The 2014 Workshop at MOISST: Advancing Soil Moisture Science and Applications

Wednesday-Thursday, June 4-5, 2014 Jones Seminar Room, ConocoPhillips OSU Alumni Center Oklahoma State University, Stillwater, Oklahoma

Name	Institution	Presentation Title	Time
	Wel	come Session	
Tyson	Oklahoma State	Welcome and orientation	8:30 a.m.
Ochsner	University		
Jim Wicksted	Oklahoma State	Oklahoma NSF EPSCoR	8:40 a.m.
	University	Research Infrastructure	
		Improvement Award	
Mike Cosh	USDA-ARS	A brief history of MOISST	8:50 a.m.
	Beltsville, MD		
	Advances in So	oil Moisture Monitoring	
M. Can Vuran	University of	Wireless underground sensor	9:00 a.m.
	Nebraska	networks for obstruction-free	
		and permanent soil moisture	
		monitoring	
Trenton Franz	University of	Understanding the cosmic-ray	9:30 a.m.
	Nebraska	neutron probe petrophysical	
		transform	
Steve Evett	USDA-ARS	Precipitation, irrigation and	10:00 a.m.
	Bushland, TX	crop growth Signals in	
	,	COSMOS Data	
	Mid-morning break (s	snacks and beverages provided)	
Susan Steele-	Delft Technical	Soil moisture estimation using	11:00 a.m.
Dunne and	University	passive DTS: Theory	
Jianzhi Dong		development and field	
		application	
Chadi Sayde	Oregon State	Soil moisture estimation using	11:30 p.m.
	University	active DTS at MOISST	
	Lunch break (lı	unch on your own off site)	
	Innovative Applica	ations of Soil Moisture Data	
Steven	Texas A&M	The North American Soil	1:30 p.m.
Quiring	University	Moisture Database: its	
		development and applications	
Trent Ford	Texas A&M	Understanding the	2:00 p.m.
	University	relationships between near-	
		surface and root zone soil	
		moisture	
Todd	University of Texas	Soil moisture, drought and	2:30 p.m.
Caldwell		water resources in Texas	

Mid-afternoon break (snacks and beverages provided)					
J.D. Carlson	Oklahoma State	Weather and soil moisture	3:30 p.m.		
and Erik	University	impacts on large Oklahoma			
Krueger		wildfires from 2000-2012			
Briana Sallee	Oklahoma State	Estimating groundwater	4:00 p.m.		
	University	recharge using soil moisture			
		data			
Tyson	Oklahoma State	Group discussion, wrap-up for	4:30 p.m.		
Ochsner	University	the day, and a look ahead			
Group dinner at Tokyo Pot, 108 W. 10 th Ave., 6:00 p.m.					

Thursday, June 5

Understanding Soil Moisture Spatial Variability				
Andres	Oklahoma State	Model-data synthesis for	8:30 a.m.	
Patrignani	University	predicting soil moisture under		
		cropland		
Duncan	Oklahoma State	Soil moisture dynamics in a	8:50 a.m.	
Wilson	University	semi-humid grassland to forest		
		transition zone		
Evan	USDA-ARS	Multi-scale soil moisture	9:10 a.m.	
Coopersmith	Beltsville, MD	model calibration and		
		validation		
Mid-morning break				

MOISST-related Progress and Plans					
Mike Cosh	USDA-ARS	In situ sensor comparisons at	10:00 a.m.		
	Beltsville, MD	MOISST			
Jeff Basara	University of	Integrated Grassland	10:20 a.m.		
and Pradeep	Oklahoma	Observation Systems (iGOS)			
Wagle		at Marena and El Reno			
Patrick Starks	USDA-ARS El Reno,	USDA-ARS soil moisture	10:40 a.m.		
	OK	monitoring in Oklahoma			
Lunch break (lunch on your own off site)					

Field Trip to the MOISST Site Depart for MOISST site (vans available or bring your own vehicle) 12:00 p.m. Walking tour of the site including: the Marena Mesonet station, the 12:30 p.m. active DTS installation, a COSMOS rover, and MOISST core site A Sensor Challenge: A soil pit with a "challenging" clay soil will be 1:00 p.m. provided. Standard soil moisture vs. depth will be determined by the thermo-gravimetric method the preceding day, but not revealed until the end. Bring your best (or worst) soil moisture sensor; try one we have on hand; or even try soil moisture by feel. Prize to the person whose estimated soil moisture profile is closest to the standard.

Adjourn