

WEEKLY WAVE

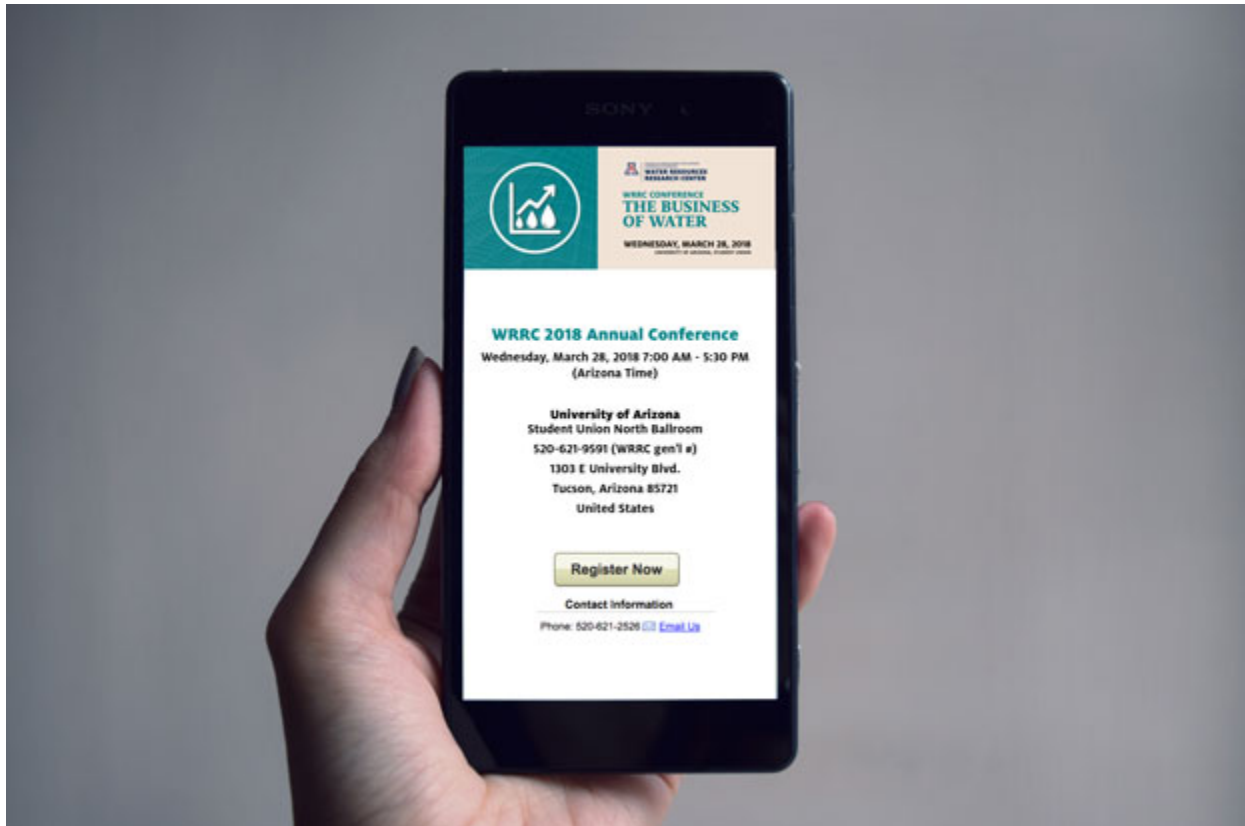


COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION
**WATER RESOURCES
RESEARCH CENTER**

January 19, 2018 / Volume 6, Issue 3

The [Water Resources Research Center](#) - a research and [Extension](#) unit of the [College of Agriculture and Life Sciences](#)

In this issue: [Promotion](#) / [AWR Published](#) / [Water Educators](#) / [Workshop](#) / [Brown Bag / Conferences](#)



WRRC Annual Conference Registration Now Open

Registration for the March 28, 2018 WRRC Conference, The Business of Water, is open! Register now, at the early bird rate of only \$100, and join us as we discuss complex and dynamic issues vital to the reliability and cost of our future water supplies. This year's conference, held at the University of Arizona Student Union in Tucson, includes knowledgeable speakers and topical panel discussions. In the morning, panels will address public-private partnerships and water

transactions. A lunchtime panel discussion will focus on binational cooperation, and in the afternoon, we spotlight the environment and the business of water as well, as the economic opportunities associated with water. See our agenda for full panel and keynote speaker details.

Agenda

REGISTER AT THE EARLY BIRD RATE

WRRC EVENTS

WRRC Brown Bag - New Techniques for Mapping Planted Versus Fallowed Croplands Using MODIS Data

January 23, 2018

Time/Location: 12:00 p.m. - 1:15 p.m. / WRRC Sol Resnick Conference Room (350 N. Campbell Ave.)

Speaker: Cindy Wallace, Research Geographer, USGS Western Geographic Science Center



An important metric to monitor for optimizing water use in agricultural areas is the amount of cropland left fallowed or unplanted. Fallowed croplands are difficult to model because they have many expressions; for example, they can be managed and remain free of vegetation or be abandoned and become weedy if the climate for that season permits. USGS Researchers used remote imaging to develop an algorithm that can routinely map cropland status (planted or fallowed) with over 75% accuracy.



If you can't make it to the seminar on January 23, join us [here](#).

WRRC Brown Bag - Scottsdale Water Campus: 20 Years of Sustainable Water Management

January 25, 2018

Time/Location: 12:00 p.m. - 1:15 p.m. / WRRC Sol Resnick Conference Room (350 N. Campbell Ave.)

Speaker: Brian K. Biesemeyer, Scottsdale Water Director



The Scottsdale Water Campus is a unique and technologically advanced facility that is the center of Scottsdale Water's Vision: Water Sustainability through Stewardship, Innovation and People. The campus started operations in 1998 and contains a water reclamation facility, an advanced water treatment facility, and a surface water treatment facility, along with more than 60 vadose

zone wells and a water quality laboratory. Currently the facility is able to treat 20 million gallons a day of sewage through its reclamation facility and advanced water treatment facility for direct aquifer recharge and golf course irrigation. Additionally, the surface water treatment facility is capable of treating up to 70 million gallons a day of Central Arizona Project (Colorado River) water for drinking water purposes.



If you can't make it to the seminar on January 25, join us [here](#).

Upcoming Brown Bag Seminars

- **Feb. 6** - Maria Dadgar, *Executive Director, Inter Tribal Council of Arizona*
- **Feb. 12** - Marty Ralph, *Researcher, Climate, Atmospheric Science & Physical Oceanography, Scripps Institution of Oceanography, UC San Diego*
- **Feb. 21** - Jacob Petersen-Perlman, *Research Analyst, Water Resources Research Center, University of Arizona* and Sharon B. Megdal, *Director, Water Resources Research Center, University of Arizona*
- **Feb. 22** - John Fleck, *Author*
- **Mar. 02** - Steve Nebiker, *VP, Business Development/Marketing, HydroLogics* and Charlie Ester, *Manager of Water Resource Operations - Salt River Project*
- **Mar. 13** - Ben Wilder, *Director, Desert Laboratory on Tumamoc Hill*
- **Mar. 19** - Val Little, *Director, Water Conservation Alliance of Southern Arizona*
- **Apr. 12** - Felicia Marcus, *Chair, California State Water Resources Control Board*
- **Apr. 17** - Chris Castro, *Associate Professor, Department of Hydrology & Atmospheric Sciences, University of Arizona*



14th Annual WRRRC Chocolate Fest

February 16, 2018

Time/Location: 3:30 p.m. - 5:00 p.m. / WRRRC Sol Resnick Conference Room (350 N. Campbell Ave.)

Don't miss the 14th Annual WRRRC Chocolate Fest! Share your favorite treats and try sinfully spectacular creations from your water friends and colleagues. Also, help us applaud the WRRRC's photo contest winners. We received an amazing array of photographs this year, capturing stunning examples of water across the state. Please tell your friends - and let the chocolate festivities begin!



[Event Flier](#)
[Photo Contest Winners](#)

WRRRC NEWS

Dr. Jean McLain Appointed Assistant

Dean for Faculty Advancement

We are very pleased to announce that Dr. Jean McLain was appointed the Assistant Dean for Faculty Advancement for the College of Agriculture and Life Sciences, effective January 8, 2018. Given the time requirements for her new responsibilities, she has stepped down as WRRC Associate Director, but she will remain active in WRRC programs. Specifically, Dr. McLain will continue her research examining the quality of Arizona's surface and irrigation water, and will remain active in extension and outreach programs to communicate results to stakeholders throughout the state. Please join us in congratulating her on her promotion.



Winter 2018 AWR Published

The WRRC is pleased to announce publication of the Winter 2018 Arizona Water Resource. This issue presents the winners of the WRRC's photo contest, which attracted many outstanding submissions. The feature article looks at the use of reclaimed water, particularly potable reuse, while WRRC Director Sharon B. Megdal's Public Policy Review column lets readers in on her strategies for teaching the ins and outs of water policy to UA graduate students and others. As usual, News Briefs and Resources highlight items of interest from the world of water.



AZ Pure Water Brew Challenge. Photo Pima County

[Read AWR](#)

Walking the Talk



For the UA student Water Educator in AZ Project WET's Tucson Program, the last day of winter break was busy! Our Water Educators spent the day working

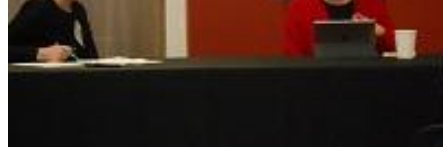


on their lesson facilitation skills and learning more about Tucson's urban water cycle. Also, they reviewed their previous semester's performance and collaborated with each other on improvement plans to enhance their skills. Annually, Water Educators in the Tucson Education Program, sponsored by Tucson Water, provide direct instruction to 11,423 K-12 students in a variety of lessons about groundwater, water conservation technology, watersheds, and water audits. They also staff over 40 events engaging over 6,000 students and 3,000 adults each year. Water Educators will tour the Tucson Management and Distribution system with Tucson Water professionals later this month. They are becoming water ambassadors for this community!

WRRC Researchers Participate in Water-Food-Energy-Climate Nexus Workshop



Director Sharon B. Megdal and Research Analyst Jacob Petersen-Perlman participated in a workshop held at Arizona State University's Sandra Day O'Connor College of Law on January 11. The workshop was entitled "Rethinking Law in a Nexus Future: Governing energy, water, food and climate challenges." It was



sponsored by the PLuS Alliance, a partnership of Arizona State University and the University of New South Wales. Academics from universities in Australia, Ecuador, U.K, and the U.S. participated. Workshop session topics included "Food Systems and Nexus Futures," "Energy and Nexus Challenges," and "Nexus Issues: Insights from the Colorado River and Groundwater." Drawing from the WRRRC's national-scale groundwater governance and management survey work, Megdal and Petersen-Perlman presented on water nexus considerations and the decentralized nature of groundwater governance and management in the United States. Megdal also served as a discussant for a paper on the water, food, and energy nexus in Ecuador. For more information about the WRRRC's research efforts in groundwater governance and management, please visit the link below.

[Groundwater](#)

Arizona's Agribusiness Economic Impact, January 17th WRRC Brown Bag



At the January 17, WRRC Brown Bag, George Frisvold, Professor and Extension Specialist at the University of Arizona's Department of Agricultural and Resource Economics provided a detailed look at the economic impact of Arizona's agribusiness and how input-output (I-O) models can be used to estimate these impacts on local communities and statewide. Dr. Frisvold discussed direct multiplier effects of related industries including those that support on-farm production, businesses that process food and fiber after it leaves the farm, companies that market and distribute agricultural products, and a wider circle of goods and service providers. Through a combination of direct and multiplier effects, the agribusiness system contributed \$23.3 billion in sales and more than 138,000 jobs to Arizona's economy. Dr. Frisvold also discussed the strengths and pitfalls of using models to evaluate the effects of water shortages on agribusiness and the broader economy.

[View Presentation](#)

Two Water Resources Conferences to Consider



Early Registration ends January 21, 2018 for Recharge to the Rescue! Managed Aquifer Recharge as a Water Management Tool, the 16th Biennial Symposium on Managed Aquifer Recharge (BSMAR), which will take place on March 5-7, 2018 in San Diego, CA. The Groundwater Resources Association of California and the Arizona Hydrological Society have held this long-standing series of symposia since 1978 in locations alternating between California and Arizona. This year the BSMAR program features two sessions on Arizona Managed Aquifer Recharge, led off by WRRC Director Sharon Megdal. Others speaking during the Arizona sessions include UA graduate student Rebecca Bernat, Gary Gin of Leonard Rice Engineers, Maya Teyechea and Beth Scully from Tucson Water, and Nathan Nutter of Carollo Engineers. Margaret Snyder from Tucson water will also be giving a presentation and UA graduate student Mary Belle Cruz Ayala will present a poster focusing on Sonora, Mexico.

Then on June 26-28, 2018, the Universities Council for Water Resources (UCOWR) & National Institutes of Water Resources (NIWR) are holding their 2018 Annual Water Resources Conference in Pittsburgh, PA. The call for oral and poster presentation abstracts is out. The abstract submission deadline is January 22, 2018. Conference registration will open in February.

[BSMAR Registration](#)
[UCOWR/NIWR Abstract Submission](#)

ANNOUNCEMENTS



The image is a promotional banner for an Arizona Water Map Poster. On the left, there is a small thumbnail of the map poster, which shows a map of Arizona with various water features and labels. The text "ARIZONA WATER" is visible at the top of the thumbnail. To the right of the thumbnail, the text "ARIZONA WATER MAP POSTER AVAILABLE" is written in large, bold, white capital letters on a dark teal background. Further to the right, there is a white button with the text "ORDER HERE >>" in dark teal capital letters.

- [January 26-27 Urban Waterfronts Conference](#)
- [January 29 National Weather Service - Summer Intern Positions](#)
- [February 2 L'Oréal Women in Science Grants on Trialect - Applications Due](#)
- [February 5 Borlaug CAST Communication Award - Call for Nominations](#)
- [February 6 - March 1 UA Cooperative Extension - Spring Smartscape Classes](#)
- [February 8 Watershed Academy Webcast Seminars - Surface Water Toolbox](#)
- [February 13 Utah State University Extension Office - New Webinars](#)
- [February 14 U.S. Borlaug Summer Institute on Global Food Security - Applications Due](#)
- [February 22-23 Land and Water Summit](#)
- [February 26-27 NGWA Conference on Groundwater Issues and Science Affecting Policy and Management in the Southwest](#)
- [February 28 AWRA Conference on Transboundary Groundwater - Call for Abstracts](#)
- [March 3 SRP Water Conservation Expo](#)
- [March 6 BSMAR16 - Registration Open](#)

- [March 25-28 AWWA Sustainable Water Management Conference](#)
- [April 9 El Día del Agua y la Atmósfera - Save the Date](#)
- [April 24-26 IFC Flow 2018 - Registration Open](#)
- [April 30 WaterSmart Innovations Conference and Expo - Call for Abstracts](#)

[Visit Our Website](#)