

WEEKLY WAVE



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

February 2, 2018 / Volume 6, Issue 5
The [Water Resources Research Center](#) - a research and [Extension](#) unit of the [College of Agriculture and Life Sciences](#)

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APW Teaches More Than 1000 at UA's Largest STEM Event Ever in Phoenix

The fourth annual Connect2STEM event at the University of Arizona's Phoenix Biomedical Campus was held this past Saturday. This year, the event increased its attendance by more than 1,000 people, drawing over 7,500 parents and children from around the valley to explore the wonders of STEM. Arizona Project WET is honored to have been a part of this incredible STEM event since the inception.

Read full article [here](#)

WRRRC EVENTS



WRRRC CONFERENCE 2018
THE BUSINESS OF WATER

WRRC Brown Bag - The Inter Tribal Council of Arizona: Addressing Water and Natural Resource Issues in Arizona

February 6, 2018

Time/Location: 4:00 p.m. - 5:15 p.m. / Sabino Room, UA Student Union Memorial Center (1303 E. University Blvd.)

Speaker: Maria Dadgar, Executive Director, Inter Tribal Council of Arizona



Arizona tribes take a strong interest in environmental quality and water policy. Maria Dadgar, Executive Director of the Inter Tribal Council of Arizona (ITCA), will begin her presentation with an overview of the ITCA, which was established in 1952 and provides a united voice for tribal governments located in the State of Arizona. In an effort to build the capacity of tribal environmental programs, protect the environment, and safeguard human health, the ITCA leads numerous projects and provides technical expertise and guidance. Ms. Dadgar will describe these programs and will also discuss the ITCA Tribal Leaders Water Policy Council, which broadens tribal leader participation in water policy and builds collaboration with federal, state and regional water resource managers. As a tribal resource and statewide facilitator, the ITCA conducts seminars, workshops, conferences, and public hearings to facilitate the participation of tribal leaders in the formulation of public policy at all levels.



If you can't make it to the seminar on February 6, join us [here](#) .

WRRC Brown Bag - Recent Developments in Atmospheric River Science, Predictions and Applications

February 12, 2018

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

Speaker: Martin Ralph, Ph.D., Director, Center for Western Weather and Water Extremes and Researcher at UC San Diego's Scripps Institution of Oceanography



Key developments have occurred recently on atmospheric rivers (AR). These include advances in observations, physical process understanding, predictions, applications and policies. This presentation will highlight a few of these developments.

- What are atmospheric rivers and why are they important to the Western U.S.?
- Examples of AR with significant impacts in the Western U.S.
- AR landfall prediction that could be useful in reservoir operations.

- Atmospheric River Reconnaissance ("AR Recon"): a new airborne targeting approach (including use of aircraft normally dedicated to observation of hurricane activity).
- A critical mass of research and experimental forecast capability, with an emphasis on AR science, predictions and applications, exists at the Center for Western Weather and Water Extremes.



If you can't make it to the seminar on February 12, join us [here](#).

14th Annual WRRC Chocolate Fest

February 16, 2018

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

Don't miss the 14th Annual WRRC Chocolate Fest! Share your favorite treats and try sinfully spectacular creations from your water friends and colleagues. Also, help us applaud the WRRC'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](#)

WRRC Brown Bag - Binational Studies of the Transboundary San Pedro and Santa Cruz Aquifers: Results and Future Directions

February 21, 2018

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

Speakers: **Jacob Petersen-Perlman**, Research Analyst, University of Arizona Water Resources Research Center
James Callegary, Hydrologist, USGS Arizona Water Sciences Center
Elia Tapia, Graduate Research Assistant, University of Arizona Water Resources Research Center



The Santa Cruz and San Pedro aquifers are important sources of water for the Arizona-Sonora border region. Even though groundwater from these aquifers is an essential resource for social, economic, and environmental needs in both countries, assessments of these aquifers have not been conducted by a binational team until recently. At the Brown Bag, researchers will share information from the binational studies of the Transboundary San Pedro and Santa Cruz aquifers. The studies were conducted by the USGS and WRRC in partnership with the University of Sonora and others. The presentation will also discuss future directions for studying these aquifers.



If you can't make it to the seminar on February 21, join us [here](#).

Upcoming Brown Bag Seminars

- **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*



WRRC NEWS

WRRC 2018 Annual Conference Poster Session - Call for Abstracts

The WRRC is now accepting abstracts for the poster session at its 2018 Annual Conference, "The Business of Water." The deadline for submitting an abstract is Friday, Feb. 23 at 5 pm. 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. The poster session will be judged and the top three student posters will receive prizes. **Students are strongly encouraged to submit abstracts.**



For any questions on submitting a poster, please email [Jacob Petersen-Perlman](mailto:jacob.petersen-perlman@arizona.edu).

[Submit an Abstract](#)

New AZGS Report Defines 'Navigability' for Gila, Salt, and Verde Rivers

Through its Arizona Geology e-MAGAZINE, the Arizona Geological Survey is making available a 135-page report by Jon Fuller, "Defining Ordinary and Natural Conditions for State Navigability Determinations". At statehood, each state received title to the beds of its navigable rivers, but it was up to the state to make a legal case for its designation of which rivers were navigable. By federal law, the navigability of a river must be determined based on its 'ordinary and natural' condition. In this report (AZGS Contributed Report (CR-18-B)), Jon Fuller tackles the definition of 'ordinary and natural' conditions by looking at a number of contributing factors, such as a river's flow rate and its boating conditions. Five rivers, including three in Arizona (Gila, Salt, and Verde) serve as case studies illustrating Fuller's recommended approach. His many illustrations, including diagrams and photographs, supplement and enliven



Figure 18. Aerial photograph of Colorado's Grand Canyon, with the river cutting through it. The inset shows a close-up of the riverbank, illustrating the 'ordinary and natural' condition of the river. (Source: Arizona Geological Survey, 2018)

the text.

[Read Report](#)

TRIF-WEES Working to Advance UA Research

The Water, Environmental, and Energy Solutions (WEES) Initiative continues its efforts to connect University of Arizona (UA) faculty and researchers and to help them to develop competitive funding proposals. WEES works to invest voter-approved Technology Research Initiative Funds (TRIF) in ways that not only promote university research, but also positively affect Arizona and contribute to its workforce. Last Fall, WEES held a networking event where researchers gathered to discuss the growing importance of multi-disciplinary partnering and to learn about how UA centers are fostering collaboration. On February 19th, WEES will continue this work by holding its second annual Research Concept Meeting, a unique opportunity for UA faculty to present their nascent research ideas to a panel of veteran researchers for feedback and ideas. This is particularly useful for those planning to apply for Research Advancement Grants, the internal TRIF-supported funding mechanism available to UA faculty and researchers this spring. Although space is limited, there are still a few openings. Interested faculty and researchers should contact Claire Zucker at clzucker@email.arizona.edu or 621-5725.



[Research Concept Meeting](#) [Research Advancement Grant](#)

Tucson C2E is Expanding

Tucson Conserve2Enhance has invested tens of thousands of dollars in local enhancement projects, and participants continue to monitor and increase their conservation efforts to save water and money. Currently the C2E program spans much of the Pima County Wastewater Service area and all of the Tucson Water Service area. They are working with nearby towns to expand to additional water providers and welcome them to the Tucson metro-area effort. This voluntary, donation-based program is a means to fund environmental enhancement projects in your water department service area. When a water provider signs up with Tucson C2E, customers are allowed to apply for community grants. C2E offers water use databases, grant reviews, restoration site implementation, and participant newsletters. By encouraging participation in your water utility's conservation programs, C2E helps us all achieve a sustainable supply of water.



[Informational Flyer](#) [Learn More about C2E](#)

ANNOUNCEMENTS



**MAP POSTER
AVAILABLE**

ORDER HERE >>

- [February 9 RFCD Brown Bag - Engaging Citizen Scientists along the Santa Cruz](#)
- [February 14 U.S. Borlaug Summer Institute on Global Food Security - Applications Due](#)
- [February 16 Arid Lands Symposium: Integrating Research into Action- Call for Abstracts](#)
- [February 18 BSMAR16 - Registration Closes](#)
- [February 22-23 Land and Water Summit - Agenda and Registration](#)
- [February 23 CONSERVE Summer Intern Program - Application Deadline](#)
- [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](#)
- [February 28 AWRA Conference on Transboundary Groundwater - Call for Abstracts](#)
- [March 1-2 Two Nations One Water - US-Mexico Border Water Summit \(FREE\) - Registration Open](#)
- [March 1-2 Law of the Colorado River](#)
- [March 3 SRP Water Conservation Expo](#)
- [March 8 33rd Annual WaterReuse - Call for Abstracts](#)
- [March 25-28 AWWA Sustainable Water Management Conference](#)
- [April 24-26 IFC Flow 2018 - Registration Open](#)

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