SOUTHWEST GROUNDWATER AND SUSTAINABLE AGRICULTURAL SYSTEMS 2ND ANNUAL SYMPOSIUM

DoubleTree by Hilton Phoenix-Tempe, AZ
January 15 - 17, 2024

KEYNOTE SPEAKERS

Paul Brierley
CEO & Executive Deputy Director
Arizona Department of Agriculture

Paul brings a diverse background expertise, including hands-on experience in family farming, a computer science degree, and a decade as Farm Bureau’s Director of Organization, followed by successful leadership as the founding Executive Director of the University of Arizona’s Yuma Center of Excellence for Desert Agriculture.

Allison Febbo
General Manager
Westlands Water District

Allison has over 25 years of hydrology expertise, she holds a BS in Earth and Atmospheric Science from the Georgia Institute of Technology and an MS in Hydrologic Science from the University of California, Davis.

John Longworth
Sr. Executive Engineer
Advisor to the State Engineer and the NMISCD Director

John possesses a comprehensive background in both technical and policy aspects. With a tenure since 1998 at the New Mexico Office of the State Engineer and the Interstate Stream Commission. He has extensive expertise in interstate compacts, adjudication strategies, legislative representation, water policy, and staff management.

James P. Dobrowolski
National Program Leader
USDA National Institute of Food and Agriculture

Jim leads national initiatives in water and rangeland ecosystems, emphasizing water quality, quantity, and agricultural water security. He manages the AFRI Water for Agriculture Challenge Program, Natural Resources, and Environment (BENRE), and AFRI Climate Variability. Jim represents NIFA on the Surface Water Availability and Quality Subcommittee of CENRS and collaborates with federal water and land management teams.

MONDAY, January 15, 2024
6:00 - 9:00 PM Social Dinner - Culinary Dropout, 149 S. Farmer, Tempe, AZ

TUESDAY, January 16, 2024
8:00 - 9:50 AM Advisory Board Meeting (Concurrent)
9:00 - 9:50 AM Advisory Board Panel: Challenges and Solutions (Mod.: Steven Ostoja)
10:00 - 10:15 AM Welcome Address - Isaya Kisekka
10:15 - 11:15 AM Opening Plenary: Groundwater and Agriculture (Mod.: Sharon B. Megdal)
11:15 AM - 12:00 PM Advisory Board Panel: Challenges and Solutions (Mod.: Steve Ostoja)
12:00 - 1:00 PM Lunch
12:30 - 1:00 PM Keynote Presentation - James P. Dobrowolski (USDA NIFA National Program Leader)
1:00 - 1:50 PM Updates from Objective Leads
1:50 - 2:00 PM Break
2:00 - 5:00 PM Brainstorming Collaboration Opportunities with an Emphasis on Decision-Making
5:00 - 5:30 PM Closing
5:30 - 6:00 PM Break
6:00 - 8:00 PM Dinner & Poster Session

WEDNESDAY, January 17, 2024
7:00 - 7:45 AM Breakfast
8:00 AM - 12:00 PM Field Trip to Ak-Chin Farms
ADVISORY BOARD MEMBERS

Stephanie Anagnoson
Director of Water and Natural Resources, Madera County

Doug Parker
Director, CDWR

Gary Esslinger
Tresure Manager, Yuma Logo Irrigation District of NM

Ajay Goyal
Leader, Flood-MAR Program, CDWR

Amy Kremen
Associate Director, Irrigation Innovation Consortium, CAU

Jesse Roseman
Principal Analyst, Almond Board of California

Julie Maitland
Director, Agricultural Programs and Resources Division, NMDA

Scott Weeks
Senior Environmental Scientist, CDFA

Bryan Hartman
President, BOD, Maricopa-Stanfield Irrigation & Drainage District

Ronald Rayner
Director, Tumbling TRanches AZ

Kirk Humphrey
Director, Westwind Farms CA

Emad Habib
PI, NSF funded HydroLearn Program

Meagan Schipanski
Project Director, Ogallala Water CAP

ADVISORY BOARD MEMBERS

For more information contact fogunmokun@ucdavis.edu

POSTER PRESENTATIONS

Authors
Bird, M., Neau, S., & Nayak, R.
Brickman, S., Moonilall, N., Reis, R., et al.
Chen, C., Roby, M., Sapkota, A., & Kisekka, I.
Elshikha, D. E., & Attalah, S.
Fademi, I., Omer, M., Ghimire, R., et al.
Gaddy, V., Eden, S., & Megdal, S. B.
Gholami F. & Kisekka I.
Ghorbanpour, A. K., Peddinti, S., & Kisekka, I.
Moonilall, N. I., Brickman, S., Reis, R. C., et al.
Peddinti, S. R., & Kisekka, I.
Sapkota, A., Roby, M., & Kisekka, I.
Soriano, M., Benes, S., Quinn, N., et al.
Stackpole, C., Sanyal, D., Arp, T., et al.
Suvočarev, K., Flynn, M. T.-Y., Anika, J. T., et al.
Williams, S. A., Kisekka, I., Megdal, S. B., & Ghorbanpour, A. K.

Titles
Downscaling satellite soil moisture data: assessing multi-sensor agreement with ground truth observations in central valley, California.

4-H water wizards: Bringing the wonders of water science to youth audiences.

Assessing soil nitrate protocols based on electrochemical and optical sensors.

Soil carbon dynamics in response to a gradient of soil health management practice adoption in Napa vineyards.

Evaluating the effects of cover crops on the spatiotemporal soil water dynamics in a young pistachio orchard.

Economic feasibility of developing alternative water supplies for agricultural irrigation.

Comparative analysis of water use, germination, growth, and cotton yield using flood and drip irrigation under variable irrigation rates.

Cover crops, tillage, and organic amendment effects on selected soil quality indicators in irrigated arid cropping system.

Establishing best practices in diversity, equity, inclusion and belonging (DEIIH) in water resources community engagement.

Understanding the impact of water demand on groundwater levels using dynamic factors analysis.

Enhancing evapotranspiration retrieval through integrating remote sensing and optimization.

Characterization of subsurface sediments for recharge site evaluation using a towed geophysical system.

Stacks on stacks on stacks: how do stacked, regenerative practices impact soil physical health in California vineyards?

Assessing the effectiveness of winter flooding in leaching boron out of the root zone of almond orchards.

Spatial and temporal estimation of water status in almond orchard using cosmic ray, remote sensing, and meteorological data.

Unearthing the benefits of cover crops: an analysis of cover crop impacts on soil health, soil physical properties, and hydrological dynamics in a pistachio orchard system.

Examining carbon and water exchange in an irrigated pistachio orchard with cover crops.

Exploring the temperature sensitivity of soil and ecosystem respiration in a pistachio orchard.

Can satellite time series data be predictive of forage yield in high salinity soils?

Cover crops as alternative forage: an initial analysis on seed quality, water use and soil health improvements.

Water and carbon flux measurements over agricultural landscapes.

Modeling the impact of agricultural land management on groundwater in central Arizona.