

WEEKLY WAVE



THE UNIVERSITY OF ARIZONA
COOPERATIVE EXTENSION

WATER RESOURCES RESEARCH CENTER



August 30, 2024 / Volume 12, Issue 21

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.](#)

[WRRC Office Update](#)

[Subscribe to the Weekly Wave](#)

[View as Webpage](#)



2024 marks the 60th anniversary of the Water Resources Research Center at the University of Arizona. Find out [more](#).

IN THIS ISSUE: WRRC Openings, New Students, Santa Cruz County Water Study Recap, Tucson Water Award, OpenET

[GIVE NOW](#)



WRRC Hiring Assistants for Outreach and Research

The WRRC is seeking to fill outreach and engagement positions with AmeriCorps service members and graduate students. We are soliciting applications from motivated individuals who wish to contribute to information sharing about water management, policy, use, and research with a wide range of audiences. Eligible AmeriCorps candidates should have experience with communications, writing and editing, working as part of a team, and a genuine interest in water and the environment. Their service will include assistance with communications and/or outreach tasks, which may involve writing for the *Weekly Wave* and the *Arroyo*, preparing for and supporting virtual and in-person events, or assisting with other programmatic efforts. AmeriCorps members will receive a stipend, ongoing training, and an education award upon completion of service. Under the direction of staff, the Graduate Research Assistant will support stakeholder programs and outreach by helping to coordinate and facilitate meetings and workshops, assisting with meeting logistics, taking notes and actions, and performing research to answer community questions. The student may also assist with interviews, survey development, data analysis, literature reviews, communications, and other tasks addressing stakeholder needs. At the WRRC, engaging with the public is a central part of our programs. Outreach strategies include the *Weekly Wave* newsletter, Water Webinars, special events, our annual conference, and invited presentations. More information about WRRC programs may be found on our website. The links below contain details on the positions and how to apply.

Image: [americorps.gov](https://www.americorps.gov)

- [AmeriCorps Position](#)
- [Graduate Research Assistant Position](#)
- [WRRC Programs](#)

2025 ANNUAL CONFERENCE

SAVE
the
DATE

WRRC 2025 Annual Conference

May 20–21

**SHARED BORDERS
SHARED WATERS**

Working Together in Times of Scarcity

EVENTS

LSPIV Training Course: Flow Measurement Using Video Images – Co-sponsored by the WRRC

Date: Tuesday, Sep 3, 2024

Time: 1:00 pm–4:00 pm Arizona Time

Location: Civil Engineering Building, Room 203

[Zoom Link](#)



Speakers:

Frank Engel, *Geographer, US Geological Survey*

Imaging technology has been widely applied to flow measurements. This training workshop will introduce the fundamentals of imaging velocity methods and teach the application of IVY, USGS's latest image velocity processing software. The workshop has two 60-minute sessions: 1) fundamentals of image-based flow measurements and 2) application of IVY to process imaging data. Attendees are expected to get hands-on experience using the software.

- [Register Here](#)
- [Zoom Link](#)
- [More Info](#)

WRRC Water Webinar: Re-Imagining Water Resiliency - The San Diego Story

Date: Monday, Sep 16, 2024

Time: 12:00 pm–1:15 pm Arizona Time

Location: [Webinar Only](#)

Speakers:

Dan Denham, *General Manager, San Diego County Water Authority*



This WRRC Water Webinar will be an overview of how San Diego went from being almost 100% reliant on one imported water supplier to developing one of the most resilient water supplies in the southwest.

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

WRRC Water Webinar: Using Green Stormwater Infrastructure Projects to Develop Partnerships, Address Stakeholder Needs, and Build to Future Work

Date: Tuesday, Sep 24, 2024

Time: 12:00 pm–1:15 pm Arizona Time

Location: [Webinar Only](#)

Speakers:

Garland Speight, *Project Manager, Water Resources Research Center*

Todd Pryor, *Town Manager, Town of Superior, Arizona*

Raluca Mihalcescu, *Water Conservation Coordinator, Arizona Water Company*

Jim Schenck, *Treasurer, Rebuild Superior & Vice President, Legends of Superior Trail*



This WRRC Water Webinar will describe how the Town of Superior and associated stakeholders have used the Coleman Alley Green Stormwater Infrastructure Project to help develop partnerships and address water issues on the Queen Creek. Panelists will provide a brief history of watershed restoration work efforts for the Queen Creek near the Town of Superior, how this group of partners won funding for this Green Stormwater Infrastructure Pilot Project, and the status of project implementation. Partner presentations will provide perspectives on how stakeholder (e.g., community, agencies, NGO) interests were incorporated into planning, highlighting the co-benefits of this project for water conservation, flood control, and climate change mitigation. The presentation will conclude with a brief description of how this project has helped build a foundation for future successes, including recent funding awards that will advance Queen Creek Restoration Planning efforts.

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

Upcoming WRRC Events

- Oct 31: [WRRC Water Webinar: Living River: The Promise of the Mighty Colorado; 3–4:30 pm](#)
- May 20–21, 2025: [WRRC 2025 Annual Conference: Shared Borders, Shared Waters: Working Together in Times of Scarcity](#)

Other Events

- Sep 9–10: [12th Annual Tribal Water Law Conference](#)

NEWS

WRRC Welcomes New Graduate Students

The WRRC is pleased to welcome two new graduate students this fall semester! Aminta Menjivar, our new Graduate Research Associate, is a PhD Candidate in American Indian Studies with a minor in Law at the University of Arizona (U of A). Aminta is a native of El Salvador and grew up in Denver, Colorado. Her research focuses on Native American water sovereignty and self-determination. During her time at the WRRC, Aminta will assist with a research project on the history and potential future of Tribal water settlements in Arizona. In her downtime, Aminta enjoys reading and being



out in nature. Noah Rios is the WRRC's new Coverdell Fellow/Graduate Research Assistant. The U of A Peace Corps Coverdell Fellows Program assists returning Peace Corps volunteers in pursuing graduate degrees by providing assistantships with organizations that serve underserved communities. Noah's first Peace Corps service was in the Eastern Caribbean on the islands of St. Vincent and the Grenadines, working on environmental conservation projects. He has also served as a Response Volunteer in the Philippines, working as a Solid Waste Management Specialist for a local government unit. Noah is pursuing an MPH in Environmental and Occupational Health at the Mel and Enid Zuckerman School of Public Health, where he will be researching clean water management and safe water practices. During his time at the WRRC, Noah will assist on research and community outreach projects including a project on Queen Creek for the Town of Superior. Welcome to the WRRC, Aminta and Noah! We look forward to working with you.



WRRC Presents at Santa Cruz County BOS Special Session

On August 21, the Santa Cruz County Board of Supervisors met in Nogales, AZ for a special water study session. WRRC Director Sharon B. Megdal gave a presentation on the WRRC's Arizona Water Factsheet initiative, provided background info and current status of the Transboundary Aquifer Assessment Program (TAAP), and gave an overview of the Governor's Water Policy Council. Arizona Department of Environmental Quality (ADEQ) Environmental Justice Coordinator Joaquin Marruffo gave a presentation on transboundary water issues in the Ambos Nogales region. He was joined by ADEQ Environmental Science Specialist Claudia Gil Anaya, who helped field questions during the Q&A session following the presentations. Arizona Department of Water Resources (ADWR) Statewide Planning Supervisor Kennedy Shepard provided an explanation of the Supply & Demand program and models implemented elsewhere in Arizona, along with an update on the upcoming Supply & Demand Report for the Santa Cruz AMA. The study session recording was disrupted by a power outage, but a partial video recording and a PDF of the presentation slides are available at the links below.



Image: Wikimedia Commons. The Santa Cruz River flowing northwards near Kino Springs shortly after re-entering the US from Mexico

- [Partial Video Recording](#)
- [Presentation Slides](#)
- [More Info](#)

Tucson Wins Water Equity Award

The City of Tucson announced last week that their water utility, Tucson Water, had won the 2024 Excellence in Equity Award from the Alliance for Water Efficiency (AWE). The AWE award recognized Tucson's "wide variety of conservation incentives that address low-income community needs and ... long-standing partnerships with organizations that offer plumbing assistance," particularly Community Home Repair



Projects of Arizona and the Sonora Environmental Research Institute. Other Tucson programs, commended for their focus on equity, include the Storm to Shade program and Green Stormwater Infrastructure mini-grant program, which use Tree Equity Scores to prioritize projects. Tucson Water's community collaborations and participatory design processes also received recognition. The AWE, an organization promoting efficient and sustainable water use, presents the Excellence in Equity Award to a member organization for advancing equity through their work with diverse populations.

Image: Alliance for Water Efficiency. Candice Rupprecht, a WRRC alum, receives the award from Ron Burke on behalf of Tucson Water at AWE's 2nd Annual Water Efficiency & Conservation Symposium in Chicago, Illinois.

[City of Tucson Announcement](#) [AWE Announcement](#)

Podcast Discusses OpenET and Its Uses

In a recent episode from the Waterloo podcast, Forrest Melton of NASA and Robyn Grimm, formerly of the Environmental Defense Fund, explain the science behind OpenET and how it can improve our water management strategies. OpenET uses satellite data from the Landsat program — a collaboration between NASA and USGS — to provide easily accessible evapotranspiration (ET) data for improved water management across the western United States. ET is the process by which water on land moves, by evaporation or transpiration, into the atmosphere, and it is a useful indicator of water needs for agriculture. OpenET uses thermal infrared imaging and weather data to track ET rates in areas as small as a quarter of an acre at daily, monthly, and yearly intervals. The podcast episode also includes interviews with some users of OpenET, including farmers and water managers, who share different ways they use the tool in their work.

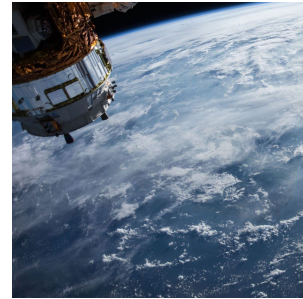


Image: etdata.org

- [Listen to the Podcast](#)
- [Watch the YouTube Video](#)
- [OpenET](#)

WATER JOBS & OTHER OPPORTUNITIES

The WRRC is a Host Institution for the Accelnet PEER2PEER 2024 Fellowships
The Accelnet PEER2PEER program seeks non-US-based graduate students, postdocs, and researchers to complete fellowships focused on transboundary water resource management from Fall 2024 through Spring 2025. Fellows will spend 2–4 weeks at a host lab participating in ongoing work while also exploring their own interests under the guidance of lab directors and staff. The deadline to apply is August 30. [Apply Today](#)

-
- Arizona Water Company [Water Conservation Specialist](#)
 - Illinois State Water Survey [Director and Principal Research Scientist](#)
 - University of Guam [Assistant Professor — Wastewater Scientist](#)

- WRRRC [AmeriCorps Members](#)
- WRRRC [Graduate Research Assistant](#)

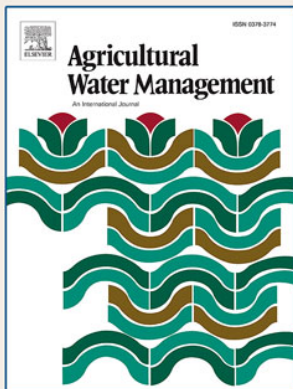
Please visit [WRRC's website](#) for a complete listing of water jobs and opportunities.

NOTICES, PUBLICATIONS & MEDIA

CALLING ALL PHOTOGRAPHERS

WRRC 2024 PHOTO CONTEST WATER IN ARIZONA

SUBMIT YOUR PHOTOS!



CALL FOR PAPERS

Water Scarcity Solutions for
Irrigated Agriculture in the
Warming Western U.S.

Extended to Nov. 1, 2024

[Submission Info](#)

Updated Brackish Groundwater Report

In 2023, the Arizona Department of Water Resources (ADWR) received funding to prepare an updated inventory of brackish groundwater in Arizona to assess the availability of this resource. ADWR contracted with [Montgomery & Associates \(M&A\)](#) to conduct this study, which reviewed public datasets from wells around the state to identify focus areas. For each focus area, M&A's analyses present an overview of the hydrogeologic conditions, maps of water level elevation contours and TDS distribution, estimates of groundwater in storage, and a groundwater budget of the basin. [More Info](#)

Santa Cruz River Dragonfly Festival Coming Soon

Are you looking for a fun way to learn about dragonflies and connect with the Santa Cruz River? Sonoran Institute and partners are hosting the [Santa Cruz River Dragonfly Festival](#) this September. You can attend fun presentations in person or virtually, get crafty, and hunt for dragonflies on your own or as part of a guided tour. There are options for everyone! [More Info](#)

2025 Operating Conditions for Lakes Powell & Mead

The Bureau of Reclamation has released the Colorado River Basin [August 2024 24-](#)

[Month Study](#), which determines the operating tiers for the coordinated operation of Lake Powell and Lake Mead for 2025. [More Info](#)

New Western Water Article on Photovoltaic Shades: Solar-Paneled Canopies Over Canals Catching on in Southwest

Excerpt: An intensifying but unseen force is stealing precious water from rivers in the arid West, but it's hardly a thief in the night. The midday sun is one of the more aggressive guzzlers of the Colorado River. Between its high Rockies headwaters and Sonoran Desert delta, 1 to 2 million acre-feet of water evaporates yearly in the Colorado River Basin.

[Read More](#)

Registration Open for 2024 AWRA, UCOWR, NIWR 60th Anniversary Joint Conference

Join the American Water Resources Association, the Universities Council on Water Resources, and the National Institutes for Water Resources in bringing together a professional community of 60 years! Attendees from each organization will have a unique opportunity to experience higher-level networking, engagement, and learning through the theme *Celebrating the Past and Planning for the Future of Water*. [Register Here](#) The Early Bird Deadline is September 10. [More Info](#)

CALENDAR ANNOUNCEMENTS

- **Aug 30:** [Arizona Water Protection Fund FY2025 Grant Cycle – Application Deadline](#)
- **Aug 30:** [Accelnet PEER2PEER 2024 Fellowships – Application Deadline](#)
- **Sep 3:** [LSPIV Training Course: Flow Measurement Using Video Images; 1–4 pm – Co-sponsored by the WRRC](#)
- **Sep 3–7, 2024:** [UA-CNRS Conference: Environmental Justice and Cultural Resistance: Africa and Polynesia](#)
- **Sep 4:** [AWRA 2024 Webinar: Subsurface Water Allocation: Do Aquifers Need Compacts or Treaties?](#)
- **Sep 9–10:** [12th Annual Tribal Water Law Conference](#)
- **Sep 9–11:** [NSS National Conference: Innovation, Implementation, and Workforce Development for Sustainability](#)
- **Sep 10:** [2024 AWRA, UCOWR, NIWR 60th Anniversary Joint Water Resources Conference – Early Bird Deadline](#)
- **Sep 14:** [Biosphere 2 Annual Symposium: Opportunities for Research and Education at Biosphere 2: Finding Solutions for Resilience](#)
- **Sep 16:** [WRRC Water Webinar: Re-Imagining Water Resiliency - The San Diego Story](#)
- **Sep 16:** [Rural Groundwater Resilience Workshops – Submission Deadline](#)
- **Sep 16:** [PEER2PEER Seminar Series: Transboundary Water Governance and the Colorado River](#)
- **Sep 16:** [AIDA Webinar: Cooperating Over Shared Freshwater Resources Using International Law](#)
- **Sep 16:** [Water Leadership Institute: Community Without Boundaries – Application Deadline](#)
- **Sep 17:** [USGS Western Geographic Science Center Seminar – “The Root Zone as a Reservoir For Plants and Streams” with Dr. Dana A Lapidés](#)
- **Sep 24:** [WRRC Water Webinar: Using Green Stormwater Infrastructure Projects to Develop Partnerships, Address Stakeholder Needs, and Build to Future Work](#)
- **Sep 24:** [WestWater Forum: How Public–Private Partnerships Maximize Arizona’s Water Resources](#)
- **Sep 26:** [One Water Webinar: Leadership Lessons on Transforming the Water](#)

[Workforce and Advancing Equity](#)

- **Sep 30–Oct 2:** [2024 AWRA, UCOWR, NIWR 60th Anniversary Joint Water Resources Conference: Celebrating the Past and Planning for the Future of Water](#)
- **Oct 11:** [2025 UCOWR/NIWR Annual Water Resources Conference – Special Session Proposal Deadline](#)
- **Oct 17:** [Imagine a Day Without Water](#)
- **Oct 21:** [ASU Flow 2024: A Water Year Event for Researchers and Practitioners](#)
- **Oct 31:** [WRRC Water Webinar: Living River: The Promise of the Mighty Colorado; 3–4:30 pm](#)
- **Nov 1:** [Water Scarcity Solutions for Irrigated Agriculture in the Warming Western U.S. Manuscript – Submission Deadline](#)
- **Dec 20:** [WRRC 2024 Photo Contest – Submission Deadline](#)
- **Feb 24–26, 2025:** [NIWR 2025 Annual Conference – Save the Date!](#)
- **Apr 28–30, 2025:** [AWRA 2025 Spring Conference: Development Risks & Challenges in Changing Climate Conditions](#)
- **May 20–21, 2025:** [WRRC 2025 Annual Conference: Shared Borders, Shared Waters: Working Together in Times of Scarcity](#)
- **Jun 3–5, 2025:** [2025 UCOWR/NIWR Annual Water Resources Conference](#)
- **Jul 8–11, 2025:** [One Water Summit 2025](#)

Do you have a story idea, water job announcement, or event to share?

[Contact us here](#)

Visit our Website



Share This Email



Share This Email



Share This Email

University of Arizona Water Resources Research Center | 350 N Campbell Ave | Tucson, AZ
85719 US

[Unsubscribe](#) | [Update Profile](#) | [Constant Contact Data Notice](#)



Try email marketing for free today!