



COLLEGE OF AGRICULTURE & LIFE SCIENCES  
COOPERATIVE EXTENSION

**WATER RESOURCES  
RESEARCH CENTER**

**August 10, 2018 / Volume 6, Issue 7**

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

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## August 28 WRRC Brown Bag to Feature Update on Restoring the Santa Cruz River Flow in Tucson

In 2016, the City of Tucson initiated a discussion about using reclaimed water to restore perennial flow to a portion of the Santa Cruz River near downtown Tucson. This action would support riparian habitat in the urban core, improve long-term water management in the region, and stimulate economic activity. The concept has been well received by a multitude of stakeholders and Tucson Water has started to bring the vision to reality. In May 2019, perennial flow will return to the Santa Cruz River near Tucson's birthplace, and a new era of water management will begin. On August 28, Tucson Water Director Tim Thomure will provide an update on the project, discuss the challenges that lie ahead, and advise attendees about what they can do to support the Santa Cruz River Heritage Project. This presentation will be held from 12:00 noon to 1:15 pm in the WRRC Sol Resnick Conference Room at 350 N. Campbell Avenue, and will also be live streamed via GoTo Webinar.

[More Information](#)

# SAVE

# FEB. 1, 2019

## WRRC EVENTS

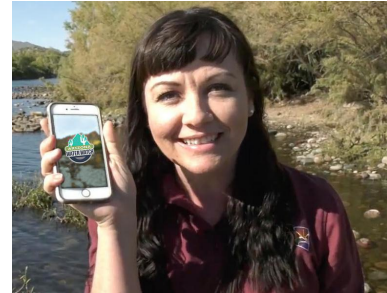
### WRRC Brown Bag - The Art of Building a Citizen Science Program

**September 4, 2018**

**Speaker:** Meghan Smart, *Environmental Scientist III*, ADEQ/Citizen Science

**Time/Location:**

12:00 p.m. - 1:15 p.m./Sol Resnick Conference Rm., 350 N. Campbell Ave., Tucson



Arizona Water Watch (AWW), a new citizen science program offered through the Arizona Department of Environmental Quality, is designed to train volunteers to collect credible scientific data on streams and lakes in Arizona. The program uses innovative ideas like visually friendly forms, hand-stitched cloth streams for teaching, micro video lessons, and crowd-sourcing data techniques to reach many levels of volunteers.

This presentation will discuss the fundamentals of building a citizen science-based program, discuss lessons learned, and highlight some of the amazing work Arizona's citizen scientists are doing to aid in the protection of our waterbodies.



If you cannot make the presentation on September 4, you can join us [here](#).

### Upcoming Fall Brown Bags

- **September 18** Courtney Crosson, *Assistant Professor, UA CAPLA*, Innovating the Urban Water System
- **September 27** Susanna Eden, *Assistant Director, UA WRRC*, Irrigated Agriculture in Arizona
- **November 8** Chase Saraiva, *Head Brewer, Wilderness Brewing Co.*, Sustainability and Beer

## OTHER EVENTS

### Water Roots - River Walk: A Sunset Tour to Illustrate a New Vision for the Rillito

**August 28, 2018**



**Speakers:**

Catlow Shipek, Watershed Management Group  
Trevor Hare, Watershed Management Group  
Dennis Caldwell, Caldwell Design

**Time/Location:**

5:30 p.m./St. Phillip's Plaza, 4280 N. Campbell Ave., Tucson, AZ

Join us for a special sunset walking tour along the Rillito Loop path that will highlight river restoration opportunities and actions and the local flora and fauna, including Mexican free-tailed bat viewing from the North Campbell Street Bridge. Don't forget your walking shoes - we will begin at St Phillip's Plaza for a 1-mile loop on the Rillito River Park Trail.

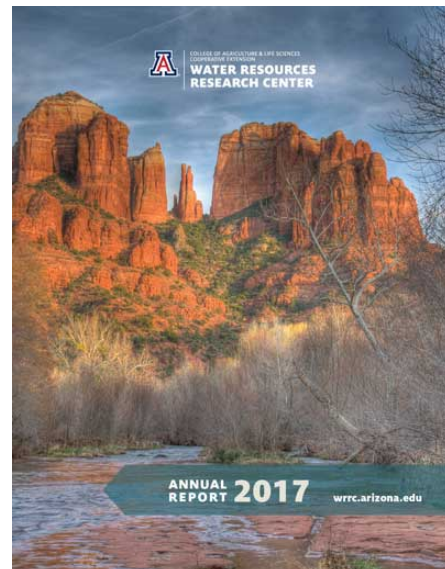
[Event Info Here](#)

## WRRC NEWS

### 2017 WRRC Annual Report Released

The University of Arizona Water Resources Research Center is pleased to announce the release of our 2017 Annual Report. The Report describes activities of WRRC programs and personnel during the 2017 calendar year. As the Annual Report shows, 2017 was a busy year for the WRRC. Check out what we have been doing and follow the links to our website for appendices with more detailed information.

[Annual Report](#)



### SWES Professor Monica Ramirez-Andreotta's Citizen Science Project Featured in Washington Post

On July 29th, the work of Dr. Monica Ramirez-Andreotta and Project Harvest was featured in an article in the Washington Post. With a \$2.3 million grant from the National Science Foundation, Dr. Ramirez-Andreotta created Project Harvest, a five-year citizen science program in partnership with the nonprofit Sonora Environmental Research Institute Inc. She and her University of Arizona team, including WRRC Research Scientist Dr. Jean McLain, guide citizen scientists in urban and rural Arizona towns in testing for neighboring sources of industrial waste pollutants in rainwater runoff from roofs, soil, and plants. "Citizen science" refers to the collection and analysis of data relating to the natural world by members of the general public, typically as part of a collaborative project with professional scientists. Large volunteer networks often allow scientists to accomplish tasks that would be too expensive or time-consuming to accomplish through other means, and serve to enhance volunteers' knowledge about their environment and the use of scientific methods.



## [Read Washington Post Story](#)

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### STEM-tastic Water Solutions Academy



In partnership with Salt River Project, APW delivered a non-stop exciting and in-depth five-day Teacher's Academy, where twenty educators, ranging from grades 3 to 8, learned multiple STEM

education strategies.

Each day of the Water Solutions: Past, Present, and Future 2018 STEM Academy brimmed with activities aimed at understanding the SRP water delivery system, from a historical perspective with a presentation by SRP historians Ileen Snoddy and Leah Harrison to completing an engineering design challenge.



During the week, teachers participated in multiple Project WET lessons and were also treated to special SRP field trips to the SRP Control Center including the new Heritage Center; the SRP Lab; and Arizona Falls, where they saw water generating electricity!

Teacher's capped off their week of work by producing a short Adobe Spark Video to share. Check out this award-winning video by 4th grade Casa Grande educator Carrie Panka

## [Watch Video](#)

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### Green Infrastructure Triple Bottom Line Analysis Completed for City of Phoenix



The City of Phoenix, with The Nature Conservancy as a contributing partner, has released a report entitled "Triple Bottom Line Cost Benefit Analysis of Green Infrastructure/Low Impact Development (GI/LID) in Phoenix, AZ." The City of Phoenix identified key factors that needed to be understood in order to properly value co-benefits of GI/LID installations. These include financial costs and benefits, carbon emissions and air pollution, heat island impacts, water quality improvement, flood risk reduction, and property value uplift. Stantec, Autocase, and Watershed Management Group conducted the analysis, which includes evaluation of three case study sites: Primera Iglesia in Phoenix, Glendale Community Center in Glendale, and a combined project encompassing Central Station, Civic Space Park, and Taylor Mall in Phoenix. The study provides information for City and private projects that may want to incorporate GI/LID features such as swales, bioretention basins, infiltration trenches, pervious pavers, porous concrete, and porous asphalt.

## [Read Report](#)

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### Remembering Bob McCain



July 2018 saw the passing of an Arizona water management champion. Credited with coining the term "water buffalo" to indicate a water policy wonk, John R. (Bob) McCain was himself the embodiment of the term. From the time he received his Master's degree from the University of Arizona in 1978 to his retirement in 2006, his passion was the crafting of water law and policy.

From his position on the staff of the Arizona Groundwater Management Study Commission, he had a hand in shaping the 1980 Groundwater Management Act, and as a policy analyst and legislative lobbyist for Arizona Municipal Water Users Association, he

influenced the development of the Arizona Environmental Quality Act, the Underground Water Storage Act, and the Arizona Water Banking Authority, among other legislative innovations.



Read AMWUA's Blog Post [here](#) .

## ANNOUNCEMENTS

- [IMR Natural Resources Division Seeks Hydrologist \(GS-11/12\)](#)
- [August 14 AHS Special Fundraising Event In Tucson - Registration Open](#)
- [August 16 The New Arizona Prize Water Public Art Challenge - Registration Ends](#)
- [August 22 AMWUA and WSI Offer First-Timer Scholarship to the WaterSmart Innovations Conference and Expo - Applications Due](#)
- [August 22-23 Draft Resource Management Plan for San Pedro Riparian National Conservation Area \(SPRNCA\)- Public Meetings](#)
- [August 24 CAZMEX Consortium for Arizona-Mexico Arid Environments - Call for Proposals](#)
- [August 24 WaterReuse Symposium - Registrations Closes](#)
- [September 1 Groundwater Summit Student Poster - Abstracts Due](#)
- [September 7 AZ Water Protection Fund Fiscal Year 2019 Grant Cycle - Applications Due](#)
- [September 10-13 GWPC Annual Forum - New Orleans, LA](#)
- [September 11-12 NIDIS The Burning Desert - A Workshop on Drought Recovery](#)
- [September 12 BARD Research Grant Proposals - Applications Due](#)
- [September 21 UCOWR/NIWR Annual Water Resources Conference - Call for Sessions](#)
- [September 26 Innovations at the Nexus of Food, Energy, and Water Systems \(INFEWS\) - NIFA Grant Applications Due](#)

- [December 6 Mine Water Management Symposium Scholarship - Applications Due](#)

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