

WEEKLY WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION

**WATER RESOURCES
RESEARCH CENTER**



September 9, 2022 / Volume 10, Issue 22

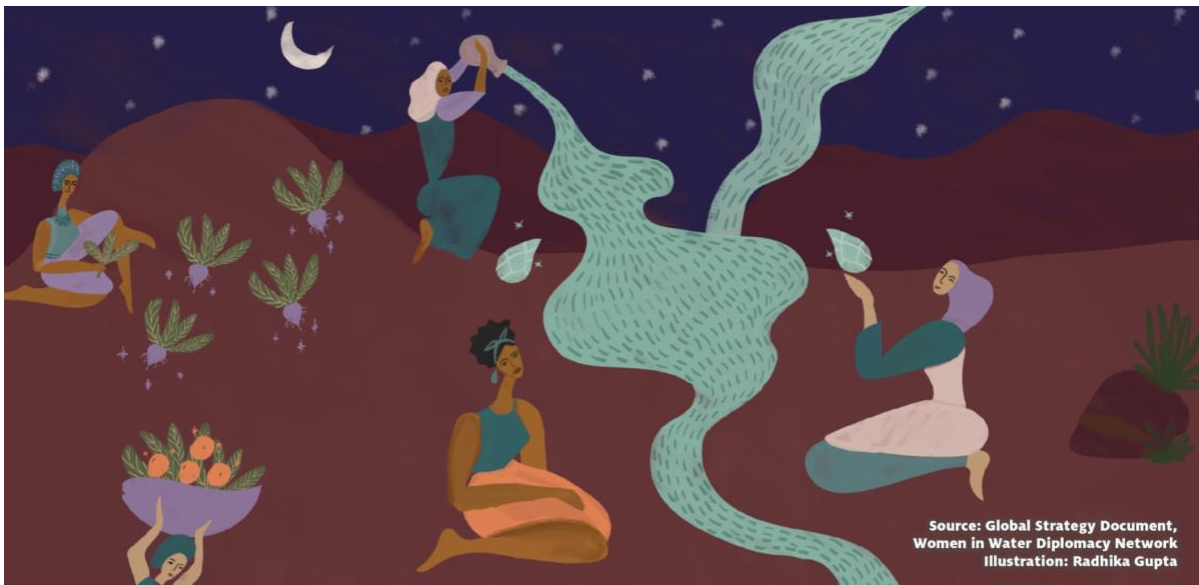
The Water Resources Research Center - a research unit of the [College of Agriculture and Life Sciences](#) and an Extension unit in [UA Cooperative Extension](#) within the Division of Agriculture, Life & Veterinary Sciences & Cooperative Extension. [Land Acknowledgement](#).

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IN THIS ISSUE: Reflections, NVIS, ADWR Letter, APW, Fallen Saguaro



Source: Global Strategy Document,
Women in Water Diplomacy Network
Illustration: Radhika Gupta

Reflections: Connecting Globally at Stockholm World Water Week

Stockholm World Water Week (WWW) is a highly regarded international conference, well known for bringing together diverse water experts from different parts of the world. This year's WWW theme was Seeing the Unseen: The Value of Water.

[Read More](#)

EVENTS

WRRC Brown Bag Webinar: Water Reuse Action Plan and REUSExplorer Demo

Date: Sep 12, 2022

Time: 12:00 pm–1:15 pm Arizona Time

Location: [Webinar Only](#)



Speaker: Sharon Nappier, *National Program Leader for Water Reuse, US Environmental Protection Agency*

The National Water Reuse Action Plan (WRAP) helps drive progress on reuse by leveraging the expertise of scientists, policymakers, and local experts across the country to create a more resilient water future for communities of all sizes. The collaborative was launched in February 2020 by federal, state, Tribal, local, and water sector partners to build state and local capacity to pursue reuse practices that help solve local water resource challenges. There are currently more than 100 organizations partnering on 56 actions in the plan, ranging from scientific and technical advances in water reuse to policy and coordination improvements across jurisdictions. This WRRC Brown Bag presentation will highlight progress across the WRAP actions and provide a demo of a new tool: Regulations and End-Use Specifications Explorer (REUSExplorer). The REUSExplorer compiles state water reuse regulations and guidelines and highlights the underlying scientific and technical basis of water quality metrics. This new web-based tool, developed by the Environmental Protection Agency (EPA) and partners under WRAP Action 3.1, is searchable by state, source of water, and end-use application. It can be used to assist states interested in developing regulations and help utilities and practitioners to better understand current regulations. The first end-uses available include potable water reuse, onsite non-potable reuse, and other centralized non-potable reuse applications, except agricultural and landscape reuse. The REUSExplorer is available at <http://www.epa.gov/reuseexplorer>.

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

WRRC Brown Bag Webinar: Arizona Project WET's Groundwater Videos in the Making

Date: Sep 22, 2022

Time: 12:00 pm–1:15 pm Arizona Time

Location: [Webinar Only](#)



Speakers:

Holly Thomas-Hilburn, *Director, Arizona Project WET*

Kevin Sirois, *Design Director, Esser Design*

Arizona Project WET has been teaching about the groundwater system for over two decades using everything from two-dimensional drawings to tubs of earth materials and the ever-popular sand tank groundwater model. Helping students to understand this critical unseen system is no easy task. With the



support of the Arizona Department of Water Resources, APW partnered with Esser Design to develop a series of nine videos about the groundwater system. In the process, we encountered a variety of challenges and interesting questions on the best way to communicate about the groundwater system. In this brown bag, we'll share some of those questions, hear stories from the field, and show some of the groundwater videos.

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

Upcoming Events

Sep 28: [Native Voices in STEM Fall 2022 Seminar Series: Featuring Dr. Lani Tsinnajinnie \(Diné\) – Save the Date](#)

Oct 13: WRRRC Brown Bag Webinar: The Water Recycling Revolution: History and Lessons from Four Western States – Save the Date

Oct 20: WRRRC Special Event: Thirst for Justice – Save the Date

Oct 26: [Native Voices in STEM Fall 2022 Seminar Series: Groundwater to Snow Science: My Research and Teaching Path to Becoming a "Jack\(lyn\)- Of-All-Trades](#)

Nov 10: WRRRC Brown Bag Webinar: 104(b) Grant Program: Student Research Presentations – Save the Date

Nov 18: WRRRC Brown Bag Webinar: Watershed Collaboration in the Tucson Basin: Santa Cruz Watershed Collaborative Adopts a Watershed Restoration Plan to Promote Flowing Rivers – Save the Date

Nov 30: [Native Voices in STEM Fall 2022 Seminar Series: Featuring Dr. Raymond Torres – Save the Date](#)

External Events

Sep 19-20: [CLE 10th Annual Tribal Water Law Conference: Water Security on the Path to Resiliency](#)

NEWS

Webinar on Environmental Justice and Indigenous Rights Kicks Off NVIS Fall Series

On August 31, the UArizona-Sloan Indigenous Graduate Partnership, the Department of Hydrology and Atmospheric Sciences, NSF-NRT Indigenous Food, Energy, Water Security, and Sovereignty, the Water Resources Research Center, and the Indigenous Resilience Center had their first webinar in the Native Voices in STEM Fall 2022 Series. This webinar and others will highlight Native scientists, engineers, educators, leaders, and social activists. Dr. Ryan Emmanuel, an associate professor at the School of the Environment at Duke University and member of the Lumbee Tribe presented the first webinar of the series, titled “Environmental Justice and Indigenous Rights in Eastern North Carolina.” In partnership with the NC Commission of



Indian Affairs, Dr. Emmanuel, who trained as a hydrologist, uses his skillset and position to advocate for environmental justice throughout the state. Motivated by a desire to protect ancestral waterways and landscapes from pollution, unsustainable development, and climate change, Dr. Emmanuel speaks to varied audiences about the challenges associated with the recent Atlantic Coast Pipeline Proposal. Construction of the pipeline would have affected rural communities, including the ancestral land and waters of four to five Tribes. Emmanuel highlighted barriers to Indigenous representation, including procedural narrowing or compression of timelines for meeting with Tribal representatives, engaging only Tribes officially recognized by the federal government, power asymmetries, and “color blind” planning. He emphasized the importance of activists and the cooperation of marginalized communities, NGOs, and grassroots organizations, which ultimately put an end to the pipeline project. Dr. Emmanuel and others are actively working to promote native voices in future projects involving native lands or resources. He views river systems not only as physical artifacts but also as “cultural reservoirs” in need of protection.

- [Recorded Presentation](#)
- [NVIS Series Recording Library](#)
- [Upcoming NVIS Webinars](#)

ADWR Calls for Federal Action on Colorado River

On August 30, Arizona Department of Water Resources Director Tom Buschatzke sent a letter to officials at the US Department of the Interior and Bureau of Reclamation asking for the federal government to take action to cut water use from the Colorado River. The letter, according to a September 5 article in the *Arizona Daily Star*, suggested a set of specific water conservation actions to help solve the current crisis. Many of the proposals in Buschatzke’s letter mirrored those suggested in a similar letter sent to Interior officials from Southern Nevada Water Authority General Manager John Entsminger. In the two letters, Arizona and Nevada propose actions such as compensated turf removal, paying farmers to grow lower-water-use crops, investing in water reuse and desalination, funding improvements to Glen Canyon Dam to increase the reliability and predictability of water releases, and changing federal programs to prioritize drought mitigation. According to the article, Buschatzke wrote that “we cannot afford to do nothing, and we cannot simply rely on the tools we have used to date. We must give due consideration to each of these ideas.”

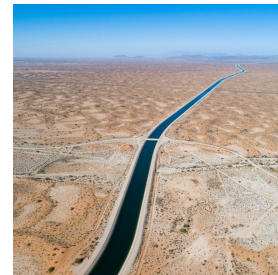


Image: [Ted Wood/The Water Desk](#)

[Read the Arizona Daily Star’s Coverage](#)



Colorado River Days Flagstaff Launches September 2–12

Northern Arizona is celebrating Colorado River Days! Colorado River Days Flagstaff is a series of educational events to remind Flagstaff and surrounding communities about the importance of the Colorado River and all it has to offer, bringing together river runners, artists, businesses, scientists, educators, community



organizers, and anyone passionate about the Colorado River to celebrate, learn, tell stories, share art and photography, and engage in community with each other. “This community really comes together to organize and celebrate Colorado River Days Flagstaff. The events are collaboratively created and give people a way to celebrate this river that runs through the heart of our culture and economy, but which we can't see from our town,” said Alicyn Gitlin, Program Manager for Sierra Club Grand Canyon Chapter.

[Read More](#)

Ancient Saguaro Uprooted in Monsoon

On August 30, *Physics.org News* reported that heavy rain caused a 200-year-old Saguaro in Catalina State Park to fall over. The monsoon season in the region of this state park north of Tucson has been wetter than normal, with a series of back-to-back rainstorms. Saguaros have wide-spreading shallow roots, which serve them well for drawing water from occasional desert showers, but serve less well for stability after days of soaking rains. The water-filled cactus toppled under its own weight. Visitors to Catalina State Park can see the fallen giant beside the Romero Ruins trail.



Image: Arizona State Parks and Trails

[Read the Article](#)

CORRECTION: The 10th Annual Tribal Water Law Conference on September 19-20, 2022 will be delivered as an in-person event. [Click here](#) to register and for more info.

WATER JOBS

- UArizona [Cooperative Extension Director](#)
- National Weather Service [Hydrologist](#) (multiple positions)
- National Weather Service [Junior Hydrologist](#) (multiple positions)

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

ANNOUNCEMENTS

- **Sep 9:** [US Global Change Research Program Call for Input to a Five-Year Plan for Research on Climate Intervention – Input Deadline](#)
- **Sep 11-14:** [AWWA 2022 Water Infrastructure Conference & Exposition](#)
- **Sep 11-15:** [IWA World Water Congress & Exhibition – Water for Smart Liveable Cities](#)
- **Sep 12:** [WRRC Brown Bag Webinar: Water Reuse Action Plan and REUSExplorer Demo](#)
- **Sep 13:** [Nationwide USACE Regulatory Recruitment Event – Registration Deadline](#)
- **Sep 14:** [ADEQ Water Quality Program Fees Stakeholder Meeting](#)
- **Sep 14:** [AWRA 2022 WEBINAR: Learning, Designing, and Teaching Others: A Narrative About Green Infrastructure and Education](#)

- **Sep 14-15:** [Nationwide USACE Regulatory Recruitment Event](#)
- **Sep 14-16:** [2022 AHS Annual Symposium](#)
- **Sep 16:** [ABWC 2022 Annual Meeting and Water Conference: Got Water? Food, Water & Economic Security](#)
- **Sep 19-20:** [CLE 10th Annual Tribal Water Law Conference: Water Security on the Path to Resiliency](#)
- **Sep 19-21:** [Western Groundwater Congress 2022: Built For Change](#)
- **Sep 22:** [WRRRC Brown Bag Webinar: Arizona Project WET's Groundwater Videos in the Making](#)
- **Sep 23:** [Thank a Water Hero Day: #ThankAWaterHero](#)
- **Sep 23:** [Tucson AMA Groundwater Users Advisory Council Meeting](#)
- **Sep 23:** [ADWR Public Hearing: Tucson AMA Modifications to the Fifth Management Plan Hearing](#)
- **Sep 26-27:** [OU International WaTER Conference](#)
- **Sep 26-29:** [2022 State of the Verde Watershed Conference – The Future of the Verde River System: Solutions for the Next Ten Years](#)
- **Sep 27:** [ADWR Public Hearing: Proposed Management Plan for the Santa Cruz Active Management Area for the Fifth Management Period, 2020 to 2025](#)
- **Sep 28:** [Native Voices in STEM Fall 2022 Seminar Series: Featuring Dr. Lani Tsinnajinnie \(Diné\) – Save the Date](#)
- **Sep 30:** [2023 Water for Food Global Conference: Cultivating Innovation: Solutions for a Changing World – Proposal Deadline](#)
- **Oct 2:** [Campus Sustainability Fund Mini Grants – Preliminary Application Deadline](#)
- **Oct 6-8:** [SustainValencia2022: Achieving Sustainable Groundwater Management: Promising Directions and Unresolved Challenges](#)
- **Oct 7:** [UCOWR/NIWR 2023 Annual Conference – Special sessions Proposal Deadline](#)
- **Oct 10-12:** [Southwest Adaptation Forum 2022](#)
- **Oct 13:** [WRRRC Brown Bag Webinar: The Water Recycling Revolution: History and Lessons from Four Western States – Save the Date](#)
- **Oct 20:** [Imagine a Day Without Water](#)
- **Oct 20:** [WRRRC Special Event: Thirst for Justice – Save the Date](#)
- **Oct 26:** [Native Voices in STEM Fall 2022 Seminar Series: Groundwater to Snow Science: My Research and Teaching Path to Becoming a "Jack\(lyn\)- Of-All-Trades](#)
- **Nov 7-9:** [AWRA 2022 Annual Water Resources Conference](#)
- **Nov 10:** [WRRRC Brown Bag Webinar: 104\(b\) Grant Program: Student Research Presentations – Save the Date](#)
- **Nov 18:** [WRRRC Brown Bag Webinar: Watershed Collaboration in the Tucson Basin: Santa Cruz Watershed Collaborative Adopts a Watershed Restoration Plan to Promote Flowing Rivers – Save the Date](#)
- **Nov 27-Dec 1:** [The 8th International Conference on Drylands, Deserts & Desertification: Learning from Drylands: A Global Effort Towards Ecosystem Restoration](#)
- **Nov 30:** [Native Voices in STEM Fall 2022 Seminar Series: Featuring Dr. Raymond Torres – Save the Date](#)
- **Jan 15, 2023:** [Campus Sustainability Fund Annual Grants – Preliminary Application Deadline](#)
- **May 8-9, 2023:** [Water for Food Global Conference: Cultivating Innovation: Solutions for a Changing World](#)
- **Jun 13-15, 2023:** [UCOWR/NIWR 2023 Annual Water Resources Conference](#)

OTHER NOTICES

The Water Desk is **now accepting applications** for grants of \$2,500 to \$10,000 to support media outlets and individual journalists covering water issues related to the

Colorado River Basin. The deadline for applications for the 2022 grants is Wednesday, September 21, 2022, at 11:59 pm Pacific.

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

[Contact us here](#)