of the District's groundwater management and recycled water programs for the last 27 years. He has been crucial to the success of OCWD's world-renowned Water Factory 21 and Groundwater Replenishment System projects, as well as the groundbreaking Santa Ana River Water Quality & Health Study.

Mike's knowledge of potable reuse water quality is unparalleled. He led stakeholder advisory groups organized by the Division of Drinking Water and its predecessors to incrementally update Draft Groundwater Recharge Reuse Project regulations, leading to the adoption of final regulations in 2014. He is a sought after expert, serving on long-term advisory panels for the City of San Diego, LADWP, Monterey One Water, Thames Water in the United Kingdom, and the Singapore PUB. But more importantly, he has set the professional standard for scientific rigor and transparency that have instilled public confidence in potable reuse in Orange County and beyond.

## Sunday, March 25, 2018

<b>11:00 a.m. - 5:00 p.m.</b>	<b>Technical Tour</b> – Monterey Bay Area Water Reuse: Working Together Toward Success ( <i>departing from the main entrance of the hotel</i> )		
<b>12:00 p.m. - 5:30 p.m.</b>	<b>Registration Open</b> – De Anza Foyer		
Technical Sessions	A1: Economics: Show Me the Money	B1: Getting the Salt Out	C1: The Latest in RO
<b>Room</b>	De Anza Ballroom II	Portola	Bonsai Ballroom
<b>Moderator</b>	<i>Gayleen Darting, Sacramento Regional County Sanitation District</i>	<i>Maryam Albor, Goleta Water District</i>	<i>Dave MacNevin, Tetra Tech</i>
<b>1:00 p.m. - 1:30 p.m.</b>	Funding Recycled Water Projects in California  <i>Michael Downey, State Water Resources Control Board</i>	Evaluation of TDS Reduction Processes for Upgrade of WWTP in Southern California  <i>Brent Sutter, Woodard &amp; Curran</i>	Keep the FAT but Hold the Chloramines! – the San Diego Experience  <i>Aleks Pisarenko, Trussell Technologies, Inc.</i>
<b>1:30 p.m. - 2:00 p.m.</b>	The Economics of Building Recycled Water Infrastructure  <i>An Bartlett, East Bay Municipal Utility District</i>	Pilot Evaluation of Closed-Circuit Reverse Osmosis for RO Concentrate Treatment  <i>Han Gu, Orange County Water District</i>	High Recovery RO-Challenges to Meet Nitrogen Limits in IPR via SWA Projects  <i>Ufuk G. Erdal, AECOM</i>
<b>2:00 p.m. - 2:30 p.m.</b>	Strategies for Optimizing Return-On-Investment for Industrial Water Reuse  <i>Peter Martin, Woodard &amp; Curran</i>	Geochem Characterization to Control Metal Mobilization for Groundwater Recharge  <i>Sunny Wang, Brown and Caldwell</i>	Optimizing Performance and Restoring Permeability for a Water Reuse RO System  <i>David Russell, American Water Chemicals</i>
<b>2:30 p.m. - 3:00 p.m.</b>	TBL Tool for Process Level Comparisons of Supplies: Case Studies & Sensitivities  <i>Stephanie Ishii, Hazen and Sawyer</i>	Life-cycle Cost Analysis for Brine Minimization at Padre Dam MWD  <i>Seval Sen, Padre Dam Municipal Water District</i>  <i>Brett Faulkner, Trussell Technologies, Inc.</i>	Pure Water Monterey AWPf Predesign: Pilot testing for design and operations  <i>John Kenny, Trussell Technologies, Inc.</i>
<b>3:00 p.m. - 3:30 p.m.</b>	<b>Networking Break</b> – De Anza Foyer		
<b>3:00 p.m. - 3:30 p.m.</b>	<b>Poster Sessions</b> – De Anza Foyer		

## Sunday, March 25, 2018 (continued)

Technical Sessions	A2: Supply Projections and Source Limitations	B2: Decentralized Reuse	C2: The Latest in AOP
<b>Room</b>	De Anza Ballroom II	Portola	Bonsai Ballroom
<b>Moderator</b>	<i>Sandy Scott-Roberts, Orange County Water District</i>	<i>Sarah Rhodes, Woodard &amp; Curran</i>	<i>Keel Robinson, Trussell Technologies, Inc.</i>
<b>3:30 p.m. - 4:00 p.m.</b>	California Recycled Water Use Projections  <i>Tonianne Pezzetti, California Department of Water Resources</i>	Filling the Gaps for Decentralized Reuse  <i>Guy Carpenter, Carollo Engineers</i>	Use of UV/Chlorine AOP in Potable Reuse: When Does it Make Sense?  <i>Adam Festger, Trojan Technologies</i>
<b>4:00 p.m. - 4:30 p.m.</b>	Unintended Consequences of Water Conservation in a Regional Wastewater Conveyance  <i>Wyatt Troxel, EnerVention Strategies</i>	Implementing Treatment and Crediting Schemes for On-Site, Non-Potable Reuse  <i>Paula Kehoe, San Francisco Public Utility Commission</i>	The ABC's of UV-AOP: Design Considerations for Potable Reuse  <i>Melanie Holmer and Steven Winfree, Stantec</i>
<b>4:30 p.m. - 5:00 p.m.</b>	Adapting to Change - Declining Flows and Utility Systems  <i>Wendy Broley, Brown and Caldwell</i>	Establishing Design Criteria for Decentralized Nonpotable Water Systems  <i>Amelia Luna, Sherwood Design Engineers</i>	Predicting Non-Steady State UV AOP with Potable Reuse Applications  <i>Harold Wright, Carollo Engineers</i>
<b>5:00 p.m. - 6:30 p.m.</b>	<b>Welcome Reception and the Pure Water Monterey Craft Beer Throwdown</b> – De Anza Foyer and Ballroom <b>SPONSORED BY: Water Systems Consulting, Inc.</b>		



## Monday, March 26, 2018

<b>7:30 a.m. - 3:30 p.m.</b>	<b>Registration Open</b> - De Anza Foyer			
<b>7:30 a.m. - 3:30 p.m.</b>	<b>Exhibit Hall Open</b> - De Anza Foyer			
<b>7:30 a.m. - 8:30 a.m.</b>	<b>Continental Breakfast</b> - De Anza Foyer <b>SPONSORED BY: Dudek</b>			
<b>8:30 a.m. - 9:30 a.m.</b>	<b>Opening Session</b> - De Anza Ballroom II & III <b>SPONSORED BY: CH2M, now Jacobs</b> <b>E. JOAQUIN ESQUIVEL</b> State Water Resources Control Board			
<b>9:30 a.m. - 10:00 a.m.</b>	<b>Networking Break</b> - De Anza Foyer <b>SPONSORED BY: TrojanUV</b>			
<b>9:30 a.m. - 10:00 a.m.</b>	<b>Poster Sessions</b> - De Anza Foyer			
Technical Sessions	A3: Panel Discussion - Health and Medical Perspectives	B3: One Water Source Diversity	C3: Route to Potable Reuse	D3: Purified Water Systems O&M
Sponsored By	HDR	Woodard & Curran		
Room	De Anza Ballroom I	Portola	Bonsai Ballroom	Redwood
Moderator	Eric Rosenblum, Envirosppectives, Inc.	Ben Fine, City of Pismo Beach	Ken Ortega, Water Replenishment District of Southern California	Jonathan Loveland, Black & Veatch
<b>10:00 a.m. - 10:30 a.m.</b>	The panel will discuss issues and case studies related to the safety of potable and nonpotable water reuse and public perceptions of health risks. Panelists will include public health practitioners, a physician active in the local medical association and a water reuse professional involved in public outreach.	Overcoming Challenges to Achieve Adaptable & Beneficial One Water Management  <i>Laine Carlson, Water Systems Consulting, Inc.</i>	Striking a Balance to Create a Public Asset  <i>Jeffery Szytel and Lianne Westberg, Water Systems Consulting, Inc.</i>  <i>Dave Hix, City of San Luis Obispo</i>	Optimized for Today. Adaptable for Tomorrow  <i>Emily Iskin and Jasmine Diaz, Water Systems Consulting, Inc.</i>
<b>10:30 a.m. - 11:00 a.m.</b>	One Water LA: Big and Bold Water Reuse Planning to Make L.A. a More Resilient City  <i>Lenise Marrero, City of Los Angeles, Bureau of Sanitation</i>  <i>Inge Wiersema, Carollo Engineers</i>	Trailblazing: Ventura's Path to Become the First DPR System in California  <i>Gina Dorrington, Ventura Water</i>  <i>Lydia Holmes, Carollo Engineers</i>	Source Control: HRSD Takes it to the Next Level  <i>Larry Schimmoller, CH2M</i>	
<b>11:00 a.m. - 11:30 a.m.</b>	<i>Cindy Russell, MD, Board Certified Plastic, Reconstructive &amp; Cosmetic Surgeon, Chair of the Santa Clara County Medical Association Environmental Health Committee</i>	Innovative Approach to Maximize Stormwater, Groundwater and Wastewater Reuse  <i>Emi Fujii, Stantec</i>	Water Reuse as a Tool to Achieve a Sustainable Groundwater Basin  <i>Brian Lockwood, Pajaro Valley Water Management Agency</i>	Bridging the Air Gap: A Direct Connection between Potable and ATRW Systems in LA  <i>Glenn Micko, Los Angeles Department of Water and Power</i>

## Monday, March 26, 2018 (continued)

<b>11:30 a.m. - 12:00 p.m.</b>	<i>Panel Continued:</i> <i>Brian Bernados, State Water Resources Control Board</i>  <i>John Ricker, County of Santa Cruz - Health Services Agency - Environmental Health</i>  <i>Stefani McGregor, The Water Research Foundation</i>	From Channel to Tap - Stormwater as a Source for Reuse  <i>Lisa Skutecki, Brown and Caldwell Water and Power</i>	The Bridge Between IPR and DPR: Tujunga Spreading Grounds  <i>Yoshiko Tsunehara, Los Angeles Department of Water and Power</i>	Blending Desalinated Seawater into Existing Supplies: Chloramines & Nitrification  <i>Brent Alspach, Arcadis</i>
<b>12:00 p.m. - 1:30 p.m.</b>	<b>Awards Luncheon</b> - De Anza Ballroom II & III <b>SPONSORED BY: Wallace Group</b>			
Technical Sessions	A4: Panel Discussion - Monterey Lessons Learned	B4: Tools for Project Delivery: Design/Build and GIS	C4: Risk in Potable Reuse	D4: Gaining and Maintaining Customers - Part 1
Sponsored By	HDR	Woodard & Curran		
Room	De Anza Ballroom I	Portola	Bonsai Ballroom	Redwood
Moderator	Steve Thomas, TBC Communications	Scott Lynch, Black & Veatch	Robin Nezhad, Tetra Tech	Bob Holden, Monterey One Water
<b>1:30 p.m. - 2:00 p.m.</b>	Join a diverse panel of experts as they discuss the successes and setbacks encountered during the planning, approval and construction of the Pure Water Monterey project. This lively and informative session will explore the winding road to approval from the engineering, environmental, financial, legislative and public outreach perspectives.	Innovative GIS-Based Cost Analysis Solves Complex NPR Market Assessment  <i>Paul Chau, Kennedy/Jenks Consultants</i>	Pathogens and Reuse: The City of San Diego's North City WRP Pathogen Study  <i>Shane Trussell and Mitchel Bartolo, Trussell Technologies, Inc.</i>	Orange County's Approach to Recycled Water Use Site Inspection, Testing and More  <i>Mark Tettemer, Irvine Ranch Water District</i>
<b>2:00 p.m. - 2:30 p.m.</b>		Public-Private Partnership to Deliver Recycled Water Through Design-Build  <i>Dave Richardson, Woodard &amp; Curran</i>	Regulating Raw Water Augmentation - Results from a Pathogen Benchmarking Study  <i>Dave MacNevin, Tetra Tech</i>	Water into Wine: Converting NapaSan's New Recycled Water Customers  <i>Andrew Damron, Napa Sanitation District</i>
<b>2:30 p.m. - 3:00 p.m.</b>	<i>Paul Sciuto, Monterey One Water</i>  <i>Gary Petersen, Salinas Valley Groundwater Sustainability Agency</i>  <i>David Chardavoyne, Monterey County Water Resources Agency</i>  <i>Rudy Fisher, Monterey One Water</i>	End in Sight: Lessons Learned from WRD's \$110M AWTF Alternative Delivery Project  <i>Ken Ortega, Water Replenishment District of Southern California</i>	How Much is Enough? Evaluating Treatment Redundancy in DPR  <i>Brian Pecson, Trussell Technologies, Inc</i>	Cooling Their Jets - Piloting Recycled Water for Cooling Towers at Northrop Grumman Aerospace Systems  <i>Elise Goldman, West Basin Municipal Water District</i>  <i>Travis Long, Aqua-Serve Engineers</i>
<b>3:00 p.m. - 3:30 p.m.</b>	<b>Networking Break</b> - De Anza Foyer <b>SPONSORED BY: TrojanUV</b>			

# Monday, March 26, 2018 (continued)

3:00 p.m. - 3:30 p.m.	Poster Sessions – De Anza Foyer			
Technical Sessions	A5: Panel Discussion – Transitioning to Potable Reuse	B5: Agricultural Reuse and Recharge	C5: MBR for Potable Reuse	D5: Gaining and Maintaining Customers – Part 2
Sponsored By	HDR	Woodard & Curran		
Room	De Anza Ballroom I	Portola	Bonsai Ballroom	Redwood
Moderator	Tom Richardson, Woodard & Curran	Brian Lockwood, Pajaro Valley Water Management Agency	Andrew Salveson, Carollo Engineers	Rhodora Biagtan, Dublin San Ramon Services District
3:30 p.m. - 4:00 p.m.	Several agencies in California are contemplating the addition of potable reuse to their existing water supply portfolio, which already includes non-potable reuse. A panel of water agency executives will share experiences and perspectives on the evolution of water recycling at their agency from non-potable to a combined non-potable/potable reuse setting.	Drivers of Agricultural Water Reuse: Stakeholder Groups and Regional Differences  Anne Thebo, Pacific Institute	MBR + RO: How They Work Together  Stephen Katz, Suez Water Technologies & Solutions	Creating Recycled Water Ambassadors  Ben Glickstein, East Bay Municipal Utility District
4:00 p.m. - 4:30 p.m.		Groundwater Replenishment with Recycled Water on Agricultural Lands (WRRF-16-03)  Robert Morrow, Woodard & Curran	Implications of MBR Optimization and Log Reduction Credits for Potable Reuse  Jonathan Loveland, Black & Veatch	Streamlining Compliance for a Mature Program  Jeff Provenzano, South Bay Water Recycling
4:30 p.m. - 5:00 p.m.	Norma Camacho, Santa Clara Valley Water District  John Helminski, City of San Diego Public Utilities Department  Mike Markus, Orange County Water District  Karin North, City of Palo Alto  Dave Pedersen, Las Virgenes Municipal Water District  Bill Van Wagoner, Los Angeles Department of Water and Power	Overcoming Technical and Regulatory Barriers for Application of Recycled Water  Mohsen Mehran, Rubicon Engineering Corporation	Practical Operational Approaches to Meet Pathogen LRV Requirements for GWRS  Mehul Patel, Orange County Water District	Inter-jurisdictional Partnership Efforts for Potable Reuse in Silicon Valley  Hossein Ashktorab, Santa Clara Valley Water District
5:30 p.m. - 7:30 p.m.	President’s Reception at the Monterey Beach House SPONSORED BY: American Water Chemicals, Inc.			

# Tuesday, March 27, 2018

8:00 a.m. - 12:00 p.m.	Registration Open – De Anza Foyer		
8:00 a.m. - 9:30 a.m	Gordon Cologne Breakfast, Annual Membership Meeting and WateReuse Family Feud – De Anza Ballroom II & III SPONSORED BY: Water Replenishment District of Southern California		
9:30 a.m. - 2:30 p.m.	Exhibit Hall Open – De Anza Foyer		
9:30 a.m. - 10:00 a.m.	Networking Break – De Anza Foyer SPONSORED BY: Stantec		
9:30 a.m. - 10:00 a.m..	Poster Sessions– De Anza Foyer		
Technical Sessions	A6: Panel Discussion – Advances in Potable Reuse Regulations	B6: Local and California Outreach	C6: Alternative Treatment Trains
Sponsored By	Xylem, Inc.		Carollo Engineers
Room	De Anza Ballroom I	Portola	Bonsai Ballroom
Moderator	Jennifer West, WateReuse California	Piret Harmon, Scotts Valley Water District	Gina Dorrington, Ventura Water
10:00 a.m. - 10:30 a.m.		Successful Water Reuse Communication Techniques Illustrated  Patricia Tennyson, Katz & Associates	Are TOC and COD Limits Appropriate for Regulating Potable Reuse?  Larry Schimmoller, CH2M
10:30 a.m. - 11:00 a.m.	Status of California Water Board Investigation of Direct Potable Research Issues  Adam Olivieri, EOA, Inc.  The Water Environment & Reuse Foundation's Advancing Potable Reuse Initiative	Just Because They'll Drink It Doesn't Mean You've Reached the Finish Line  Brent Eidson, City of San Diego Public Utilities Department	East is East and West is West – Will the Twain Meet?  Troy Walker, Hazen and Sawyer
11:00 a.m. - 11:30 a.m.	Julie Minton, The Water Research Foundation  Division of Drinking Water Update on Potable Reuse  Brian Bernados, State Water Resources Control Board	Demonstration Facilities, Your Best Friend in the Potable Reuse Approval Process  Steve Thomas, TBC Communications	Time for a Change: Ozone/BAF Based Purification for Groundwater Injection in California  Andrew Salveson, Carollo Engineers
11:30 a.m. - 12:00 p.m.	Evaluation of Microbiological Risks Associated with Direct Potable Reuse  Jeff Soller, Soller Environmental	The Little Trailer that Could...Educating about Potable Reuse  Melanie Mow Schumacher, Soquel Creek Water District	A New Approach to Validating Non-RO-based Potable Reuse Trains  William Mitch, Stanford University

## Tuesday, March 27, 2018 (continued)

12:00 p.m. - 2:00 p.m.	<b>Town Hall Plenary Session and Luncheon</b> - De Anza Ballroom II & III <b>SPONSORED BY: North San Diego Water Reuse Coalition</b> Moderator: Chris Austin, Author of Maven's Notebook Blog <b>STEVEN MOORE</b> , California State Water Resources Control Board <b>MAYOR BILL KAMPE</b> , Mayor of the City of Pacific Grove and President of the Monterey Peninsula Regional Water Authority <b>JIM PEASLEY</b> , Padre Dam Municipal Water District <b>CHARLES CASPARY</b> , Las Virgenes Municipal Water District <b>BARBARA KEEGAN</b> , Santa Clara Valley Water District		
	<b>2:00 p.m. - 2:30 p.m.</b> <b>Networking Break</b> - De Anza Foyer <b>SPONSORED BY: Stantec</b>		
	<b>2:00 p.m. - 2:30 p.m.</b> <b>Poster Sessions</b> - De Anza Foyer		
	<b>Technical Sessions</b>	<b>A7: Panel Discussion - One Water Implementation</b>	<b>B7: Overcoming Environmental Challenges</b>
<b>Sponsored By</b>	<b>Xylem, Inc.</b>		<b>Carollo Engineers</b>
<b>Room</b>	De Anza Ballroom I	Portola	Bonsai Ballroom
<b>Moderator</b>	Jeff Szytel, Water Systems Consulting	Jane Gray, Dudek	Jean Debroux, Kennedy/Jenks Consultants
2:30 p.m. - 3:00 p.m.	At the epicenter of the drought, Central Coast communities turned to recycled water strategies to build resilient water supply portfolios. The Panel discussion will allow participants to gain insight from utility leaders, followed by interactive discussions and role playing that brings the complexity and opportunities to the forefront for attendees.	Pure Water Monterey Environmental and Biological Permitting Adventures  <i>Alison Imamura, Monterey One Water</i>  <i>Matthew Johnson, DD&amp;A</i>  <i>Laura Zagar, Environmental, Energy and Natural Resources Attorney</i>	Findings of the 2017/2018 Science Advisory Panel on CECs in Recycled Water  <i>Adam Olivieri, EOA, Inc.</i>
	<i>Ben Fine, City of Pismo Beach</i>  <i>Carrie Mattingly, City of San Luis Obispo</i>  <i>Joshua Haggmark, City of Santa Barbara</i>	Challenges of Achieving Ocean Plan Compliance with Blended Waste Discharges  <i>Brie Webber, Trussell Technologies, Inc.</i>	Determination and Characterization of Organics to Optimize Potable Reuse  <i>Amanda Scott, Suez Water Technologies &amp; Solutions</i>
3:00 p.m. - 3:30 p.m.		Environmental Challenges in The City of San Diego's Pure Water Program  <i>Dylan Duverge, Dudek</i>	Can SRT Control CECs in Potable Reuse? CEC Removal in Advanced Treatment  <i>Hari Seshan, Brown and Caldwell</i>  <i>Juan Guerreiro, City of San Diego</i>
	<i>Holly Tichenor, Water Systems Consulting</i>  <i>Mark Hutchinson, County of San Luis Obispo</i>  <i>Lucie McGovern, City of Camarillo</i>  <i>Lianne Westberg, Water Systems Consulting, Inc.</i>		

## POSTER PRESENTATIONS

### Comparing the Long Term Performance of Soil Aquifer Treatment Using Soil Columns

*Bryan Trussell, Shane Trussell, Yan Qu, Fred Gerringer, Sangam Stanczak, Teresa Venezia, Israel Monroy, and Rhodes Trussell (Trussell Tech), Fernanda Bacara (UNLV), Yoshiko Tsunehara (LADWP)*

### Energy Impacts of Shifting to Advanced Water Treatment for Direct Potable Reuse: Los Angeles, CA

*Nicholas Chow, UCLA Luskin Center for Innovation*

### Expanding Capacity by Re-rating the NCWRP Tertiary Filters from 5 to 7.5 gpm/sf

*John Kenny and Samantha Bear, Trussell Technologies, Inc.*

### Integrated WasteWATER Systems from the Perspective of Reverse Logistics Network

*Nader Rezaei and Qiong Zhang, University of South Florida*

### Removal of Trace Organic Contaminants using non-FAT Technologies

*Meric Selbes, Troy Walker (1), Erik Rosenfeldt (1), Ben Stanford (2), Eric Dickenson (3), Eric Wert (3), Mandu Inyang (3) - Hazen and Sawyer*

### Wastewater Effluent of Coastal California as a Resource of Water Reuse and Desal

*Andrea Achilli, University of Arizona*

### Water Quality Dynamics throughout a Reclaimed Water Distribution System

*Lonnie Chung, California State Polytechnic University Pomona*



## THANK YOU 2018 PLANNING COMMITTEE

*Julia Aranda*

*Lauren Armistead, City of Ventura*

*Andrea Bauer, Wallace Group*

*Shinehah Bigham, Pajaro Valley Water Management Agency*

*Mychal Boerman, City of San Luis Obispo*

*Jasmine Diaz, Water Systems Consulting, Inc.*

*Adam Donald, Water Systems Consulting, Inc.*

*Gina Dorrington, City of Ventura*

*Kraig Erickson, Woodard & Curran*

*Ben Fine, City of Pismo Beach*

*Amando Garza, Cannon Corporation*

*Brad Hagemann, Hagemann & Associates*

*Daniel Heimerl, Water System Consulting, Inc.*

*David Hix, City of San Luis Obispo*

*Shannon Jessica, Wallace Group*

*Madeline Kacsinta, City of Pismo Beach*

*Brian Lockwood, Pajaro Valley Water Management Agency*

*Rob Morrow, Woodard & Curran*

*Melanie Mow Schumacher, Soquel Creek Water District*

*Ron Munds, City of San Luis Obispo*

*Mike Niccum, Pebble Beach Community Services District*

*Rebecca Nissley, Water Systems Consulting, Inc.*

*Nick Panofsky, MNS Engineers, Inc.*

*John Robinson, John Robinson Consulting, Inc.*

*Alyssa Smith, CH2M*

*Brittani Smith, Water Systems Consulting, Inc.*

*Jeffery Szytel, Water Systems Consulting, Inc.*

*Dawn Taffler, Kennedy/Jenks Consultants*

*Steve Thomas, TBC Communications & Media*

*Lianne Westberg, Water Systems Consulting, Inc.*

### UPCOMING EVENTS

#### **September 9-12, 2018**

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

#### **March 17-19, 2019**

2019 WaterReuse California Annual Conference  
Hyatt Regency Orange County *Garden Grove, CA*

#### **September 8-11, 2019**

34th Annual WaterReuse Symposium  
Marriott Marquis San Diego Marina *San Diego, CA*

#### **March 15-17, 2020**

2020 WaterReuse California Annual Conference  
Hyatt Regency San Francisco *San Francisco, CA*

#### **March 21-23, 2021**

2021 WaterReuse California Annual Conference  
Hyatt Regency Indian Wells *Indian Wells, CA*



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