MSCAR SCHEDULE

Saturday, October 7th

8:00 am   Check-In   NHB 2nd Floor
9:00 am – 9:10 am   Opening Remarks   NHB Auditorium
9:15 am – 10:30 am   Oral Session I   NHB Auditorium

Remote Sensing of Mesoscale Systems
Urban Environment and Society*

9:15 am   Fine-scale Structure of the 2-3 February 2015 Nor’easter using high-resolution HIAPER Cloud Radar Observations
Andrew Janiszeski

9:30 am   Analysis of PECAN 2015 MCSs utilizing airborne- and ground-based Doppler observations and airborne in-situ microphysical data
Dan Stechman

9:45 am   Novel Radar Observations of Convection near the Sierras de Córdoba, Argentina
Jake Mulholland

10:00 am   Understanding Effects of Forest Revitalization on the Seasonal Albedo Cycle in Ithaca, NY*
Carolina Bieri

10:15 am   Seasonal Variation of the PM2.5 Diurnal Cycle over the Contiguous United States*
Remy CrowleyFarenga

10:30 am – 11:00 am   Coffee Break   NHB 2nd Floor
11:00 am – 12:00 pm   Oral Session II   NHB Auditorium

Observations of Cloud Microphysics
(Part I)

11:00 am   Interactions of aerosols above clouds over the South East Atlantic Ocean. An overview of ORACLES 2017
Rose Miller

11:15 am   Characterizing Drop-Size Distributions of Light Rainfall During LPVEx and ORACLES
Andrew Dzambo
11:30 am  Evaluation of Triple-Frequency Radar Retrieval of Snowfall Properties using Coincident Airborne In-Situ Observations during OLYMPEEx  
Randy Chase

11:45 am  Microphysical Influences on Cold Pool Properties  
Holly Mallinson

12:00 pm – 1:30 pm  Lunch- on your own

1:30 pm – 2:30 pm  Oral Session III  
NHB Auditorium  
Weather and Climate Impacts on the Midwestern United States

1:30 pm  Impact Analysis of Climate Change and Adaptive Management Strategies on Multiple Food Crops Using Two Land Surface Models  
Tzu-Shun Lin

1:45 pm  The Implications of Growing Bioenergy Crops on Water Resources, Carbon and Nitrogen Dynamics  
Xiaoming Xu

2:00 pm  Quantifying the influence of Natural Variability on changes in Temperature Extremes over the CONUS  
Emily Hogan

2:15 pm  The Influence of a Pre-existing Snow Pack on an Extratropical Cyclone  
Robert Fritzen

2:30 pm – 3:45 pm  Poster Session  
NHB Commons

Remote Sensing of Mesoscale Systems

01. Microphysical Analysis of a Quasi-Linear Convective System — A PECAN Case Study 20 June 2015  
Angelica Marchi

02. Hydrometeorological Study over Carcarana River Basin in Argentina  
Sujan Pal

03. Observations of the Thunderstorms Early Life Cycle in southeastern Brazil: Satellite Multi-Channel Model for Warning System  
Lina Rivelli Zea
04. Investigation of Preliminary Results from the SNOWIE Field Campaign  
   **Adam Springer**

05. Role of Multiscale Atmospheric Conditions in the Evolution of Convective Organization during MJO-1 of DYNAMO/CINDY/AMIE  
   **Jeffrey Thayer**

*Urban Environment and Society*

06. Observed Influence of Vegetation Variability and Change on the Climate of South America  
   **Divyansh Chug**

07. Introducing Water Tracers in Noah-MP  
   **Huancui Hu**

08. Assessment of the GEFS/CFSv2 and the Effects of ENSO/NAO on Predictive Skill  
   **Douglas Miller**

09. A neural network based model for peak ionospheric parameters using Radio Occulation Data  
   **Arka Mitra**

10. The Truck Blowover Algorithm for the Pikalert® System  
    **Brittany Welch**

*Observations of Cloud Microphysics*

11. Using Radar Data to Evaluate the Variability of Mass-Dimension Parameters Within Ice Clouds  
    **Joseph Finlon**

*Weather and Climate Impacts on the Midwestern United States*

12. Overview of the Contributions to the Jet Superposition Associated with the 24-26 October 2010 North American Storm Event  
    **Kai Fuahashi**

13. Goose Creek Flux Tower - A flux footprint analysis  
    **Leila Hernandez Rodriguez**

14. Tropical Cyclone-Ocean Interactions in the High-Resolution Community Earth System Model  
    **Hui Li**

15. Atmospheric Pressure Fluctuations in Natural and Wind-Farm Boundary Layers  
    **Aaron Mehner**

16. An Evaluation of Precipitation Extremes from a Sparse Network  
    **Emma Scott**
17. Toward a probabilistic climate change assessment with the Hector simple climate model  
   Ben Vega-Westhoff

18. Historical multi-model analysis of solid precipitation in the Great Lakes region  
   Karlie Wells

19. Relative Impacts of Tropical and Extratropical Forcing on Atlantic Tropical Cyclones in Numerical Model Simulations  
   Chuan-Chieh Chang

   Kevin Gray

21. Creation and Verification of a Short Term, Multi-Model Ensemble Forecast System Using the QuantumWeather® Mesonet  
   Tyler Ritch

22. Spatio-Temporal Changes in Non-Extreme Precipitation Variability over North America  
   Susana Roque-Malo

4:00 pm – 4:50 pm  Open Forum  NHB Auditorium

5:00 pm – 6:30 pm  Break

6:30 pm – 8:30 pm  Keynote Dinner (Uccellini)  Illini Union Ballroom

**Sunday, October 8th**

7:30 am  Check-In  NHB 2nd Floor

8:30 am – 9:30 am  Oral Session IV  NHB Auditorium  
   *Observations of Cloud Microphysics (Part II)*

8:30 am  Climatic Trend in Cloudiness over South Asian Monsoon Region  
   Soumi Dutta

8:45 am  Measurements of the HDO/H₂O Isotopic Ratio in the Asian Summer Monsoon  
   Benjamin Clouser
9:00 am  An Investigation of Entrainment in Developing Thunderstorms with Numerical Simulations  
   Bryan Engelsen

9:15 am  Machine Learning Program to Automatically Classify Ice Crystal Habit  
   Javier Villegas

9:30 am – 10:00 am  Coffee Break  

10:00 am – 11:15 am  Oral Session V  
   The Mesoscale: Short-term Predictability and Long-term Variability

10:00 am  Moisture Discrepancies of WRF Forecasts of Great Plains Nocturnal Low-Level Jet-Driven MCSs during their Initiations  
   Nicholas Vertz

10:15 am  An examination of moist absolutely unstable layers observed during period of elevated convection  
   Paula Sumrall

10:30 am  Perryville Tornado Mesoanalysis  
   Matthew Roark

10:45 am  Impact of Terrain Resolution on Precipitation Formation in a Simulated Orographic Cloud  
   Shaowen Chen

11:00 am  Model Comparison of the 22-24 January 2016 Nor’easter  
   Holly Mallinson

11:30 am – 1:00 pm  Keynote Lunch (Skilling)  

1:00 pm – 1:15 pm  Closing Remarks