

WEEKLY WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION
**WATER RESOURCES
RESEARCH CENTER**

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The [Water Resources Research Center](#) - a research and [Extension](#) unit of the [College of Agriculture and Life Sciences](#)

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WRRC 2018 - Luncheon Panel Highlights Binational Cooperation

The upcoming WRRC Conference, *The Business of Water*, will feature an exciting panel discussion during the luncheon session. Edward Drusina, Commissioner for the International Boundary and Water Commission (IBWC) and Salvador López-Córdova, Chief Environmental Officer for North American Development Bank (NADB) will join moderator Dr. Sharon Megdal for an informative discussion about binational cooperation and the intricacies of cross-border water management. International collaboration to sustainably manage shared aquifers is increasing in importance in arid areas, and the shared border is no exception. The IBWC provides binational solutions to issues such as water ownership, water quality and sanitation, and flood control, which arise during the application of treaties between the United States and Mexico. The NADB, which merged last year with the Border Environment Cooperation Commission (BECC), provides financing and technical assistance to support the development and implementation of infrastructure projects that help preserve, protect and enhance the environment of the border region.

[Agenda](#)

REGISTER AT THE EARLY BIRD RATE

WRRC EVENTS

WRRC Brown Bag - The Inter Tribal Council of Arizona: Addressing Water and Natural Resource Issues in Arizona

February 6, 2018

Time/Location: 4:00 p.m. - 5:15 p.m. / Sabino Room, UA Student Union Memorial Center (1303 E. University Blvd.)

Speaker: Maria Dadgar, Executive Director, Inter Tribal Council of Arizona



Arizona tribes take a strong interest in environmental quality and water policy. Maria Dadgar, Executive Director of the Inter Tribal Council of Arizona (ITCA), will begin her presentation with an overview of the ITCA, which was established in 1952 and provides a united voice for tribal governments located in the State of Arizona. In an effort to build the capacity of tribal environmental programs, protect the environment, and safeguard human health, the ITCA leads numerous projects and provides technical expertise and guidance. Ms. Dadgar will describe these programs and will also discuss the ITCA Tribal Leaders Water Policy Council, which broadens tribal leader participation in water policy and builds collaboration with federal, state and regional water resource managers. As a tribal resource and statewide facilitator, the staff of ITCA conducts seminars, workshops, conferences, and public hearings to facilitate the participation of tribal leaders in the formulation of public policy at all levels.

WRRC Brown Bag - Recent Developments in Atmospheric River Science, Predictions and Applications

February 12, 2018

Time/Location: 12:00 p.m. - 1:15 p.m. / WRRC Sol Resnick Conference Room (350 N. Campbell Ave.)

Speaker: Martin Ralph, Ph.D., Director, Center for Western Weather and Water Extremes and Researcher at UC San Diego's Scripps Institution of Oceanography



Key developments have occurred recently on atmospheric rivers (AR). These include advances in observations, physical process understanding, predictions, applications and policies. This presentation will highlight a few of these developments.

- What are atmospheric rivers and why are they important to the Western U.S.?
- Examples of AR with significant impacts in the Western U.S.
- There is skill in AR landfall prediction that could be useful in reservoir operations.

- Atmospheric River Reconnaissance ("AR Recon"): a new airborne targeting approach is under development (including use of aircraft normally dedicated to observation of hurricane activity).
- A critical mass of research and experimental forecast capability, with an emphasis on AR science, predictions and applications, exists at the Center for Western Weather and Water Extremes.



If you can't make it to the seminar on February 12, join us [here](#).

14th Annual WRRC Chocolate Fest

February 16, 2018

Time/Location: 3:30 p.m. - 5:00 p.m. / WRRC Sol Resnick Conference Room (350 N. Campbell Ave.)

Don't miss the 14th Annual WRRC Chocolate Fest! Share your favorite treats and try sinfully spectacular creations from your water friends and colleagues. Also, help us applaud the WRRC's photo contest winners. We received an amazing array of photographs this year, capturing stunning examples of water across the state. Please tell your friends - and let the chocolate festivities begin!



[Event Flier](#)
[Photo Contest Winners](#)

WRRC Brown Bag - Binational Studies of the Transboundary San Pedro and Santa Cruz Aquifers: Results and Future Directions

February 21, 2018

Time/Location: 12:00 p.m. - 1:15 p.m. / WRRC Sol Resnick Conference Room (350 N. Campbell Ave.)



Speakers: **Jacob Petersen-Perlman**, Research Analyst, University of Arizona Water Resources Research Center

James Callegary, Hydrologist, USGS Arizona Water Sciences Center

Elia Tapia, Graduate Research Assistant, University of Arizona Water Resources Center

The Santa Cruz and San Pedro aquifers are important sources of water for the Arizona-Sonora border region. Even though groundwater from these aquifers is an essential resource for social, economic, and environmental needs in both countries, assessments of these aquifers have not been conducted by a binational team until recently. At the Brown Bag, researchers will share information from the binational studies of the Transboundary San Pedro and Santa Cruz aquifers. The studies were conducted in partnership with the USGS, the University of Sonora, and others. The presentation will involve WRRC Staff and members of the USGS-UA team involved with studying the Arizona-Sonora aquifers and will also discuss future directions for studying these aquifers.



If you can't make it to the seminar on February 21, join us [here](#).

Upcoming Brown Bag Seminars

- **Feb. 22** - John Fleck, *Author*
- **Mar. 02** - Steve Nebiker, *VP, Business Development/Marketing, HydroLogics* and Charlie Ester, *Manager of Water Resource Operations - Salt River Project*
- **Mar. 13** - Ben Wilder, *Director, Desert Laboratory on Tumamoc Hill*
- **Mar. 19** - Val Little, *Director, Water Conservation Alliance of Southern Arizona*
- **Apr. 12** - Felicia Marcus, *Chair, California State Water Resources Control Board*
- **Apr. 17** - Chris Castro, *Associate Professor, Department of Hydrology & Atmospheric Sciences, University of Arizona*



OTHER EVENTS

AZ Water Luncheon - AZ PURE Water Brew Update and Special Joint Luncheon with ASCE

February 1, 2018



Time/Location: 11:30 p.m. - 1:00 p.m. / Viscount Suite Hotel (4855 E. Broadway)

Speakers: Jeff Prevatt & Barbara Escobar, Arizona Pure Water Brew Challenge

The AZ PURE Water Brew Challenge is a prize winning project designed to introduce the concept of potable reuse throughout Arizona. With the help of commercial brewers throughout the state, this project tackled the public perception with an informative and educational demonstration about water quality and water management in our state.

Note that sponsorships will allow up to four students to attend this luncheon at no charge, but pre-registration is mandatory. Students interested in this opportunity are encouraged to contact [Carol Johnson](#).

[Register](#)

WRRC NEWS

Scottsdale Water Campus Presented at the WRRC Brown Bag

On January 25, Brian K. Biesemeyer, Scottsdale Water Director, described the history, as well as recent innovations, at the Scottsdale Water Campus. With a current population of 231,000 and a buildout of 285,000 people, the City of Scottsdale has had to create a multi-tiered water portfolio in order to meet water demands. Facilities housed at the Scottsdale Water Campus include a 70 million gallons per day (MGD) CAP water treatment system, a 23 MGD Water Reclamation Facility, and a 20 MGD Advanced Water Treatment system. Mr. Biesemeyer showed schematics of these facilities and also described the recharge and recovery system. A total of 1.7 billion gallons of advanced treated water is recharged into the aquifer each year. Mr. Biesemeyer also described the utility's efforts to educate and engage its customers. Its Water Citizen Academy was named Public Education Program of the year at the 32nd Annual WaterReuse Symposium and its new WaterSmart program allows customers to monitor their water use in comparison to similar homes in their neighborhood as a conservation incentive.



[View Presentation](#)

WRRC lectures on Arizona Water Issues at OLLI

Experts from the WRRC are teaching a class at the Osher Lifelong Learning Institute (OLLI) in Green Valley beginning January 24. The OLLI is a non-credit lifelong learning program open to all adults over the age of 50. The class is called "Current Water Issues in Arizona and Beyond." This marks the fifth year where the WRRC will teach at OLLI about water resources in the Southwestern U.S. The class is being held on Wednesdays from 1:30 to 3:00 at OLLI's Green Valley campus. Classes are "Water Sharing across Borders: Water Issues in the Colorado, Santa Cruz, and San Pedro Basins" (Research Analyst Jacob Petersen-Perlman); "Wastewater: Is It For Drinking?" (WRRC Associate Director Jean McLain); "Agricultural Water Use in Arizona" (WRRC Assistant Director Susanna Eden); "Rainwater Management with Green Infrastructure" (Research Analyst Ashley Hullinger); and "Where's the Water - an Arizona Tour" (Program Director for UA Water, Environmental and Energy Solutions, Claire Zucker).



[More Info](#)

APW's Latest Team Member Serves Maricopa County Communities



Although born in Panama, Joshua Wyrick was primarily raised and educated in the Phoenix area. He joins the APW team in Maricopa County as a UA Wildcat

Corps volunteer bringing with him a love for the outdoors. He believes in the importance of protecting Arizona's finite and precious water supply. Joshua has a degree in Creative Writing and Philosophy from the Virginia G. Piper School of Creative Writing at ASU. He is a champion for the LGBT community and did investigative journalism as a means to help shed light on a variety of important political issues. This experience and passion for educating the community led him to APW. He has had opportunities to be in the field at APW water festivals, imparting vital knowledge about watersheds, as well as in the classroom performing water audits with hundreds of students around the Valley. Of his work with the APW team, Joshua says "I find work in all aspects with APW to be really fulfilling in a way that I haven't experienced with any other organization."



Beyond the Mirage Now YouTube

The prize-winning documentary, Beyond the Mirage - The Future of Water in the West, is now available free of charge on youtube. Created through a WRRRC collaboration with filmmaker and CALS videographer Cody Sheehy and AZPM, the documentary deals with western water issues, focusing on Arizona and the Colorado River, but ranging as far afield as Israel in search of solutions. With a running time of just over 56 minutes, Beyond the Mirage is as engaging and informative view into the world of water. It is also available through Amazon. Visit BeyondtheMirage.org and use its large collection of video clips to build your own documentaries.



[Watch the Documentary.](#)

AWRA Endorses Integrated Management of Fresh Groundwater

Groundwater is the subject of a new Policy Statement released by the American Water Resources Association (AWRA), a professional organization dedicated to advancing multidisciplinary water resources education, management, and research. The Statement affirms the principles of Integrated Water Resource Management (IWRM) and lists 10 IWRM-related actions to be used to advance sustainable groundwater management. These actions include considering ecosystems and groundwater asset protection and using a scientific



base and inclusive governance in decision making. AWRA's Board of Directors approved the Statement on Jan. 13, 2018, with the expressed intention that stakeholders and decision makers within the groundwater community should adopt its principles.

[AWRA Policy Statement](#)

ANNOUNCEMENTS



- [January 27 Friends of the Santa Cruz River - Community Clean Up of Big River-Borne Trash Pile](#)
- [January 29 National Weather Service Pathways - Summer Intern Positions](#)
- [February 2 L'Oréal Women in Science Grants on Trialect - Applications Due](#)
- [February 5 Borlaug CAST Communication Award - Call for Nominations](#)
- [February 8 Watershed Academy Webcast Seminars - Surface Water Toolbox](#)
- [February 9 RFCD Brown Bag - Engaging Citizen Scientists along the Santa Cruz](#)
- [February 14 U.S. Borlaug Summer Institute on Global Food Security - Applications Due](#)
- [February 16 Arid Lands Symposium: Integrating Research into Action- Call for Abstracts](#)
- [February 22-23 Land and Water Summit - Agenda](#)
- [February 23 CONSERVE Summer Intern Program - Application Deadline](#)
- [February 26-27 NGWA Conference on Groundwater Issues and Science Affecting Policy and Management in the Southwest](#)
- [February 28 AWRA Conference on Transboundary Groundwater - Call for Abstracts](#)
- [March 1-2 Two Nations One Water - US-Mexico Border Water Summit \(FREE\) - Registration Open](#)

- [March 3 SRP Water Conservation Expo](#)
- [March 6 BSMAR16 - Registration Open](#)
- [March 25-28 AWWA Sustainable Water Management Conference](#)
- [April 24-26 IFC Flow 2018 - Registration Open](#)
- [April 30 WaterSmart Innovations Conference and Expo - Call for Abstracts](#)

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