

11th Annual Southeast Severe Storms Symposium
Bost Extension Center, Mississippi State University

Friday March 22, 2013

9:00 am- **REGISTRATION**
10:00

10:00 am **Opening Remarks**

10:05 am **Conference Weather Briefing**



Session 1: Radar Applications

Session Chair: Tory Farney

10:15 am **Possible Relationships Between Tornadic Debris Signature Height and Tornado Intensity**
Chad Entremont, Eric Carpenter, and Greg Garrett, National Weather Service, Jackson, MS

10:35 am **Dual-Polarimetric and Atmospheric Profiling Measurements of Convective Snowbands and Atmospheric Waves during PLOWS**
Ryan Wade and Kevin R. Knupp, University of Alabama in Huntsville

10:55 am **Mesocyclone Nomogram and Super Resolution Radar Data**
Thomas L. Salem Jr., President, Memphis Chapter of the AMS/NWA, Memphis, TN

11:15 am **Challenges in Radar Detection and Damage Surveying of the 30 January 2013 Smith Lake, Alabama Tornado**
Anthony W. Lyza, Todd A. Murphy, Kevin R. Knupp, University of Alabama in Huntsville

11:35 am **Observations and Analysis of Atmospheric Waves during the Historic April 27, 2011 Tornado Outbreak**
Todd A. Murphy, Timothy A. Coleman, and Kevin R. Knupp, University of Alabama in Huntsville

11:55 am – **LUNCH**
12:55 pm

Session 2: Severe Weather Operations

Session Chair: John Van Horn

- 12:55 pm ***KEYNOTE PRESENTATION***
The Hectic Days of Late February through Early March 2012
John Gordon, Meteorologist in Charge, National Weather Service, Louisville, KY
General Aviation and Aerial Damage Surveys
John Gordon, Meteorologist in Charge, National Weather Service, Louisville, KY
- 1:45pm **Today it was Our Town**
Lt. Tracy L. Felty, ENP, Saline County, IL, E-911 Director
- 2:15 pm **Role of Baroclinicity and Positive Marine Layer Influx in the “Hattiesburg” Tornado of 10 February 2013**
Brad Bryant and Greg Garrett, National Weather Service, Jackson, MS
- 2:35 pm – **BREAK**
2:55 pm

Session 3: Weather and Society I
Session Chair: Rachael Kroot

- 2:55 pm **Facebook Weather: Make Yourself Irreplaceably “Flawsome”**
Kevin Roth, Meteorologist, KSLA, Shreveport, LA
- 3:15 pm **NWS New Orleans/Baton Rouge IDSS Pilot Project: Impact-Based Decision Support Services in a Marine Environment**
Matthew J. Moreland, Tim Erickson, Angel Montanez, Mike Hill, and Ken Graham,
National Weather Service, Slidell, LA
- 4:00 pm **POSTER SESSION**
- 5:00 pm **End of Day 1**
- 7:00 pm **Mixer - Central Station Grill**

Saturday March 23, 2013

8:00 am – **REGISTRATION**
8:30 am

Session 1: Thunderstorms: Research Through Ground and Remote Sensing Observations
Session Chair: Ryan Hoke

8:30 am **Detailed UAH Observations of Convective Initiation during the Afternoon to Evening Transition Period**
Stephanie Mullins and Kevin Knupp, University of Alabama in Huntsville

8:50 am **Mississippi State University/ NWS Memphis WFO Mobile Sounding Project**
Matthew Reagan, Mississippi State University

9:10 am **Investigation of Vegetation Discontinuities Related to Multiple EF-4 and EF-5 Tornado Scars and Enhanced Convection for 27 April 2011**
Barrett Gutter, Mississippi State University

9:30 am **Observations of the April 27, 2011 EF-5 Producing Supercell and its Interactions with a Thermal Boundary**
Adam Sherrer, University of Alabama in Huntsville

9:50 am – **BREAK**
10:00 am

Session 2: Weather and Society II
Session Chair: Rachele Thomason

10:00 am **NCAA Football Stadiums and Cloud-to-Ground Lightning Probability Assessments**
Nathan Owen, Tory Farney, Rachael Kroot, Matthew Reagan, Lance Watkins, Teri Watkins, Bryce Williams, and Mike Brown, Mississippi State University

10:20 am **Usage of Color Scales on Weather Maps**
Brittany Bryant, Matthew Holiner, Rachael Kroot, Kathy Sherman-Morris, William Bruce Smiley, Lisa Stryjewski, Meaghan Thomas, and Christopher Isaac Williams, Mississippi State University

10:40 am **An Investigation of River Forecasting during Hurricane Isaac**
Katie Landry, NWS Lower Mississippi River Forecast Center, Slidell, LA

- 11:00 am **#Memstorm: Communicating Severe Weather Information Using Social Media**
Erik Proseus, Meteorologist, MemphisWeather.net
- 11:20 am **School's Out for Weather: Early Dismissal in Public School Districts on Potential Severe Weather Days**
Jessica Van Meter, Mississippi State University
- 11:40 am – **LUNCH**
12:40 pm

Session 3: Severe Weather: Forecasting, Communication, and Analysis
Session Chair: Nathan Owen

- 12:40 ****KEYNOTE PRESENTATION****
Meteorological Overview and Initial Scientific Assessment of the Devastating 27 April 2011 Tornado Outbreak
Kevin R. Knupp, Todd A. Murphy, Timothy A. Coleman, Ryan A. Wade, Stephanie A. Mullins, Christopher J. Schultz, Elise V. Schultz, and Lawrence Carey, University of Alabama in Huntsville
- 1:30 pm **Forecasting Significant Tornadoes in the NWS Jackson Area**
Jared Allen, National Weather Service, Jackson, MS, Alan Gerard, Meteorologist in Charge, National Weather Service, Jackson, MS, and Ariel Cohen, Storm Prediction Center, Norman, OK
- 1:50 pm **Investigation of the Variability of Extreme Tornado Climatology**
Tory Farney, Mississippi State University
- 2:10 pm **The Impact of the April 27, 2011 Severe Weather Outbreak on TVA's Radiological Emergency Preparedness Program**
Jennifer M. Call, CCM, Kenneth G. Wastrack, &Toree M. Cook, Tennessee Valley Authority
- 2:30 pm **Preliminary Results and Evaluation from the Threats-In-Motion (TIM) Experiment**
Eric Carpenter, Chad Entremont, and Greg Garrett, National Weather Service, Jackson, MS
- 2:50 pm – **BREAK**
3:10 pm

Session Chair: Tami Gray

3:10 pm **Bernie Rayno, AccuWeather**

3:30 pm **A Career in Aviation Meteorology: The FedEx Perspective**

Erik Proseus, Meteorologist, FedEx Express

3:50 pm **Women in Broadcast Meteorology**

Ashley McDonald, Chief Meteorologist WAKA, Montgomery, AL

4:10 pm **Developing a Career in Broadcast Meteorology**

James Paul Dice, Chief Meteorologist Fox 6, Birmingham, AL

4:30 pm **CLOSING REMARKS**

4:40 pm **END OF THE 11TH ANNUAL SOUTHEAST SEVERE STORMS SYMPOSIUM**

Poster Presentations

A Hydroclimatology of the Green River Watershed in West-Central Kentucky During 1979-2010

Tami M. Gray, Mississippi State University, Mississippi State, MS; and J. D. Durkee, Ph.D

Climatology of Null Severe Outbreak Events

Alyssa Bates, Mississippi State University, Mississippi State, MS

Associating Magnitudes of Severe Weather Diagnostic Variables to Practically Perfect Probabilities of Severe Weather

Chad M. Shafer, and McKenna W. Stanford, University of South Alabama, Mobile, AL

Precipitation Comparison of the Mississippi River Flood of 2011 to the Army Corps of Engineers Project Design Flood

Jared Allen, National Weather Service, Jackson, MS

NWS New Orleans/Baton Rouge IDSS Pilot Project: Impact-Based Decision Support Services in a Marine Environment

Matthew J. Moreland, Tim Erickson, Angel Montanez, Mike Hill, and Ken Graham, National Weather Service, Slidell, LA

March 9 Hawaii Kona Low Case Study

Emily Yates, Western Kentucky University, Bowling Green, KY

A Comparison of High Wind Observations between the Historic October 2010 Mid-Latitude Cyclone and Previous Notable Extra-Tropical Systems

William Paschall, Western Kentucky University, Bowling Green, KY

Geographic Analysis of Tornado Frequency from Landfalling Tropical Cyclones in the State of Florida

Charles E. Roop, Mississippi State University