

## The 2015 Workshop at MOISST: The Dawn of the Soil Moisture Information Age?

Tuesday-Wednesday, June 2-3, 2015

Jones Seminar Room, ConocoPhillips OSU Alumni Center

Oklahoma State University, Stillwater, Oklahoma

*Tuesday, June 2*

<b>Name</b>	<b>Institution</b>	<b>Presentation Title</b>	<b>Time</b>
<b>Welcome Session</b>			
Tyson Ochsner	Oklahoma State University	Welcome and orientation	8:30 a.m.
Ron Van Den bussche	Oklahoma State University	Oklahoma NSF EPSCoR Research Infrastructure Improvement Award	8:40 a.m.
<b>Advances in Soil Moisture Monitoring</b>			
Mike Cosh	USDA-ARS Beltsville, MD	SMAP & MOISST: Past, Present, and Future	8:50 a.m.
Trenton Franz	University of Nebraska	Design of efficient ground based soil moisture monitoring networks using cosmic-ray neutron probes and space-time data fusion	9:15 a.m.
Jason Patton	Oklahoma State University	Perkins to Lahoma: Lessons in calibrating the COSMOS rover over long distances in Oklahoma	9:40 a.m.
<i>Mid-morning break (snacks and beverages provided)</i>			
Chadi Sayde	Oregon State University	Heated fiber optics for measuring soil water content across 0.1-1000 m Scales: The MOISST experience	10:35 a.m.
Richard Cuenca	Oregon State University	Airborne Microwave Observatory of Subcanopy and Subsurface (AirMOSS)	11:00 a.m.
Robert Schwartz	USDA-ARS Bushland, TX	Evaluation of a digital TDR and acquired waveforms for determination of apparent permittivity and bulk electrical conductivity	11:25 a.m.
<i>Group photo then lunch break (lunch on your own off site)</i>			
<b>Innovative Applications of Soil Moisture Data</b>			
Luca Brocca	IRPI Hydrology Research Group	New information content from soil moisture data: rainfall estimation and flood modelling	1:30 p.m.
Trent Ford	Texas A&M University	Maximum temperatures coupled with satellite remote sensing soil moisture: applications for monthly temperature forecasts	1:55 p.m.

Steven Quiring	Texas A&M University	Validation of European Space Agency's CCI soil moisture using the North American Soil Moisture Database	2:20 p.m.
<i>Mid-afternoon break (snacks and beverages provided)</i>			
Evan Coopersmith	USDA-ARS Beltsville, MD	Random errors in soil moisture monitoring with triple collocation at MOISST	3:15 p.m.
Saleh Taghvaeian	Oklahoma State University	Use of soil moisture sensors for improving irrigation management	3:40 p.m.
Brad Illston	University of Oklahoma	Utilizing plant available water as a drought monitoring tool	4:05 p.m.
Tyson Ochsner	Oklahoma State University	Wrap-up for the day, plans for tomorrow	4:30 p.m.
<i>Group dinner at Thai Café, 501 S. Husband St. -- 6:00 p.m.</i>			

*Wednesday, June 3*

<b>Soil Moisture in Special Contexts</b>			
Yohannes Yimam	Texas A&M University	Evaluating and improving representation of soil knowledge in the Noah land surface model	8:15 a.m.
Haly Neely	Texas A&M University	Stony soil moisture dynamics and impacts for meso-scale soil moisture sensors	8:40 a.m.
Christine Hatch	University of Massachusetts	Waiting for wet: Soil moisture in freshwater wetland restoration	9:05 a.m.
Chris Zou	Oklahoma State University	Soil moisture impacts of redcedar encroachment in the Cross Timbers ecoregion	9:30 a.m.
Jeff Basara	University of Oklahoma	Ecosystem and soil moisture controls on flash drought development	9:55 a.m.
<b>Student Poster Session</b>			
Student Poster Session			10:20 a.m. – 11:30 a.m.
Tyson Ochsner	Oklahoma State University	Student poster award and workshop wrap-up	11:45 a.m.

After lunch (on your own), there will be a post-workshop “**Working Group on Soil Moisture Mapping**”. To learn more, please contact Tyson Ochsner, [tyson.ochsner@okstate.edu](mailto:tyson.ochsner@okstate.edu).