

WEEKLY WAVE



COLLEGE OF AGRICULTURE & LIFE SCIENCES
COOPERATIVE EXTENSION

**WATER RESOURCES
RESEARCH CENTER**

September 9, 2016 / Volume 4, Issue 26

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



Irrigated Agriculture in Arizona: A Fresh Perspective

The WRRC 2017 Annual conference will be held at the University of Arizona Student Union Memorial Center on March 28, 2017.
(Photo: Mark R. Smith)

Save the Date! and watch the Weekly Wave for more Information!

**WRRC 2017
CONFERENCE**

MARCH 28

EVENTS

Brown Bag Seminar - Groundwater Modeling to Support Water Resources Planning in Clarkdale, Arizona

September 21, 2016

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

Speaker: Laurel Lacher, Ph.D., Owner/Principal, Lacher Hydrological Consulting

Dr. Lacher received undergraduate degrees in English and Geology from the University of Texas at Austin, and a M.S. and Ph.D. in Hydrology from the University of Arizona. She led the White Mountain Apache Tribe's Water Resources Program from 1996 to 2002, where she developed a stream-gaging network and developed and monitored municipal groundwater and surface water supplies. Since 2002, she has served as Principal of Lacher Hydrological Consulting. Her primary focus throughout her career has been conjunctive use of groundwater and surface water.



Brown Bag Seminar - Dam Removal and River Restoration of the Elwha River, Washington: Lessons learned five years into the project

October 6, 2016

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

Speaker: Chris Magirl, Ph.D., Studies Chief, U.S. Geological Survey

With over 20 years of experience researching hydrology and fluid mechanics for both government and industry, Dr. Magirl has worked on fluvial geomorphology, sediment transport, and river ecology issues throughout the western U.S. Before joining the USGS, Dr. Magirl was an R&D project manager and engineer for Hewlett-Packard. He has published over 50 peer-reviewed articles on geomorphology, hydrology, and engineering, and holds six patents.



Seminar - Thirst for Power: Energy, Water, and Human Survival

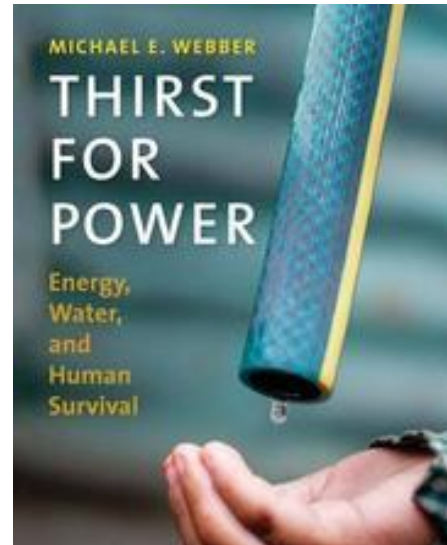
November 15, 2016

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

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

Visibility Initiative Raises Groundwater Awareness

The vast reserves of groundwater as well as its broad geographical distribution, good quality, and frequent availability at or near the point-of-use have made groundwater a key component of many water systems. Nevertheless, its importance has been undervalued and narrowly perceived, making it "invisible" not only to its users, but also to water management policy makers and planners. With the intention of making groundwater "visible" by raising awareness and understanding of groundwater and its interactions with the environment, the National Ground Water Association and the American Water Resources Association held a "Groundwater Visibility Initiative: Integrating Groundwater and Surface Water Management" workshop in Denver, Colorado, in April, 2016. A report from the workshop released late in August highlighted key findings and recommendations for elevating the status of groundwater in the minds of public, policy makers and professionals. The report notes that proper groundwater management involves working with people at all levels and disciplines; data collection is vital; and science is needed on how groundwater systems interact with the surface and are affected by climate change. Groundwater should be incorporated in the portfolios of all water use sectors. In addition, attention should be paid to the rehabilitation and maintenance of infrastructure.

WRRRC Director, Sharon B. Medgal, participated on the advisory committee and as a panelist in this workshop and contributed to the writing of two papers, the first published in the International Association of Hydrogeologists - Fall 2016 Newsletter. The second is scheduled for publication in the September IMPACT, a journal of the American Water Resources Association.

For access to the workshop report and follow-up articles, click [here](#)



AWRA
Community, Conversation, Connections

"Ag Water" App Fills Critical Need for Growers to Meet Food Safety Mandates



In December 2015, the FDA provided updated information on the modified Produce Safety Rule (PSR) requiring growers to test their water sources regularly to determine whether they are safe from a public health standpoint to use on produce. The California-based Center for Product Safety funded research to enable University of Arizona researchers and their partners to develop the "Ag Water" App to help growers meet the nationwide mandates for product safety. The development team led by Channah Rock included collaborators from the UA College of Life Sciences, UA College of Public Health, UC Davis Western Center for Food Safety, App developer Gregory Buczek, and UA University Information Technology Services Mobil Services. Growers only need to input values from sampled water and the App does all the calculations. Another feature of "Ag Water" is that it can predict the quality of the water source in real time by utilizing location, historical water quality and weather information received from UA/CALS Meteorological Network (AZMET) stations in Yuma, Arizona. Designed for the agriculture industry, this app has received overwhelmingly positive responses from stakeholders during test-play at agriculture conferences, meetings, and workshops nationwide.

To view the web-based version of the app, click [here](#)

To read a UA news article on the app, click [here](#)

Connect to Events, Jobs, and Opportunities through the UA Water Network



The UA Water Network web portal connects students, faculty, and the public to UA water activities and resources.

Explore two marquee features of the UA Water Network [website](#): its new Jobs & Opportunities page and its expanded Water Events Calendar.

The [Jobs & Opportunities page](#) contains contributed listings for water-related jobs, grants, and funding opportunities. Students interested in browsing the water jobs market or searching for funding can look here to find a wide variety of opportunities related to water. Faculty and researchers will find grants and funding sources to supplement their own research networks or to support their students. Links to the full announcements, as well as key information such as application deadlines, are highlighted.

The UAWN Water [Events Calendar](#) is one-stop shopping for water-related events at departments and institutions across UA. Pulling from eleven different seminar lists, the UA Water Network consolidates information about water-related colloquia, seminars, and presentations. It allows the user to find UA water events all in one place, including information about important state and national symposiums and workshops.

The UA Water Network is funded by Technology Research Initiative Funds (TRIF) through the Water, Environmental, and Energy Solutions (WEES) initiative. For more information contact WEES Program Director [Claire Zucker](#).

Leading Innovation in Climate Change Education





Ambassadors...that's a good descriptor for members of Arizona Project WET's dedicated team! The ten-member team works to stay abreast of hot topics (no pun



intended) related to water. Tucson Program Coordinator Betsy Wilkening is a prime example. As one of four Education Ambassadors selected by [Climate Generation](#): A Will Steger Legacy nationwide program, Wilkening will receive specialized resources and training, including personalized coaching, webinars, readings, and access to Climate Generation's curriculum. A recent study published by the National Center for Science Education highlighted the importance of equipping educators with the knowledge and resources to teach climate change. The survey of over 1500 middle and high school science teachers revealed that 30% taught students that climate change was likely due to natural causes. Another 31% taught it as unsettled science. It is critical to support teachers in integrating climate change into their curriculum. APW is proud to announce Betsy Wilkening's selection as a Climate Generation Education Ambassador.

WRRC Welcomes Research Analyst, Jacob Petersen-Perlman

The WRRC extends a warm welcome to Jacob Petersen-Perlman, who was recently hired as a Research Analyst for the TAAP (Transboundary Aquifer Assessment Program). Prior to joining the WRRC, Dr. Petersen-Perlman served as a post-doctoral scholar through the Ken Alberman Fellowship in Water, Society, and Geopolitics at Hebrew University of Jerusalem, Israel. He earned his Ph.D. in Geography at Oregon State University, his M.S. in Geography at the University of Montana, and his B.S. in Meteorology at Iowa State University. His research areas of interest include transboundary water conflict and cooperation, water security, and water governance. Welcome Jacob!



2017 Universities Council on Water Resources/National Institute of Water Resources Conference--Call for Special Sessions

The UCOWR/NIWR Conference Planning Committee, which is chaired by WRRC Director Sharon B. Megdal, invites proposals for Special Sessions on the conference topic: "Water in a Changing Environment". Special sessions can be in the form of a panel discussion or a group of four or more oral presentations on a specific topic. Submissions should be sent directly to the Technical Program Chair, Kevin Wagner (klwagner@ag.tamu.edu), by September 23, 2016. This year's conference will be held at Colorado State University in Fort Collins, Colorado



For more information, click [here](#)

Call for proposals for November 2016 Conference Poster

Session

The "Food and Water in Arid Lands: Dialogues across Contemporary and Traditional Knowledge" conference is now accepting proposal submissions until September 23. Proposals should align with the goals of the conference, encouraging dialogues to address the changes in the environment, weather patterns, water resources, food systems, and security.

For more information on this conference, click [here](#)

AWWA Water Infrastructure Conference and Expo

The American Water Works Association will be holding their Water Infrastructure Conference October 30-November 2, 2016 at the Arizona Grand Resort in Phoenix, Arizona. Kathryn Sorensen, Director of Phoenix Water Services, opens the general session explaining why "Infrastructure Matters". This 4-day conference and expo will focus on protecting our infrastructure assets and addressing infrastructure challenges.

To register for the conference, view the technical programs, and view workshops, visit the conference [website](#)

JCWRE Open Call for Manuscripts

The Journal of Contemporary Water Research, a publication of Universities Council on Water Resources (UCOWR), has announced its second open call issue to be published August 2017. Submissions should be sent to crimjac@siu.edu no later than December 15, 2016 for consideration.

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