

Workshop Title: Precision Stress Management Using Soil Moisture Sensing, Plant Monitoring, and Stress-Tolerant Varieties for Water-Limited Agriculture

Date: January 21, 2026

Format: Available in person and through Zoom

Location: The University of Arizona Maricopa Agricultural Center (37860 W Smith Enke Rd, Maricopa, AZ, 85138

Zoom link: <https://arizona.zoom.us/j/85105185082>

Duration: 8:00 am - 04:00 pm

8:00 am - 8:10 am	Registration and Welcome Coffee
8:10 am - 8:25 am	Colorado River Water Review & Update Jeffrey Silvertooth, U of A
8:25 am - 08:50 am	From Traditional to Tech-Enabled: How an Australian Grower Significantly Improved Irrigation Efficiency Michael Forster, Implexx, Australia
08:50 am - 09:15 am	Improved Irrigation using in situ and satellite data METER Group, Carol McFarland
09:15 am - 09:40 am	Sensors for Making Precision Soil Moisture and Soil Potential measurements Terrell Fletcher, Campbell Scientific
09:40 am - 10:05 am	Optimizing Soil Water Management with the Irrometer Brad Adams, Irrometer
10:05 am - 10:30 am	Benefits of Soil Moisture Sensors for Irrigation Management Anna Barr, EarthScout
10:30 am - 10:55 am	Building a Resilient Irrigation Strategy for Water-Restricted Operations Jessica Nuboer, Sensoterra
10:55 am - 11:20 am	Strategies to Avoid Over-Watering When Water is Limited Bruno Quanquin, Stevens Water
11:20 am - 11:40 am	Sap Flux for Precise Water Use in Trees and Herbaceous Crops

	Kahlin Wacker, East 30 Sensors and METER Group
11:40 am - 11:55 am	Irrigation Scheduling with Sap Flux and Water Use Data Eddie Mendoza, Dynamax
11:55 am - 12:20 pm	Q & A and Product Display: Meet Company Representatives All companies
12:20 pm - 1:00 pm	Lunch and networking
1:00 pm - 1:20 pm	Assessing Existing and Developing Cotton Germplasm for Heat Tolerance in the Low Deserts of Arizona Randy Norton, U of A
1:20 pm - 1:40 pm	Precision Cotton Stress Management using Thermal Imaging Prasad Bandaru, ALARC-USDA
1:40 pm - 2:00 pm	Managing Stress for Guayule Latex and Rubber Production Katrina Cornish, ALARC-USDA
2:00 pm - 2:20 pm	Plant Sensing Approaches for Optimized Irrigation and Crop Health Monitoring Bhupinder Singh, U of A
2:20 pm - 2:40 pm	Application of a new thermal dissipation sensor for real-time assessment of plant water stress in pomegranate and nectarine trees Dong Wang, ALARC-USDA
2:40 pm - 3:00 pm	Advantages of Mobile Drip Irrigation Grow more crop with less water Monty Teeter, Dragon-Line
3:00 pm - 3:20 pm	Smarter Irrigation Scheduling Through Novel Capacitance-Probe Enhancements David Sloane, Goanna Ag
3:20 pm - 3:40 pm	Advancing Root-Zone Nitrogen Management: An Innovative Wireless Sensor Approach for Nitrate-N Quantification Ali Mohamed, U of A
3:40 pm - 4:00 pm	Optimizing Crop Water with Soil Sensors and Remote Sensing Diaa Eldin Elshikha, U of A