



COLLEGE OF AGRICULTURE & LIFE SCIENCES  
COOPERATIVE EXTENSION

**WATER RESOURCES  
RESEARCH CENTER**

**November 2, 2018 / Volume 6, Issue 30**

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

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## Getting WET With ADEQ

"Super excited" was the expression used by ADEQ's water quality monitoring guru, Meghan Smart, to describe the new partnership with Arizona Project WET (APW) to begin monitoring select rivers during school field investigations. Smart, who recently delivered a brown bag presentation for the WRRC, was pleasantly surprised by APW's quick response and interest in the [Arizona Water Watch](#) (AWW) citizen science program.

[Read more here](#)

## WRRC EVENTS

**WRRC Brown Bag - How Beer Can**



## Save Rivers

**November 8, 2018**

**Speaker:** Chase Saraiva, *Head Brewer*, Arizona Wilderness Brewing Company

**Time/Location:**

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



Water, such a vital component to our lives and the environment around us, is also the main ingredient in beer. As we dive into what it takes to make beer and the role water has in this fermented beverage, we will also investigate some creative ways we are able to conserve water inside the brewery and out. From involvement with local farmers, a maltster, and a charitable environmental organization, to working with recycled wastewater, all it takes is an idea, a conversation, and little creativity to make an impact.



If you cannot get to the WRRC on November 8, you can join us [here](#).

## WRRC Brown Bag - Agrivoltaics: Co-locating Agriculture and Photovoltaics to Increase Food and Energy Production While Decreasing Water Use

**November 14, 2018**

**Speaker:** Greg Barron-Gafford, *Associate Professor and Associate Director*, School of Geography and Development

**Time/Location:**

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



Food, energy, and water systems, especially in drylands, are vulnerable to projected changes in climate - primarily changes in the timing and amount of precipitation and rising air temperatures. For the most part, we grow non-dryland adapted food within a dryland climate through a reliance on irrigation, and the water resource requirements are large and increasing. At the same time, renewable energy in drylands is vulnerable to the same warming trends that threaten food systems. The abundance of sunlight in the southwest US constitutes a significant solar energy resource. We have been studying the novel solution of co-locating agriculture and photovoltaics - agrivoltaics - as an untapped opportunity to simultaneously increase food and energy production while reducing water use.



If you cannot get to the WRRC on November 14, you can join us [here](#).

## WRRC NEWS

**WRRC Conference to Focus on Water Challenges and Solutions**



Communities across Arizona are working to identify and implement solutions to water scarcity issues, both current and future. The Water Resources Research Center's annual conference, *Arizona Runs on Water: Scarcity, Challenges, and Community-based Solutions*, will feature community panels and lunchtime lightning talks to bring many voices and perspectives to the conversation. Community Panels will include 12 presentations, each focusing on a different geographic area, including Cochise, Graham, Yuma, Mohave, and Yavapai counties, as well as the Gila River Indian Community, the Colorado River Indian Tribes, the Town of Payson, and the City of Flagstaff.

In order to pull in more case studies, the conference will include a novel participation element. We are soliciting examples of water challenges and solutions, and asking people to submit them online [here](#). We will include all your responses in a compendium of case studies as a follow-up to the conference. Several of the submitters will present lightning talks during the conference's lunchtime session.

The conference will be held at the Black Canyon Conference Center, located at 9440 N. 25th Ave., in Phoenix, Arizona.



**Register at the Early Bird Rate!**

## Israel and Arizona: Shared Water Challenges and Opportunities

Though they are thousands of miles apart, Israel and Arizona have a lot in common when it comes to water. Both areas regularly face drought conditions, both areas face new demands brought forth by growing economies and populations, and both share borders with other nations and regional water users. The 2018 Jewish National Fund (JNF) National Conference, held on October 25-28 in Phoenix, featured a plenary session entitled "Israel Water Challenges and Opportunities." WRRRC Director Sharon B. Megdal was a featured panelist in that session, discussing global interest in Israel's water management experiences and successes. The plenary also featured Bob Lembke of Colorado and Noa Zer and Clive Lipchin of Israel's Arava region. Megdal also noted the JNF is spearheading a joint effort between the University of Arizona and Israel's Arava Valley to find solutions for developing countries in the areas of food, water, and energy security.



Photo Sharon B. Megdal discusses water with moderator Ben Perlman

## BTM at the Scottsdale Canal Confluence

A special screening of *Beyond the Mirage: the Future of Water in the West* (BTM) will be held at the Scottsdale Museum of Contemporary Art at 2:00 pm on November



11, followed by Q&A with the filmmaker. The prize-winning documentary and interactive web experience was developed through a collaboration among the WRRC, the UA College of Agriculture and Life Sciences, and Arizona Public Media. BTM will be on view at Scottsdale's Canal Convergence event, November 9 - 11. As the winner of the Arizona Community Foundation's (ACF) first New Arizona Prize - Water Challenge, BTM will share space in the ACF tent with the winners of this year's Challenge. We will be guiding people through the web experience that allows users to make their own mini-documentaries from a collection of 250 video clips. Look for the ACF tent at the cross-streets of Via Soleri and Goldwater in the heart of Canal Convergence activities, and on Sunday, catch the film screening nearby at SMOCA.

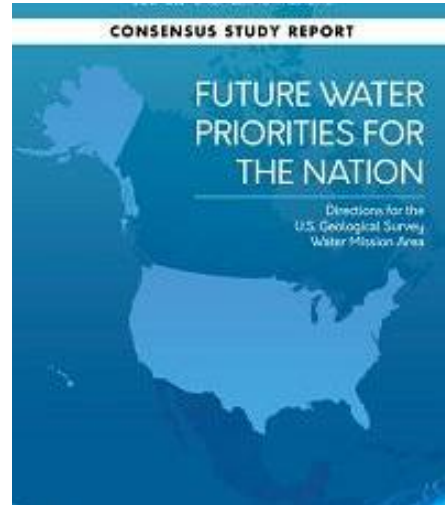


### [Visit Beyond the Mirage](#)

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## National Academy Releases Water Priority Report for the U.S. Geological Survey

The National Academy of Sciences, Engineering, and Medicine, enlisted by the Water Mission Area (WMA) of the U.S. Geological Survey (USGS), recently released a consensus study report identifying, and providing recommendations for, the nation's highest priority water science and resource challenges over the next 25 years. The WMA has long been relied upon by the government, the private sector, and the public to deliver high-quality, unbiased scientific information related to the nation's water resources. The Committee on Future Water Resource Needs for the Nation: Water Science and Research at the U.S. Geological Survey developed the consensus report by identifying five overarching questions that would have the highest potential benefit to USGS strategic science. The committee report also presents recommendations to provide a framework to help guide the evolution of the WMA in the next 25 years. These include specific recommendations involving data collection, citizen science, collaboration, web-based tool development, water accounting and monitoring, risk assessment, and building a workforce.



Slides from a webinar presentation summarizing the report can be found [here](#).

The full report can be purchased and a "Report in Brief" can be downloaded [here](#).

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## WRRC Photo Contest Submission Deadline Nears

The photo contest deadline of Dec. 7 is a little more than a month away. We've had many wonderful submissions and would love to have even more. Check out our website for the submission form, contest rules, and photos from previous contests. We look forward to seeing your photographic creativity!



[Submission Info Here](#)

## ANNOUNCEMENTS

- [November 5-7 NOAH Training Course Artificial Intelligence & Optimization for Improved Water Management](#)
- [November 7 Water Public Art Challenge - Finalist Showcase and Awards Ceremony](#)
- [November 10 Arizona Riparian Council Field Trip to the Santa Cruz Flats - Registration Required](#)
- [November 16 AWRA Spring Specialty Conference Call For Abstracts - Application Deadline](#)
- [November 20 Riparian Restoration and Tamarisk Beetle Workshop - Registration Ends](#)
- [December 6 Mine Water Management Symposium Scholarship - Applications Due](#)
- [December 10 Arizona Agribusiness Roundtable - Save the Date](#)
- [December 11 Business H2O Water Innovation Summit - Registration Open](#)
- [December 11 16th Annual P3 Awards: A National Student Design Competition Focusing on People, Prosperity and the Planet - Request for Applications](#)
- [December 15 JCWRE Open Issue Call for Papers - August Issue Deadline](#)
- [January 2 AZ Water Research Symposium Student and Young Professional - Call for Abstracts](#)
- [March 26-28 Ten Across Water Summit 2019 - Save the Date](#)

Visit Our Website