



# Water Matters

News for the  
Orange County  
Water Community

MAY, 2016



## 2016 Drought Response Workshop Set for May 16

Irvine Event hosted by Department of Water Resources, Southern California Water Committee, and the National Water Research Institute

**Register Today! You Won't Want to Miss this Informative Event!**

The 2016 Drought Response Workshop will take place **May 16-17, 2016**, at the **Atrium Hotel in Irvine**, California. This event is sponsored by California Department of Water Resources (DWR), Southern California Water Committee (SCWC), and the National Water Research Institute (NWRI). The two-day program will focus on drought planning, response, and mitigation measures, and will feature presentations and panel discussions by water resources professionals and academics. To register online for the event, [click here](#).

The purpose of the Drought Response workshop is to review and provide updates on drought planning, response, and mitigation measures. Water agencies and other public and local agencies involved in drought response and planning efforts are invited to attend. This two-day program will include talks by water resources professional and academics from California.

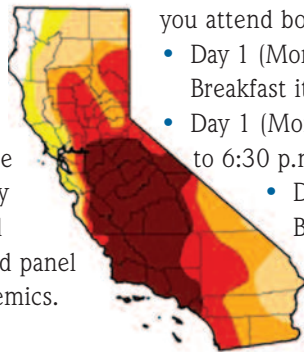
This event has been approved by the California State Water Resources Control Board (SWRCB) for **Continuing Education Units (CEUs) for drinking water operators**. Participants can earn up to 5.5 hours for attending Day 1 and up to 5 hours for attending Day 2.

A preliminary agenda is available on the event web

site at: [www.nwri-usa.org/drought2016.htm](http://www.nwri-usa.org/drought2016.htm).

Please contact Suzanne Faubl of NWRI at [sfaubl@nwri-usa.org](mailto:sfaubl@nwri-usa.org) or (714) 378-3278 with questions regarding the program.

The cost to attend is **\$20 for full-time students** (with valid ID) and **\$40 for all others**. The price is the same regardless if



you attend both days or just one. Your registration includes:

- Day 1 (Monday, May 16). Workshop from 10 a.m. to 5 p.m. Breakfast items and lunch provided.
- Day 1 (Monday, May 16). Networking reception from 5 p.m. to 6:30 p.m. Appetizers/refreshments.
- Day 2 (Tuesday, May 17). Workshop, 9 a.m. to 3 p.m. Breakfast items and lunch provided.

**Confirmed speakers and presentation topics include:**

### Current Drought Status

- **Statewide Water Conditions and Preparing for 2017:** *Jeanine Jones, DWR*
- **State of the Climate and Another Anomalous Water Year:** *Michael Anderson, DWR*
- **Panel Discussion: Utilities' Experience with Drought Response.** *Moderated by Charley Wilson, SCWC*

### New Monitoring Methods and Assessment

- **Introduction to the New NASA Water Office:** *Stephanie Granger, Jet Propulsion Laboratory (JPL)*
- **Using New Sentinel InSAR Data to Monitor Land Subsidence in Southern CA:** *Tom Farr, JPL*
- **Using Aircraft-based INSAR for Monitoring Critical Water Infrastructure:** *Cathleen Jones, JPL*
- **Research on Remote Sensing for Water Quality Monitoring in the Bay-Delta:** *Christine Lee, JPL*

### Water Supply Alternatives

- **California's Sustainable Groundwater Management Act and the Orange County Groundwater Basin.** *Roy Herndon, Orange County Water District*
- **State Water Resources Control Board: Stormwater Strategic Plan.** *California State Water Resources Control Board*
- **Status of Direct Potable Reuse in California:** *Jeff Mosher, National Water Research Institute*



Eighth Annual County-Wide

# 2016 SAFETYFEST

Join us for the eighth annual county-wide safety event created for the water industry.

There will be Contact Hours available to those attendees who attend any, or all, of the state-approved training sessions offered at SafetyFest.

Topics in the training sessions include:

Confined Spaces in Water & Wastewater  
OSHA Top 10 Violations ♦ Emergency Field/First Aid  
Pre-Incident Indicators for Terrorism  
Emergency Response Protocols

Presenters are from OCIAC, WEROC, ACWA JPIA, ARC & SCWD.

**Wednesday, May 18, 2016**

**7:30 am to 4:00 pm**

Registration begins at 7 am

Continental breakfast and a lunch buffet are included.



**City of Santa Ana Public Works Yard**

220 S. Daisy Avenue • Santa Ana, California 92703

Tickets: **\$40<sup>00</sup>** PER PERSON (Member & Non-Member)

To make reservations, go to: [www.oc-water.org](http://www.oc-water.org)

You may also pay by check. Mail payment to:

**Orange County Water Association**

Attn: SafetyFest

P.O. Box 51404 • Irvine, California 92619-1404

For more information, contact:

**Kelly Hubbard** at (714) 593-5010

or via email: [Khubbard@mwdoc.com](mailto:Khubbard@mwdoc.com)

RSVP IS A FINANCIAL COMMITMENT.

NO-SHOWS WILL BE BILLED



## Make Plans to Attend

# The 37<sup>th</sup> Annual OCWA Golf Tournament

Monday, June 6, 2016 • Newport Beach Country Club

10:00 am Check-In • 11:45 am Shotgun Start

As it proves to be every year, the 37<sup>th</sup> Annual OCWA Golf Tournament promises to be a great day of friendship, good food, and great golf.

The event is for OCWA members and their water professional guests. Accordingly, the OCWA Board requires a minimum of one OCWA Member per cart or two OCWA Members per foursome.

Complete Rules for the Tournament, as well as Sponsor

Information and Golfer Registration, are available attached to this newsletter.

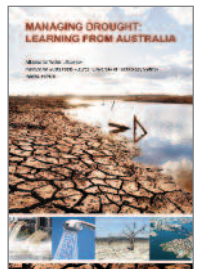
You can use the form as well to sign-up as a 2016 Golf Tournament Sponsor.

For additional information about the Tournament, or to learn more about Sponsorship Opportunities, please email Michael Sinacori, Tournament Chairman, at [msinacori@newportbeachca.gov](mailto:msinacori@newportbeachca.gov)

## Alliance for Water Efficiency Releases Report on Australia Drought *What California Can Learn from Australia's Millennium Drought*

A new report shows that strategies developed and mistakes made during Australia's decade-long millennium drought provide a powerful resource for California, as the state enters its fifth year of severe drought.

"The Australian experience shows that investment in water conservation options provided the cheapest, quickest and most effective contribution to managing demand during the drought," said Professor Stuart White, director of the Institute for Sustainable Futures (ISF), at the University of Technology Sydney. "Without them many cities and towns would have run out of water."



*Managing Drought: Learning from Australia*, a report by researchers at ISF, the Pacific Institute and the Alliance for Water Efficiency, provides an overview of key events and initiatives implemented in Australia's four largest cities: Sydney, Melbourne, Brisbane and Perth. The report was funded by the Metropolitan Water District of Southern California, the San Francisco Public Utilities Commission, and the Water Research Foundation.

Australia survived the millennium drought by demonstrating world-leading innovation and water planning and management, said Professor White. An important factor in the successes was community involvement which rallied support to lower household water demand to a target of 37 US gallons per person per day.

"California has made significant progress in advancing water conservation and efficiency to cope with the drought, but this report shows that more can be done," said Heather Cooley, Director of the Water Program at the Pacific Institute. "But Australia made much larger investments in water conservation and efficiency, which allowed them to cope with the millennium drought and also reduce vulnerability to future droughts."

"In Australia, urban water efficiency was the quiet achiever and California can benefit from long-term structural changes in water use by implementing similar water-efficiency measures," said Mary Ann Dickinson, President and CEO of the Alliance for Water Efficiency. However, she said, the Australian experience also provided lessons of what not to do. "We wanted to document in this report lessons learned that can inform future decisions by California's policy-makers."

The full report can be downloaded for free from the Alliance for Water Efficiency website.

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

Monday, June 6, 2016

#### Corporate Sponsors

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

AES Water Inc.	Darik Walton
American Geotechnical, Inc.	Sherie Haeggstrom
Arcadis	Jim Cathcart
Bingham and Taylor	Mark Delancellotti
Bowie, Arneson, Wiles & Giannone	Jeff Hoskinson
Bush and Associates	David Bush
Cab Engineers, Inc.	Cory Bersch
Civiltec Engineering, Inc.	W. David Byrum
Clow Valve Company	Nolan Foran
DUDEK	Frank Dudek
DUDEK	Bob Ohlund
Fieldman, Rolapp & Associates	Tom Demars
General Pump	Michael Bodart
Gecon West, Inc.	Jeff Hull
Guida Surveying, Inc.	Ralph Guida
HDR Engineering	Steve Friedman
Interwest Consulting Group	James Ross
Kato Landscaping	Randy Kato
Mainline Sales	Jon Christy
Michael Baker International	John Nagle
MISCO Water	Tom Roberson
National Meter and Automation	C. Robert Sears
Neptune TG	Andy Bohm
Pace Advanced Water Engineering	Andrew Komor
Paulus Engineering, Inc.	Jason Paulus
Penco Engineering, Inc.	Jeff Cooper
Psomas	Mike Swan
Richard Brady & Associates	Howard Johnson
Richard Slade & Associates	Richard Slade
Skanska	Steve Agor
TE Roberts Inc.	Tim Roberts
Tetra Tech	Mark Bush
TRIPAC	Bill Foster Sr.
United Water Works	Jerry Canada

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## 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 one free lunch. Sponsors will be provided announcement space in the newsletter and will be verbally recognized before and after the luncheon. During lunch, sponsors can play a PowerPoint slide presentation, and will be given a few minutes to address the group about their company before the Speaker's presentation.

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

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. All Advertisements contained in the newsletter are subject to the OCWA Advertising Policy. The OCWA Advertising Policy is available on request from the Association.

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

**June 15, 2016 ♦ 10:30 am to Noon**

Dave & Buster's Restaurant ♦ Irvine Spectrum Entertainment Center

# Big Changes are in Store for State's Water Supply

By JAY LUND, Director, Center for Watershed Sciences, UC Davis

California faces major changes in its water supply. The sooner everyone realizes these changes are coming, the better the state will be able to cope with what lies ahead.

Today's changes are driven by efforts to end groundwater depletion, by sea level rise and loss of snowpack, salts and nitrate accumulating in groundwater, new invasive species, population growth and California's globalized economy and agriculture.

Here are six inevitable changes that California will need to deal with to sustain the state's ecosystems and water supplies:

- 1) **The Sacramento-San Joaquin Delta will export less water and some islands will flood.** The Delta will remain California's most difficult water problem. Some deeply subsided Delta islands and levees are financially unsustainable and will flood without large state subsidies. With land subsidence, sea level rise, increasing seepage and chance of earthquakes, their agricultural value is limited and repair costs are high. Environmental requirements already reduce Delta water diversions. New flow requirements and climate changes are likely to further reduce water diversions upstream and within the Delta. Ending groundwater overdraft will increase demands for Delta water.
- 2) **The San Joaquin Valley will have less irrigated land.** The southern Central Valley is a huge productive agricultural region that relies on water from Delta imports, groundwater overdraft and San Joaquin River diversions. Reductions in these sources will decrease availability by 1.5 million to 4 million acre-feet per year, requiring the fallowing of 500,000 to 1 million acres of its 5 million irrigated acres. Some of this land will be retired due to salinization and urbanization. Continued shifts to higher-value crops, especially orchards, will help maintain agricultural revenues and jobs, as they have during the drought.
- 3) **Urban areas will use less water, reuse more wastewater and capture more stormwater.** Water supply risks and costs will drive cities to use less and capture more water. These changes will improve supply reliability and free some water for agriculture and environmental uses, at some cost. But not all actions are equally effective. Water conservation, reuse and stormwater capture are all effective in coastal areas, which

drain to the sea. Reducing landscape irrigation is more effective for inland conservation.

- 4) **Some wild native species will become unsustainable.** A warmer climate, combined with continued stress on water and land, and the dilution of wild genetic stock by hatchery fish, will make some native fish species unsustainable in the wild, despite concerted restoration efforts. Native plants and animals throughout California face similar risks. Not all can be expected to survive. This challenges our endangered-species laws and demands more attention to effective ecosystem management.
- 5) **Water solutions and funding will become more local and regional.** As federal and state governments face diminished funding and capability, local and regional agencies will become more central to solving water problems. Making state and federal regulations more effective and supportive of local and statewide interests in public health, the economy and environmental protection is a major challenge.
- 6) **Water will be managed more tightly.** California's 2014 groundwater legislation will require many areas to account for and manage groundwater, and all water, more closely. Less cumbersome court procedures, groundwater rights and water-accounting practices are needed. Tighter accounting will make water rights more valuable and make groundwater more sustainable, but will add some costs. Change is never easy, and responding to these changes will be hard but will ultimately improve the sustainability of California's ecosystems and water supplies. Most solutions will be funded and implemented by local and regional governments. State agencies must support them with transparent, workable water-accounting and legal authorities, and represent statewide environmental and health interests. Thoughtfully preparing for the inevitable changes in water policy will be messy, but it is needed to support California's environment and economy.

