



TUESDAY, JULY 11, 2023		
9:30-10:30	REGISTRATION AND REFRESHMENTS	
10:30-10:40	 Welcome Sharon B. Megdal, Director, Water Resources Research Center, The University of Arizona Robert C. Robbins, President, The University of Arizona 	
10:40-11:10	Keynote: Protecting Water Quality in Arizona Karen Peters, Director, Arizona Department of Environmental Quality 	
11:10-12:10	 Session 1: Addressing Water Quality Erin Jordan, Arizona Department of Environmental Quality, How Is Surface Water Quality Protected in Arizona? Jason Jones, Arizona Department of Environmental Quality, Assessing the Health of Arizona's Waters Grant Weinkam, Arizona Department of Environmental Quality, Prioritizing Restoration of Arizona's Impaired Waters Joseph Hoover, University of Arizona, Using Mobile Applications to Visualize Water Quality Data for Underserved Communities Moderator: Natalie DeRoock, Tucson Water 	
12:10-1:10	LUNCH	

12:50-1:10

Luncheon Keynote: Central Arizona Project Response to Shortages

• Patrick Dent, Assistant General Manager, Water Policy, Central Arizona Project



Free non-interactive livestreaming

1:10-2:10	Session 2: Filling Information Gaps
	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: Jim Leenhouts, Arizona Water Science Center, US Geological Survey
2:10-3:10	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, 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, Soil Health Management Under Water
	Limited Environments Moderator: Jeff Silvertooth, University of Arizona
3:10-3:25	SPONSOR VIDEOS — NETWORKING BREAK
	Keynote: Managing Groundwater in Arizona
3:25-3:55	Natalie Mast, Active Management Areas Director, Arizona Department of Water Resources
3:55-4:55	Session 4: Working with Nature
	Sarge Green, California Water Institute at California State University Fresno, Optimizing Watershed Conditions for Sustainability
	Kim Schonek, The Nature Conservancy Arizona, Opportunities for Stormwater Recharge in Arizona: Augmentation and Streamflow Benefits
	Xochitl Coronado-Vargas, Tucson Water, Tucson's Green Stormwater Infrastructure Program
	Neha Gupta, University of Arizona, Opportunities to Enhance Recharge in Arizona: A Tri-University Study
	Moderator: Megan Martin, Salt River Project
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4:55-5:00 CLOSING REMARKS - END OF DAY 1

5:30-7:00 RECEPTION - Gentle Ben's Brewing Company, 865 E University Blvd

WEDNESDAY, JULY 12, 2023		
8:00-9:00	REGISTRATION AND REFRESHMENTS	
9:00-9:05	Welcome • Sharon B. Megdal, Director, Water Resources Research Center, University of Arizona	
9:05-10:00	 Keynote Panel: The Importance of Tribal Consultation for Solutions Amelia Flores, Chairwoman, Colorado River Indian Tribes Stephen Roe Lewis, Governor, Gila River Indian Community Terry Rambler, Chairman, San Carlos Apache Tribe Moderator: Sharon B. Megdal, University of Arizona 	
10:00-11:15	 Session 5: Adapting Policy Elia Tapia, University of Sonora, Transboundary Aquifers Rashi Bhushan, University of Arizona, Identifying Policy Barriers Towards a Net Zero Urban Water Future in Southwestern US Tres English, Sustainable Tucson, Sustaining Tucson - Living Within Our Limits Raluca Mihalcescu, Arizona Water Company, Water Conservation: A Viable Part of the Solution for Private Water Utilities Richael Young, ERA Economics, LLC, Central Arizona Water Clearinghouse Stephanie Anagnoson, Madera County, California, Allocations for Water Management on Farms Moderator: Juliet McKenna, Montgomery & Associates 	
11:15-11:30	NETWORKING BREAK	
11:30-12:30	 Session 6: Growing the Workforce Gary Woodard, Water Resources Consulting, Ramping up Regional Conservation Capacity Joshua Ruddick, University of Arizona, Career and Technical Education Building Water Related Pathways to a Green Workforce Selwyn Sekaquaptewa, Hopi Utilities Corporation, Hopi Experience with Tribal Workforce Capacity Frank Barbaro, Central Arizona Project, CAP Apprenticeship Program Moderator: Maria Dadgar, Inter Tribal Council of Arizona 	
12:30-1:30	LUNCH	
1:10-1:30	Luncheon Keynote: Salt River Project's Role in Arizona's Water Future Leslie Meyers, Associate General Manager, Salt River Project	

Session 7: Utilizing Technology

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

Moderator: Dave Wegner, Woolpert

2:30-2:45

1:30-2:30

SPONSOR VIDEOS, NETWORKING, AND DESSERT

Poster Session

- Sarah Cerra, New Mexico State University, Student: Using Atriplex for RO Concentrate Reuse: Managing Soil Salinity and Microbes
- Laura Condon, University of Arizona, HydroGEN: A Web Based Hydrologic Scenario Generation Platform for a Changing World
- Robert Jimenez-Wieneke, University of Arizona, Student: AZstreamCAT
- Courtney Lee, University of Arizona, Student: Designer Biochars for Removal of PFAS from Contaminated Water
- Robert Masson, University of Arizona, Monitoring Sprinkler Water Use on the Farm
- Molly McCandless, New Mexico Tech, Student: Assessing the Potential Impact of Irrigated Agriculture Along the Rio Sonoyta Valley on the Vegetation and Hydrology in the Organ Pipe Cactus National Monument
- Roberto Molina, North American Development Bank, Bay Acres Wastewater Collections System and Wastewater Treatment Plant Expansion in Douglas, AZ
- Melanie Moore, Gowan High School, Robert Masson, University of Arizona, Student: Building the Water Bank: Moisture Retention Qualities of Soil Amendments in Desert Agricultural Soils
- Shaku Nair, University of Arizona, How is Water Management Related to Pest Management?
- Kun Qi, University of Arizona, Student: Flash Flood Simulation Using HEC-HMS Model for an Arid Watershed in Arizona
- Zoey Reed-Spitzer, University of Arizona, Student: How do Groundwater Levels Vary with Economic and Climate Factors?
- Tom Smolarek, Cypress Ltd, Advanced Cooling Tower Water Treatment Integrated System to Reduce Water, Waste, Energy and Chemicals
- Amanda Trakas, University of Arizona, Arizona Water Factsheets
- Ashley Wright, University of Arizona, Collective Impact: Documenting Small Scale Efforts That Lead to Systems Wide Changes

2:45-3:45

3:45-4:20	Session 8: Portfolio-Based Approaches to Address Near-Term and Long-Term Water Demands
	Lauren Hixon, City of Gilbert
	John Kmiec, Tucson Water
	Bill Swanson, Stantec
	Brian Biesemeyer, Scottsdale Water
	John Take, Stantec
	Moderator: Lisa Beutler, 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 Podolak, Director, Water Infrastructure Finance Authority of Arizona
4:55-5:00	CLOSING REMARKS - END OF CONFERENCE

We respectfully acknowledge the University of Arizona is on the land and territories of Indigenous peoples. Today, Arizona is home to 22 federally recognized tribes, with Tucson being home to the O'odham and the Yaqui. Committed to diversity and inclusion, the University strives to build sustainable relationships with sovereign Native Nations and Indigenous communities through education offerings, partnerships, and community service.



Updated: July 7, 2023 9:15 AM