

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

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| 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 Irrrometer
Brad Adams, Irrrometer |
| 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