

2011 Young Scientist Symposium on Atmospheric Research
Hosted by: CSU AAAR Student Chapter

Friday, 23 September 2011

ATS Room 101
Department of Atmospheric Science
Colorado State University
Fort Collins, Colorado



Schedule of Events

- 10:30 Check-in and Refreshments (ATS Room 100)
- 10:50 Welcome and Opening Remarks
Ashley Evanoski and Lauren Potter, CSU AAAR Student Chapter

Session 1 (11:00 – 12:15) Chair: Sam Atwood

- 11:00 First steps in investigating the sources of nitrate deposition in Antarctica using GEOS-Chem and its adjoint
Hyung-Min Lee, University of Colorado at Boulder
- 11:15 Simulation of polar stratospheric clouds using the WACCM/CARMA model
Yunqian Zhu, University of Colorado at Boulder
- 11:30 Constraining NH₃ emissions using TES NH₃ observations and surface measurements
Liye Zhu, University of Colorado at Boulder
- 11:45 Simulating Titan's aerosols in a three dimensional GCM
Erik Larson, University of Colorado at Boulder
- 12:00 Assessing O₄ cross section uncertainties from AMAX-DOAS and LED-CE-DOAS measurements
Ryan Thalman, University of Colorado at Boulder
- 12:15 Lunch Break

Session 2 (1:00 – 2:30) Chair: Ashley Evanoski

- 1:00 Characterization and nonparametric regression of rural and urban coarse particulate matter mass concentrations in Northeastern Colorado
Nicholas Clements, University of Colorado at Boulder
- 1:15 Measuring evapotranspiration in urban irrigated lawns in two Kansas cities
Kira Shonkwiler, Colorado State University
- 1:30 Ozone exposure of senior citizens living in urban neighborhoods
Vanessa Pineda, University of Colorado at Boulder

- 1:45 Detection of iodine oxide and glyoxal in the tropical free troposphere
Barbara Dix, University of Colorado at Boulder
- 2:00 Development and operational details of an optical hydrogen chloride sensor
Brian Lee and Jordan Rath, Colorado State University
- 2:15 CMAQ adjoint development and initial applications
Matthew Turner, University of Colorado at Boulder
- 2:30 Refreshment Break

Session 3 (2:45 – 4:00) Chair: Lauren Potter

- 2:45 Do the Global Forecast System (GFS) and the North American Mesoscale (NAM) models have displacement biases in their mesoscale convective system forecasts?
Charles Yost, Colorado State University and Texas A&M University
- 3:00 An intraseasonal model for the prediction of Atlantic and East Pacific tropical cyclone genesis
Stephanie Slade, Colorado State University
- 3:15 Comparison of microphysical cloud properties from the FSSP and CDP during the CAMPS field campaign
Aaron Piña, Colorado State University
- 3:30 Comparison of rain retrieval between ECMWF 1D-Var and GPROF algorithms
Fang Wang, Colorado State University
- 3:45 Closing Remarks
- 4:00 Leave for Brewery Tour, if registered
- 4:00 – 5:00 Open discussion period
- 4:45 Brewery Tour at New Belgium Brewing, if registered