



Ogallala Aquifer Program

Research Consortium for the
Southern Ogallala Aquifer Area

Participants:
Kansas State University
Texas A&M AgriLife
Texas Tech University
West Texas A&M University
USDA-ARS, Bushland
USDA-ARS, Lubbock

2018 Workshop Ogallala Aquifer Program March 27 – 29, 2018 Lubbock, Texas

Tuesday, March 27, 2018

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|---------------|---|
| 1:00-1:15p.m. | Introductions and Workshop Orientation
David Brauer, Manager, OAP, ARS |
| 1:15-1:30p.m. | Plant Gas Exchanges in the Open and Closed System Chambers
Jeff Baker, ARS |
| 1:30-1:45p.m. | Whole Plant Stomatal Responses and Scaling from the Leaf to the Plant
Dennis Gitz, ARS |
| 1:45-2:00p.m. | Experimental Verification of a New Stem Flow Sensor to Measure Cotton Transpiration
Robert Lascano, ARS |
| 2:00-2:15p.m. | The Evolution of Evapotranspiration Measurement – An Overview of the Bushland Large Weighing Lysimeters
Gary Marek, ARS |
| 2:15-2:30p.m. | Informal Break/Discussion |
| 2:30-2:45p.m. | Measurement and Modeling of Evaporation and Transpiration
Paul Colaizzi, ARS |

- 2:45-3:00p.m. **Alternative Methods for Evapotranspiration Estimation**
Jed Moorhead, ARS
- 3:00-3:15p.m. **Break/Refreshments/Informal Discussion**
- 3:15-3:30p.m. **Evaluation and Refinement of Irrigation Algorithms in the SWAT Hydrologic Model**
Yong Chen, Texas A&M AgriLife
- 3:30-3:45p.m. **Panel Discussion**
- 3:45-4:05p.m. **Soil Health**
Veronica Acosta-Martinez, ARS
- 4:05-4:20p.m. **Update on Cover Crops for the Texas High Plains**
Calvin Trostle, Texas A&M AgriLife
- 4:20-4:30p.m. **Afternoon Wrap-up**
- 5:30-6:30p.m. **Supper in Sunset Ballroom B, Informal Meetings**

Wednesday, March 28, 2018

- 7:00-8:00a.m. **Breakfast in Sunset Ballroom B, Informal Meetings**
- 8:00-8:30a.m. **Registration**
- 8:30-8:45a.m. **Introductions and Session Orientation**
David Brauer, OAP, ARS
- 8:45-9:05a.m. **Water Management in Kansas for Agriculture**
Chris Beightel, Kansas Department of Agriculture
- 9:05-9:25a.m. **The Agricultural Economics of Water in Kansas**
Kellen Liebsch, Kansas Department of Agriculture
- 9:25-9:45a.m. **Competitiveness of Texas Agriculture and Water**
Darren Hudson, Texas Tech University
- 9:45-10:05a.m. **Texas Agriculture and Water**
Tom Sell, Combest, Sell and Associates
- 10:05-10:30a.m. **Break/Refreshments/Informal Discussion**
- 10:30-10:50a.m. **Texas Water Development Board: Supporting Groundwater Conservation**
Larry French, TWDB
- 10:50-11:10a.m. **Texas Law and Groundwater**
Tiffany Dowell-Lashmet, Texas A&M AgriLife
- 11:10-11:45a.m. **Discussion**
- 12:00-1:00p.m. **Lunch in Sunset Ballroom B, Informal Meetings**
- 1:00-1:15p.m. **Seasonal Water-Level Fluctuations of the Ogallala Aquifer**
John Stout, ARS
- 1:15-1:30p.m. **Depth to Static Water Level: What does it mean?**
David Brauer, OAP, ARS
- 1:30-1:45p.m. **Technology Transfers Events Celebrating 40 Years of Center Pivot Research**
Freddie Lamm, Kansas State and Dana Porter, Texas A&M AgriLife
- 1:45-3:00p.m. **Exercises regarding the Dobzhansky Template**
- 3:00-5:00p.m. **Poster Session in Horizon Ballroom (upstairs)**
- 5:30-6:30p.m. **Supper, Informal Meetings**
- 6:30-8:30p.m. **OAP Leadership Team Meeting, Moody Boardroom**

Thursday, March 29, 2018

7:00-8:00a.m.	Breakfast, Informal Meetings
8:30-8:40a.m.	Breakout Sessions Charge 1: Biggest changes since 2003; 2: Biggest changes in the next 10 years (2030) D. Brauer, Manager, OAP, ARS
8:45-10:00a.m.	Breakout Sessions
10:00-10:15a.m.	Break/Refreshments/Informal Discussions
10:15-10:40a.m.	Report Outs and Charge 3: What are research questions/ Dobzhansky Template to meet emerging changes?
10:40-11:30a.m.	Breakout Sessions
11:30-12:00a.m.	Report Outs Lunch
12:00-12:45p.m.	Lunch in Sunset Ballroom B, Informal Meetings
12:45-1:00p.m.	Wrap Up for 2018 OAP Conference D. Brauer, Manager, OAP, ARS

Ogallala Aquifer Program

Recipient of
The 65th Annual Secretary's Honor Awards
for Sustaining Rural Prosperity Across the
Drought Prone Southern High Plains
(USDA 2013)

Institutional Contacts for Ogallala Aquifer Program

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For additional information about the Ogallala Aquifer Program, visit us at
<https://ogallala.tamu.edu/>