

WEEKLY WAVE



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

February 21, 2020 / Volume 8, Issue 7

The Water Resource Research Center - a research unit of the [College of Agriculture and Life Sciences](#) and an Extension unit in [UA Cooperative Extension](#) within the Division of Agriculture, Life & Veterinary Sciences & Cooperative Extension

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WRRC Makes Connections at D.C. Meetings

The UArizona WRRC is one of 54 Water Resources Research Institutes and Centers in the U.S., with one located in each State, as well as in the District of Columbia and in three U.S. Territories. Established under the Water Resources Research Act (WRRA) and administered by the U.S. Geological Survey, these institutes promote knowledge and technology transfer and facilitate research that helps to train students and address state and regional water problems. Earlier this month, Associate Director Claire Zucker traveled to Washington, DC for the 2020 meeting of the National Institutes for Water Resources (NIWR). At this annual meeting, institute directors build relationships, learn from each other's program efforts, and share information about regional and national water issues. While in Washington, Ms. Zucker met with congressional staff members to

discuss WRRC accomplishments and programs, and to highlight the need for continued federal support for Water Resources Research Institutes. NIWR plays a major role in addressing the unique water-related concerns of the individual states and the nation by providing a national platform for collaboration.

Information on the WRRR Program [here](#)

WRRC EVENTS

Final Webinar in Our "Get Ready" Series

March 3 , 2020

A series of presentations in collaboration with the Central Arizona Project on a range of topics linked to the management of the Colorado River system.

- Patrick Dent, Director of Water Policy, CAP
- Austin Carey, Planning Analyst, Resource Planning and Analysis, CAP
- Angie Lohse, Senior Policy Analyst, CAP
- Chris Brooks, Senior Water Resources Analyst, CAGR
- Orestes Morfin, Planning Analyst, Colorado River Programs Department, CAP
- Mohammed Mahmoud, Senior Policy Analyst, Colorado River Programs Department, CAP



[Webinar registration](#)

Know About Your Water Green Valley - Sahuarita

February 25, 2020

Time/Location: 10:30 a.m. - noon, Desert Hills Center, 2980 S. Camino del Sol, Green Valley, AZ

This encore presentation, sponsored by the Green Valley Council Environment Committee, will touch on everything you want to know about water resources in the Green Valley-Sahuarita area. The culmination of a project funded by the Freeport McMoRan Community Investment Program, this interactive presentation offers neutral, independent information on water supplies, uses, and quality, as well as community and individual actions to conserve and augment water resources in the region.

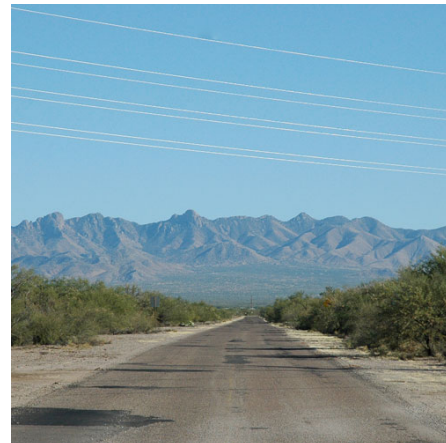


Photo: Wikimedia Commons

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Upcoming Brown Bag Seminars

- **April 1** - Kathy Jacobs and Amy McCoy, Colorado River Conversations
- **April 8** - Kacey Ernst, Mosquito-borne Disease and



- Climate Storage Change
- **April 16** - Student Research Presentations
- **April 29** - Marie Pearthree, Mike McGuire, Book: Tucson Water Turnaround: Crisis to Success



WRRRC NEWS

WRRRC Hosts Another Informative Webinar

The WRRRC held its second webinar in the "Get Ready" series on Tuesday, February 18. This webinar featured presentations from committees of the Governor's Water Augmentation, Innovation, and Conservation Council (GWAICC). Panelists included Philip Richards, Chair of the Desalination Committee, Wade Noble, Chair of the Long-term Water Augmentation Committee, and Timothy Thomure, Co-chair of the Post-2025 AMAs Committee.



Read a summary of the [webinar](#)
See [video](#) and [PowerPoint presentations](#)

WRRRC Research Scientist Travels to India for Panel Review

On February 13 and 14, WRRRC Research Scientist Jean McLain participated in a panel to review antibiotic resistance proposals submitted to the UK Research and Innovation National Environment Research Council (UKRI NERC). The UKRI NERC is a British Research Council that supports research, training, and knowledge transfer activities in the environmental sciences. The panel reviewed 39 research proposals, all representing collaborations between UK- and India-based scientists, focused on assessing the environmental impact of antibiotic manufacture in India. India is a leading country for worldwide antibiotic manufacture; subsequent pollution of the environment with residual chemicals has led to extensive environmental antibiotic resistance. Dr. McLain, who has been studying environmental antibiotic resistance for nearly 15 years, was the only U.S. scientist invited to participate in the panel.



[NERC](#)

Capturing Learners Natural Curiosity

Change takes courage. Leaders from Creighton School District took the plunge into learning through inquiry and exploration with two APW facilitators. They spent their entire day putting themselves in their students'



shoes, feeling what it was like to learn science from scratch. They creatively engineered a physical model and had fun learning that failure is a part of the process! When taken outdoors to conduct field science

investigations, they learned their discoveries ultimately led to more questions. Throughout the day, they experienced learning that was at times exhilarating and at others infuriating.

As leaders they need to know how their students and teachers feel when confronted with such challenges. With so many limits and structures in place in our current school system, how do we sustain curiosity and provide a scientific foundation for thinking, as the Arizona Science Standards ask us to do? Creighton administrators are trying to answer that question by embracing change, becoming curious learners, unashamed of not knowing, and by developing and using thinking skills that will help them figure things out, now and in the future.



APW

Chocolate Fest Honors Photo Contest Winners and the Santa Cruz River

This year's Chocolate Fest did not disappoint - an extravaganza of tasty chocolate treats, including a chocolate river, combined with delightful water conversations to renew or make new connections with others in the water world. We were very pleased to have two WRRC photo contest winners in attendance. Jerry Webster described how he captured the winning "nature category" photograph; a captivating picture of a bobcat swimming in the Santa Cruz River. Torran Anderson described how he caught the moment when Chris Yazzie was collecting a water sample on the Navajo Nation, which won in the "people category." The informal program also included brief remarks about the impact of the flowing Santa Cruz River on our community and profession by Ecologist Claire Zugmeyer from the Sonoran Institute and Water Conservation Manager Candice Rupprecht and Hydrologist Maya Teyechea from Tucson Water. Several others shared their thoughts and reflected on the progress we have made to re-build an ecologically healthy and vibrant Santa Cruz River in Tucson.



2019 Photo Contest Winners

Runoff from the Upper Colorado Basin Affected by 2019 Summer

As of February 1st, the Colorado Basin River Forecast Center was predicting inflows (April - July) into Lake Powell at 80% of average. Low soil moisture conditions in the Rocky Mountains, however, may reduce flows. Last year's warm, dry summer had a lasting impact on soil moisture that bears watching, or so says an analyst for the Colorado River Commission of Nevada as reported by the Las Vegas Review-Journal. A lot depends on temperature and precipitation in the next few months. It's been a good winter for snow in the Upper Colorado River Basin; on February 18th snowpack was above the average for that date. Regional long-term weather forecasts also give reason to hope, predicting slightly above average precipitation and temperatures hovering at or below average.



Photo USGS

ANNOUNCEMENTS

- [Government Accounting Office Report - International Boundary and Water Commission-Opportunities Exist to Address Water Quality Problems](#)
- [February 21-22: Upper Gila Watershed - 3rd Annual Forum](#)
- [February 24: Job - Water Resources Manager, Arizona Department of Water Resources - 1st Application Review](#)
- [February 24-March 30: \(Various Dates\): ADWR 5th Management Plans Working Groups](#)
- [February 25: ADEQ Public Meeting - Waters of Arizona](#)
- [February 26-28: L&WS Climate Ready Water Management Summit - Registration Open](#)
- [March 2: BSMAR 17 - Resilience Through Recharge and Recovery - Early Bird Registration Ends](#)
- [March 3-4: CAP Board - Strategic Planning Stakeholder Forums - Registration](#)
- [March 12-13: Annual Law of the Colorado River Conference - Registration Open](#)
- [March 16: Journal for Contemporary Water Research and Education - Call to Authors Extended](#)
- [March 23-26: AWRA 2020 Spring Conference - Registration Open](#)
- [March 31: Santa Cruz Watershed Collaborative Spring Forum](#)
- [April 1: Babbitt Center for Land Water Policy - Dissertation Fellowship Program - Applications Due](#)
- [April 20: UCOWR/NIWR - 2020 Annual Conference - Early Bird Registration Ends](#)
- [May 11-12: Ben-Gurion University of the Negev International Water Summit - Registration Open](#)
- [June 14-17: ACE20 - Registration Open](#)

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