

# WEEKLY WAVE



THE UNIVERSITY OF ARIZONA  
COOPERATIVE EXTENSION

## WATER RESOURCES RESEARCH CENTER



March 1, 2024 / Volume 12, Issue 9

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

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**IN THIS ISSUE:** Conference, Seminar Recap, 104  
Research Grants, Groundwater

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WRRC 2024  
ANNUAL CONFERENCE

**STANDARD  
REGISTRATION  
CLOSING  
MARCH 3!**



IMPLEMENTING  
WATER  
SOLUTIONS  
THROUGH  
PARTNERSHIPS

**Standard Registration for WRRC Conference  
Closing Sunday!**

Don't wait to register for the WRRC 2024 Annual Conference! Please join us March 12–13 for an engaging program. Standard registration closes on Sunday, March 3. Standard registration is \$175 (\$115 for a single day), and we are also pleased to offer a \$60 student registration rate. After March 3, late/onsite registration will be available for an increased cost. For those who cannot make it to Tucson, we are offering free non-interactive livestreaming of the event. In a fitting tribute, the conference is dedicated to the legacy of Dr. Thomas Meixner, who was a well-respected University of Arizona professor, leader, and water advocate until his tragic passing in 2022. Meixner dedicated his career to preserving the world's most precious resource — water — and inspired students and colleagues to do the same. Day 1 of the conference will feature academic collaborations, Salt River Project initiatives, a panel of journalists, and a session and networking reception that evening. Day 2 of the wide-ranging program will concentrate on actions that increase water conservation and efficiency, make the most of underutilized supplies, and raise public awareness and knowledge about water issues. The program also includes keynote talks from Gila River Indian Community Governor Stephen Roe Lewis, Arizona Department of Agriculture Director Paul Brierley, and Arizona Department of Water Resources Colorado River Programs Manager Kristen Johnson. Everyone interested in the region's water challenges is invited to join the conversation to share and learn about the power of partnerships and collaborations to help solve some of our most critical water resources issues. Check out the draft agenda and register today. We hope to see many of you in Tucson later this month!

- [Register Today!](#) Rates increase March 4
- [Conference Agenda](#)
- [More Info](#)

## EVENTS

### **NVIS Spring 2024 Seminar: Place Based Learning and Cultural Fire Practice in California – *Co-sponsored by the WRRC***

**Date:** Tuesday, March 12, 2024  
**Time:** 12:00 pm – 1:00 pm Arizona Time  
**Location:** [Webinar Only](#)

**Speaker:** Deniss Martinez, *Research Affiliate, Native American Studies, University of California, Davis*



Deniss is a community-engaged environmental justice scholar. Her research focuses on finding natural resource management strategies that support Tribal self-determination and governance. Using qualitative methods and community-based research Deniss' current work centers on the stories and narratives of cultural fire practitioners in California. Her vision is to work on creating a future that centers the wisdom of Indigenous people, not just as marginally relevant but as central to environmental decision-making. She believes that just as people are an essential part of the environment; decolonization, reparations, and justice are essential to a just climate future. She aims to continue work that informs both settler governments and Tribal governments on the best strategies for solving the climate crisis in a way that uplifts Tribal sovereignty, ensures justice for communities of color, and builds governance, culture, and decision-making based on values of reciprocity, responsibility, and seven generation thinking.

[Register Here](#)  
[More Info](#)

**Can't attend in person?**



**IMPLEMENTING  
WATER  
SOLUTIONS  
THROUGH  
PARTNERSHIPS**

**MARCH 12–13**  
University of Arizona  
Student Union Grand Ballroom



**WRRC 2024 Conference  
Free Livestream  
Registration Available**

**Register ▶**

### Upcoming WRRC Events

- March 12–13: [WRRC 2024 Annual Conference: Implementing Water Solutions Through Partnerships](#)

### Upcoming WRRC Co-sponsored Events

- Apr 2: [NVIS Spring 2024 Seminar: Unraveling Ecosystem Challenges: Investigating Pinyon Decline and Big Sagebrush Resiliency; 12–1 pm MST](#)
- May 7: [NVIS Spring 2024 Seminar: ?Eleitek Waali? \(I'm Reading Country\); 12–1 pm MST](#)

### External Events

- Apr 11–12: [Law of the Rio Grande Annual Conference](#)
- May 6–7: [Law of the Colorado River Annual Conference](#)

## NEWS

### WRRC Webinar Offers Solutions to Global Water Challenges

On February 27, the WRRC hosted David Sedlak, director of the Berkeley Water Center at the University of California, Berkeley, who discussed his new book, *Water for All: Global Solutions for a Changing Climate*. The book examines the worldwide water challenges of climate change and increased global development and explores their potential solutions.

*Water for All* describes six different water crises across the world: Water for the Wealthy, Water for the Many, Water for the Poor, Water for Health, Water for Food, and Water for Ecosystems. In his presentation, Sedlak highlighted Water for the Wealthy and Water for Food, the two crises most relevant to Arizona's water future. Water challenges in wealthy areas revolve around water quality and supplies and are often solved by advanced technologies and policy changes. Sedlak gave examples of Net Zero Water designs that address these "wealthy water challenges," including water treatment systems for individual buildings, greywater recycling, and roof rainwater collection. He also investigated water treatment and conservation strategies related to agriculture, which uses most of the world's fresh water to produce food. These strategies include desalination of brackish groundwater reserves for irrigation use. Sedlak hopes that his book can inspire solutions to global water shortages by providing motivating examples



from around the world. *Water for All* is available in both brick-and-mortar and online stores across the country.

*Image: Shira Bezalel*

## [View the Recording About the Book](#)

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### **Section 104(b) Small Research Grant Program Deadline Extended**

The University of Arizona's Water Resources Research Center (WRRC) is extending the deadline for proposals for the USGS-funded 104(b) small research grants to March 27, 2024. Proposals for the USGS-funded 104(g) National Competitive Grant Program will also be due to the WRRC on March 27. As the federally authorized Water Resources Research Institute for Arizona, the WRRC administers the Water Resources Research Act, Section 104 grant programs. Proposals for both the 104(b) and 104(g) grant programs must show a 1:1 non-federal match for requested federal funding. Research personnel at any of Arizona's three state universities (UArizona, NAU, and ASU) are eligible for these opportunities. Detailed information about these two grant programs is available on our [website](#).

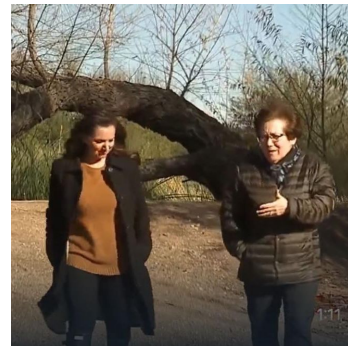


## [Read More](#)

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### **KGUN News Segment Features WRRC Director**

KGUN News, a broadcast news media outlet based in Tucson, recently released a video segment covering the current state of groundwater in Southern Arizona. This production gives understandable explanations of the Central Arizona Project (CAP), wastewater treatment operations, groundwater contaminant testing, and water topics relevant to different parts of the state. The video also provides an overview of the Tier 1 Shortages of Colorado River water that Arizona faces in 2024. These shortages require a reduction of 6% of CAP Tribal use, 3% of municipal and industrial CAP use, and 100% of agricultural CAP use. Interviewed for the segment, WRRC Director Sharon B. Megdal stated that the Tucson region is in "relatively good shape" as a result of good water management and diverse water supplies, but also cautioned that "we must use [water] wisely and behave wisely." In Tucson, most of the drinking water is Colorado River water that has traveled through the CAP, been recharged into local aquifers, and is then extracted after having been blended with groundwater. Megdal hopes that people can become engaged in the water conversation with optimism and confidence in our ability to solve water problems.



*Image: KGUN 9 News*

## [KGUN News Segment 2024 Tier 1 Shortage Info](#)

# WATER JOBS/OPPORTUNITIES

Please visit [WRRC's website](#) for a complete listing of water jobs and opportunities.

## NOTICES, PUBLICATIONS & MEDIA

### From the WRRC

#### WRRC Releases Santa Cruz County Factsheet

The Santa Cruz County Water Factsheet is now available! As the 11<sup>th</sup> addition to the WRRC's Arizona Water Factsheet series, this resource highlights Santa Cruz County's geographical position along the Mexico border and binational efforts guiding water resources management within the Upper Santa Cruz River Basin. [More Info](#)

#### New Article Takes One Health Approach to PFAS

The WRRC recently published an article in *The Water Report*, titled "Understanding the Impact of PFAS in Arizona Using the One Health Approach." This article was co-written by WRRC Graduate Outreach Assistant Taylor Simmons, WRRC Statewide Water Information Manager Amanda Trakas, and WRRC Research and Outreach Program Officer Susanna Eden. [Read the Article](#)

#### TAAP Article Published by Binational Team

"Crafting Binational Groundwater Agreements for Transboundary Aquifer Sharing"  
[Read the Article](#)

### From Other Sources

#### USGS Provides Easy Access to Colorado River Science with New Online Portal

The [Colorado River Basin Science Collaboration Portal](#) evolved from the need by partners for better access to the wide range of USGS science produced across the basin. "The new USGS Colorado River Basin Science Portal provides a forum for presenting, discussing, integrating, and disseminating science with users of USGS and partner data," said Katharine Dahm, Deputy Regional Director, USGS Rocky Mountain Region. "Through improved access to integrated data, we can deepen understanding and continue collaborative stewardship of the Colorado River system amid mounting water challenges." [More Info](#)

#### New Western Water Article Published

"How Volunteer 'Streamkeepers' Influence Water Policy Across the West"

[Read the Article](#)

#### Riparian Photopoint Program

The Friends of Tonto National Forest is seeking volunteers for the [Riparian Photopoint program](#). The program documents riparian areas by taking photographs of vegetation and streambanks at exact spots to show wildlife impacts, results of flooding, fire and drought, impacts by livestock, and improvement in conditions from management strategies. Volunteers are needed throughout the Tonto National Forest, some easily accessible by car and some requiring hiking. Virtual training sessions will be held on March 7, 11, and 12. Register for training [HERE](#). If you would like to volunteer but cannot attend the training, please email [Helene@friendsofthetonto.org](mailto:Helene@friendsofthetonto.org).

# CALENDAR ANNOUNCEMENTS

- **Mar 3:** [Regreening the Desert: Free Soil Health Film Screening](#)
- **Mar 3:** [WRRRC 2024 Annual Conference – Standard Registration Deadline!](#)
- **Mar 5–7:** [RiversEdge West 2024 Conference – Restoration for the Future: Promoting Resilience in Our Rivers and Communities](#)
- **Mar 6–8:** [Land & Water Summit](#)
- **Mar 7–8:** [Sustainable Water Investment Summit](#)
- **Mar 10–16:** [National Groundwater Awareness Week](#)
- **Mar 11:** [ENVS Colloquium — Dr. Thomas Lavanchy \(Oklahoma State University\)](#)
- **Mar 11–14:** [AWWA WateReuse 2024 Symposium](#)
- **Mar 12:** [NVIS Spring 2024 Seminar: Place Based Learning and Cultural Fire Practice in California; 12–1 pm MST – Co-sponsored by the WRRRC](#)
- **March 12–13:** [WRRRC 2024 Annual Conference: Implementing Water Solutions Through Partnerships](#)
- **March 12–13:** [A Meeting of Sacred Waters: A Global Gathering of Indigenous Voices](#)
- **Mar 14:** [Spring 2024 Tumamoc Talk: The Influence of a Variable and Changing Climate on Upper Gila River Streamflow – Dr. Connie Woodhouse](#)
- **Mar 18:** [ENVS Colloquium — SEES Earthweek Keynote Speaker](#)
- **Mar 20:** [AWRA 2024 Webinar: What You Need to Know About Microplastics in Our Waters](#)
- **Mar 21:** [ENViSion Research Symposium](#)
- **Mar 25:** [ENVS Colloquium — Dr. Katerina Dontsova \(UArizona\)](#)
- **Mar 25–27:** [AWRA 2024 Geospatial Water Technology Conference: Data to Decisions: Managing & Modeling Water Challenges](#)
- **Mar 27:** [USGS 104\(g\) National Competitive Grant – Proposal Deadline](#)
- **Mar 27:** [Water Resources Research Institute Program 104\(b\) Student Grant – Proposal Deadline \*\*Extended!\*\*](#)
- **Mar 31:** [AHS 2024 Halpenny Intern Scholarship – Application Deadline](#)
- **Mar 31:** [AHS 2024 Avery Intern Scholarship – Application Deadline](#)
- **Mar 31:** [AHS 2024 Bouwer Intern Scholarship – Application Deadline \*\*Extended!\*\*](#)
- **Apr 1:** [ENVS Colloquium — TBD](#)
- **Apr 2:** [NVIS Spring 2024 Seminar: Unraveling Ecosystem Challenges: Investigating Pinyon Decline and Big Sagebrush Resiliency; 12–1 pm MST – Co-sponsored by the WRRRC](#)
- **Apr 3–6:** [BSMAR18](#)
- **Apr 6:** [2024 Water Awareness Month Festival](#)
- **Apr 8:** [ENVS Colloquium — Dr. Luisa Ikner \(UArizona\)](#)
- **Apr 8–10:** [AWRA 2024 Spring Conference: Water Risk & Resilience: Research and Sustainable Solutions](#)
- **Apr 11–12:** [Law of the Rio Grande Annual Conference](#)
- **Apr 15:** [AHS Annual Academic Scholarships – Application Deadline](#)
- **Apr 15:** [ENVS Colloquium — ENVS Undergraduate Presentations](#)
- **Apr 16–17:** [NGWA Conference: Groundwater in the PFAS Era: Stressors, Protection, & Compliance](#)
- **Apr 18:** [Spring 2024 Tumamoc Talk: The Science and Wonder of Arizona Lighting – Ron Holle](#)
- **Apr 22:** [ENVS Colloquium — Dr. Beth Marlowe \(Quest Diagnostic Labs\)](#)
- **Apr 23–25:** [97<sup>th</sup> Annual AZ Water Conference & Exhibition Annual AZ Water Conference & Exhibition](#)
- **Apr 24–26:** [Santa Cruz River Research Days](#)
- **Apr 29:** [ENVS Colloquium — Dr. Jen McIntosh \(UArizona\)](#)
- **May 6–7:** [Law of the Colorado River Annual Conference](#)
- **May 7:** [NVIS Spring 2024 Seminar: ?Eie!tek Waali? \(I'm Reading Country\); 12–1 pm MST – Co-sponsored by the WRRRC](#)
- **Jun 1:** [2024 Central Arizona Project Award for Water Research — Abstract Deadline](#)
- **Jun 10–13:** [AWWA 2024 Annual Conference & Expo \(ACE24\): Transforming Our Water Future](#)
- **Jun 17–20:** [3<sup>rd</sup> International Groundwater-Agriculture Conference: Toward Sustainable Groundwater in Agriculture - Linking Science and Policy](#)

- **Jul 28–30:** [2024 Arizona Water Reuse Symposium](#)
- **Sep 30–Oct 2:** [AWRA/UCOWR/NIWR 60<sup>th</sup> Anniversary Joint Water Resources Conference](#)

Do you have a story idea, water job announcement, or event to share?  
[Contact us here](#)