



2016 AMS Annual Meeting

NASA Earth Science Technology Office (ESTO)

ESTO-Funded and ESTO-Affiliated Presentations, Posters, and Events

Tuesday, January 12

Presentation J1.4 (11:45 Room 354)

Exploring Methods to Leverage Apache Spark in Meteorological Applications Through the Creation of Scispark

- Kim Whitehall (Chris Mattmann)

Wednesday, January 13

Poster 707 - 18th Conference on Atmospheric Chemistry,

Quantifying "Convective Influence" on Upper Tropospheric and Lower Stratospheric Composition using Lagrangian Trajectories and Aura Microwave Limb Sounder Observations

- Nathaniel Livesey

6th Conference on Transition of Research to Operations Session:

Advances in CubeSats and SmallSats to Improve Earth Science and Weather Forecasting, Session I

(8:30 - 10:00, Room 338/339)

8:30 AM 1.1: *CubeSat Infrared Atmospheric Sounder (CIRAS)*

- Thomas S. Pagano

8:45 AM - 1.2: *MISTiC Winds, a Micro-Satellite Constellation Approach to High Resolution Observations of the Atmosphere using Infrared Sounding and 3D Winds Measurements*

- K. R. Maschhoff

9:00 AM - 1.3: *New Small Satellite Capabilities for Microwave Atmospheric Remote Sensing: The Earth Observing Nanosatellite-Microwave (EON-MW)*

- William J. Blackwell

9:15 AM- 1.4: *Tropospheric Water Vapor and Cloud ICE (TWICE): Development of Millimeter- and Sub-millimeter Wave Radiometer Instrument for 6U-Class Nanosatellites*

- Steven C. Reising

6th Conference on Transition of Research to Operations Session:

Advances in CubeSats and SmallSats to Improve Earth Science and Weather Forecasting, Session II

(10:30 - 12:00, Room 338/339)

10:30 AM - 2.1: *RainCube, a Constellation of Precipitation Profiling Radars in CubeSat*

- Eva Peral

10:45 AM - 2.2: *Development of a Three-Frequency Spaceborne Radar for Cloud and Precipitation Measurement*

- Gregory A. Sadowy

11:00 AM - 2.3: *A Multi-frequency Wide-swath Spaceborne Cloud And Precipitation Imaging Radar*

- Lihua Li

11:15 AM - 2.4: *Differential Absorption Radar for Water Vapor Sounding*

- Matthew Lebsock (Ken Cooper)

11:45 AM - 2.6: *The Green-OAWL (GrOAWL) Airborne Demonstrator For The ATHENA-OAWL Mission Concept: System Progress And Flight Plans*

- Sara Tucker