



# Water Matters

News for the  
Orange County  
Water Community

JULY, 2018

Save the Date!  
Annual  
Holiday Party  
December 7, 2018  
DETAILS SOON!

## IRWD Announces Completion of Largest Behind-the-Meter Energy Storage Project in U.S.

Advancing the cause of sustainability, Irvine Ranch Water District (IRWD) and Macquarie Capital today announced completion of the nation's largest energy storage system being used for on-site power – a 2.5 MW/15MWh installation now powering the District's largest water recycling plant.

The award-winning behind-the-meter battery system at IRWD's Michelson Water Recycling Plant is the centerpiece of

an even larger 7 MW/34MWh network of 11 battery arrays set up at water treatment, recycling and pumping facilities throughout the District. The project allows IRWD to buy and store energy when rates are low and use it to power operations during peak hours when the cost of electricity from the grid is high – saving the District approximately \$500,000 in energy costs each year. It also provides a source of stored power for Southern California Edison (SCE) to rely on when necessary to avoid interruptions in service.

For over fifty years IRWD has owned and operated one of the most robust and technologically advanced recycled water systems in the nation. With about 545 miles of recycled water pipelines, 12 storage reservoirs, and more than 5,700 metered recycled water connections, IRWD delivers approximately 27,000 acre-feet – about 9 billion

*Continued on Page 2*



### July Industry Insight Topic:

## An Overview of OCSD as it Transitions to Resource Recovery



**Speaker: Rob Thompson**  
*Assistant General Manager  
OC Sanitation District*

Join us as Rob Thompson provides an overview of OCSD's transition from a wastewater treatment plant to a resource recovery agency. He'll also provide insight into the District's 20-Year CIP plan and highlight the State College Sewer Construction Project, an ambitious plan to replace some 7-miles of sewer to gain 9 million gallons of new water.

**Wednesday, July 18**

Dave & Buster's Restaurant  
Irvine Spectrum Entertainment Center  
11:30 am: Registration  
12:00 – 1:30: Lunch & Presentation

To make reservations, please go to [www.OCWater.org](http://www.OCWater.org)

Reservations must be made by EOB, Tuesday, July 17, to qualify for the Reservation Rate. Cancellations received AFTER this date CANNOT be refunded.

For more information, contact Leticia Villarreal at  
**(714) 378-3203**

Please identify yourself by name and membership number.  
RSVP IS A FINANCIAL COMMITMENT. NO-SHOWS WILL BE BILLED

## Orange County Water Association's Exhibition & Operator Competition

**Thursday, September 20, 2018**

**8:00 am to 1:30 pm**

**Rattlesnake Reservoir Park, Irvine**

### **VALUABLE OPERATOR TRAINING**

**2 Contact Hours • Sign-In Begins at 7:30 am**

Training Topics To Be Announced

For further details on the Training Event,  
and information on Exhibiting or Sponsorship, see Page 4 & 5.

## Dudek Announces Approval of Pure Water San Diego EIR/EIS

Dudek, a leading multidisciplinary environmental and engineering consulting firm, today announced the certification of the Pure Water San Diego Environmental Impact Report and Environmental Impact Statement (EIR/EIS). The milestone marks the completion of a three-year analysis of the proposed Pure Water Program by Dudek. One of the most ambitious water recycling programs in the nation, the Pure Water facility seeks to treat 83 million gallons per day to produce potable water for San Diego's more than three million residents.

Currently, the County of San Diego imports 85 percent of its water supply from the Colorado River and Northern California Bay Delta. As imported water costs continue to rise, the County is increasingly vulnerable to water shortages and drought. The Pure Water Program aims to provide one-third of San Diego's water supply by 2035 by increasing local control of a sustainable water supply and alleviating dependence on imported water. The Pure Water Program also boasts notable environmental advantages for the region, including a reduction in the flow of treated wastewater



effluent to the Pacific Ocean.

Dudek analyzed potential environmental impacts associated with construction and operation of the Pure Water San Diego facility, as well as long-term

effects associated with changes in water supply procurement. The expertise of the Dudek team ensured the City of San Diego Development Services Department received the nearly 3,000-page Final EIR/EIS on schedule. The San Diego City Council unanimously certified the documentation in April. Dudek is now supporting the City with obtaining key permits from the Army Corps of Engineers, California Department of Fish and Wildlife, and Regional Water Quality Control Board.

"Dudek is absolutely thrilled to have the opportunity to work on the Pure Water San Diego project which sets a new nationwide precedent for water recycling on such a grand scale," said Project Manager Shawn Shamlou. "Our team was fortunate to work directly with the City of San Diego and Bureau of Reclamation agencies. Their professionalism and technical expertise inspired the Dudek team to work ever harder to meet their schedule targets and successfully deliver a comprehensive environmental document that will serve as a benchmark for similar projects."

To learn more about the San Diego Pure Water project, visit [www.Dudek.com](http://www.Dudek.com).



## IRWD and Macquarie Capital Complete Innovative Energy Storage Project

*Continued from Page 1*

gallons – of recycled water per year.

The battery storage project is just part of the District's ongoing mission to promote innovative and sustainable solutions to meet the water and resource recovery needs of the community. Recycled water makes up more than a quarter of the District's water supply portfolio – reducing reliance on costlier imported water supplies, increasing the District's self-sufficiency, keeping landscaping green and beautiful, supporting fertile agricultural areas, and fueling the local economy's commercial and industrial needs.



Paul Cook

Macquarie Capital is the owner and operator of the energy storage systems. It partnered with IRWD as part of its efforts to help modernize SCE's electric grid across the utility's West Los Angeles Basin service territory. The project was designed by tech startup Advanced Microgrid Solutions (AMS) using lithium-ion power packs from Tesla Energy and AMS' industry-leading transactive energy management platform.

"The completion of the Michelson battery project underscores the promise of grid-connected storage to deliver flexibility and

value to utilities, customers and ratepayers alike," said Michael Silverton, head of Macquarie Capital in the Americas.

A portion of IRWD's energy storage network will be supplemented by renewable energy sources to further the economic and environmental benefits of the project.

"IRWD is incredibly proud of its investment in energy solutions that serve our customers more effectively and efficiently while helping SCE operate the grid," said Paul Cook, general manager of IRWD. "This project underscores the District's ongoing commitment to making the most of all resources as demonstrated by our highly successful water efficiency programs and history of providing recycled water service to the community for use in landscape irrigation, cooling towers and dual-plumbed buildings."

"This project epitomizes the concept of storing surplus and saving it for later. As we experience more volatile climate extremes, which puts pressure on both water and electricity sources, IRWD will drive solutions to prepare for leaner times," Cook added.



# 39<sup>th</sup> Annual Golf Tournament Recap & Photos Available Soon

Everything came together June 4 to create a memorable day of golf and camaraderie.

Over 100 golfers turned out for a great tournament. And the weather didn't disappoint: it was a beautiful, sunny day, with blue skies and mild temperatures.

Held this year at a new venue, Strawberry Farms Golf Course in Irvine, the event was well-received by all participants.

We'll have the complete tournament wrap-up, including winning scores and pictures of all the day's events, in a special eblast available soon.



## ACWA Spring Conference Presentations Available For Online Download

If you missed an interesting program or session at ACWA's 2018 Spring Conference & Exhibition in Sacramento you can now download available presentations and materials from the two days of programs, forums, town halls, and luncheons on ACWA's website [here](#).

The conference hosted more than 1,500 water professionals and leaders from throughout California in early May.

## 2018 OCWA CALENDAR OF EVENTS

Date	Event/Topic	Location
August 15	Luncheon/Speaker TBA	Dave & Busters
September 20	Exhibition & Operator Competition	Rattlesnake Reservoir
October 17	Luncheon/Speaker TBA	Dave & Busters
November 14	Luncheon/Speaker TBA	Dave & Busters
December 7	61 <sup>st</sup> Annual Holiday Dinner Dance	Marconi Automotive Museum

### Monthly Luncheon Sponsorship Opportunities

OCWA is soliciting for sponsorship of OCWA Luncheons. Sponsorship is available for \$250. Sponsors must be a current OCWA member.

A table is made available at the meeting for the sponsor to display their company or agency information, and the sponsor receives two free luncheons.

Sponsors will be provided announcement space in the newsletter and will be verbally recognized before and after the luncheon.

If you are interested in participating, please contact  
**John Robinson, (626) 375-9389,**  
or you may email him at [johnrobinson91007@gmail.com](mailto:johnrobinson91007@gmail.com).

## 39<sup>th</sup> Annual Golf Tournament

June 4, 2018



### Corporate Sponsors

*The following companies  
joined with OCWA  
to sponsor this year's  
Golf Tournament.*

AES Water, Inc.	Darik Walton
American Flow Control	Blair Schueler
Atkinson, Andelson, Loya, Ruud & Romo	Jeff Hoskinson
Bingham and Taylor	Mark Delancellotti
Bush and Associates	David Bush
Cab Engineers, Inc.	Cory Bersch
Civiltec Engineering, Inc.	W. David Byrum
Cla-Val Company	Monte Roberts
Clow Valve Company	Nolan Foran
DUDEK	Frank Dudek
DUDEK	Bob Ohlund
Ford Meter Box Co.	Blake Kidd
GCI Construction	Terry Gillespie
General Pump	Michael Bodart
Geocon West, Inc.	Jeff Hull
Gladding McBean	Joe Parker
Guida Surveying, Inc.	Ralph Guida
Hazen and Sawyer	Dave Jones
HDR	Steve Friedman
JCM Industries/Tripac	Bill Foster, Sr.
Mainline Sales	Jon Christy
M & H Valve	Matt Armstrong
MISCO Water	Tom Roberson
Muller Systems	Kevin Cornejo
Muller Systems	Kevin Cornejo
MWH Constructors	Paul Allison
National Meter and Automation	C. Robert Sears
O.C. Winwater	Joe Bielski
Paulus Engineering, Inc.	Jason Paulus
Penco Engineering, Inc.	Jeff Cooper
Psomas	Mike Swan
Richard Slade & Associates	Richard Slade
Stantec	Jim Cathcart
TE Roberts, Inc.	Tim Roberts
Tetra Tech	Mark Bush
Tesco Contols	Shain Thomas
TRIPAC	Bill Foster, Sr.
TRIPAC	Bill Foster, Sr.

**Our sincere thanks and appreciation to all our Sponsors.  
Their generous support helps ensure our Golf Tournament  
remains a tremendous success, year after year.**

# Orange County Water Association

## OPERATOR TRAINING, PRODUCT EXHIBITION & TEAM COMPETITIONS

This annual event provides a great opportunity for quality continuing education, a chance to gather information on new products and learn more about current technologies directly from the experts, and an excellent opportunity to socialize with others in the industry.

This Specialized CE Training and Vendor Exhibition ranks among OCWA's Premier Events, and the Tapping Competition is a great way to build teamwork and meet others.

Space Goes Quickly so Sign-Up ASAP. You won't want to miss it!

Make Plans  
to Attend!  
Register  
Today!

Thursday,  
September 20, 2018  
7:30 a.m. to 1:30 p.m.

Training  
Sessions  
& Vendors  
Announced  
Soon

Back by  
Popular Demand:  
**HORSESHOE  
COMPETITION!**  
Limit 2 Teams per Agency  
Details to Follow

### IRWD's Rattlesnake Reservoir

4769 Portola Parkway, Irvine

- ★ Vendor Exhibits . . . . . All Day
- ★ Vendor Set-Up . . . . . 7:00 am
- ★ Operator Training 'Check In' . . . . . 7:30 am to 8 am
- ★ Operator Training (2 Sessions) . . . . . 8 am to 10 am
- ★ Pipe Tapping Competition . . . . . 10 am to Noon
- ★ Horseshoe Competition . . . . . 10 am to Noon
- ★ CATERED BBQ LUNCH . . . . . Noon to 1 pm
- ★ Opportunity Drawing . . . . . 1 pm

Catered Lunch: **Tickets: \$45<sup>00</sup> each**

Door Prizes needed; please bring to event.

**Sponsorship Opportunities are Available:**

**Sponsor: \$200.00 ★ Exhibitor: \$300.00**

Sponsors receive recognition at the event, have their name on a banner, and are recognized in the OCWA newsletter.

Reservations can be made on the OCWA website:

[www.ocwater.org](http://www.ocwater.org)

or you may email **John Robinson** at  
[johnrobinson91007@gmail.com](mailto:johnrobinson91007@gmail.com)



#### OPERATOR TRAINING (2 Contact Hours)

Operator training courses will be offered for hands on training in select industry skills. We haven't finalized the arrangements yet, but expect to have detailed information available soon. This is a great opportunity to gain 2 contact hours for certifications. Certificates will be provided for attendees.

Attendees may sign up for the training on the OCWA website, [www.ocwater.org](http://www.ocwater.org), or contact John Robinson, (626) 375-9389.

#### VENDOR EXHIBITION

Last year, we had over 20 vendors from the water industry display their latest products and services. There were pipe suppliers, tank suppliers, valve suppliers, meter suppliers and more on hand to demonstrate their products and answer questions. This is a great opportunity to meet multiple suppliers in one place and get information that will benefit your agency or project. Since the venue is outside, some vendors have live demonstrations of their products. Come see the best and latest products in the water industry!

#### OPERATOR COMPETITION (Pipe Tapping Contest)

This is the 11<sup>th</sup> year of the pipe tapping contest. This is a great opportunity to build teamwork among staff. The pipe tapping contest will follow the same rules as the AWWA competition. Each team will be given two chances at the pipe tap. All material – except the tapping machine – is provided by OCWA. Trophies are awarded to the first and second place teams. Agencies may have multiple teams. Contact Randy Lovan at (949) 439-0423 if your agency is interested in competing. Attendees and observers enjoy the benefit of networking with operators from other agencies, which helps improve the overall industry.

Thanks to our many sponsors and benefactors, but especially to **Irvine Ranch Water District** for its generous donation of the use of Rattlesnake Reservoir as the site for our event. Without IRWD's support, our event would not be possible.



# Sponsor & Exhibitor Opportunities available for

## Orange County Water Association Vendor Exhibition, Operator Training, & Team Competitions

### Thursday, September 20, 2018

7:30 a.m. to 1:30 p.m. (Set-Up Begins at 7 a.m.)

**Rattlesnake Reservoir • 4769 Portola Parkway, Irvine**

**YES!** I would like to participate in the OCWA Annual Exhibition and Operator Training Event

I wish to participate as:

**Exhibitor (\$300\*)**

Company Name	Contact
Phone	E-mail
Product or Service Displayed	

*\*Exhibitors receive covered exhibitor space for set-up and display (please let us know if you have any special needs or requirements), prominent listing in all on-line and associated advertising, and lunch for all participants.*

**Sponsor (\$200\*\*)**

Company Name	Contact	
Street		
City	State	Zip Code
Phone	E-mail	

*\*\*Sponsors will be prominently displayed in all on-line and associated advertising, as well as be listed on event-day signage.*



Enclosed, please find a check payable to  
**Orange County Water Association** in the amount of: \_\_\_\_\_

Mail this form, with your check, to:

**Orange County Water Association**  
P.O. Box 51404 • Irvine, California 92619-1404

**Please respond by Thursday, September 6, 2018,  
to ensure adequate space is available.**

Questions? Please contact John Robinson, (626) 375-9389,  
or via email at: johnrobinson91007@gmail.com

## Board of Directors

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OCWA's Board of Directors meets on the third Wednesday of each month, unless notified otherwise. The next meeting is scheduled for:

**July 18, 2018  
10:30 am to Noon**

Dave & Buster's Restaurant  
Irvine Spectrum  
Entertainment Center

♦ ♦ ♦

Unless otherwise noted, all articles in this newsletter reflect the views or opinions of the authors and not the official opinion of OCWA, its membership or Board of Directors. All Advertisements contained in the newsletter are subject to the OCWA Advertising Policy. The OCWA Advertising Policy is available on request from the Association.

## Beyond the Brink Documentary Available on Streaming Services

*Beyond the Brink*, the latest documentary from filmmaker Jim Thebault of The Chronicles Group, Inc., examines the water and food nexus, specifically addressing the severity and



consequences of water shortage in California's San Joaquin Valley, which supplies food to the nation and world. *Beyond the Brink* is the third installment of the *Running Dry* documentary series that examines water supply issues in the United States and in developing nations.

The National Water Research Institute and The Chronicles Group, Inc., facilitated two workshops in the San Joaquin Valley, which are

featured in *Beyond the Brink*. The workshops were funded by a grant from the National Science Foundation (NSF). The documentary used footage from the workshops to focus on the water quality and resource challenges facing small, rural communities in the Valley. *Beyond the Brink* was distributed and released in April 2018 by Freestyle Digital Media, a subsidiary of Entertainment Studios Motion Pictures. A trailer for *Beyond the Brink* is available for viewing [here](#). Or click [here](#) to rent or purchase *Beyond the Brink* from Amazon Prime.

## July Industry Insight Topic

# An Overview of Orange County Sanitation District as it Transitions to Resource Recovery

### Presenter:

**Rob Thompson**

Assistant General Manager,  
Orange County Sanitation District



Join us as Rob Thompson provides an overview of OCSD's transition from a wastewater treatment plant to a resource recovery agency. He'll also provide insight into the District's 20-Year CIP plan and highlight the State College Sewer Construction Project, an ambitious plan to replace miles of sewer lines to gain 9 million gallons of new water.

The State College Construction Project will replace miles of sewer line along State College Boulevard from SR-91 to Orangewood Avenue in the City of Anaheim. Construction is scheduled to begin in summer 2018 and conclude in late 2020. Once the project is complete, nine million gallons of wastewater will be diverted to OCSD's Plant in Fountain Valley for treatment before being sent to the Groundwater Replenishment System. This is Phase B of a two-phase project; Phase A was completed in 2017 and took place from Yorba Linda Blvd. to SR-91 in the City of Fullerton.

**Wednesday, July 18, 2018**

Dave & Buster's Restaurant ♦ Irvine Spectrum Entertainment Center

**11:30 am: Registration ♦ 12:00 – 1:30: Lunch & Presentation**

OCWA Members with Reservations..... \$30

Non-Members with Reservations..... \$45

OCWA Members without Reservations... \$45

Non-Members without Reservations..... \$45

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