



OCWA
Orange County Water Association
ESTABLISHED 1957

Water Matters

News for the Orange County Water Community

Third Quarter 2022

Water Agencies Call on State to Address Long-Term Water Supply Crisis

California is in the middle of a historic water supply crisis never seen before, impacting the economy, every region across the state, jobs, critical industries, food security, and all Californians. As the State responds to manage this current drought, the perpetual and systemic water crisis continues to grow, with no relief or remedy in sight, for the near term or future.

Water agencies are sounding the alarm, calling on the state to take action in response to the years of drought conditions, the repeated imposition of emergency regulations and water restrictions to reduce consumption, and the lack of progress on water infrastructure investment. The time is now to imagine and create water infrastructure aligned with the new climate reality of significantly reduced snowpack and increased precipitation volatility.

Changing and worsening climate conditions coupled with a population that has doubled since the development of California's current water system requires extraordinary investment in new water supplies for today and the future generations of Californians. Yet the State is still using the same water supply approach to meet the needs of 40 million residents, with the same constrained infrastructure and increasing regulatory limitations.

"As the State repeatedly calls for more conservation to get through the current drought, reactionary solutions to the current drought are not an acceptable or adequate policy response. There is a lack of acknowledgement on the larger and long-term picture – we are in a generational water supply crisis that is far more than just this drought and we need California policymakers to take immediate action," said Heather Dyer, General Manager of San Bernardino Valley Municipal Water District, and a leader in Solve the Water Crisis.

"The consequences of inaction are ongoing and will be catastrophic for the future of California and are already being felt today. We need immediate and bold State action to fundamentally



change how statewide water is managed. As water managers, we know it will take big new water solutions capable of increasing water supplies in the statewide system, as well as investments in local and regional improvements to address our new climate reality that has devastated existing water supplies," said Paul Helliker, General Manager of San Juan

Water District, and a leader in Solve the Water Crisis.

Perpetuating the lack of progress on collaborative and creative solutions to build and rehabilitate statewide water facilities will be catastrophic. Impacts are already prevalent statewide, and will become more significant across the board, resulting in:

- ◆ Job losses, particularly in the ag industry
- ◆ Decline in business confidence and reduced investment
- ◆ New housing development stalled
- ◆ Food security jeopardized
- ◆ Increased water costs
- ◆ Increased stress on ecosystems and habitats
- ◆ Impacts on statewide energy supplies
- ◆ Decrease in statewide tourism
- ◆ Decline in recreational activities

California has a responsibility to address the ongoing water supply crisis. Policy solutions must be advanced to meet the State's present and future water supply needs for all Californians, today and tomorrow.

About "Solve the Water Crisis"

Solve the Water Crisis brings into sharp focus the ongoing water supply crisis that is impacting quality of life, economic growth, health, and the environment of communities throughout California. By raising awareness among California policymakers, Solve the Water Crisis demonstrates the urgency and bold actions needed to secure California's water future. Solve the Water Crisis is led by water agency leaders across the state, representing both urban and rural areas of California. To learn more, visit www.SolveTheWaterCrisis.com

Ryan Gallagher Elected to Serve as Vice Chairman for the Orange County Sanitation District

The Orange County Sanitation District (OC San) announces Ryan Gallagher, from the City of Tustin, to serve as Board Vice Chairman of the OC San Board of Directors. He was elected at the June 22, OC San Board of Directors meeting. The position was previously held by Chad Wanke who was nominated to serve as the elected Board Chairman at the May 25 OC San Board of Directors meeting leaving the position open for election by the Board of Directors.

“I’m honored to be elected as the Vice Chairman for the Orange County Sanitation District. The industry in which OC San operates is my passion. My professional career is exclusively within the water and wastewater industry, and I believe my background and expertise will be a valuable asset to the Vice Chairman position,” stated Ryan Gallagher. “I am an advocate for fiscally responsible government and innovation which mirrors the work and mission of OC San.”

Ryan represents the City of Tustin where he has served as a Councilmember since 2020, the same year he joined the OC San’s Board of Directors. Ryan serves as the Vice Chairman of the Operations Committee and the joint OC San and Orange County Water District’s Groundwater Replenishment System Committee. He also serves as a Member-at-Large for the OC San Steering Committee.

Ryan has extensive experience in the water and wastewater industry as he served as the President of Orange County Water Association (two terms), and is the Past President of the Association of Water Agencies, Ventura County, as well as Past President of local chapters for the American Public Works Association and the American Society of Civil Engineers.

Ryan was born and raised in Southern California. He holds a Bachelor of Science in Civil Engineering from California Polytechnic State University, San Luis Obispo and is a licensed Civil Engineer in the State of California. In his free time, he loves to travel, run, and spend time with his family, which includes his wife, three young children, and a dog, Gus.

For more information about the Orange County Sanitation District, please visit www.ocsan.gov.



How Engineers See the Water Glass in California

By JAY LUND, *California Water Blog*

Depending on your outlook, the proverbial glass of water is either half full or half empty. Not so for engineers in California.

Civil engineer: The glass is twice as big as it needs to be.

Flood control engineer: The glass should be 50 percent bigger.

Army Corps levee engineer: The glass should be 50 percent thicker.

Delta levee engineer: Why is water rising on the outside of my glass?

Dutch levee engineer: This water should be kept in a pitcher.

Southern California water engineer: Can we get another pitcher?

Northern California water engineer: Who took half my water?

Lower Colorado River water engineer (outside of California): California took half my water.

Lower Colorado River water engineer (inside California): Sorry for shortages in other states.

Tulare Basin water engineer: I’m saving that empty storage to capture floods for recharge.

California Water Commission engineer: Would a bigger glass provide public benefits?

USBR CVP or NOAA engineer: Is that water cold?

Consulting engineer: How much water would you like?

Environmental engineer: I wouldn’t drink that.

Water reuse engineer: Someone else drank from this glass.

Groundwater engineer: Can I get a longer straw?

Academic engineer: I don’t have a glass or any water, but I’ll tell you what to do with yours.

Jay Lund is a professor of civil and environmental engineering and half-director of the Center for UC Davis’ Watershed Sciences.



July 20: Industry Insight Webinar

Advances in Asset Management at Irvine Ranch Water District

Presenters: *Eric Akiyoshi and Mitch Robinson*
Irvine Ranch Water District

Irvine Ranch Water District (IRWD) is working to standardize, evolve, and enhance its asset management practices; particularly in the 5-year capital asset planning efforts. IRWD's current asset management approach consists of three major business lines. The Operations department handles the near-term preventative and corrective maintenance using IBM's Maximo and Spatial Wave's Field Mapper. The Engineering department conducts 5-year capital project asset planning and long-range Replacement Planning Modeling (RPM). Lastly, the Finance Department develops the financial replacement funding strategy. IRWD continues to grow and optimize its overall asset management approach and has implemented several platforms to facilitate these efforts.

This project developed a standardized, risk-based, 5-year prioritized Capital Improvement Plan (CIP) for IRWD's pump stations, lift stations, tanks, and wells for IRWD's potable, sewer, and recycled water systems. To aid development of the CIP, as well as management and interpretation of the asset information and data, this project developed a Dynamic Asset Management Plan through the Business Intelligence (BI) solution Microsoft PowerBI (PBI). PBI provides the connection between the core



asset management principles and the data. The result is a series of customizable dashboards that present digestible, interactive asset information that is accessible to everyone in the organization at any time. The 5-yr CIP, supported by PBI visualizations, allows IRWD to communicate data in a meaningful

way so stakeholders can make informed asset decisions.

As IRWD takes steps toward a future where asset management is standardized, automated and continuous, this project represents a critical milestone in the evolution of CIP planning.

Plan now to join us, July 20, to learn more about IRWD's asset management plans for the future. It promises to be an enlightening afternoon.

Make your reservation today!

**We are Proud to Recognize Our Corporate
Sponsors for the July 2022 Webinar**



About Our Speaker

Eric Akiyoshi is currently the Irvine Ranch Water District Engineering Manager for Infrastructure Planning group. He graduated from the University of California at Irvine with his B.S. in Civil and Environmental Engineering and has worked at IRWD for almost 30 years. For the past 17 years he has helped lead IRWD's efforts in facility and water resource planning.

Mitch Robinson works as an Engineer in the Infrastructure Planning group at Irvine Ranch Water District. He graduated from University of California at Irvine with his B.S. in Civil Engineering and has worked at IRWD for 11 years. He currently project manages asset management projects and develops tools for business intelligence. His other roles include Capital Budget and Capital Improvement Planning, hydraulic modeling for sewer and water, and facility and water resources planning.

Wednesday, July 20, 2022

Online ZOOM Presentation

Webinar Open for Log-In: 12:00

Presentation: 12:30 – 1:00

OCWA Members with Reservation: FREE

Non-Members with Reservations: \$10.00

Cancellations received AFTER Tuesday, July 19 CANNOT be refunded.

**Visit the OCWA website to make reservations:
www.ocwater.org**

RSVP IS A FINANCIAL COMMITMENT. NO-SHOWS WILL BE BILLED.



43rd Annual OCWA Golf Tournament

The Best Yet at Strawberry Farms Golf Club

By MICHAEL J. SINACORI

the Golf Committee we wish to thank all the participants who continue to support this tournament. We're proud that we sustained this event through the pandemic, and that we did it without a reduction in demand. In fact, **attendance was up this year with 120 players signed on to the event.**

Surprisingly, even with the increased number of players, the round still played in less than five hours (a long-standing Golf Committee goal). We've already secured our day for next year: June 5, 2023. Mark your calendars now as we have already submitted our deposit!

Now, on to the fun stuff: The awards ceremony began at about 2:30, in the Big Red Barn next to the Clubhouse. Spring roll appetizers greeted players coming off the course, followed shortly thereafter by a fiesta taco plate buffet. Boy was it good (even ice cold when I ate it after the event). The two Las Vegas holes this year, along with the putting contest, gave everyone a chance to win some of the \$6,000 worth of prizes. We gave away rounds of golf, numerous individual clubs, and a complete combo set of irons. Not to mention all the other great opportunity prizes! Each par 3 had a closest to the pin contest and there were two long drive contests.

Prizes were awarded to the top three low gross players and the top three in two separate flights for net players. Always fun as an engineer to show the statistics of the participants: We had an expected low score of 70 from the same player who shot 63 last year! The other two low gross players shot 75. There were only 7 other players who scored in the 70's, and 26 players scored in the 80's. The average score was right around 97, which is very typical for our event. The highest posted score was 123 out of the 160 maximum allowed. It was a wonderful day even though I played horrible as usual. Never easy organizing the event and then trying to hit a golf ball. Triple bogey for my first hole with two out of play. Really fun start (NOT). No matter what your index is, we always strive to do better than the last time and there is always that shot, or two, or ten that we want back. I want to go replay 1 and 12 and erase those two triple bogey holes.

I truly believe the OCWA Golf event is one of the most enjoyable in the industry. I know it is for me, though my score is always higher than it should be.

So mark your calendars now, **next year is booked for June 5, 2023.** Sign up early!

The 43rd Annual OCWA Golf Tournament returned to Strawberry Farms Golf Course in full force this year. For the first time since the pandemic began, we were back at 100%, with no COVID restrictions.

Held as usual on the first Monday in June, this was my 29th year as Golf Committee Chair and the fifth time we've held the event at Strawberry Farms. And to reiterate what I said at the event, on behalf of the OCWA Board and

A big part of the day's success was due to the help provided by the many volunteers. We're indebted to **Jill Zander** and **Camilla Howe** from *Michael Baker International*, **Kyleigh Dingfelder** from *Leighton*, and **Chelsea Roy** from *PACE Advanced Water Engineering* for their tireless assistance to ensure the event's success. Special thanks to **Allison Tomko**, and the entire staff at *Strawberry Farms Golf Club*, for their generous hospitality and the extraordinary effort they provided to help make our Tournament such a resounding success.

A special thanks is owed as well to the Golf Committee Members. These unsung golf heroes make the event what it is. Please give any one of the committee members a call if you have suggestions on how to make this event even better next year.

The OCWA Board and Golf Committee would like to thank all of the 41 Sponsors that made the event possible. Without their contribution, the fiesta awards ceremony and prizes would not be possible. All our Sponsors are listed both here and in the OCWA website in the 2022 Golf

Tournament Sponsorship tab. Please take a moment to look through the list. In addition, all of their addresses and phone numbers are in the OCWA Directory.

And with that, thanks for playing and see you next year!

Golf Committee

Mike Sinacori

Chairman – (949) 644-3342

Malcolm Cortez

Tee Signs and Putting Contest – (949) 453-5551

Jeff Hull

Prizes and Las Vegas Hole Logistics – (714) 904-3819

Chuck Borkman

Prizes and Putting Contest – (949) 933-8905

Dennis Cafferty

Scoring & General Oversight – (949) 837-7050, Ext 223

Andy Komor

Las Vegas Hole Logistics – (714) 514-8915

Derek Kurtti

OCWA Board Liaison & Prizes – (805) 550-9656

Event Winners (Scores)

1st Low Gross (70)

Cuco Zermeno

Rincon del Diablo WD

2nd Low Gross (75)

Andy Komor

Pace Engineering

3rd Low Gross (75)

Steve Ewart

OC Winwater Works

1st Low Net Flight "A" (77/70)

Jim Neeman

Black and Veatch

2nd Low Net Flight "A" (84/70)

Lendro Valencia

City of Anaheim

3rd Low Net Flight "A" (78/70)

Miguel Garcia

City of Anaheim

1st Low Net Flight "B" (100/73)

Matt Hilton

City of Beverly Hills

2nd Low Net Flight "B" (106/74)

Tom Monk

Walnut Valley Water District

3rd Low Net Flight "B" (103/74)

Wes Barraza

Tripac

Putting Contest (5 putts)

Jerome Ruddins

Michael Baker

Long Drive Hole No. 4

Craig Miller

Eastern Municipal Water District

Long Drive Hole No. 12

Steve Ewart

OC Winwater Works

Closest to the Pin No. 3 (6'-3")

Gilbert Verduzco

City of Anaheim

Closest to the Pin No. 7 (1'-2")

Lendro Valencia

City of Anaheim

Closest to the Pin No. 11 (3'-4")

Steve Ewart

OC Winwater Works

Closest to the Pin No. 15 (3'-0")

Miguel Garcia

City of Anaheim

Closest to the Pin No. 17 (4'-8")

Lendro Valencia

City of Anaheim

For those interested, you can see all the player scores on the following link (click on the player's name to view individual score cards): www.golfgenius.com/pages/8530541949508136558

ORANGE COUNTY WATER ASSOCIATION

43rd Annual Golf Tournament



SPONSORS

MONDAY, JUNE 6, 2022



STRAWBERRY FARMS GOLF CLUB

AES Water Darik Walton	Ford Meter Box Blake Kidd	MKN Associates Ryan Gallagher
American Flow Control Perry Phillip	Fraijo Brothers Tim Fraijo	Mueller Systems Kevin Cornejo
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Bingham and Taylor Mark Delancellotti	General Pump Michael Bodart	NV5 Jeff Cooper
Black and Veatch Derek Kurtti	Golden Sun Marketing Josh Bolger	NV5 Jeff Cooper
Black and Veatch Jeff Neemann	Guida Surveying. Ralph Guida	PACE Advanced Water Engineering Andy Komor
CAB Engineers Cory Bersch	Hazen and Sawyer Dave Jones	Paulus Engineering Jason Paulus
Civiltec Engineering Shem Hawes	JCM Industries/ TRIPAC Bill Foster, Sr.	PSOMAS Mike Swan
Cla-Val Company Monte Roberts	Leighton Jeff Hull	Richard Slade & Associates Richard Slade
Clow Valve Company Richard Ledesman	McCarthy Building Companies Curtis Horner	SIP Industries Matt Segerstrom
Core & Main Cris Salas	Michael Baker International John Nagle	Stantec Jim Cathcart
DUDEK Mike Metts	MISCO Water Tom Roberson	TE Roberts Tim Roberts
		Tetra Tech Laurence Esguerra
		TRIPAC Bill Foster, Sr.
		TRIPAC Bill Foster, Sr.
		United Water Works Shaw Turnage

MULLIGAN

Invented by an Irishman
who wanted to hit
one more twenty yard grounder.

NEWBrew Beer, Made from Recycled Wastewater, Has Found Acceptance with Aficionados in Singapore

Archie Bunker said it best: “Edith, you can’t buy beer. You can only rent it.”

Now, it seems, you can get a return on your deposit.

In Singapore, the country’s national water agency, PUB, has been generating drinking water recycled from wastewater since 2003. Known as NEWater, the island nation set up the treatment plants to improve its water security.

This year, in collaboration with Brewerkz, a local craft brewery, PUB has begun to market “NEWBrew,” a blonde ale made with its recycled wastewater.

“NEWBrew” was first unveiled at a water conference in 2018. In April of this year, PUB decided to put it on sale in supermarkets and brewpubs. The decision to go public with the new beer was made as part of the utilities ongoing efforts to educate Singaporeans on the importance of sustainable water use and recycling.

The idea of processing sewage into drinking water, once largely resisted, has been gaining support in the past decade as the world’s supply of fresh water is increasingly under stress. The World Wildlife Fund estimates 2.7 billion people find water scarce for at least one month a year.

Advanced economies such as Israel and Singapore that have limited fresh water resources have already incorporated the technology into their supplies. Cities such as Los Angeles and London are moving forward with plans to follow suit. And of course, here in Orange County, collaboration between the Orange County Water District and the Orange County Sanitation District gave us the Groundwater Replenishment System years ago.

As with these other efforts, Singapore’s NEWater is made by disinfecting sewage with ultraviolet light and passing the liquid through advanced membranes to remove contaminant particles.

Key to expanding the technology is to persuade the public that, once the water has been processed, it’s just water.

“NEWater perfectly suits brewing because it tastes neutral,” said Mitch Gribov, Brewerkz’s head brewer. “The mineral profile of water plays a key role in chemical reactions during brewing.”

Breweries elsewhere have also made beer with recycled sewage. Stockholm-based Nya Carnegie Brewery partnered with brewing giant Carlsberg and IVL Swedish Environmental Research Institute to launch a pilsner made with purified sewage, while Village Brewery in Canada teamed up with researchers from the University of Calgary and US water technology company Xylem to roll out their own version.

The response from the public has been mixed.

“I seriously couldn’t tell this was made of toilet water,” said Chew Wei Lian, 58, who had purchased the beer from a supermarket to try after hearing about it. “I don’t mind having it if it was in the fridge. I mean, it tastes just like beer, and I like beer.”

Not everyone is convinced. “There are many kinds of beers around,” said Singapore student Low Yu Chen, 22. “If I wanted a beer, I’d pick something made of normal water.”

But others who have sampled NEWBrew, say they find that it’s a refreshing, light-tasting ale that’s perfect for Singapore’s tropical climate.

“If you don’t tell people it’s made from wastewater, they probably won’t know,” said Grace Chen, 52, after sampling the ale.

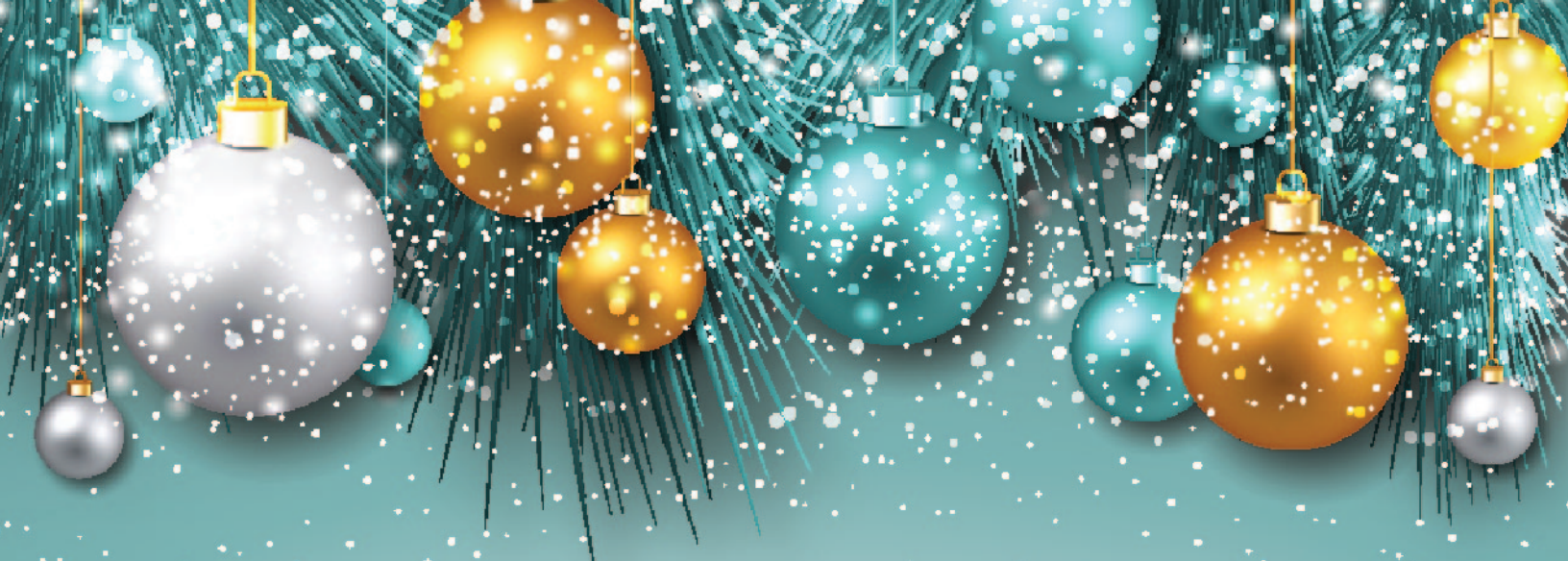
Still, if you’re in Singapore and you want to taste it yourself, you may need to be quick. The first batch of NEWBrew is already sold out on tap at Brewerkz restaurants and the company expects stocks at supermarkets will run out by the end of July. The brewer said it will assess the market response before deciding whether to make another batch.



AMWA Supports FDA Efforts on Safe Disposal of Pharmaceuticals

The Association of Metropolitan Water Agencies has come out in favor of the Food and Drug Administration’s (FDA) proposal to modify the Opioid Analgesic Risk Evaluation and Mitigation Strategy. FDA’s proposal would require mail-back envelopes to be provided, along with educational materials on safe disposal, with opioid analgesics dispensed in an outpatient setting. AMWA supports efforts that work to reduce pharmaceuticals in our waters.

In the letter, AMWA supported this action and urged FDA to continue this practice with other pharmaceutical drugs. AMWA believes mail-back envelopes are a better solution than flushing unused medications, even those on the approved FDA “flush list,” because flushing directly introduces these pharmaceuticals into the water environment. Association staff will continue to support and track efforts that provide better alternatives for disposing of unused medications.



Orange County Water Association

* 64th Annual *

HOLIDAY PARTY

Friday,

December 2, 2022

Cocktails: 6 pm * Dinner: 7 pm

Festivities Until 11 pm

Our *new venue* for 2022:



19300 Ike Jones Road * Santa Ana, California 92707
(714) 210-4585 * www.lyonairmuseum.org



In addition to an impressive array of authentic aircraft, rare vehicles, and related memorabilia, the museum highlights the important role our nation has played in shaping the modern world through captivating and thought provoking exhibits.

But the venue offers so much more for our annual party. Located near John Wayne Airport, the museum has ample parking onsite, and plenty of room within, so our party will be easily accessible.

And with two cash bars open all evening, there'll be no long waits for refreshment.

*Thousands of Dollars
in Raffle Prizes!
...and that's a lot of Holiday Cheer!*



LIMITED SPONSORSHIP OPPORTUNITIES AVAILABLE

Act Now! Tables Will Go Quickly!

This will be a fun event and a great networking opportunity. We hope you'll help ensure its success by joining us as a valued sponsor.

There are a range of Sponsorship Opportunities available, each with unique benefits:

Diamond Level ~ \$2,500 or more

Includes: 1 Table for 10, Logo Displays, and Special Event Branding!

Gold Level ~ \$1,500 or more

Includes: 1 Table for 10, and Logo Displays

Silver Level ~ \$500 or more

Part of Group Logo Display!



We encourage all attendees to bring a new, unwrapped toy for underserved children & teens in Orange County. Together, we can make the Holidays better and brighter for those who might otherwise not receive a gift. Every attendee who donates a toy will receive an additional ticket for the evening's raffle.

To Make Your Sponsorship Reservations, contact OCWA Treasurer Bobby Young at byoung@lbcwd.org

2022 OCWA Corporate Sponsors

By their generous support, the following corporations and agencies were instrumental in helping ensure OCWA's success in its expanded mission for this year. On behalf of the membership, and the entire Orange County water community, thank you.

- AECOM ♦ AALR&R ♦ Black & Veatch
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POSITIONS AVAILABLE

OCWA Members and their organization can post unlimited job listings to the Association website for FREE. Listings are promoted with weekly e-blasts sent to our 1,500+ contacts, representing over 45 agencies and more than 120 companies county-wide.

This is saturation coverage throughout the County. What else would you expect from the only Orange County Association dedicated to the local water community?

If you would like to post a job opening here, and are a current member, please send a PDF, or a link to a web page detailing the position to the OCWA webmaster.

NEW OPPORTUNITIES:

- Clow Valve - Territory Sales Manager**
- SEJPA - Laboratory Analyst ♦ SEJPA - Laboratory Intern**
- SEJPA - Mechanic II**
- OCWD - Maintenance Technician Grade I II or III**
- IRWD – Engineer (08-02)**
- MNWD - Customer Account Rep I-II (07-25)**
- MNWD - Superintendent of Operations (07-25)**
- MNWD - Water Efficiency Rep (Temporary Full-Time) (07-25)**
- MWDOC - Public Affairs Coordinator I or II (07-29)**
- MWDOC - Water Loss Control Intern (07-29)**
- IRWD - Safety Specialist (07-26)**
- PACE – Project Engineer - Environmental Water**
- PACE – Stormwater CAD Designer**
- PACE – Instrumentation and Controls Field Technician 2022**
- OCWD - Inorganic Chemist (07-20)**
- OCWD - Laboratory Technician - Inorganic Section (07-20)**
- and dozens of more listings on the website . . .**

For further information on these and other currently open positions, please visit the "Opportunities" section of the OCWA website:

www.ocwater.org/Job-Opportunities

Members and their agency or company can post Opportunities to the OCWA website, free of charge, as often as they'd like. If you wish to post a job opening, and are a current member, please send a PDF or a link to your web listing to the timhogan@socal.rr.com. We'll post the listing to the website and send out a weekly jobs e-blast to over 1,500 people in the OC water community.

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OCWA's Board of Directors meets on the third Wednesday of each month, unless notified otherwise. At present, meetings are being held virtually. The next meeting is scheduled for:

July 20, 2022
11:00 am to Noon

♦ ♦ ♦

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