

WEEKLY WAVE



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

February 23, 2018 / Volume 6, Issue 8

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

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WRRC Conference Sponsorships Offer New Benefits

On Wednesday, March 28, 2018, "The Business of Water" will be front and center at the University of Arizona Water Resources Research Center's Annual Conference. We will spend the day looking toward the future, addressing topics such as how to meet our water infrastructure needs, how can business further water-based environmental goals and what is water's impact on economic development? Each year, with generous help from our sponsors, we keep our registration rates low and offer reduced student registration rates. Please consider joining us as a WRRC Annual Conference sponsor. This year, we are offering several new sponsorship benefits including logo placement on our new giveaway "water ruler". At the mid-tier level, sponsors can now provide an insert for the conference folder in addition to on-going benefits such as having logos on conference materials and joining us as an exhibitor at the event.

[Sponsorship Form](#)

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WRRRC EVENTS

**EARLY BIRD
REGISTRATION RATE
ENDING IN ONE WEEK**



WRRRC CONFERENCE 2018
**THE BUSINESS
OF WATER**

**REGISTER
HERE**

Special Upcoming WRRRC Brown Bag

April 12, 2018

Time/Location: 4:00 p.m. - 5:15 p.m. / ENR2, S207
(1064 E. Lowell St., Tucson)

Note special time and location

Speaker: Felicia Marcus, Chair California State
Water Resources Control Board



Felicia Marcus was appointed by Governor Jerry Brown to the State Water Resources Control Board (Board) for the State of California in 2012, and designated by the Governor as Chair in April of 2013. The Board implements both federal and state laws regarding drinking water and water quality, and it implements the state's water rights laws. The Board sets statewide water quality, drinking water, and water rights policy, hears appeals of local regional board water quality decisions, decides water rights disputes, and provides financial assistance to communities to upgrade water infrastructure.

Video will be posted shortly after the presentation

[More About Felicia Marcus](#)

WRRRC Brown Bag - Sustainable Water Management Using Analytical Tools and Dynamic Reservoir Operations



March 2, 2018

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

Speakers:
Steven Nebiker , Vice President, HydroLogics

Tim Skarupa, Senior Analyst in Water Rights and Contracts group, SRP

HydroLogics uses water resources modeling tools to facilitate planning, operations, and conflict resolution from small-scale, single-reservoir systems all the way up to large multi-state river basins. The conjunctive management of surface and groundwater resources at SRP has historically created a very reliable and sustainable supply of water for SRP's shareholders and customers. Surface water stored in the reservoirs and the availability of groundwater to augment surface water is key to maintaining this reliable and consistent water supply vital to sustain life and the economic vitality of the Valley and the Phoenix metropolitan area. The management of these water sources has evolved over time to address uncertainty while meeting customer needs. This was done by looking at the past historical and paleo tree ring records and applying those findings to future uncertainty using the Reservoir Planning Model developed by HydroLogics for SRP.



If you can't make the seminar on March 2, you can join us [here](#).

WRRC Brown Bag - Hidden Water: The Fresh Water Pozos of the Gran Desierto

March 13, 2018

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

Speaker: Dr. Ben Wilder, Director, Desert Laboratory on Tumamoc Hill



The Gran Desierto region of the Sonoran Desert is the largest extent of sand dunes in North America. An array of freshwater springs, or pozos, punctuate the salt flats where the dunes meet the sea. Unresolved in origin, and essential to countless species, their waters rise up inextricably out of the dunes. This transdisciplinary collaboration between a botanist, hydrologist, and artist seeks to document the origin of the pozos water, determine how long it has resided below the dunes, and show how the pozo's and the riparian vegetation they support has changed through time. Likewise, the project, a part of the Next Generation Sonoran Desert Researchers 6&6 art-science collaboration (nextgensd6and6.com) will document this wide range of dependent themes as part of the 6&6 art show at the UA Museum of Art opening in January 2019. From the traditional salt pilgrimage of the Tohono O'odham people, to nesting raptors, generations of cottonwood trees, and the future of water in the binational Sonoran Desert desert, these springs are central to the larger story of how humanity interacts with water in the arid west.



If you can't make the seminar on March 13, you can join us [here](#).

Upcoming Brown Bag Seminars

- **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*
- **Apr. 25** - Melanie Stansbury, *Sr. Advisor and*



- Consultant, Utton Transboundary Resources Center, University of New Mexico*
- **Apr. 26** - Cindy Wallace, *Research Geographer, USGS Western Geographic Science Center*



OTHER EVENTS

AZ Water Luncheon - Permanent Canal Closures and Pump Project, New Orleans, Louisiana



March 1, 2018

Time/Location: 11:30 a.m. - 1:00 p.m. / Hotel Tucson City Center (475 N. Granada, Tucson)

Speaker: John Tate, Stantec Consulting Services

The City of New Orleans was devastated by Hurricane Katrina in 2005. In response, the U.S. Army Corps of Engineers embarked on the \$14.6 billion Hurricane and Storm Damage Risk Reduction system to repair the damage and improve resiliency for the city and surrounding communities. The project facilities form one of the largest drainage pumping systems in the world and can operate continuously and independently during major hurricane events.

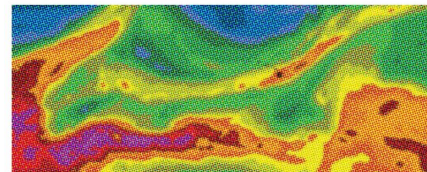
Sponsorships allow up to four students to attend this luncheon at no charge, but pre-registration is mandatory. Students interested in this opportunity are encouraged to contact [Carol Johnson](#).

[Register for Luncheon](#)

WRRC NEWS

WRRC Brown Bag Seminars Focus on Atmospheric Rivers and Binational Aquifers

On February 12, the WRRC hosted Marty Ralph, Director, Center for Western Weather and Water Extremes and Researcher at UC San Diego's Scripps Institution of Oceanography to discuss Atmospheric River Science. Rivers of water vapor in the sky, which is how Dr. Ralph describes atmospheric rivers, are key to understanding the character of storm fronts and precipitation in the western United States. Forming at relatively low altitudes, and holding unusually large water loads as they move eastward over the Pacific Ocean, atmospheric rivers can be linked to extreme rainfall, causing flooding and providing water supply, when they make landfall. Ralph described the methods for studying these systems and provided data showing the importance of atmospheric rivers, when evaluating storm patterns in the desert southwest.



[Read Entire Post](#)

ADWR Surveys Well Water Levels in NW Basins



From February 5 to approximately March 5, field personnel from the Arizona Department of Water Resources (ADWR) will be conducting a water level measurement survey in wells in Arizona's Northwestern Region Basins located in Mohave County. The last time ADWR made such an extensive effort to measure water levels in the region was in January-February 2006. Data from this water level survey will help develop a better understanding of hydrologic conditions in area aquifers. Participation and cooperation with ADWR on the basin survey is entirely voluntary, and property owners have found the data from past surveys valuable. The data will become available this summer from [ADWR's Ground Water Site Inventory \(GWSI\) database](#).

[Press Release](#)

Fourth Graders In Casa Grande "Flush" for Water Savings!



Casa Grande students, thanks to Abbott Foundation sponsorship, are taking action to save water at home! Pinal County's APW Program Coordinator visits all 30



fourth grade classes participating in the Casa Grande Water Festival to engage students in learning about water conservation. Students receive kits with educational materials and water savings tools, including toilet tablets to identify leaky toilet tanks, drip and rain gauges to measure water usage and waste, and flow bags to measure and estimate water and dollar savings. Every year, the fourth graders are most intrigued by the "Toilet Tank Bank". This low-tech sealed plastic water bag reduces toilet water usage in their homes by one-half gallon per flush! The race is on again in 2018, as each class competes to see who will save the most water and in the process learn more about water conservation and stewardship!

Last year, Casa Grande fourth graders saved over 130,000 gallons of water by flushing their toilets!

[Learn More About APW](#)

Lower Santa Cruz River Basin Study - Continues to Engage the Public

In 2015, the Bureau of Reclamation and several regional partners began a three-year technical assessment to identify where physical water resources are needed in order to mitigate supply-demand imbalances and to develop strategies to improve water reliability within the Lower Santa Cruz River Basin (LSCRB). Cost-share partners include Southern Arizona Water Users Association, Pima Association of Governments, Cortaro-Marana Irrigation District, Arizona Department of Water Resources, Central



Arizona Water Conservation District, and University of Arizona. From the beginning, this team worked to engage and inform the public, and their educational effort will continue on March 12, 2018 when they hold their second public meeting. At the meeting, the team will describe supply-and-demand scenarios, including where modeling has indicated that demand imbalances will occur, and the projected impacts of climate change on water resources. Help to guide this study and provide feedback at the 2nd LSCRB Public Meeting on March 12 at Pima Association of Governments' offices, 1 E. Broadway in downtown Tucson. The meeting time runs 4:00 p.m. - 5:00 p.m. with a meet and greet starting at 3:30 p.m.



[To Register](#)
[Learn More](#)

Poster Deadline Extended to March 2

The WRRC is extending its deadline for accepting abstracts for the poster session at its 2018 Annual Conference, "The Business of Water," to **Friday, March 2 at 5 p.m.** The poster session will be judged and the top three student posters will



receive cash prizes. Interested students, researchers, and practitioners are invited to submit poster abstracts on research related to the conference theme of "The Business of Water," or other research topics critical to water in Arizona. **Students are strongly encouraged to submit abstracts.** For any questions on submitting a poster, please email [Jacob Petersen-Perlman](#).

[Poster Information and Submission](#)

ANNOUNCEMENTS



ARIZONA WATER
MAP POSTER
AVAILABLE

[ORDER HERE >>](#)

- [February 26 WaterSmart Innovations Conference and Expo - Call for Abstracts](#)
- [February 26-27 NGWA Conference on Groundwater Issues and Science Affecting Policy and Management in the Southwest - Registration Open](#)
- [March 1-2 Two Nations One Water - US-Mexico Border Water Summit \(FREE\) - Registration Open](#)
- [March 1-2 Colorado River Law Conference](#)

- [March 3 SRP Water Conservation Expo](#)
- [March 9 33rd Annual WaterReuse - Call for Abstracts](#)
- [March 25-28 AWWA Sustainable Water Management Conference](#)
- [April 16 AHS Symposium - Call for Abstracts](#)
- [April 24-26 IFC Flow 2018 - Registration Open](#)
- [May 2-4 AZ Water 91st Annual Conference & Exhibition](#)
- [May 10 PNW WaterReuse Conference - Advance Registration Ends](#)

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