



WATERREUSE

LOS ANGELES

Chapter Newsletter

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NEXT MEETING

Tuesday, August 8th
11:30am-1:30pm

LOCATION:

Glendale Water & Power
141 N. Glendale Avenue
Glendale, CA 91206

Many thanks to our lunch sponsor:



2017 WaterReuse California Annual Conference Sets Attendance Record

The 2017 WaterReuse California Annual Conference was held in San Diego March 19-21. More than 600 people from across the state and around the country attended the event. The conference featured more than 60 technical presentations, technical tours, receptions, and a popular exhibit hall.

The following presentations were related to or presented by members of the LA Chapter:

Soil Column Testing for San Fernando Valley Groundwater Recharge

Yoshiko Tsunehara, LADWP and Bryan Trussell, Trussell Technologies

Working Together to Increase Reuse in Santa Clarita Valley

Shadi Bader, Castaic Lake Water Agency and Dawn Taffler, Kennedy/Jenks

Water Independence Now – The Road to Locally Sustainable Water Resources

Rob Whitaker, Water Replenishment District

"Fit for Purpose" Potable Reuse Treatment Strategies for the City of Los Angeles

Roshan Aflaki, LA Sanitation

Custom Engineered Microfiltration at West Basin's Carson Facility

Nathan Boyle, Hazen and Sawyer



Agency Spotlight: Woodard & Curran

Communities across the country are under immense pressure to find creative ways to diversify their water supply. Americans currently use 210 billion gallons of water daily and this usage will likely double as country's population is expected to increase by 50% over the next decade. Reusing treated wastewater is one tool communities can use to meet current and future water supply demands. Every day, over 12 billion gallons of treated wastewater is discharged directly into the ocean or an estuary, which is roughly equivalent to 27% of the current public water supply. Many regions and industries are utilizing this untapped water source to meet demand and sustainability objectives.

Woodard & Curran, an integrated engineering, science, and operations company, has completed creative water reuse projects throughout the country, including designing, constructing and operating an innovative public/private reuse project in California; operating and maintaining the first and largest successful indirect potable reuse project in Florida; and optimizing and operating a pioneering non-potable reuse application in the Northeast. The firm understands how water rights, water availability, regulations, and economic drivers vary from region to region and state to state and how these differences affect the way communities approach water reuse projects. When designing, building, and operating water reclamation and reuse projects, the firm not only applies an understanding of the multifaceted technical requirements for delivering reclaimed potable or non-potable water, but also an in-depth knowledge of regional drivers.

Regulatory obligations across the country—or in some cases, the lack of any water reuse policy or guidelines in a state—are one requirement that the firm pays special attention to. Florida and California are home to the bulk of the nation's water reuse projects, as both face water scarcity issues and have economic incentives and regulations in place to guide water reuse projects. New England, on the other hand, has a poor regulatory framework for reuse and requires a more creative approach to funding and applications.



President's Column

Dear LA Chapter Members:



The 2017 water supply continues to surprise us and outperform most expectations. The snowpack is still over 150% of average spring levels with a rare snowfall on June 12. Recent hot weather has increased stream runoff to above 200 percent of average and caused hazardous recreational conditions. The State Water Project has an 85% allocation for water contractors south of the Delta. San Luis Reservoir and Castaic Lake are above 95% capacity and Diamond Valley Lake is near 90% capacity. The abundant water supply should allow record amounts of water to be stored with regional groundwater banking partners for future dry years.

Our June meeting at the Las Virgenes Municipal Water District (LVMWD) had a great turnout with nearly a full house. There were several great presentations including two on the Las Virgenes-Triunfo Pure Water Project. One focused on the feasibility of a seasonal recycled water storage facility for use during peak demand and a second provided more details on demand forecasting and treatment plant design. A third presentation on meeting pathogen removal credits for MBR was also discussed. We appreciate LVMWD for hosting our meeting and AECOM for sponsoring lunch. If you were unable to attend please feel free to view the presentation slides on our website.

Two relevant pieces of recycled water legislation are still under consideration this year.

In June the chapter met at the Las Virgenes Municipal Water District (LVMWD) where presentations were given on the Las Virgenes-Triunfo Pure Water Project.

AB 574 Potable Reuse (Quirk) was recently amended and removed some of the proposed changes requested by WaterReuse. The Bill would keep most existing DPR definitions, require an expert panel to confirm protection of public health, and would extend the timeline for adopting raw water augmentation by one year to 12/31/2022. AB 869 Sustainable Water Use and Demand Reduction: recycled water (Rubio), would prohibit an urban retail water supplier from being required to reduce recycled water it produces, sells, or distributes for beneficial use at any time including during a drought or a water shortage emergency. AB 869 would also exclude recycled water from per capita water use or water use efficiency targets for 2020 or beyond, declare recycled water equivalent to other water use efficiency measures, and redefine recycled water to include both potable and non-potable uses. New legislation proposals for 2018 are also being solicited. Please let me know if you have any ideas that you would like to be considered.



The International Water Association's 11th International Conference on Water Reclamation and Reuse is being held in Long Beach from July 22, 2017 through July 27, 2017. The conference has 40 technical tracks with more than 140 presentations including Assessment of Pathogen and Removal in Wastewater and Water Reuse, Utility Planning of Reuse, and Onsite Non-potable Water Systems. I look forward to seeing many LA Chapter members at the conference and expect to get a better appreciation of water reuse at the international level.

I would also like to thank the LA Chapter Officers and all of the volunteers that make the Los Angeles Chapter great.

Sincerely,

Raymond Jay, President
WaterReuse California, Los Angeles Chapter

Meet Your Regulators: LA Regional Water Quality Control Board



CALIFORNIA ENVIRONMENT PROTECTION AGENCY
LOS ANGELES REGIONAL WATER QUALITY CONTROL BOARD

The recycled water permitting associated with Publicly-Owned Treatment Works for Los Angeles and Ventura County is handled by the Municipal Permitting NPDES unit at the LA Regional Water Quality Control Board. Cris Morris is the Unit Chief of the Municipal Permitting unit and her staff includes Veronica Cuevas, Raul Medina, Steven Webb and Elizabeth Erickson. The staff responsible for the permit is typically the same person that is responsible for the NPDES permit for the water reclamation plant. Cris Morris reports to David Hung who is the supervisor for the Watershed Regulatory Section. David reports to the Chief Deputy Executive Officer, Deb Smith. The Executive Officer for the LA Region is Samuel Unger.

An organization chart for Region 4 – Los Angeles is located at: http://www.waterboards.ca.gov/about_us/org_charts/display.php

If you have any questions, please contact Cris Morris at (213) 620-2083.

Upcoming Conferences

11th IWA International Conference on Water Reclamation and Reuse

July 23-27, 2017

Long Beach Convention Center
Long Beach, California



This prime event of IWA on water reclamation and reuse will be held for the first time in North America. This international conference is intended to foster a more uniform approach to water reuse providing water qualities that are fit for the specific purpose. This event will provide an opportunity to share knowledge regarding water reuse practices in different countries in order to build trust and further grow water reuse projects. The focus will be to bring together water managers, industry leaders, and cutting edge researchers to learn what's working, what's not and what's next in water reuse policy and regulations, technology, operations, financing and public perception.

Around the world, population growth, climate change, drought and other factors are impacting the availability of sustainable sources of clean, safe sources of potable water. As a result, the water industry is experiencing an unprecedented growth in water reuse projects.

32nd Annual WaterReuse Symposium

September 10-13, 2017

Renaissance Phoenix Downtown Hotel
Phoenix, Arizona

Join a few of our LA Chapter members who will be presenting at the Annual WaterReuse Symposium. The event presents what's working, what's new, and what's next in water reuse policy, operations, technology and public perception. This year's Symposium will feature:

- More than 100 presentations, panel discussions, and workshops.
- National, regional, and local perspectives on water policy, potable reuse, industrial reuse, water treatment, water quality, desalination, and more.
- A Reuse Bootcamp which will provide an A to Z overview of all things reuse.
- A technical tour with stops at the Town of Gilbert Riparian Preserve at Water Ranch and Scottsdale Water's Reclamation and Advanced Water Treatment Plant.
- The Reuse Beer Fest, a culmination of a statewide contest and outreach program.
- Daily networking breaks, a networking dinner at The Duce (included in the registration), and an optional baseball game (Arizona Diamondbacks versus the Colorado Rockies).
- Annual awards luncheon and presentation.



Known by his colleagues (affectionately or otherwise) as the “Guru”, Earle Hartling, Water Recycling Coordinator for the Sanitation Districts of Los Angeles County, answers your burning questions on all issues regarding recycled water. His opinions are his own, and do not necessarily reflect those of the Sanitation Districts. He has been involved with water reuse for over 35 years, so ask your questions sooner than later, because he ain’t getting any younger! Seriously, he really isn’t. C’mon, people, the clock’s ticking on this guy.



The Guru's Bloopers: Cross Connection

This botched arrangement was seen at an equestrian area at Bonelli Regional County Park. The purple riser is coming off the recycled water irrigation system. The white PVC line was traced back across the workout area for horses to where it originated off of the potable water system. Apparently, a former concessionaire for this facility installed the PVC pipe, found a bunch of valves and connectors in the bargain bin at Home Depot and jerry-rigged the device on top of the recycled water riser. If you rotate the valve device 90 degrees, the two broken pieces of PVC pipe line up. Cross-connection!



Agency Spotlight: Woodard and Curran (cont'd from page 1)

In 2016, Woodard & Curran acquired California-based RMC Water and Environment, and the addition has been instrumental in advancing the firm’s water reuse practice. Woodard & Curran’s wastewater expertise extends far beyond water reuse, having designed and built municipal and industrial water and wastewater treatment systems using all kinds of treatment technology and at every size and scale. The firm has also solved staffing, compliance, and operational challenges through full contract operations at municipal and industrial water and wastewater treatment plants, public works departments, and private groundwater treatment systems across the country and currently operates over 45 clean water facilities.



Woodard and Curran recently assisted the City of Victorville with development and operation of a new 2.5 mgd combined industrial and sanitary wastewater treatment facility at their Southern California Logistics Airport (SCLA) industrial park. The City hired Woodard & Curran to design, facilitate construction, and operate the facility which produced reuse-quality reclaimed water, and allowed the park’s anchor tenant to save money on wastewater treatment.

OUR MEMBERS

AECOM
Black and Veatch
Burbank Water and Power
California Department of Public Health
California Department of Water Resources
California Regional Water Quality Control Board
California State Water Resources Control Board
Calleguas Municipal Water District
Cannon
Carollo Engineers
Castaic Lake Water Agency
CDM Smith
Central Basin Municipal Water District
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Irvine Ranch Water District
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Los Angeles Bureau of Sanitation
Los Angeles Department of Public Health
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Los Angeles Department of Water and Power
Los Angeles Regional Water Quality Control Board
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City of Pasadena

Phoenix Civil Engineering, Inc.
City of Pomona
Precise Landscape Water Conservation, Inc.
Psomas
Purple Pipe Consulting
Rain Bird Corporation
RBF Consulting, a Baker Company
Red Wolf Studio
RMC a Woodard & Curran Company
Rowland Water District
SA Associates
Sanitation Districts of Los Angeles County
City of Santa Monica
Sequia Technologies
Separation Processes, Inc. (SPI)
Surfrider Foundation
Test America
Three Valleys Municipal Water District
United Water
Upper San Gabriel Valley Municipal Water District
Valencia Water Company
City of Vernon
Walnut Valley Water District
Water Replenishment District of Southern California
WateReuse California
West Basin Municipal Water District



CHAPTER OFFICERS

Raymond Jay, President

Metropolitan Water District of Southern California
rjay@mwadh2o.com

Fred Gerringer, D.Env, P.E., BCEE ,Vice President

Trussel Technologies
fredg@trusseltech.com

Judi Miller, P.E., Treasurer/Secretary

CH2M Hill
judi.miller@ch2m.com

Monica Gasca, Trustee to California WateReuse Section

California Sanitation Districts of Los Angeles County
mgasca@lacsdc.org

Past-President: John Robinson

GOT NEWS?

We're always looking for interesting stories and informational articles to keep our members up to speed on all that's happening in water reuse and reclamation. Email articles or ideas to Matthew Elsner (melsner@woodardcurran.com) or Shelah Riggs (sriggs@dudek.com)

WateReuse Association: www.watereuse.org/sections/california/losangeles

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