# 2012 Young Scientist Symposium on Atmospheric Research

Hosted by: CSU AAAR Student Chapter & The up-and-coming AMS Local Chapter

October 05, 2012 Department of Atmospheric Science Colorado State University Fort Collins, Colorado

# **Schedule of Events**

9:30	Sign-in and Refreshments (ATS Room 100)	
9:50	Welcome and Opening Remarks Christina McCluskey and Lauren Potter	
<u>Session 1 (10:00 - 11:00) Chair: Ezra Levin</u>		
10:00	Addressing Exposure to Industrial Odors in Globeville, Denver Blayne Morgan, University of Colorado at Boulder	
10:15	Spatiotemporal Assessment of Fine Particle Exposures During Commuting Activities Kirsten Koehler, Colorado State University	
10:30	Bioaerosolos in the Remedios River, Mexico City Zitely Tzompa, Colorado State University	
11:45	Refreshment Break	
<u>Session 2 (11:00 – 12:00) Chair: Chris Slocum</u>		
11:00	Synoptic Control of Heavy-Rain-Producing Convective Training Episodes John Peters, Colorado State University	
11:15	Sensitivity of a Simulated Deep Convective Storm to WRF Microphysical Schemes and Horizontal Resolution Annareli Morales, Colorado State University	
11:30	Aerosol-Cloud-Land Surface Interactions and Mesoscale Circulations in an Idealized Modeling Framework <i>Leah Grant, Colorado State University</i>	
11:45	The Hotplate Precipitation Rate Sensor  Adam Wettlaufer, University of Wyoming	

12:00

Lunch

## Session 3 (12:45 - 1:45) Chair: Christina McCluskey

12:45	Effects of particle size and interactions with sulfur dioxide on iron solubility Benton Cartledge, University of Denver
1:00	Investigating Types and Sources of Organic Aerosol in the Rocky Mountains Using Aerosol Mass Spectrometry Misha Schurman, Colorado State University
1:15	Secondary organic aerosol formation from glyoxal during CalNex 2010 Christoph Knote, NCAR
1:30	Thermal Denuder (TD) Treatment for Aerosol Volatility Measurements: A Presentation of the Current Literature  Penny P. Osborne, Colorado State University
1:45	Refreshment Break

### <u>Session 4 (2:00 – 3:00) Chair: Aaron Pina</u>

2:00	The Influence of the MJO on Upstream Precursors to African Easterly Waves Gus Alaka, Colorado State University
2:15	Height variable entrainment in a GCM Walter Hannah, Colorado State University
2:30	An assessment of tropical belt width diagnostics Nicholas Davis, Colorado State University
2:45	The Influence of Small-scale Dynamics on Tropical Cyclone Intensity Christopher J Slocum, Colorado State University

#### Poster Session (3:00 - 3:45) - ATS Weather Lab

Investigation of Atmospheric Coupling with Solar Variances Sam Liner, University of Colorado at Boulder

Difficulties in simulating ice initiation in Arctic stratus James M. Carpenter, Colorado State University

Preliminary Composition Results of Simulated Cloud Photo-Oxidation Studies *Ali Boris, Colorado State University* 

Ice nuclei produced from prescribed fires in Southeastern United States Christina McCluskey, Colorado State University

Characterizing the Influence of Transport Variability on Aerosol Concentrations at Mauna Loa Observatory

Lauren Potter, Colorado State University