

# WEEKLY WAVE



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

**February 9, 2018 / Volume 6, Issue 6**

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

In this issue: [Chocolate Fest](#) / [Brown Bag](#) / [Santa Cruz](#) / [Fellowship](#) / [Study Abroad](#)



## WRRC 2018 Conference Keynote by the Honorable Stephen Roe Lewis

The Water Resources Research Center is excited to feature a keynote address by the Honorable Stephen Roe Lewis, Governor of the Gila River Indian Community, at the WRRC's upcoming annual conference. Adding to this special address, Governor Lewis will be introduced with remarks by UA President Dr. Robert C. Robbins. This year's conference topic, *The Business of Water*, offers an entire day devoted to discussion of the multiple aspects of water in a business context. Topics of infrastructure financing, economics, and the environment will complement Governor Lewis' address, which will focus on the topic of water transactions. The conference is being held at the UA Student Union on March 28, 2018. Registration is open, and now available at a limited-time early bird rate. Join the conversation and make it your business to delve into *The*

Business of Water on March 28th!

[Register Here](#)

*Photo: Governor Stephen Roe Lewis speaking at the 2015 WRRRC Conference*

## WRRRC EVENTS



WRRRC CONFERENCE  
**THE BUSINESS  
OF WATER**

**TAKE ADVANTAGE OF  
THE EARLY BIRD RATE!**

**REGISTER  
HERE**

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

**February 12, 2018**

**Time/Location:** 12:00 p.m. - 1:15 p.m. / WRRRC 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.
- AR landfall prediction that could be useful in reservoir operations.
- Atmospheric River Reconnaissance ("AR Recon"): a new airborne targeting approach (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](#).

### WRRRC 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 Research 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 by the USGS and WRRC in partnership with the University of Sonora and others. The presentation will also discuss future directions for studying these aquifers.



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

## WRRC Brown Bag - How Myths and Misinformation Stand in the Way of Solving our Water Problems

February 22, 2018

**Time/Location:** 4:00 p.m. - 5:15 p.m. / ENR2 S107 (1064 E. Lowell St.)

**Speaker:** John Fleck, Director, University of New Mexico Water Resources Program



With another dry year setting in across the West, the challenges of meeting the water supply needs of a growing population while maintaining our rural communities and a healthy environment are again being thrown into sharp relief. The continuing decline of Lake Mead has become a symbol of deepening problems, but there are also less-noticed examples of success - in conserving water, and in sharing in times of scarcity - which we need to understand in order to craft solutions.



Video will be posted on [wrrc.arizona.edu](http://wrrc.arizona.edu) shortly after the presentation.

## Upcoming Brown Bag Seminars

- **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*
  - **Apr. 26** - Cindy Wallace, *Research Geographer, USGS Western Geographic Science Center*



## OTHER EVENTS

### AZ Water Luncheon - Permanent Canal Closures and Pump Project, New Orleans, Louisiana



**March 1, 2018**

**Time/Location:** 11:30 a.m. - 1:00 p.m. / Hotel Tucson City Center (475 N. Granada, Tucson)

**Speaker:** John Tate, Stantec Consulting Services

The project facilities form one of the largest drainage pumping systems in the world and can operate continuously and independently during major hurricane events. The City of New Orleans was devastated by Hurricane Katrina in 2005. In response, the U.S. Army Corps of Engineers embarked on the \$14.6 billion Hurricane and Storm Damage Risk Reduction system to repair the damage and improve resiliency for the city and surrounding communities.

Sponsorships 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 for Luncheon](#)

## WRRC NEWS

### Do You Like Water and Chocolate? You Are Not Alone!

The WRRC Chocolate Fest is tradition worth celebrating! Next Friday, February 16th, you can bring a delicious delight and end your busy week by musing over the water biz hot topics at the WRRC Chocolate Fest! The idea for this fun event originated in 2004 with Kathy Jacobs, who was working at the WRRC at the time and thinking about the great book "Like Water for Chocolate". After a few lively discussions with Bonnie Colby and Val Little and with Jackie Moxley on board, the idea was born: "Like Water AND Chocolate". It quickly became an annual event - festive decorations and really yummy chocolate treats as well as great chats with fellow water/chocolate lovers coming in from local government, non-profits, and the University. This year, we are also honoring the WRRC 2017 photo contest winners and all 80 fabulous photo entries will be in the slide show.



Bring your favorite chocolate delight to share and join us on Friday, February 16th in the WRRRC Sol Resnick Conference Room (350 N. Campbell Avenue). We will start gathering at 3:30 pm and stay there until all the chocolates gone, or until 5 pm, whichever comes first!

## [Event Flier](#)

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### **Maria Dadgar Presented at WRRRC Brown Bag**

On February 6, Maria Dadgar, Executive Director of the Inter Tribal Council of Arizona (ITCA), presented in the Sabino Room at the UA Student Memorial Center. Established in 1952, the ITCA provides a united voice for tribal governments in Arizona for addressing common issues of concern. The ITCA works with tribal leaders of the 22 federally-recognized tribes throughout the state to build their capacities. Dadgar described how the ITCA provides training and technical assistance to tribes to help them manage their water systems. The ITCA also works to help keep tribal water systems compliant with federal standards and regulations. This is done by offering tribes the opportunity to participate in the ITCA's National Tribal Water and Wastewater Operator Certification Program.



## [View PowerPoint](#)

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### **Bringing the Santa Cruz Back to Life**



Early on a crisp, clear Saturday morning, Arizona Project WET team members joined Natural Restorations, Pima County, the Sonoran Institute, and 120

volunteers, including 69 under the age of 18, to clean up the flowing reach of the Santa Cruz River above Camino Del Cerro Rd. Over the next 4 hours, we hauled trash over the hummocky, uneven ground and up the steep bank to the collection point. It was a tough grind!

So, why did we do it? First, the reclaimed water that flows in the river is high quality. So high that Pima County scientists recently found that endangered Gila Topminnow have found their way back in to the river! Second, Tucson Water is working to put reclaimed water back in the River in the downtown reach!



Watch for the next trash pickup opportunity and get involved. APW is onboard!

## [Learn More About APW](#)

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### **Babbitt Center Dissertation Fellowship Program**



The Babbitt Center for Land and Water Policy works to advance water sustainability through improved land use planning, management, and decision-making. The Babbitt Center's Dissertation Fellowship Program invites applications from doctoral students who are writing dissertations in fields that address the Babbitt Center's

primary interest areas in improving the integration of land use and water management and policy, and related topics. This fellowship program provides an important link between the Lincoln Institute's educational mission and its research objectives by supporting scholars early in their careers.

## [Application Guidelines](#)

### **Study Abroad in Tanzania - Applications Due February 25**

A new University of Arizona study abroad program, Critical Issues in Global Health and Global Water, Sanitation and Hygiene (WaSH), provides an opportunity for students to learn about global health issues within the context of the developing country of Tanzania. This course will prepare students to work in developing countries in the fields of water, sanitation, and hygiene. The program includes 10 weeks of lectures, field research, service learning opportunities and rotations in healthcare districts on the mainland and the big island of Zanzibar, Tanzania.



## [More Information](#)

# ANNOUNCEMENTS



**ARIZONA WATER  
MAP POSTER  
AVAILABLE**

**ORDER HERE >>**

- [Tucson Village Farm - Register for Summer Camp 2018](#)
- [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 18 BSMAR16 - Registration Closes](#)
- [February 22-23 Land and Water Summit - Agenda and Registration](#)
- [February 23 CONSERVE Summer Intern Program - Application Deadline](#)
- [February 26 WaterSmart Innovations Conference and Expo - Call for Abstracts](#)

- [February 26-27 NGWA Conference on Groundwater Issues and Science Affecting Policy and Management in the Southwest - Registration Open](#)
- [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 1-2 Law of the Colorado River](#)
- [March 3 SRP Water Conservation Expo](#)
- [March 9 33rd Annual WaterReuse - Call for Abstracts](#)
- [March 25-28 AWWA Sustainable Water Management Conference](#)
- [April 16 AHS Symposium - Call for Abstracts](#)
- [April 24-26 IFC Flow 2018 - Registration Open](#)

[Visit Our Website](#)