



Water Matters

News for the
Orange County
Water Community

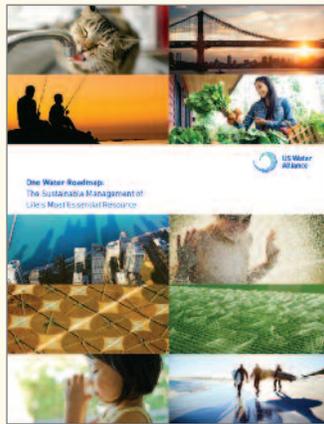
JANUARY, 2017



U.S. Water's 'One Water Roadmap' Envisions Path to the 'Utility of the Future'

The U.S. Water Alliance has released an extensive report providing a roadmap to advance its innovative "one water" concept.

According to the report, anyone involved with the water industry understands that the issues facing our nation's water supply are not only inherently complex, but also intrinsically linked with our daily lives; from the food we eat to the water that goes down the drain. This linkage is the central point of the U.S. Water Alliance's, *The One Water Roadmap: The Sustainable Management of Life's Most Essential Resource*, which seeks to create an innovative and inclusive mindset to the management of water resources. As direct managers of water, wastewater utilities figure prominently in the report.



The "Arenas for Action" section of the report parses a number of strategies for wastewater utilities, such as diversifying supply, utilizing green infrastructure and pursuing resource recovery, and it references several Utility of the Future initiatives by member utilities, such as DC Water's Resource Recovery Program. With strategies and case studies from stakeholders representing several different industries, the complete report gives a comprehensive overview of ways various sectors of the economy can work together to build thriving, resilient communities and ecosystems.

Download the complete report for free from the U.S. Water [website](#).

AWWA Releases Updated 'Let's Talk Safety' Book & DVD Set

The American Water Works Association has released the 2017 *Let's Talk Safety* book and DVD set. Designed to make it easy for utility safety officers to spend a few minutes each week communicating with employees about the critical importance of working safely, *Let's Talk Safety* removes the time and uncertainty that is often required when preparing safety presentations.

The *Let's Talk Safety* book provides 52 short briefings tailored specifically for water utility employees along with links to additional resources. Each briefing covers a single key topic. The

Let's Talk Safety 2017 Dual Disc Set also contains the 52 weekly safety talks as a PDF on CD and includes 12 video clips on DVD to enhance one talk a month.



The 2017 *Let's Talk Safety* book and the *Let's Talk Safety* 2017 Dual Disc Set can be purchased together or separately in AWWA's [online store](#).

Salinity Management Summit Presentations

Presentations are available for the **2016 Southern California Salinity Management Summit**, which was held November 17, 2016, in Los Angeles, California.

Sponsored by the Southern California Salinity Coalition, NWRI, and Southern California Water Committee, the event provided a forum for water and wastewater agencies in Southern California to share their current practices for managing salinity in the water supply. More than 80 agency staff, regulators, stakeholders, university faculty, and students from across Southern California gathered to discuss strategies for meeting salinity objectives under drought and changing conditions. For more information, visit www.socalsalinity.org.

It's Time to Renew Your
2017 OCWA Membership
Visit ocwater.org and
click on **Membership**
to sign up today.

2016 Clarke Conference Presentations Now Available

Presentations are now available for the **2016 Clarke Prize Conference**, which was held November 4, 2016, in Newport Beach, California, and attended by more than 120 people.

Sponsored by the National Water Research Institute, the conference featured talks by distinguished water resources experts from various academic institutions and water management agencies.



Dr. John D. Crittendon
2016 Clarke Laureate

Those who made presentations included **Perry McCarty** of Stanford University; **James Barnard** of Black & Veatch Corporation, and **Bruce Rittmann** of Arizona State University, among others. The highlight of the event was the Twenty-Third Annual Clarke Prize Award Ceremony, which honored **Mark D. Sobsey, Ph.D.**, Kenan Distinguished Professor of Environmental Sciences and Engineering, Gillings School of Global Public Health, University of North Carolina at Chapel

Hill, and recipient of the 2016 NWRI Athalie Richardson Irvine Clarke Prize for excellence in water research.

Topics discussed included:

- **Legionella and the Revolution in Water Distribution Microbiology** by Joan Rose, *Michigan State University*.
- **Nanotechnology Enabled Water Treatment: A Vision to Enable Decentralized Water Treatment and Reuse**, by Pedro J.J. Alvarez, *Rice University*

Drought Bill Helps OCWD Capture More Stormwater

The Water Infrastructure Improvements for the Nation Act, recently signed by President Barack Obama, will authorize California drought relief, provide aid to address lead-contaminated drinking water, and provide more than \$10 billion in flood control, navigation, beach re-nourishment, and environmental restoration projects.

The Act also allows Orange County Water District to maintain its existing separation of cost and flexibility in the temporary capture of stormwater behind Prado Dam, located in Riverside. By allowing local agencies to pay separable additional costs related to water conservation at local dams, more water can be captured during storm events to supplement drinking water supplies. More information is available at www.ocwd.com.

- **Antibiotics...Resistance is Futile! Presence, Impact, and Treatment and Removal of Antibiotic Resistant Bacteria in Water**, by Walter Jakubowski, *WaltJay Consulting* and Ryan Reinke, *Los Angeles County Sanitation Districts*
- **The Fifth Water Revolution**, by David Sedlak, *University of California, Berkeley*
- **Public Health Guidance on Implementing Decentralized Non-Potable Water Systems**, by Sybil Sharvelle, *Colorado State University*
- **Advances in Methods to Assess Microbial Water Quality**, by Channah Rock, *University of Arizona*
- **Water Quality Assessment for Direct Potable Reuse**, by Rhodes Trussell, *Trussell Technologies, Inc.*
- **Application of Bioassays for Monitoring Chemicals in Water from a Human Health Standpoint**, by Daniel Schlenk, *University of California, Riverside*

This year's recipient, public health microbiologist Dr. Mark D. Sobsey of the University of North Carolina at Chapel Hill, delivered his lecture on **Advances and Innovations to Achieve Microbially Safe and Sustainable Water: Detection, Treatment, and Risk Management**.

Presentations may be [downloaded](#) from the NWRI website.

NWRI is now soliciting sponsors for the 2017 Clarke Prize Award Ceremony and Conference. For more information, please contact Eileen Chao at (714) 378-3278 or echao@nwri-usa.org.

Invasive Beetles Found in Prado Basin

Polyphagous Shot Hole Borers are non-native invasive beetles, tree borers, and fungus farmers that are in the Prado Basin and threaten the forest. These beetles are tiny, the size of a pin head, but infest the trees they attack in such numbers and so thoroughly that previously healthy trees die quickly. They introduce and spread fungus in the vascular system of the tree, impeding the tree's ability to transport nutrients and water.

First recognized in 2012 in Southern California, arboreta, city landscaping and avocado groves were the first victims. The beetles have now been observed in 50 species of trees from Ventura to San Diego County and unfortunately attack the healthiest specimens. The beetles are native to Southeast Asia probably arriving here in the infested lumber of shipping containers.

Everyone is deeply concerned about the potential for devastation of the river forests, particularly Prado. For example, the riparian forest canopy was destroyed in the Tijuana River Valley in less than a year from discovery of the problem there; the many tens of thousands of willows and cottonwoods on the Tijuana River are dead or dying. Natural Resources staffs are working with regulators and researchers to trap and experiment with potential control techniques. Unfortunately, biological control via a non-native parasitic wasp is probably the only long-term solution but will take years to study and approve.



Photo by Gevork Arakelian, LA County Agricultural Commissioner

EPA Ready to Launch New Water Finance Program

By JOEL BEAUVAIS, U.S. Environmental Protection Agency

Many people don't know that EPA plays a central role in supporting water infrastructure development in large and small communities nationwide. We administer the Clean Water and Safe Drinking Water State Revolving Fund programs which, life-to-date, have supported over \$151 billion in low-interest loans and other critical support for water infrastructure. FY 2016 alone accounted for \$9.5 billion of such support. We also provide millions of dollars each year in training, technical assistance and direct support for small communities and communities in need. In 2015, we set up a Water Infrastructure Resiliency and Finance Center, that serves as a "think-and-do" tank to spur innovation in water infrastructure finance and support communities in need.

Now, we're getting ready to implement an innovative new program that could provide billions of additional dollars to support water infrastructure investment across the country. The Water Infrastructure Finance and Innovation Act (WIFIA) of 2014 created a new federal loan and guarantee program at EPA to accelerate investment in our nation's water infrastructure. It was designed after the proven and highly successful TIFIA infrastructure loan program at the US Department of



Transportation. WIFIA authorizes EPA to provide long-term, low-cost rate loans, at U.S. Treasury rates, for up to 49 percent of eligible project costs for projects that will cost at least \$20 million for large communities and \$5 million for small communities (population of 25,000 or less). WIFIA is structured to work hand-in-hand with the State Revolving Funds – giving states and prospective borrowers the opportunity to decide which program is best to support a given project, or whether both together should do so. The President's FY17 Budget Proposal called for a \$20 million investment in this program, which – because of the innovative way in which it's structured – would be expected to support nearly \$1 billion in loans for new water projects.

WIFIA has the potential to substantially expand available federal funding for water infrastructure, and we at EPA are excited about this new opportunity. This is about supporting our communities and the safe drinking water and clean water services upon which our public health and economic vitality depends. We're ready to get this program off the ground and begin providing low-cost loans for regionally and nationally significant projects.

For more information about the WIFIA program, visit www.epa.gov/wifia or contact WIFIA@epa.gov.

New Report Synthesizes Years of Direct Potable Reuse Research

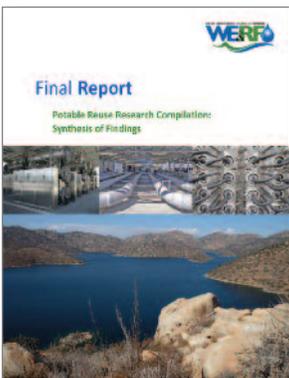
The Water Environment & Reuse Foundation (WE&RF) recently released a report entitled *Potable Reuse Research Compilation: Synthesis of Findings*. The report summarizes research and synthesizes the key issues surrounding

direct potable reuse (DPR), which is a form of planned potable reuse in which advanced treated water is added directly into a water distribution system or into a raw water supply immediately upstream of a drinking water treatment facility.

National Water Research Institute provided administrative and editorial management of this effort, with assistance from Dr. George Tchobanoglous, who served as the technical lead and co-editor of the report.

The Water Environment Federation and WE&RF will jointly host a web seminar on January 23, 2017, to provide an overview of the key issues, findings, and results of the research synthesis.

To join the webcast, visit the WE&RF webcasts [registration site](#).



ACWA Brings Water Together with New Logo and Tag Line

ACWA has unveiled a new logo and tagline that better reflects its position as a statewide leader in water policy.

The new look is the most significant change ACWA has made to its visual identity since 1994.

The logo incorporates the idea of water and movement, with waves symbolizing



ACWA members coming together as a unified whole. The tag line – *Bringing Water Together* – is meant to inspire and capture the essence of ACWA. It reflects the concepts that ACWA is both the place where the water community comes together to connect, network and learn, and the place where water issues are discussed and policy is developed and advocated.

The new branding has been incorporated throughout ACWA's entire business system and was approved by the ACWA Board of Directors in July 2016.

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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:

**January 18, 2017
10:30 am to Noon**

Dave & Buster's Restaurant
Irvine Spectrum
Entertainment Center

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January Luncheon Topic

MNWD's Advanced Meter Infrastructure (AMI) Program: Phase I – Pilot Implementation

Presenter:

Marc A. Serna, P.E., BCEE

Director of Engineering & Operations, MNWD

Moulton Niguel Water District's Advanced Meter Infrastructure (AMI) Implementation Program is a phased implementation that will assess the effectiveness of advanced metering capabilities and customer service portal accessibility. The ultimate goal is to provide real-time data on water usage and daily water needs, enhance outreach with customers, reduce real system losses, and increase water use efficiency and conservation.

Phase I of this AMI Implementation Program is a pilot project that will focus on the District's extensive recycled water and potable water irrigation customers, expand upon the District's efforts to promote water use efficiency by establishing a remote reading and communications network, meter data management system, and comprehensive customer service portal system.

Implementing AMI will assist the District in proactively identifying leaks, assist operations through demand-side time-of-use management, and benefit the customers by providing tools for monitoring water usage and promoting behavioral changes to optimize their operations in terms of water use efficiency.

This project will serve as a pilot for potential Phase II of the AMI Implementation Program, which would expand the program to include all 55,000 potable and recycled Water District customer accounts.

About Our Speaker: Marc Serna

Marc Serna is Director of Engineering and Operations for the Moulton Niguel Water District, located in Orange County, California. He has over 26 years of combined private and public experience in the water and wastewater industry.

Marc graduated from Loyola Marymount University, California, with a Bachelor's and Master's Degree in Civil Engineering. He is a California Registered Professional Civil Engineer, Board Certified Environmental Engineer, and a Certified Grade IV Water Treatment Plant Operator in California.

Wednesday, January 18, 2017

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 \$40
OCWA Members without Reservations... \$40 Non-Members without Reservations..... \$40

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

To make reservations, please go to the OCWA website: www.ocwater.org

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

Please identify yourself by name and membership number (number is printed on the newsletter mailing label.)

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

Time to Renew Your OCWA Membership

2017 Membership Dues are Payable this Month

Please take the opportunity, here at the beginning of the year, **to renew your membership** in the Orange County Water Association.

Existing members can renew their membership through PayPal by using the convenient [Registration Form](#) on the Association website.

2017 Membership Dues must be paid in full to qualify for discounted Member Luncheon Pricing.

If you are not a member yet, and would like to join, [click here](#) to download a Membership Application.

Dues for 2017 are \$60.00. Checks, made payable to OCWA, can be mailed to the Membership Committee at P.O. Box 51404, Irvine, California 92619-1404.

If you have any questions concerning membership, please call **Ryan Gallagher** at **(805) 298-3380**, or you may email him at membership@ocwater.org.