

Marena, Oklahoma In Situ Sensor Testbed (MOISST) 3rd Spring Workshop

May 29, 2013

Room 374 Agricultural Hall, Oklahoma State University, Stillwater, Oklahoma

Workshop Goals:

1. Explore the strengths and limitations of existing and emerging soil moisture monitoring methods (e.g. COSMOS, GPS-IR, DTS).
2. Identify cross-cutting research needs.
3. Plan MOISST-related research activities for the next 12 months.
4. Advance the science and practice of soil moisture monitoring through communication and collaboration.

Workshop Agenda:

Time	Topic	Speaker
8:00	Introductions and orientation	Tyson Ochsner, Oklahoma State Univ.
8:10	Welcome	Dave Porter, Dep. Head, Plant and Soil Sciences
8:15	MOISST goals and timeline	Mike Cosh, USDS-ARS Beltsville, MD
8:30	DTS	Chadi Sayde, Oregon State Univ.
9:00	GPS	Eric Small, Univ. of Colorado
9:30	COSMOS	Marek Zreda, Univ. of Arizona
10:00	Coffee Break	
10:30	TDR	Steve Evett, USDA-ARS Bushland, TX
11:00	Eddy Covariance/Phenocam	Jeff Basara, Univ. of Oklahoma
11:30	Sensor Intercomparison	Mike Cosh, USDS-ARS Beltsville
12:00	Lunch	
1:00	JFSP sensor network	Tyson Ochsner, Oklahoma State Univ.
1:20	ARM SGP soil moisture network	Daniel Hartsock, DOE ARM SGP
1:40	Oklahoma Mesonet soil moisture network	Brad Illston, Univ. of Oklahoma
2:00	Spatial scaling of soil moisture across vegetation types	Duncan Wilson, Oklahoma State Univ.
2:20	MOISST-related research needs and plans	Group discussion
2:40	Coffee Break	
3:00	Multi-step outflow apparatus for sensor calibration	Paolo Castiglione, Decagon Devices, Inc.
3:20	Heat transfer theory for DTS applications	Gerard Kluitenberg, Kansas State Univ.
3:40	COSMOS and vegetation	Brian Hornbuckle, Iowa State Univ.
4:00	Evaluation of a root zone TDR sensor	Xiuli Xin, Chinese Acad. of Science
4:20	Real-time model-data synthesis for soil moisture	Andres Patrignani, Oklahoma State Univ.

Post-workshop dinner:

6:00 Group dinner, "The Cellar" at Brooklyn's restaurant, 701 S. Main, Stillwater, OK

After hours options:

Zannotti's Wine Bar, 113 W. 7th Ave., Stillwater, OK

Aspen Coffee Company, 111 W. 7th Ave., Stillwater, OK