

2014 Delta States Irrigation Conference & Tradeshow

Wed. & Thurs., Dec. 17 & 18, 2014 Miner Convention Center – Sikeston, MO



Wed. 8:40 AM **General Session:** *What this USB grant is all about.....* Dr. Jason Krutz, Mississippi State University

SESSION BLOCK 1 -- Wednesday, 9:00 am - 10:20 am

Aquifer Issues [1-A]

A Pump Monitoring Approach to Irrigation Pumping Plant Testing	Merritt McDougall, MS	University of Arkansas
Using Information from your Water Table	Brad Williams	Farmer, Cardwell, MO
Variable Frequency Drives – a primer: Tool for Fluctuating Water Tables	Chris Henry, PhD	University of Arkansas

New Irrigation Ideas [1-B]

What are IWMs & How they are Assisting Mississippi Rice Farmers	Joe Massey, PhD / Earl Kline	YWD / Farmer, Benoit, MS
Aerial Robots (a.k.a., Drones)	AJ Foster, PhD	University of Missouri
Sub-Irrigation: Drains when Wet, Irrigates when Dry	M. Nussbaum, MS / J. Hester, MS	Natural Resource Cons. Serv.

SESSION BLOCK 2 -- Wednesday, 10:40 am - noon

Lessons Learned in Wireless Soil Moisture Monitoring [2-A]

What we've learned about Wireless Monitoring:					
≈ TN perspective	Brian Leib, PhD	University of Tennessee	≈ MS perspective	Lyle Pringle, MS	Mississippi State U.
≈ AR perspective	Chris Henry, PhD	University of Arkansas	≈ MO perspective	Joe Henggeler, PhD	Univ. of MO

Engines/Motors [2-B]

A New Generation of Propane Engines	Gordon Cunningham	Propane Ed. & Res. Council
Diesel Engines and the Tier System	Gary Buenemann	CK Power, STL
Experience in Using Written Pole Motors – True Single-Phase Motors	Steve Jackson	Farmer, Cardwell, MO

Wed. 8:40 AM **General Session:** *Experiences from the Central Plains Irr. Conf.* Dr. Freddie Lamm, Kansas State University

SESSION BLOCK 3 -- Wednesday, 1:30 pm - 2:50 pm

Surface Irrigation [3-A]

Surface Irrigation Facts in Missouri	Dr. Joe Henggeler, PhD	University of Missouri
Furrow Irrigated Rice in Missouri	Dr. Michael Aide, PhD, CSSP	Southeast MO State Univ.
LASER- versus GPS-controlled Land Leveling	Preston Marthey	OptiSurface

Furrow Irrigation & PHAUCET/Pipe Planner [3-B]

Designing Poly-pipe Manifolds: PHAUCET / Pipe Planner	Chris DeClerk	Delta Plastics
Benefits of PHAUCET/Pipe Planner, Wireless Soil Sensors, & other BMPs	Dr. Jason Krutz, PhD	Mississippi State University
PANEL: PHAUCET/ PP & Wireless Soil Sensors, & other BMPs	Moderator: TBA	

SESSION BLOCK 4 -- Wednesday, 3:10 pm - 4:30 pm

Center Pivots [4-A]

Growing Rice with Center Pivots	Earl Vories, PhD, PE	USDA / Ag. Research Service
In-Canopy Distribution of Water	Freddie Lamm, PhD, PE	Kansas State University
Costs to Water Corners / Irr. & the Farm Program	David Reinbott, MS	University of Missouri

Irrigation from the Trenches (what farmers tell us) [4-B]

Irrigation Management Demonstrations in northern Arkansas	Ray Benson, MS	University of Arkansas
What farmers' surveys tell us about irrigated soybean production	Joe Henggeler, PhD	University of Missouri
Drilling a Quality, Affordable Irrigation Well	Jim Cook	Ark-Mo Well Drilling & Service

SESSION BLOCK 5 -- Thursday, 7:30 am - 8:50 am

Wells & Crop Water Usage [5-A]

Five Key Points about Irrigating from MS Alluvial Aquifer	Joe Henggeler, PhD	University of Missouri
Water Usage Studies of Major MS Delta Crops	Joe Massey, PhD	YMD (Yazoo, MS)
Flood Tolerance of Soybeans	Matt Rhine, MS	University of Missouri

Irrigation Scheduling [5-B]

Irrigation Scheduling – Smart Phone App	Gene Stevens	University of Missouri
Irrigation Scheduling – Using Various Moisture Sensors	Lyle Pringle	Mississippi State University
Irrigation Scheduling – Woodruff charts	Andrea Phillips	University of Missouri

SESSION BLOCKS [6-A] & [6-B] and [7-A] & [7-B] (Encore sessions) -- Thursday, 9:10 am - 10:30 am & 10:50 am - 12:10 am (topics TBA)

Thurs. 1:10 PM **General Session:** *Going Forward: Delta States Irr. Con. in the future.* Dr. Lanny Ashlock (USB)/ Jerry Slocum (MSSB)

Thurs. 1:40 PM – 4:30 PM **Concurrent WORKSHOPS:** **Center Pivots** OR **Variable Frequency Drives** OR **Surface Irrigation**