



TUESDAY, JULY 11, 2023		
9:30-10:30	REGISTRATION AND REFRESHMENTS	
10:30-10:40	<ul> <li>Welcome</li> <li>Sharon B. Megdal, Water Resources Research Center, University of Arizona</li> </ul>	
10:40-11:20	Opening Keynotes: The State of Water in Arizona  • Karen Peters, Director of the Arizona Department of Environmental Quality  • Invitation Pending	
11:20-12:20	<ul> <li>Session 1: Addressing Water Quality</li> <li>Erin Jordan, Arizona Department of Environmental Quality, How Is Surface Water Quality Protected in Arizona?</li> <li>Jason Jones, Arizona Department of Environmental Quality, Assessing the Health of Arizona's Waters</li> <li>Grant Weinkam, Arizona Department of Environmental Quality, Prioritizing Retoration of Arizona's Impaired Waters</li> <li>Joseph Hoover, University of Arizona, Using Mobile Applications to Visualize Water Quality Data for Underserved Communities</li> <li>Moderator: Invitation Pending</li> </ul>	
12:20-1:20	LUNCH	
1:00-1:20	Lunch Program: Central Arizona Project Response to Shortages <ul> <li>Patrick Dent, Central Arizona Project</li> </ul>	

**Updated:** May 26, 2023 1:19 PM

	Session 2: Filling Information Gaps
1:20-2:20	Rachel O'Connor, Environmental Defense Fund, OpenET: Filling a Critical Data     Gap for Sustainable Water Management
	Noah Silber-Coats, USDA Southwest Climate Hub, The Water Adaptation Techniques Atlas: A Catalog of Solutions for the Southwest
	Jessie Pearl, The Nature Conservancy, Success of Water Conservation Actions in Arizona
	Faith Sternlieb, Lincoln Institute of Land Policy, Overview of the Internet of Water (IoW) Coalition and Update on Core Technology
	Moderator: Invitation Pending
2:20-3:20	Session 3: Improving Farming Practices
	Sterling Johnson, Ajo Center for Sustainable Agriculture, Tohono O'odham Traditional Dryland Farming and Crops - Lessons to be Learned for Arizona Water Challenges
	Ethan Orr, University of Arizona Cooperative Extension, University of Arizona     Cooperative Extension's Water Irrigation Efficiency Program
	Ricardo Aguirre, WEST Consultants, Inc., A Solution for Long-Term Water Security in the Southwest
	Debankur Sanyal, University of Arizona, Evaluating Deficit Irrigation for Soil Health and Small-grain Productivity in Arizona
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	Moderator: Jeff Silvertooth, University of Arizona
3:20-3:35	
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WEDNESDAY, JULY 12, 2023		
8:00-9:00	REGISTRATION AND REFRESHMENTS	
9:00-9:15	Welcome  • Sharon B. Megdal, Water Resources Research Center, University of Arizona	
9:15-10:00	<ul> <li>Keynote Panel: The Importance of Inclusive Consultation in Negotiating Solutions</li> <li>Amelia Flores, Chairwoman of Colorado River Indian Tribes</li> <li>Invitation Pending</li> <li>Invitation Pending</li> </ul>	
10:00-11:15	<ul> <li>Session 5: Adapting Policy</li> <li>Rashi Bhushan, University of Arizona, Identifying Policy Barriers Towards a Net Zero Urban Water Future in Southwestern US</li> <li>Tres English, Sustainable Tucson, Sustaining Tucson - Living Within Our Limits</li> <li>Raluca Mihalcescu, Arizona Water Company, Water Conservation: A Viable Part of the Solution for Private Water Utilities</li> <li>Elia Tapia, Universidad de Sonora, Transboundary Aquifers</li> <li>Jake Golden, City of Phoenix, Central Arizona Water Clearinghouse</li> <li>Richeal Young, ERA Economics, LLC, Central Arizona Water Clearinghouse</li> <li>Moderator: Juliet McKenna, Montgomery &amp; Associates</li> </ul>	
11:15-11:30	NETWORKING BREAK	
11:30-12:30	<ul> <li>Session 6: Growing the Workforce</li> <li>Gary Woodard, Water Resources Consulting, Ramping up Regional Conservation Capacity</li> <li>Joshua Ruddick, Arizona Project WET, University of Arizona Cooperative Extension, Career and Technical Education Building Water Related Pathways to a Green Workforce</li> <li>Selwyn Sekaquaptewa, Hopi Utilities Corporation, Hopi Experience with Tribal Workforce Capacity</li> <li>Frank Barbaro, Central Arizona Project, CAP Apprenticeship Program Moderator: Maria Dadgar, Inter Tribal Council of Arizona</li> </ul>	
12:30-1:30	LUNCH	
1:10-1:30	Lunch Program: Navajo Water Project Invitation Pending	

# **Session 7: Utilizing Technology**

- George Bomar, Texas Weather Modification Association, Harvesting the Skies of the American Southwest
- David Proctor, BKW Farms, A Commercial Application of Controlled Environment Agriculture in the Southwest
- Ben Cloud, CEO, Microbial Soil Reclamation
- Robert Pulliam, Tubular Rail Inc., Ocean Imports of Fresh Water for Augmentation of the Colorado River
- **Jing Luo,** Apex Applied Technology, Inc., A STAR Solution to Safe Drinking Water Challenges on Navajo and Hopi Reservations
- Mark Witten, Witten Technologies Inc, Low-Energy Desalination Technology
- **Greg Barron-Gafford,** University of Arizona, *Agrivoltaics*
- Nazario Prieto, City of Phoenix, City of Phoenix Advanced Purified Water Plan

Moderator: Dave Wegner, Woolpert

#### 2:30-2:45

1:30-2:30

### **NETWORKING BREAK - SPONSOR VIDEOS**

## **Poster Session**

- Laura Condon, University of Arizona, *HydroGEN: A Web Based Hydrologic Scenario Generation Platform for a Changing World*
- Tom Smolarek, Cypress Ltd, Advanced Cooling Tower Water Treatment Integrated System to Reduce Water, Waste, Energy and Chemicals
- Robert Masson, Yuma County Cooperative Extension, *Monitoring Sprinkler Water Use on the Farm*
- Ashley Wright, Cochise County Cooperative Extension, Collective Impact: Documenting Small Scale Efforts That Lead to Systems Wide Changes
- **Shaku Nair,** Arizona Pest Management Center University of Arizona, *How is Water Management Related to Pest Management?*
- Melanie Moore, Gowan High School, Robert Masson, Yuma County Cooperative Extension, Student: Building the Water Bank: Moisture Retention Qualities of Soil Amendments in Desert Agricultural Soils
- Sarah Cerra, New Mexico State University, Student: Using Atriplex for RO Concentrate Reuse: Managing Soil Salinity and Microbes
- Courtney Lee, University of Arizona, Student: Designer Biochars for Removal of PFAS from Contaminated Water
- Zoey Reed-Spitzer, University of Arizona, Student: How do Groundwater Levels Vary with Economic and Climate Factors?
- Robert Jimenez-Wieneke, University of Arizona, Student: AZstreamCAT
- Kun Qi, University of Arizona, Student: Flash Flood Simulation Using HEC-HMS Model for an Arid Watershed in Arizona

# 2:45-3:45

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3:45-4:20	Session 8: Portfolio-Based Approach
	John Take, Stantec, Portfolio-Based Approaches to Address Near-Term and Long-Term Water Demands
	Moderator: John Take, Stantec
4:20-4:35	Session 9: Arizona State University's Arizona Water Innovation Initiative
	Susan Craig, Arizona State University, ASU's Arizona Water Innovation     Initiative: An Investment in Water & Climate Resilience
4:35-4:55	Keynote: Financing for Water, Wastewater, Stormwater, and Water Conservation Infrastructure Projects
	Chuck Podolack, Director of Water Infrastructure Finance Authority of Arizona
4:55-5:00	CLOSING REMARKS - END OF CONFERENCE