

WEEKLY WAVE



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

October 21, 2016 / Volume 4, Issue 32

The Water Resources Research Center - a research and Extension unit of the College of Agriculture and Life Sciences



AWR Changing with the Times

Twenty-four years ago, the WRRC created the Arizona Water Resources newsletter (AWR) to provide timely, engaging, and useful information on initiatives, projects, resources, legislation, research, and related topics regarding the water resources of Arizona and the region. Throughout these years the AWR has reflected the concerns of the community it serves.

The structure of the AWR has evolved through the years and beginning with the winter 2017 issue, the AWR will be going to an all-digital format. The change will provide increased flexibility, better

efficiency, and reduced waste. To receive the AWR in digital form, please be sure that we have your email address. The easiest way to do that is to subscribe on line at wrrc.arizona.edu/subscribe . You may also call or email the WRRC at 520-621-9591, wrrc@email.arizona.edu.

We hope you have enjoyed receiving our Arizona Water Resource newsletter over the years. Since publishing its first issue in February 1992, we have worked to make the AWR a publication that responds to a recognized need for water resource news, announcements, and in depth features. We plan to continue to fulfill the AWR's founding mission in its new format.



IRRIGATED AGRICULTURE IN ARIZONA: A FRESH PERSPECTIVE

**WRRC CONFERENCE 2017
MARCH 28**

WRRC EVENTS

WRRC Brown Bag Seminar - Potable Reuse for Inland Locations: Pilot Testing Results from a New Potable Reuse Treatment Scheme

October 26, 2016

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

Speakers:

- Jeff Biggs, Administrator, Strategic Initiatives Division, Tucson Water
- Michael Hwang, West Regional Technology Leader for Membranes, CH2M



To meet the needs of the greater Tucson metropolitan area, Tucson Water is exploring potable reuse as a means to diversify and expand their water portfolio. To this end, a six-month pilot test of an innovative and sustainable potable reuse treatment scheme was conducted under a tailored collaboration project between CH2M, Tucson Water, and University of Arizona. This project was funded by the WaterReuse Research Foundation (WRRF-13-09). This Brown Bag Seminar will present an overview of the treatment scheme, as well as the major results and conclusions from the pilot study.

To tune into this seminar on October 26, click [here](#).

WRRC Brown Bag Seminar - Arizona Value Integrated Food-Energy-Water

(ARVIN-FEW)

October 31, 2016

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

Speakers:

- Hwee Hwang, PhD Candidate, Department of Civil Engineering and Engineering Mechanics, University of Arizona
- Dr. Kevin Lansey, Professor, Department Head, Civil Engineering-Engineering Mechanics, University of Arizona

Given the many pressures on food, energy, and water (FEW) systems, it is essential that strategies for development and sustainability recognize the inter-dependencies among them. Interactions between FEW sectors and secondary effects of some decisions complicates planning on local and regional scales. Quantitative support to inform decision making is invaluable to provide supporting knowledge/information to expose benefits and costs of infrastructure development and policy implementation for Arizona's FEW systems.

To that end, ARizona Value INtegrated Food-Energy-Water Model (ARVIN- FEW), an economic-engineering system dynamics and optimization models, are under development. ARVIN-FEW produces objective measures of planning success include sustainability metrics and economic efficiency.

To tune into this seminar on October 31, click [here](#).

**WRRC Brown Bag Seminar -
Assessing Water Security at Global
and Local Scales**

November 10, 2016

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

Speaker: Jacob Petersen-Perlman, Research Analyst, WRRC

Ensuring that a readily available supply of water that has an acceptable quality for health, livelihoods, and production continues to be a challenge across the world. This challenge is made greater by increasing demands on water supply, increasing variability in water supplies due to climatic change, and increasing construction of large-scale water infrastructure. Political boundaries crossing watersheds further complicate matters. This presentation discusses water security at two scales: 1) a global assessment of transboundary watersheds more likely to experience hydro-political tensions in future years based upon environmental, political, and economic indicators and 2) a methodology to improve water security at the local level. The presentation will draw from work submitted to the Global Environment Facility's Transboundary Waters Assessment Program and the Regional Environmental Center's WATER SUM project.

To tune into this seminar on November 10, click [here](#).



OTHER EVENTS

▼

Security and Sustainability Forum Webinar

October 24, 2016

Time/Location: 1:30 p.m. to 2:45 p.m. EDT (10:30 a.m. MST)

The Security and Sustainability Forum will host a webinar featuring John Fleck, author of *Water is for Fighting Over and Other Myths about Water in the West*, who will be joined by panelist Dr. Sharon B. Megdal, WRRC Director, and moderator Lucy Moore, a dispute resolution professional. These experts will discuss the bonds being formed to solve the Colorado River Basin's most dire threats. Registration is now open.



To register for this webinar, click [here](#)

SWES Colloquium - Sociology of Environmental Conflict Arising from Unequal Access to Water

October 31, 2016

Time/Location: 3:00 p.m. - 4:00 p.m.
Marley Rm. 230, (1145 E 4 St.)

Speaker: Franck Poupeau

Dr. Franck Poupeau, the Director of the CNRS/UA within the UA College of Science, will present: *Sociology of environmental conflict arising from unequal access to water.*



WRRC Co-Hosting Special Seminar - Thirst for Power: Energy, Water & Human Survival

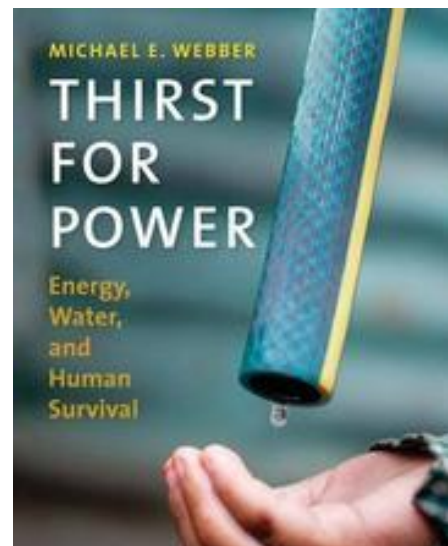
November 15, 2016

Time/Location: 4:00 p.m. James E. Rogers College of Law, Room 168, (1201 E. Speedway).

Speaker: Michael E. Webber, Ph.D.

Dr. Webber, a leader and teacher in the field of energy development and resources, explains how energy and water supplies are linked and how problems in either can be crippling for the other.

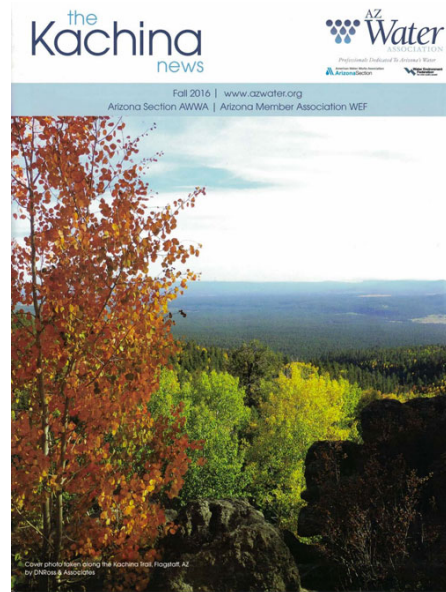
The UA Bookstore will host a book signing in the College of Law's courtyard following this event.



NEWS

Israel and Arizona Connected Through Water Management

The Fall 2016 issue of the Arizona Water Association's Kachina News, features an article entitled *Connecting Israeli Water Management and Technological Innovations to Arizona*. The article highlights the similarities between Israel's and Arizona's water realities as well as opportunities for mutual benefit through collaboration. Israel has a long legacy of water management success and is a recognized world leader in water treatment technology, desalination and water recycling. Likewise, Arizona is known for its rich history of surface water and groundwater management, innovation, and conservation. The Kachina News article, authored by WRRRC Director, Sharon B. Megdal, and Glenn Hamer, president and CEO of the Arizona Chamber of Commerce and Industry and a member of the Governor's Water Augmentation Council, offers perspectives on Arizona's water management and technology in the context of Israeli efforts. Focusing on how Israel and Arizona approach the new frontiers of desalination and reuse, the authors highlight common challenges and common solutions that will help ensure our communities and regions continue to prosper over time.



To read the full article click [here](#)

Brown Bag Seminars by Distinguished Mexican Visitors are Now Available Online

If you were not able to participate or want to reference something presented in either of the special seminars from October 14, by Dr. Fernando González Villarreal and Adriana Palma Nava, those presentations are just a click away. WRRRC records each talk, and when permission is granted, we make it available on the WRRRC Brown Bag page, usually the same day. Viewing past Brown Bag Seminars is easy, just sign in to access.



For these and all other past Brown Bags, click [here](#)

Kerry Schwartz Honored with Project WET Board Appointment



Kerry Schwartz has built water stewardship in Arizona through the development and delivery of STEM instruction as the Director of Arizona Project WET. Now, she has the opportunity to lead other experts in water education on an international level. This month, Kerry was invited to sit on the Board of



Directors for the Project WET Foundation along with Thomas Atkins, Housing Program Director with the USDA, Richard R. Arnold II, Mission Specialist at NASA, and others. As a board member, Kerry will share her experiences running a statewide program and delivering STEM education that addresses real-world and relevant issues and assists in solving water management problems. Her focus on developing critical thinking and deepening cognitive awareness in students will be an asset to the Project WET Board of Directors as they develop programs and education tools to be used nationwide and internationally.



Call for Abstracts

The 2017 Arizona Water Conference and Exhibition will be held May 3-5, 2017 in Phoenix, Arizona. The call for abstracts to present is open until November 4. Based on the number of abstracts submitted last year, there is no anticipation of extending the submittal deadline. This conference offers, technical sessions, operator training courses, and over 200 exhibitor booths, and attracts over 1,500 attendees. Those interested in submitting an abstract should do so prior to November 4.



To submit an abstract for the AZ Water Conference, click [here](#)

The UCOWR/NIWR Conference Planning Committee, which is chaired by WRRC Director Sharon B. Megdal, has announced the call for abstracts for the June 10-15, 2017 conference, *Water in a Changing Environment*, being held in Ft. Collins, CO. Presentations are invited on climate change, water education, flood management, modeling, policy, and other water related topics and should not exceed 300 words. UA faculty and students are encouraged to consider presenting research.

For a complete list of presentation topics or to submit an abstracts, click [here](#).

WRRC Photo Contest Submission Deadline Approaching

We are encouraging photographers of all skill levels to capture this year's theme of "Growing with Water." Submissions can be in either urban or rural Arizona settings...flowers to farms, backyard and community gardens to vast agricultural fields, urban landscapes to mountain hideaways, it's up to you!. Get creative with interesting photo perspectives, unique detail shots, fascinating vistas, and people in action.



The winning photographs will be featured in the Arizona Water Resource newsletter and at the 2017 WRRC Annual Conference. The winners will also be recognized at the February 2017 Chocolate Fest.

To submit an entry by November 4, 2016, click [here](#)

ANNOUNCEMENTS

Second Annual Big Green Event to be Held in Marana, Arizona



On Saturday, November 5, 2016 all things Green will come together for an informational and fun-filled day exploring earth-friendly resources in the community. This is an all-ages event, with admission "cost" of one recyclable or non-perishable food item to support the Marana Food Bank. Don't forget to visit the WRRRC Booth and stop by the library to view the eye-opening documentary, Beyond the Mirage.



For more information on location and event times, click [here](#)

WATER RESOURCES RESEARCH CENTER

Visit Our Website