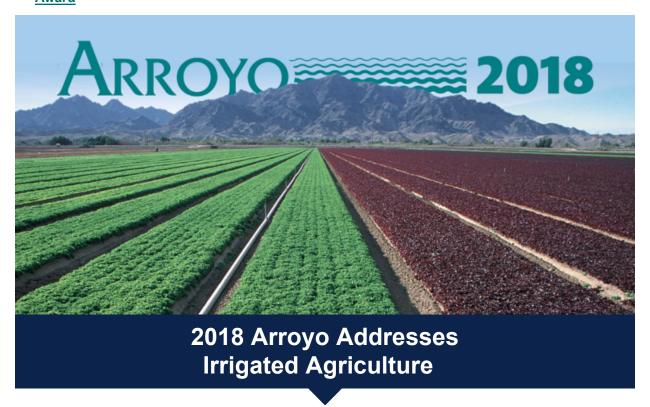




May 18, 2018 / Volume 6, Issue 1

The <u>Water Resources Research Center</u> - a research and <u>Extension</u> unit of the <u>College of Agriculture and Life</u> <u>Sciences</u>

In this issue: Emerging Voices / Irrigation / STEM Teaching / IMPACT Article / AZ Water Award



The WRRC is pleased to announce the publication of our 2018 Arroyo, "Water and Irrigated Agriculture in Arizona." This Arroyo contains a brief, yet comprehensive history of Arizona's irrigated agriculture, from early indigenous practices to the present, and describes our state's nationally-renowned centers of irrigated agriculture. There are discussions of issues relating to water use by irrigated agriculture, the legal and regulatory context, water challenges, and water efficiency and conservation. It concludes with a look toward future opportunities. Written by the 2017 WRRC Summer Writing Intern, Tim Lahmers, and WRRC Assistant Director, Susanna Eden, this publication is an accessible introduction to the subject and should serve as a handy reference.

Read the Arroyo

Subscribe to WRRC Publications

WRRC EVENTS

WRRC Brown Bag - Policy Principles for the Red-Dead Conduit and Regional Solutions

May 21, 2018

Time/Location: 3:30 p.m. - 4:45 p.m. / WRRC Sol Resnick Conference Room (350 N. Campbell Ave.)

Please note special time.

Speaker: Uri Shani, Former Director, Israel Water Authority

Professor Uri Shani will address how active agreements between neighboring jurisdictions can lead to water solutions rather than conflicts. Like the Southwestern United States, Israel, Jordan, and the Palestinian West Bank Territory are experiencing increased water demands due to population growth and decreased supplies due to several factors, including changing climate. Professor Shani will emphasize that regional solutions should optimize the use of existing water resources in the region and promote efficient water use.



If you can't make it to the WRRC on May 21, you can join us here.

OTHER EVENTS

UCOWR Webinar - Emerging Voices of Tribal Perspectives in Water Resources Webinar (FREE)

May 23, 2018

Time/Location: 9:00 a.m. - 10:00 a.m. (MST)

Speaker: Karletta Chief, Assistant Professor and Extension Specialist, University of Arizona

The Emerging Voices of Tribal Perspectives webinar is the second of two webinars that highlight papers on tribal waters from the April Journal of Contemporary Water Research & Education. Karletta Chief of the University of Arizona is the issue editor. Dr. Chief is facilitating each webinar and providing an introduction. Webinar #2 features two papers on tribes and water quality and quantity. First, Otakuye



Photo credit Raina Ramirez Navajo

Conroy-Ben will discuss her paper "Disparities in Water Quality in Indian Country." Crystal Tulley-Cordova will follow with a talk on "Navajo Nation, USA, Precipitation Variability from 2002 to 2015."

View Webinar #1

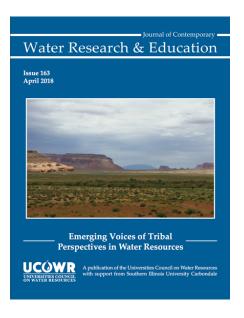
Register for Webinar #2

WRRC NEWS

UCOWR Journal Issue Highlights Emerging Voices

The April issue of the Journal of Contemporary Water Research and Education is dedicated to *Emerging Voices of Tribal Perspectives in Water Resources*. Karletta Chief, Assistant Professor and Extension Specialist, UA Department of Soil, Water, and Environmental Science, served as issue editor for this special publication. The journal is a collection of papers that address tribal perspectives on water relating to protecting resources, water quality, and economic factors.

Read Articles



New Article About Irrigation Practices in Yuma Available

The journal Sustainability has just published an article by UA researchers and others on irrigation practices in Yuma. "Evaluating Gravity-Flow Irrigation with Lessons from Yuma, Arizona, USA," describes and assesses practices that have allowed agriculture in the Yuma area to shift from perennial and summer-centric crop production to winter-centric, multi-crop systems for



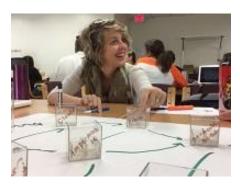
high-value fresh produce -- principally vegetables. Written by UA's George Frisvold, Charles Sanchez, Sharon B. Megdal, and Paul Brown, and Noel Gollehon of the U.S. Department of Agriculture, the article reviews the literature on profitability and efficiency of gravity systems, with a focus on how innovations in irrigated agriculture in the Yuma area have led irrigation systems to be both productive and water-conserving.

Read Article

Educators - Do you Love Learning and Teaching STEM?



If you do, then APW's Aqua STEM summer professional development program may be just what you need to take your skills to the next level!



Aqua STEM is a newly

revised APW program that facilitates a deeper level of student understanding using Systems Thinking. This approach emphasizes whole-part relationships, making distinctions, and understanding concepts from multiple perspectives. Students exposed to this way of thinking develop a greater awareness of their own thought processes, "metacognition", which

enhances learning and retention. Teacher Academies are available for all three Aqua STEM units, including Riparian Habitat Exploration, Rainwater Harvesting, and a School Water Audit. Through the Teacher Academies, e ducators in Maricopa County also have an opportunity to participate in complimentary Summer professional development System Thinking workshops. There is also a multi-session Teacher Academy for the Tucson area educators.

Learn More and Register

Director Megdal Publishes Article in Water Resources IMPACT

WRRC Director Sharon B. Megdal has recently published an article, entitled "The Cooperative Framework for the Transboundary Aquifer Assessment Program: A Model for Collaborative Transborder Studies" in the May 2018 issue of Water Resources IMPACT, a bi-monthly magazine published by the American Water Resources Association. It focuses on how the 2009 "Joint Report of the Principal Engineers Regarding the Joint Cooperative Process United States-Mexico for the Transboundary Aquifer Assessment Program." Signed by the United States and Mexico Principal Engineers of the International Boundary and Water Commission, the cooperative process described in the report can serve as a model for transboundary water studies across the globe.



IMPACT article

AZ Water's Large System Award Goes to Tucson Water



At the AZ Water Association's 91st Annual Conference & Exhibition, held May 2-4, Tucson Water (TW) received the Association's Large System of the Year award. The award was presented in recognition of the successful transformation of TW from 100 percent groundwater dependence to reliance on a diverse water portfolio consisting primarily of imported Colorado River water and reclaimed water. Other accomplishments recognized by the TW award include programs that have reduced per capita water usage, partnerships with Phoenix and Las Vegas for Colorado River water storage, and a new Neighborhood Green Infrastructure Program. The AZ Water Association is an independent professional organization focused on preserving and enhancing Arizona's water environment, and also represents Arizona in the American Water Works Association and the Water Environment Federation.

ANNOUNCEMENTS

- <u>May 21 Udall Foundation Job Opportunity Native American And Alaska</u> <u>Native Program Area</u>
- May 21-24 U.S. EPA Region 9 Tribal Drinking Water Symposium -

Registration Open

- May 22 Water Conservation Field Services Grant Applications Due
- June 6-7 ADEQ CWA 404 Program Stakeholder Meeting
- June 8 Tucson C2E 2018 Grants Applications Due
- June 15 WateReuse AZ 2018 Scholarship Applications Due
- June 26-28 UCOWR/NIWR Annual Water Resources Conference -Registration Open
- June 29 MSSC Student Scholarship Program Applications Due
- <u>July 9-11 AWRA Summer Conference: The Science Management, and Governance of Transboundary Groundwater Preliminary Program</u>
- July 30 Lake Tahoe Basin, Sciences, & Research Scholarship -Applications Due
- August 2-3, 2018 Arizona Water Law Conference Registration Now Open
- <u>August 24 CAZMEX Consortium for Arizona-Mexico Arid Environments -</u> Call for Proposals
- <u>September 26 Innovations at the Nexus of Food, Energy, and Water</u>
 <u>Systems (INFEWS) NIFA Grant Application Due</u>
- <u>December 6 Mine Water Management Symposium Scholarship Applications Due</u>

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