

WEEKLY WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION

**WATER RESOURCES
RESEARCH CENTER**



January 21, 2022 / Volume 10, Issue 3

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. [Subscribe to the Weekly Wave.](#)

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Reflections, New Water Funding, Photo Contests, APW, Glen Canyon, Tucson Water



Photo: Central Arizona Project

**Reflections: On Connecting Land Planning
and Water Planning**

Land planners and water planners often work in separate silos. Though all recognize that different land uses have different water requirements, land use decision-making may not be tightly connected to water resource planning. I remember some years ago noting that land use planners were often sparsely represented at water dialogues, with the reverse also true. The lack of connection is understandable considering the differences in background and focus between the two professions. Planning professionals are very busy attending to the day-to-day requirements of their positions, along with other professional responsibilities, such as participating in focused meetings and conferences.

[Read More](#)

EVENTS

Native Voices in STEM Spring 2022 Seminar Series: Utilizing Diné Science and Innovation to Tackle Longstanding Water Challenges in Diné Communities

Date: January 24, 2022

Time: 3:00-4:00 pm Arizona Time

Location: [Webinar Only](#)



Speaker:

Ranalda L. Tsosie, *Post-Doctoral Fellow, University of Montana*

Dr. Tsosie is a post-doctoral scholar at Montana State University in Bozeman, MT. She is currently working on a point of use filter optimization project and continuing to work with Indigenous communities and water challenges. Dr. Tsosie completed her PhD in Interdisciplinary Studies with subject emphasis in the fields of Chemistry, Geosciences, and Environmental Science/Studies from the University of Montana. In her free time, she enjoys beading, sewing, and practicing traditional Diné arts.

[Zoom Link](#)
[More Info](#)

Brown Bag Webinar: Recent Research on Policies for Managed Aquifer Recharge in Mexico

Date: February 2, 2022

Time: 12:00-1:15 pm Arizona Time

Location: [Webinar Only](#)



Speaker:

Mary-Belle Cruz Ayala, PhD, *WRRC Postdoc, US-Mexico Transboundary Aquifer Assessment Program*

In Mexico, groundwater availability has been decreasing, especially in arid and semi-arid regions. One way to address this decline is using Managed Aquifer Recharge (MAR) to boost aquifer recharge with stormwater or treated wastewater. Considering the impact that climate change can have on natural recharge, the implementation of MAR efforts in the

Northwest region of Mexico would help maintain environmental services, halt seawater intrusion, and act as a source for potable service. However, according to state and municipal water managers, implementing MAR effectively would require improvements in the Mexican legal framework, aquifer recharge policies, and financial programs.

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

Upcoming Events

Feb 15: Brown Bag Webinar: Colby Pellegrino, *Deputy General Manager of Resources, Southern Nevada Water Authority*

Feb 16: [WRRC Chocolate Fest 2022](#)

Mar 15: Brown Bag Webinar: Rio Reimagined: Reconnecting the Salt River With the Valley's Metropolitan Communities

April 7: Brown Bag Webinar: Public Interest, Indigenous Rights, and the Los Angeles Aqueduct; Sophia Borgias, *Assistant Professor, Interdisciplinary Programs, Boise State University*

Apr 19: Brown Bag Webinar: Carlos de la Parra, *Research Professor of Urban and Environmental Studies, El Colegio de la Frontera Norte*

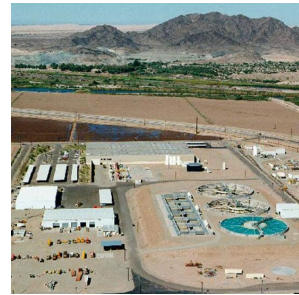
NEWS

Arizona to Make Major Investment in Water Supply

During his State of the State Address, Arizona Governor Doug Ducey spoke about a new plan to invest \$1 billion “to secure Arizona’s water future for the next 100 years.” The plan builds on the state’s past water policy accomplishments with investments aimed at expanding water supply in ways that make AZ more resilient to drought while allowing for continued growth.

Over the next three years, the \$1 billion investment from the General Fund will bolster the Drought Mitigation Fund; lay the foundation for new large-scale water augmentation projects, including desalination; encourage further reuse and conservation; integrate advanced technologies into water management. Although short on details, the address made clear that the Governor and legislative leaders agree on making water infrastructure a priority.

Image: Yuma Desalting plant, Reclamation



[Transcript of Gov Ducey's SOS Address](#)
[Press Release](#)

WSP Groundwater Photostory Competition

Groundwater is a crucial resource worldwide and its importance cannot be understated. Water Science Policy (WSP), which conducts independent journalism on water and sanitation, is hosting a photostory contest to raise awareness about groundwater and its role in our lives. The competition is organized in collaboration with the International Water Resources Association (IWRA), the Global Water Partnership (GWP), and the UNESCO World Water Assessment Programme (WWAP). The contest is part of a project affiliated with the Sony World Photography Awards 2021, and the photos will be used to create a groundwater-themed photobook. The selected winners will be announced on World Water Day and will be awarded a cash prize in addition to the publication of their photostories. Submissions should include 5-15 captioned photos and a short water story. The entry deadline is February 20, 2022.



Water photography fans have more to look forward to in February! The WRRRC will announce the winners of our 2021 Photo Contest at the 18th Annual WRRRC Chocolate Fest. We invite you to join us from 4:00 - 5:00 pm MST on Wednesday, February 16 to celebrate our contest winners, the 20-year service of our director, chocolate, and of course water.

Image: Water Science Policy

[More Info](#) [WRRRC Chocolate Fest](#)



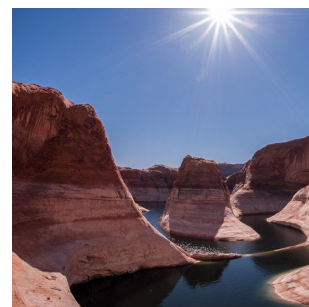
Our Water Festival Team is Complete!

We are excited to introduce Lauren Marks as AZ Project Wet's new Instructional Specialist for AZ Water Festivals! As an Arizona native with more than 10 years of experience in environmental conservation and education, she is excited to continue her passion and connection with the community. Lauren received her BS in Biology from Northern Arizona University and was fortunate to spend several years doing field work for a multitude of nonprofits and universities across the country before returning to Phoenix. She considers herself a multifaceted naturalist with areas of expertise in Sonoran Desert ecology, botany and horticulture, avian sciences, and vermiculture. In her spare time, Lauren enjoys hiking, tending her micro-homestead, geeking with fellow cactus nerds, and making ceramic art.



Hidden Treasures Revealed by Western Drought

Glen Canyon, at the border of Utah and Arizona, was described by Edward Abbey as “a portion of Earth’s original paradise.” As the decades-long drought continues to impact water resources throughout the west, the dropping water levels in Lake Powell have revealed sections of the canyon hidden by the reservoir for decades. A recent story by National Public Radio (NPR) explores the emerging landscape and land use challenges posed by a changing climate and concerns about Glen Canyon's future. The article considers the numerous resources



that Glen Canyon provides, including water storage for the millions living in Arizona, California, Nevada, and Utah, and a profitable outdoor recreation and tourism industry. But, as the article points out, these resources are threatened as the water level drops. After the US Bureau of Reclamation issued a historic Tier 1 Shortage declaration last year, Journalist Nathan Rott noted a shift in attitudes toward embracing a drier, shallower future for Lake Powell. Environmentalists have long advocated, like Abbey, removing the dam and restoring the Colorado River to its natural flow to expose the rock formations that for decades have been under water. The article discusses the Fill Mead First policy being promoted by environmentalists, which would allow the river to flow unimpeded downstream to fill Lake Mead before diverting water into Lake Powell. Alongside testimony from opposing stakeholders, the story published online features stunning photographs and video of the canyon prior to the construction of the dam and how it appears now, highlighting the emergence of long-hidden arches and slot canyons.

Image: Glen Canyon, NPS.gov

[NPR Article](#)

Tucson Water by the Numbers

The City of Tucson's NewsNet Daily Digest recently published statistics about Tucson Water's 2021 deliveries and activities. These stats are a great way to learn more about water in Tucson and the services that Tucson Water provides. Below are some interesting stats from 2021:



- 27.4 billion gallons of potable water delivered
- 152,292 individual water quality sample results collected
- 21,605 fire hydrants served and maintained
- 9 wells drilled, lined, or rehabbed
- 4.4 billion gallons of reclaimed water delivered
- 3,866 customers received conservation rebates
- 41.6 million gallons of water saved due to rebate/incentive programs
- 27,000+ students reached by water conservation education programs

Image: Tucson Water

[More Info](#)

WATER JOBS

UArizona Director, Cooperative Extension [Job Listing](#)

The University of Arizona seeks a strategic and innovative leader to be the next Director of the [UArizona Cooperative Extension System \(CES\)](#).

- WRRRC [Communications Coordinator](#)
- WRRRC [Postdoctoral Research Associate \(RAPIDS\)](#)
- WRRRC [Postdoctoral Research Associate](#)
- City of Peoria [Water Conservation Specialist](#)
- UArizona [Community Outreach Professional \(Sierra Vista, AZ\)](#)
- ADWR [Hydrogeologist 2 \(Hydrology Division/Field Services Section\)](#)
- ADWR [Adjudications GIS Intern \(2 positions\)](#)
- ADWR [Chief Hydrologist/ Hydrology Assistant Director](#)

- Las Vegas Valley Water District [Post-Doctoral Researcher – LTE \(Applied Water Quality Research\)](#)
- Las Vegas Valley Water District [Post-Doctoral Researcher – LTE \(Research Microbiology\)](#)
- Water Education Foundation [Staff Writer](#)

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

ANNOUNCEMENTS

- **Jan 25:** [Water Underground Talks Season 2 – Nomination Deadline](#)
- **Jan 25:** [PFBW Coffee Break: Social and Environmental Justice: The Role of Native Nations in Transboundary Water Resources Conservation](#)
- **Jan 26:** [Spring 2022 UCOWR Roundtable Series: Forever Pollutants: Knowledge Gaps, Risks, and Solutions – Email to RSVP](#)
- **Jan 26:** [Frontiers in Hydrology 2022: Future of Water – Abstract Deadline](#)
- **Jan 26:** [CAP University: Deeper Dive on Finances](#)
- **Jan 28:** [Water Education Foundation 2022 Inaugural Colorado River Water Leaders Program – Application Deadline](#)
- **Jan 28:** [Santa Cruz River Research Days – Abstract Deadline](#)
- **Jan 31:** [UNESCO Groundwater Youth Network \(GWYN\) – Call for Interest Deadline](#)
- **Feb 2:** [WRRC Brown Bag Webinar: Recent Research on Policies for Managed Aquifer Recharge in Mexico](#)
- **Feb 4:** [Fifth National Climate Assessment: SW Chapter Public Engagement Workshop](#)
- **Feb 7:** [US Environmental Protection Agency and Army Corps of Engineers New Proposed Rule for Waters Protected Under CWA – Public Comments Deadline](#)
- **Feb 15:** [Spring 2022 UCOWR Roundtable Series: Utilizing Drones in Research – Email to RSVP](#)
- **Feb 15:** [WRRC Brown Bag Webinar: Colby Pellegrino – Save the Date](#)
- **Feb 16:** [WRRC Chocolate Fest](#)
- **Feb 20:** [Water Science Policy Groundwater Photostory Competition – Submission Deadline](#)
- **Feb 23:** [Free Webinar: Getting to the Heart of Science Communication](#)
- **Feb 23-24:** [The Third International Congress on Desert Economy: Energy Economics between Deserts and Oceans \(Dakhla, Morocco\)](#)
- **Feb 28:** [11th International Symposium on Managed Aquifer Recharge – Early Bird Registration Deadline](#)
- **Mar 1:** [Babbitt Center for Land and Water Policy 2022 Dissertation Fellowships – Application Deadline](#)
- **Mar 1-3:** [Arizona Growing Water Smart Workshop](#)
- **Mar 4:** [2022 AHS Annual Symposium – Abstract Deadline](#)
- **Mar 9:** [Spring 2022 UCOWR Roundtable Series: Aquatic Invasive Species – Email to RSVP](#)
- **Mar 15:** [WRRC Brown Bag Webinar: Rio Reimagined: Reconnecting the Salt River With the Valley's Metropolitan Communities – Save the Date](#)
- **Mar 21-23:** [AWRA 2022 Geospatial Water Technology Conference](#)
- **Mar 22:** [World Water Day 2022](#)
- **Mar 22-24:** [Expo 2020 Dubai, Water Resources Management and Sustainability: Solutions for Arid Regions](#)
- **April 7:** [WRRC Brown Bag Webinar: Public Interest, Indigenous Rights, and the Los Angeles Aqueduct – Save the Date](#)
- **Apr 11-15:** [11th International Symposium on Managed Aquifer Recharge](#)
- **Apr 12-14:** [AZ Water 95th Annual Conference & Exhibition](#)
- **Apr 19:** [WRRC Brown Bag Webinar: Carlos de la Parra – Save the Date](#)

- **Apr 20:** [Spring 2022 UCOWR Roundtable Series: Coastal Water Issues II – Email to RSVP](#)
- **Apr 25-27:** [AWRA 2022 Spring Conference: Water Risk Under a Rapidly Changing World - Evaluation & Adaptation](#)
- **Jun 14-16:** [UCOWR/NIWR 2022 Annual Water Resources Conference](#)
- **Jun 21-24:** [Global Council for Science and the Environment \(GCSE\) 2022 Virtual Conference: Biodiversity, Conservation Science, and Climate Change](#)
- **Sep 11-14:** [AWWA 2022 Water Infrastructure Conference & Exposition](#)
- **Sep 11-15:** [IWA World Water Congress & Exhibition - Water for Smart Liveable Cities \(Copenhagen\)](#)
- **Sep 14-16:** [2022 AHS Annual Symposium](#)

OTHER NOTICES

[NGWA Free Student Memberships](#)

NGWA offers free student memberships to those studying in groundwater-related programs (in both undergraduate and graduate programs), whether in a university, community college, or a drilling school.

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