

National Weather Association

34th Annual Meeting

Meeting Agenda

Held at the *Sheraton Waterside Hotel*, Norfolk, Virginia, October 17-22, 2009.

Preliminary Agenda: 25 September 2009

See the main meeting page <http://www.nwas.org/meetings/nwa2009/> for information on the meeting hotel, exhibits, sponsorships and registration

Authors, please inform the Program Committee at annualmeeting@nwas.org or (757) 469-1876 if any corrections or changes are required in the listing of your presentations or abstracts as soon as possible. Instructions for forwarding your PowerPoint slides via ftp for presentations has been sent to all presenters - contact the program chair with additional questions. This agenda will be updated periodically as changes occur.

THEME: The Future Is Now: New Technologies and Techniques to Support the Weather Enterprise and Society: 2010 and Beyond

Saturday, 17 October 2009

- 1:00pm NWA Registration and Information Desk Opens (Grand Promenade)
- 1:00pm Exhibit room opens for setup (Poplar Hall)

Sunday, 18 October 2009

- 7:30am NWA Registration and Information Desk Opens (Grand Promenade)
- 8:30am Broadcaster Workshop (Stratford Hall)
- 9:00am Exhibits Open (Poplar Hall)
- 12:30pm Second Annual Student Session (York Hall)
- 7:00pm DVD Swap

Broadcaster Workshop (Stratford Hall)

- 8:30am **Welcoming Remarks**
Michael D. Vescio, NWA President, NOAA/NWS Pendleton, OR
- 8:35am **Opening Remarks**
Mike Goldberg, Chair NWA Broadcast Meteorology Committee and Broadcaster Workshop, Richmond, VA and Carl Thormeyer, Co-chair Broadcaster Workshop, KSBW-TV, Monterey-Salinas, CA

- 8:45am Welcome to Norfolk**
Mike Harvey, WTKR-TV, Norfolk, VA
- 9:00am Presenting Weather as a Science to the General Public**
Jack Williams, Freelance science writer-book author, Falls Church, VA
- 9:15am How Social Media is Changing the Way Weather Information is Being Sent**
Brad Panovich, WCNC-TV Charlotte, NC
- 9:30am Leveraging Social Science/Understanding Your Customer**
Dave Freeman, KSNW-TV, Wichita, KS
- 9:45am The Future is Now: Professional Development Opportunities on Demand**
Wendy Schreiber-Abshire, NWA Councilor and Gregory P. Byrd, UCAR/COMET, Boulder, CO
- 10:00am Coffee Break, Exhibits Open**
- 10:30am Severe Thunderstorm Hazard Probability Forecasts**
Joseph T. Schaefer, NWA Past-President '98, Director NOAA/NWS/NCEP Storm Prediction Center, Norman, OK
- 10:45am Evaluating Severe Storms with GR2Analyst**
Josh Korotky, NOAA/NWS Pittsburgh, PA
- 11:00am Snow or Bust: Challenges of Forecasting Snow at the Beach**
Cheryl Nelson, WAVY-TV, Portsmouth, VA
- 11:15am Information for Broadcast Meteorologists from the NWS Storm Prediction Center**
Greg Carbin and Jared Guyer, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK
- 11:30am Significant Weather Events from 2009**
Greg Carbin, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK
- 12:00pm Lunch on your own; Exhibits open**
- 1:30pm Workshop: Advanced Remote Sensing Tools for the TV Broadcaster**
Kevin Scharfenberg, NOAA/NWS Office of Climate Water and Weather Services, Norman, OK,
Sheldon Kusselson, NOAA/NESDIS/OSDPD/SSD Satellite Analysis Branch, Camp Springs, MD and
Gary Ellrod, NOAA/NESDIS (retired), Granby, CT
- 3:00pm Refreshment break; Exhibits open (Poplar Hall)**
- 3:30pm News from the National Hurricane Center**
Bill Read, NWA Past-President '03, Director, NOAA/NWS/NCEP National Hurricane Center, Miami, FL
- 3:50pm HPC Methodologies for Surface Weather Analysis, Storm Summaries and Public Advisories**
Katie Collins, NOAA/NWS/NCEP Hydrometeorological Prediction Center, Camp Springs, MD
- 4:05pm Cloudscapes and Beyond: The View from Above**
H. Michael Mogil, How the Weatherworks, Naples, FL
- 4:20pm Broadcaster Panel Discussion**
- 5:00pm Dinner on your own; Exhibits and Student Poster Session open**

- 7:00pm DVD Swap and Refreshments**
Mike Goldberg, Chair Broadcast Meteorology Committee, Richmond, VA and Larry Rice, Chair Broadcast Seal of Approval Committee, Seattle, WA
[Attendees: Please submit your DVDs to the NWA Registration and Information Desk volunteers by 5pm and list your name, address and station on the DVD.]

Second Annual Student Session (York Hall)

- 12:30pm Welcome and Introductions**
Mike Vescio, NWA President, NOAA/NWS Pendleton, OR and Steve Harned, NWA Executive Director, Raleigh, NC
- 12:40pm Career Wake-Up Call**
Jon W. Zeitler, NOAA/NWS Austin/San Antonio, TX
- 1:00pm How to Prepare the Best Resume and Cover Letter**
Elise V. Schultz, NWA Councilor Student Ex-Officio, University of Alabama, Huntsville, AL
- 1:15pm Reality Check: Separating Yourself from the Rest in the Competitive Job Market**
John Gordon, NWA Councilor and Chair NWA Membership & Marketing Committee, NOAA/NWS Louisville, KY
- 1:35pm Critical Skill Sets for Success Required of Aspiring Professional Meteorologists for Today's Job Market and in the Future**
Daniel J. Miller, NOAA/NWS Duluth, MN
- 1:45pm Break (Poplar Hall)**
- 1:55pm Integrating the Critical Skill Sets: A Case Study in High Impact Operations: The January 2008 Ozarks Tornado Outbreak**
John P. Gagan, Chair NWA Weather Analysis & Forecasting Committee, NOAA/NWS Springfield, MO
- 2:10pm How to Prepare For and Deliver an Outstanding Job Interview**
John Ogren, NOAA/NWS Central Region Deputy Director, Kansas City, MO
- 2:30pm A Lifetime of Growth and Success through Mentoring**
Kenneth Carey, Chair NWA Professional Development Committee, Noblis, Inc., Falls Church, VA
- 2:45pm Networking: It Helps Your Career!**
John R. Scala, NWA Immediate Past President and Chair Strategic Planning Committee, WGAL-TV, Lancaster, PA
- 3:00pm Refreshment break; Exhibits open (Poplar Hall)**
- 3:30pm Panel Discussion**

Bob Baron, President/CEO Baron Services, Huntsville, AL; Ken Carey, Chair NWA Professional Development Committee, Noblis, Inc., Falls Church, VA; John Scala, NWA Immediate Past President and Chair Strategic Planning Committee, WGAL-TV, Lancaster, PA; Alan Sealls, WKRG-TV, Mobile, AL; John Ogren, NOAA/NWS Central Region Deputy Director, Kansas City, MO; Jon Zeitler, NOAA/NWS Austin/San Antonio, TX; Pat Market, NWA Vice President, University of Missouri-Columbia, Columbia MO; Betsy Kling, WKYC-TV, Cleveland, OH

4:30pm Interview Questions

John Gordon, NWA Councilor and Chair NWA Membership & Marketing Committee, NOAA/NWS Louisville, KY; Bob Baron, President/CEO Baron Services, Huntsville, AL; John Scala, NWA Immediate Past President and Chair Strategic Planning Committee, WGAL-TV, Lancaster, PA; John Ogren, NOAA/NWS Central Region Deputy Director, Kansas City, MO

5:00pm Student Poster Session (Providence Hall); Dinner on your own

Posters:

- P0.01 Modeling Studies of Mesoscale Convective Systems and Tropical Cyclogenesis along the Coast of West Africa.** C. Forbes Tompkins and Dr. Sen Chiao, Florida Institute of Technology, Melbourne, FL
- P0.03 Being Prepared for the Storm: Helpful Hints to Make Your Community StormReady.** Brittany Perrin, Benjamin Herzog and Justin Titus, University of Missouri-Columbia, Columbia, MO and James Kramper, NOAA/NWS St. Louis, MO
- P0.04 Methodology and Assessment of Marine Small Craft Advisories issued by the Baltimore/Washington National Weather Service Office.** Morgan E. Brooks, North Carolina State University, Raleigh, NC and Brandon P. Peloquin and Steven M. Zubrick, NWA President Elect, NOAA/NWS Sterling, VA
- P0.05 A Synoptic Re-analysis of the 4 May 2007 Tornado Outbreak for the Area Concentrated about Greensburg, Kansas.** Michael C. Kochasic, California University of Pennsylvania, California, PA
- P0.06 A Synoptic Re-analysis of the 23 & 24 March 2009 Severe Weather Outbreak in the Midwest.** Chad E. Kachinko, California University of Pennsylvania, California, PA
- P0.07 The Douglas County Georgia Mini Supercell of 7 March 2008.** Sean P. Miller, Georgia Institute of Technology, Atlanta, GA, Steven E. Nelson, NOAA/NWS Peachtree City, GA
- P0.08 Analyses of Radar-Observed Descending Reflectivity Cores in Supercell Thunderstorms.** Cort Scholten and Dr. Leigh Orf, Central Michigan University, Mount Pleasant, MI
- P0.09 Composite Analysis of Cool-Season Severe Weather Outbreaks in the Lower Ohio Valley.** Ruth L. Nahmensen, Charles E. Graves and Chad M. Gravelle, Saint Louis University, St. Louis, MO, Theodore W. Funk, NOAA/NWS Louisville, KY, Patrick J. Spoden, NOAA/NWS Paducah, KY
- P0.10 A Study of In-Cloud and Cloud-to-Ground Lightning in Tornado-Bearing Supercells in the Midwest.** Ben Herzog and Patrick S. Market, NWA Vice President, University of Missouri-Columbia, Columbia, MO
- P0.11 A Synoptic Reanalysis of Severe Weather Outbreak of 10 February 2009 in Texas, Kansas, Oklahoma and Arkansas.** Carl J. Halye, California University of Pennsylvania, California, PA

- P0.12 Observations of Lightning Trends Using the Washington DC Lightning Mapping Array (DC-LMA) and Severe Weather.** Shari Dixon and Gregory Jenkins, Howard University, Washington, DC, Mamoudou Ba, NOAA/NWS/MDL Silver Spring, MD, Steven Zubrick, NWA President-Elect, NOAA/NWS Sterling, VA
- P0.13 Predicting Severe Hail in the WFO LWX County Warning Area: Toward Increased Accuracy in Hail Size Forecasts.** Jeffrey Waters, Ohio University, Gaithersburg, MD and Matthew Kramar, NOAA/NWS Sterling, VA
- P0.14 An Investigation of Teleconnection Patterns Associated with Severe Weather Outbreaks in the Central Plains and Midwest.** Michael J. Folmer, Brandon L. Austin and Timothy P. Eichler, Saint Louis University, St. Louis, MO
- P0.15 Can Large Scale Climate Controls Help Predict Seasonal Tornado Activity?** Brittany Perrin and Anthony Lupo, University of Missouri-Columbia, Columbia, MO and David Enfield, NOAA/OAR/AOML, Miami, FL
- P0.16 Using Thermodynamic Analyses to Verify Forecasts of Thundersnow Events.** Katie Crandall and Patrick S. Market, NWA Vice President, University of Missouri-Columbia, Columbia, MO
- P0.17 The Spatial and Temporal Variability in Snow-to-Liquid Ratio Across Michigan.** Rachel M. Kulik and Martin A. Baxter, Central Michigan University, Mt. Pleasant, MI
- P0.18 Upslope and Lake Effect Snow Climatology along the Mid-Atlantic's Allegheny Front Range.** Joseph P. Wegman, State University of New York at Oswego, Oswego, NY and Brian J. Lasorsa, NOAA/NWS Sterling, VA
- P0.19 Wintertime Lightning Flashes and their Connection to Heavy Snowfall.** Chris Melick and Patrick Market, NWA Vice President, University of Missouri-Columbia, Columbia, MO
- P0.20 Analysis of Flash Flooding Events in the Baltimore-Washington National Weather Service Forecast Office's Area of Responsibility.** Nicholas D. Werner, Pennsylvania State University, Annapolis, MD, Stephen Konarik and Jared R. Klein, NOAA/NWS Sterling, VA
- P0.21 A 15-Year Climatology of Flash Flooding and Elevated Convection for Central Missouri.** AnneMarie Giannandrea and Scott M. Rochette, NWA Councilor, SUNY-Brockport, Brockport, NY and Patrick S. Market, NWA Vice President, University of Missouri-Columbia, Columbia, MO
- P0.23 Re-examination of Northeastern United States Drought Trends and Characteristics.** Marcus D. Walter, SOARS/Cornell University, Ithaca, NY
- P0.24 Skysonde - Data Collection Methods with Skydivers.** Paul Schou and Anjali Reed, University of Maryland, Baltimore County, Baltimore, MD

Student DVD/Resume Critique Session

Session Chairs: Kristine Kahenek, Founder K.Co. Kids LLC, Dallas, TX and Melissa Barrington, Former Broadcaster on The Weather Channel, Miamisburg, OH

8:30pm Tips on How to Put Together a Professional Resume and DVD; Clothing and Makeup Techniques

9:30pm Student DVD Critiques

Annual Meeting General Sessions Monday, 19 October 2009

Stratford/York Hall

7:00am NWA Registration and Information Desk Opens (Grand Promenade)

7:30am Daily Weather Discussion

9:00am Exhibits open (Poplar Hall)

Opening Session and Keynote Address

8:00am **Welcoming Remarks, NWA President's Message and Announcements.**

Mike Vescio, NWA President, NOAA/NWS Pendleton, OR and John Scala, NWA Immediate Past President and Chair Strategic Planning Committee, WGAL-TV, Lancaster, PA

8:15am **Keynote Address**

Bill Read, NWA Past-President '03, Director, NOAA/NWS/NCEP National Hurricane Center, Miami, FL

Tropical Session

Session Chair: Anthony Siebers, NOAA/NWS Wakefield, VA

9:00am **Hurricane Camille's Catastrophic Impact on Virginia: A Look Back on the 40th Anniversary - Where We Are Now, and Where We Are Going.**

Steve Keighton, NOAA/NWS Blacksburg, VA

9:15am **Overview of Vaisala's Long Range Lightning Detection Capabilities and Recent Studies of Inner Core Lightning in Atlantic Tropical Cyclones.**

Nicholas W. S. Demetriades and Ronald L. Holle, Vaisala Inc., Tucson, AZ

9:30am **The Hurricane Severity Index - A New Way of Estimating a Tropical Cyclone's True Destructive Potential**

Chris Hebert, Robert A. Weinzapfel and Mark A. Chambers, Impact Weather, Inc., Houston, TX

9:45am **Satellite-Derived Tools for Inland Rainfall Impacts from Tropical Cyclones**

Sheldon J. Kusselson, NOAA/NESDIS/OSDPD/SSD/Satellite Analysis Branch, Camp Springs, MD; Stanley Kidder and John Forsythe, CIRA/Colorado State University, Fort Collins, CO; and Limin Zhao and Elizabeth Ebert, NOAA/NESDIS/OSDPD/SSD Centre for Australian Weather and Climate Research (CAWCR), Melbourne, Australia

10:00am Coffee Break; Exhibits Open (Poplar Hall)

Severe Weather Session I

Session Chair: Mike Coyne, Chair NWA IT Committee, NOAA/NWS Huntsville, AL

10:30am Cool-Season Derechos in Weak Instability Environments

Jeffrey Evans, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK

10:45am How did that Happen? A Look at Factors that go into Forecaster Warning Decisions

Elizabeth Quoetone and Jami Boettcher, NOAA/NWS/Warning Decision Training Branch, Christopher Spannagle, OU/CIMMS, Norman, OK

11:00am The Impact of an Enhanced Damage Analysis on Determining the Damaging Wind Mechanism Within a Quasi-Linear Convective System

Jay Martinelli and Ross Caniglia, Creighton University, Omaha, NE, and Van Dewald and Dan Nietfled, NOAA/NWS Omaha/Valley, NE

11:15am Environmental Characteristics Associated with Nighttime Tornadoes

Andy Fischer, NOAA/NWS/NCEP Aviation Weather Center, Kansas City, MO and Jonathan M. Davies, Private Meteorologist, Trimble/Kansas City, MO

11:30am New Developments in GOES-12 and GOES-R ABI Convective Initiation Detection

Wayne Feltz, Justin Sieglaff, Lee Cronce and Jordan Gerth, Cooperative Institute for Meteorological Satellite Studies UW-Madison, Madison, WI and Kristopher Bedka, Science Systems and Applications, Inc (SSAI), Hampton, VA

11:45am Analysis of the Severe Mid-Atlantic Derecho of 4 June 2008

Steven M. Zubrick, NWA President-Elect, and Gregory M. Schoor, NOAA/NWS Sterling, VA, and Michael Eckert, NOAA/NWS/NCEP Camp Springs, MD

12:00pm The Influence of Subsynchronous-Scale Dynamic Tropopause Potential Vorticity Disturbances on Severe Weather in the Southwestern United States during the North American Monsoon Season

Scott Sukup, Tim Melino, Lance F. Bosart and Jamie Matusiak, University of Albany, State University of New York, Albany, NY; Steven J. Weiss, NWA Past-President '05, Jonathan Racy, Russell Schneider and David Bright, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK; and Erik Pytlak, NOAA/NWS Tucson, AZ

12:15pm Single-Doppler Radar Morphology and Evolution of the 29 March 2000 Dauphin Island Alabama Tornado-Producing Mesocyclone

Jeffrey Medlin, Editor NWA *Electronic Journal of Operational Meteorology*, NOAA/NWS Mobile, AL

12:30pm Lunch on your own; Exhibits open (Poplar Hall)

1:30pm Keynote Address

Dr. Louis W. Uccellini, Director NOAA/NWS National Centers for Environmental Prediction, Camp Springs, MD

Numerical Weather Prediction Session

Session Chair: Sonia Mark-Flechtner, NOAA/NWS Wakefield, VA

- 2:00pm Utility of Storm Prediction Center's Web Display of NCEP Short Range Ensemble Forecast (SREFs): Intra-Model Comparisons among SREF Runs and Exploration of Using Combined Data Fields**
David R. Bright, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK, and Steven M. Zubrick, NWA President-Elect, and Steven A. Listemaa, NOAA/NWS Sterling, VA
- 2:15pm Use of HRRR Hourly-updated 3km Radar-Initialized Mesoscale Model Data in Support of Forecast and Warning Operations at the Baltimore-Washington Weather Forecast Office**
Stan Benjamin, Kevin Brundage and Steve Weygandt, NOAA Earth System Research Laboratory, Boulder, CO, and Steven M. Zubrick, NWA President-Elect, NOAA/NWS Sterling, VA
- 2:30pm Does an Optimal Mesoscale Model Physics Configuration Exist in Forecasting Snowfall Accumulation for the Southern Appalachian Mountains?**
Douglas K. Miller, UNC Asheville, Asheville, NC, Baker Perry, Appalachian State University, Boone, NC, and Sandra Yuter, North Carolina State University, Raleigh, NC
- 2:45pm Using NWP In Forecast Operations: A New COMET Training Course**
William R. Bua and Stephen D. Jascourt, UCAR/COMET, Silver Spring, MD and Gregory P. Byrd, UCAR/COMET, Boulder, CO
- 3:00pm Poster Session I (Break Included) - Providence Hall**
Session Chairs: Betsy Kling, WKYC TV, Cleveland, OH, Cheryl Nelson, WAVY-TV 10/WVBT Fox 43, Hampton Roads, VA, Ken Carey, Chair NWA Professional Development Committee, Noblis, Inc., Falls Church, VA

Posters:

- P1.01 The Rio Grande Flooding of Late Summer 2008: Challenges Faced by the HAS Forecasters at the NWS West Gulf River Forecast Center.** Gregory J. Story, NOAA/NWS WGRFC Fort Worth, TX
- P1.02 A Distributed Rainfall-Runoff Model Applied to Flash Flood Forecasting at National Weather Service Binghamton, New York.** Michael Shaffner, NOAA/NWS Binghamton, NY, Carl Unkrich, USDA, Tucson, AZ
- P1.03 The 18 April 2009 Southeast Texas Extreme Rainfall Event.** Scott Overpeck, Lance Wood, Patrick Blood, Paul Lewis and Chris McKinney, NOAA/NWS Houston/Galveston, League City, TX
- P1.04 Lessons Learned from the September 2008 Flooding of Northern Mexico and West Texas.** Lora Mueller, NOAA/NWS Eastern Region HQ, Bohemia, NY, and Jason Johnson, NOAA/NWS San Angelo, TX
- P1.05 Enhancing Awareness of Flash Flooding: Using the Workstation WRF Model to Predict Heavy Lake Effect Rain.** Daniel Leins and Robert LaPlante, NOAA/NWS Cleveland, OH
- P1.06 Development of a Historical Flash Flood Database for Google Earth.** Randy Graham, NWA Councilor and Nanette Hosenfeld, NOAA/NWS Salt Lake City, UT
- P1.07 Improvements to the Newport/Morehead City Weather Forecast Office's Coastal Flood Program.** Brian Cullen and Mark Willis, NOAA/NWS Newport/Morehead City, NC
- P1.08 Factors Contributing to a Record Rainfall Event in Northwest Texas.** Mark R. Conder, Gary D. Skwira and Jeffrey D. Vitale, NOAA/NWS Lubbock, TX

- P1.09** **What Would be the Impact if the Caesars Palace Flood of 1975 Happened Today?** Faith Borden, NWA Secretary, Christopher Stachelski and Barry Pierce, NOAA/NWS Las Vegas, NV
- P1.10** **In the Heat, Check the Backseat!** Charles Aldrich, University of South Alabama, Mobile, AL, John Gordon, NWA Councilor and Chair NWA Membership & Marketing Committee, NOAA/NWS Louisville, KY
- P1.11** **Hurricane Ike: Some Comparisons with Previous Storms.** Lance Wood, NOAA/NWS Houston/Galveston, TX
- P1.12** **Effects of Dry Air Ridging on Precipitation in Tropical Storm Hanna.** Barrett Smith and Jonathan Blaes, NOAA/NWS Raleigh, NC
- P1.13** **An Evaluation of the National Hurricane Center Wind Probability Interval Forecasts for Land Threatening Tropical Cyclones.** William P. Roeder, 45th Weather Squadron, Patrick AFB, FL, Jaclyn A. Shafer, Short-term Prediction Research and Transition Center, Huntsville, AL, Michael E. Splitt and Steven M. Lazarus, Florida Institute of Technology, Melbourne, FL
- P1.14** **Tropical Cyclones and the Desert Southwest: Studying and Preparing for a Rare, High Impact Event.** Erik Pytlak, NOAA/NWS Tucson, AZ
- P1.15** **The Dynamic Fetch Event of March 27th, 2007 in the Northern California Coastal Waters.** Michael Colby, NOAA/NWS Wilmington, NC, Jeffrey Lewitsky, NOAA/NWS/NCEP/NHC Miami, FL
- P1.16** **A Climatology of Tornadoes Associated with Tropical Cyclones Across the U.S. Mid-Atlantic Region with Emphasis on Tropical Storm Fay.** James Hudgins, NOAA/NWS Blacksburg, VA
- P1.17** **Using GIS in Marine and Tropical Weather Forecasting.** Jill F. Hasling CCM, NWA Councilor, Weather Research Center, Houston, TX
- P1.18** **Estimating Breaker Heights in the Surf Zone along Beaches with Broad Bottom Slopes.** Jatasey Alexander Gibbs and Andrew I. Watson, NOAA/NWS Tallahassee, FL, Patrick C. Caldwell, NOAA/National Coastal Data Development Center, Honolulu, HI, Thomas J. Lefebvre, NOAA/Earth System Research Lab, Boulder, CO
- P1.19** **Examining the Results since WFO Wakefield Launched an Enhanced Short-Term Marine Forecast Program.** Sonia Mark-Flechner and Larry Brown, NOAA/NWS Wakefield, VA
- P1.20** **Significant Weather Impacts across Arkansas due to Landfalling Tropical Systems.** Christopher C. Buonanno, NOAA/NWS Little Rock, AR
- P1.21** **The New Four-Dimensional Lightning Surveillance System (4DLSS) for America's Space Program in Florida: An Overview.** William P. Roeder, 45th Weather Squadron, Patrick AFB, FL
- P1.22** **Meso-Scale Examination of the 29 March 2000 Dauphin Island Alabama Wedge Tornado's Pre-Storm Environment.** Jeffrey M. Medlin, NOAA/NWS Mobile, AL, Matthew Grantham, University of South Alabama
- P1.23** **Convective Research for Operational Forecasting and Training: Conceptual Operational Model for Expected Development and Initiation of Convection.** Paul J. Croft, NWA Past President '04, Amy Wuestenberg, Danielle Fadeski and Justin Schulte, Kean University, Union, NJ, Alan Cope, NOAA/NWS Philadelphia, PA

- P1.24 Using Lightning Data to Better Identify and Understand Relationships between Thunderstorm Intensity and the Underlying Topography of the Lower Mississippi River Valley.** Michael E. Brown and David Keeney, Mississippi State University, Mississippi State, MS and Michael Scotten and Tom Salem, NOAA/NWS Memphis, TN
- P1.25 Central Florida Flow Regime Based Climatologies of Lightning Probabilities.** William H. Bauman III, NASA Applied Meteorology Unit/ENSCO, Inc., Matthew Volkmer and David W. Sharp, NOAA/NWS Melbourne, FL, Brian Hoeth, Richard A. Lafosse and Kurt M. Van Speybroeck, NOAA/NWS Spaceflight Meteorology Group, Houston, TX
- P1.26 Wind Energy at Kean University: Vertical Axis Wind Turbines for Urban Environments.** William C. Heyniger, Brendan Murphy and Seth Docherty, Kean University, Union, NJ
- P1.27 Improving Aviation Forecasts at the National Weather Service in Springfield, Missouri.** John P. Gagan, Chair NWA Weather Analysis and Forecasting Committee, and Gerald C. Claycomb, NOAA/NWS Springfield, MO
- P1.29 Space Weather in NextGen.** Joseph Kunches, NOAA/NWS/NCEP Space Weather Prediction Center, Boulder, CO
- P1.30 Hodographs Associated with Significant Outbreak Days.** Stephanie Ludwig, Jay Martinelli and Jon Schrage, Creighton University, Omaha, NE, Dan Miller, NOAA/NWS Duluth, MN
- P1.31 A Simple Index of Information Content for Surface Meteorological Observing Networks.** Loren D. White, Jackson State University, Jackson, MS
- P1.32 The Piazza Degree - Temperature as a Function of Time.** Pietro Piazza, Palm Coast, FL
- P1.33 COCORAHS in Missouri: Three Years Later, the Importance of Volunteer Observations.** Anthony R. Lupo and John Moon, University of Missouri, Columbia, MO, Patrick E. Guinan, Missouri Climate Center, Columbia, MO
- P1.34 Operational Hazard Detection and Monitoring in the Satellite Analysis Branch.** Jamie Kibler and Brian Hughes, NOAA/NESDIS, Camp Springs, MD
- P1.35 Overview of NOAA's Satellite Operations including Data, Products and Services.** Brian Hughes and Thomas Renkevans, NOAA/NESDIS Camp Springs, MD
- P1.36 Preliminary Validation of the GOES Low-Cloud Base Product Presented by Ellrod (2000).** Caitlin J. Hart and Dr. Gustavo Pereira, SUNY Brockport, Brockport, NY, Ken Pryor, NOAA/NESDIS Camp Springs, MD
- P1.37 The Current Status of Operational AMSU Products at NOAA/NESDIS.** Ralph Ferraro, Chair NWA Remote Sensing Committee, and Huan Meng, NOAA/NESDIS College Park, MD, Sid Boukabara and Limin Zhao, NOAA/NESDIS Camp Springs, MD
- P1.38 Observing Road Weather Conditions Using Passenger Vehicles.** Michael B. Chapman, Sheldon Drobot and William Mahoney, National Center for Atmospheric Research, Boulder, CO
- P1.39 Objective Satellite-Based Overshooting Top Detection Using Infrared Window Channel Brightness Temperature Gradients.** Kristopher Bedka, Science Systems and Applications, Inc., Hampton, VA, Jason Brunner, Richard Dworak, Wayne Feltz and Jason Otkin, SSEC/CIMSS, UW-Madison, WI

- P1.40 Siting Investigation for a Multi-Sensor Platform for Local Environmental Studies & Testing.** Paul J. Croft, NWA Past President, '04, Tom Giordano, Kyle Frankenfield, Tom Skic, Matt Albanese, Seth Docherty and Will Moore, Kean University, Union, NJ

NextGen Session

Session Chair: Bruce Thomas, NWA Councilor, Chief Meteorologist, Midland Radio Corporation, Kansas City,

- 4:15pm The 4-D Weather Data Cube: Roadmap to 2022**
Jason Tuell and Steve Abelman, NOAA/NWS/OST/Science Plans Branch, Silver Spring, MD, Curtis Neidhart, Integrated Systems Solutions, Inc, Cecilia Miner, NOAA/NWS/OCWWS/Aviation Services Branch, Silver Spring, MD, and Timothy Hopkins, NOAA/NWS/OCWWS/Analysis Branch, Silver Spring, MD
- 4:30pm NextGen 4-D Weather Data Cube for 2013**
Cecilia Miner, NOAA/NWS/OCWWS/Aviation Services Branch, Silver Spring, MD, Steve Abelman and Jason Tuell, NOAA/NWS/OST/Science Plans Branch, Silver Spring, MD, James Stobie, ENSCO, Inc., Aviation Weather Programs, Falls Church, VA
- 4:45pm The NWS Forecast Process in the NextGen Era**
Steve Abelman, NOAA/NWS/OST/Science Plans Branch, Silver Spring, MD, Cecilia Miner and Cammye Sims, NOAA/NWS/OCWWS/Aviation Services Branch, Silver Spring, MD
- 5:00pm IC4D - A New Tool for Producing Four Dimensional Aviation Forecasts**
Gene Petrescu, NOAA/NWS Alaska Aviation Weather Unit, Anchorage, AK
- 5:15pm Exploiting Weather Information from Airborne Forward-Looking Sensors in a Network-Enabled Next Generation Air Transportation System**
Philip R. Schaffner and Steven D. Harrah, NASA Langley Research Center, Hampton, VA and Kevin Kronfeld, Rockwell Collins, Cedar Rapids, IA
- 5:30pm NextGen Verification Plans**
Jamie Vavra, NOAA/NWS Silver Spring, MD
- 5:45pm Next Generation Satellite Remote Sensing for the Detection, Characterization and Tracking of the Volcanic Ash Hazard to Aviation**
John Murray, NASA Langley Research Center, Hampton, VA; Arlin Krueger, University of Maryland Baltimore Campus, Baltimore, MD; Michael Pavolonis, NOAA/NESDIS, UW-Madison, Madison, WI, Alex Matus, Texas A&M, College Station, TX, and Earle Williams, MIT Laboratory, Cambridge, MA
- 6:30pm Icebreaker (Riverwalk); Dinner on your own**

Tuesday, 20 October 2009

Stratford/York Hall

- 7:00am NWA Registration Desk opens (Grand Promenade)**
- 7:30am Daily Weather Discussion**
- 9:00am Exhibits open (Poplar Hall)**

6:15pm Bowling for Scholarships Extravaganza (offsite)

Opening Session and Keynote Address

8:00am Keynote Address

Vickie Nadolski, Deputy Assistant Administrator for Weather Services and Deputy Director of the National Weather Service, Silver Spring, MD

8:30am Keynote Address

Rear Admiral David W. Titley, Commander, Naval Meteorology and Oceanography Command, Bay Saint Louis, MS

Future of Severe Weather Forecasting and Warnings I

Session Chair: Mike Vescio, NWA President, NOAA/NWS Pendleton, OR

9:00am Nowcasting Wet Microburst Events with Phased Array Radar

Steven Irwin, University of Oklahoma, Norman, OK and Travis Smith, NOAA/OAR/NSSL, Norman, OK

9:15am A Paradigm for Fully-Integrated Operational Meteorological Support

Jon Zeitler, NOAA/NWS Austin/San Antonio, TX, Kurt Van Speybroeck, NOAA/NWS Spaceflight Meteorology Group, Houston, TX

9:30am The Next Generation of Storm Data Collection

Brenton W. MacAloney II, NOAA/NWS Performance Branch, Silver Spring, MD

9:45am Four Dimensional Weather Data Visualization

Dr. Adam Edson, ITT Visual Information Solutions, Boulder, CO

10:00am Coffee Break; Exhibits Open (Poplar Hall)

Professional Development Session

Session Chair: Ken Carey, Chair NWA Professional Development Committee, Noblis, Inc., Falls Church, VA

10:30am Making Powerful Presentations and Posters: Connecting with Your Audience

Carl D. Thormeyer, KSBW-TV, Salinas, CA

10:45am Using Technology to Communicate Weather Information

Kenneth W. Reeves, AccuWeather, Inc., State College, PA

11:00am Communicating and Promoting Interest and Awareness in Science

H. Michael Mogil, How the Weatherworks, Naples, FL

11:15am Leveraging Social Science/Understanding Your Customer

Dave Freeman, KSNW-TV, Wichita, KS

11:30am Panel Discussion/Q&A: Challenges and Perspectives in Communicating Weather Information

Facilitators: Ken Carey and Carl Thormeyer

11:45am Lunch on your own

Weather Analysis and Forecasting Session I

Session Chair: Carl Thormeyer, KSBW-TV, Monterey-Salinas, CA

- 12:45pm Retro-forecasts of Historic Weather Events Using the Weather Research and Forecast Modeling System**
David Beachler and Richard H. Grumm, NOAA/NWS State College, PA
- 1:00pm The Transition of High-Resolution NASA MODIS Sea Surface Temperatures into the WRF Environmental Modeling System**
Jonathan L. Case, ENSCO Inc./NASA SPoRT Center, Huntsville, AL, Gary J. Jedlovec, NASA/MSFC, Huntsville, AL, Pablo Santos, NOAA/NWS Miami, FL, Jeffrey M. Medlin, NOAA/NWS Mobile, AL
- 1:15pm A New Numerical Weather Prediction Approach to the NDFD's Sky Cover Grid**
Jordan Joel Gerth, CIMSS/SSEC, University of Wisconsin-Madison, and Robert Aune, NOAA/NESDIS/ASPB, Madison, WI
- 1:30pm Convective Research for Operational Forecasting and Training: A Verification of Operational Research Trial Simulations**
Paul J. Croft, NWA Past President '04, and Tom Skic, Kean University, Union, NJ, Alan Cope, NOAA/NWS Mount Holly, NJ
- 1:45pm Using Geographic Information Systems to Assess Forecasts of High Impact Weather Events**
Jack Settelaier, NOAA/NWS Southern Region HQ, Fort Worth, TX
- 2:00pm Verification of the Cooperative Institute for Precipitation Systems' Analog Guidance Probabilistic Products**
Chad M. Gravelle and Charles E. Graves, Saint Louis University, Saint Louis, MO, John P. Gagan, Chair NWA Weather Analysis & Forecasting Committee, NOAA/NWS Springfield, MO, Fred H. Glass, NOAA/NWS St. Louis, MO, and Michael S. Evans, NOAA/NWS Binghamton, NY
- 2:15pm Poster Session II (Break Included) - Providence Hall**
Session Chairs: Richard Okulski, NWA Councilor and Co-Chair NWA Specialized Operational Services Committee, NOAA/NWS Memphis, TN, Jeffrey Tongue, Co-Chair NWA Education Committee, NOAA/NWS Upton, NY, Dr. Scott Rochette, NWA Councilor, The College at Brockport, SUNY, Brockport, NY, and Brian LaMarre, NOAA/NWS Tampa Bay, FL

Posters:

- P2.01 Convective Research for Operational Forecasting and Training: Using the ANOVA to Identify Inter and Intra Seasonal Variabilities.** Paul J. Croft, NWA Past President '04, Woude Woubneh and Carolina Rosa, Kean University, Union, NJ
- P2.02 Synoptic Scale Patterns Associated with Cool Season Flash Flooding Across the Desert Southwest.** Glenn Lader, NOAA/NWS Tucson, AZ
- P2.03 Relationship Between Vegetation Boundaries and Severe Local Storms in the Delta Region of Mississippi.** David Keeney and Michael E. Brown, Mississippi State University, Mississippi State, MS
- P2.04 A Study of the Impact of the ENSO Cycle on Missouri Dew Points.** Anthony R. Lupo and Nicholas Smith, University of Missouri, Columbia, MO and Patrick E. Guinan, Missouri Climate Center, Columbia, MO
- P2.05 A Climatological Analysis of Tornadoic Activity Across the New York City Metropolitan Area.** Patrick Maloit and James Connolly, NOAA/NWS Upton, NY

- P2.06 14-15 January 2007 Event Overview: Below-Freezing Temperatures at Phoenix Sky Harbor International Airport for the First Time since December 1990.** Michael J. Paddock, NOAA/NWS Phoenix, AZ
- P2.07 Post-Wildfire Impacts on Convective Precipitation : A Numerical Investigation.** Elizabeth Mulvihill Page, UCAR/COMET, Charlotte, NC, William R. Cotton, Colorado State University, Ft Collins, CO
- P2.08 The Need for New and Improved Satellite Data for Regional Climate Models (RCM).** Joshua Sisskind, Randall Bass, Jose Conde, Mary Beth Crile and John Lewis, ITT Space Systems Division, Vienna, VA
- P2.10 An Extension of the Tennessee Valley Tornado Database.** Timothy W. Troutman, NOAA/NWS Knoxville/Tri Cities, TN, Mark A. Rose, NOAA/NWS Nashville, TN
- P2.11 Design, Construction, Calibration and Testing of an Inexpensive Atmospheric Electric Field Mill: A High School Outreach Program.** John M. Trostel and Tom Perry, Severe Storms Research Center, Georgia Tech Research Institute, Atlanta, GA, Matt Bond and David Brinkman, Kennesaw Mountain High School, Kennesaw, GA
- P2.12 Recent Results in Implementing a Learning Management System in the National Weather Service.** LeRoy E. Spayd, NOAA/NWS/OCWWS Silver Spring, MD
- P2.13 Research Requirements for Better Lightning Safety.** William P. Roeder, Private Meteorologist, Rockledge, FL
- P2.14 The New Weather Radar for America's Space Program in Florida: An Overview.** William P. Roeder, Todd M. McNamara and Billie F. Boyd, 45th Weather Squadron, Patrick AFB, FL, Francis J. Merceret, NASA/AMU ENSCO, Inc., Cocoa Beach, FL
- P2.15 Dual Polarimetric Algorithm Products for Operational Meteorology.** Dan Berkowitz, NOAA/NWS/Radar Operations Center, Norman, OK; Mark Fresch, Dan Stein and David Kitzmiller, NOAA/NWS/Office of Hydrologic Development, Silver Spring, MD; Mike Istok and Brian Klein, NOAA/NWS/Office of Science and Technology, Silver Spring, MD; Paul Schlatter, NOAA/NWS Warning Decision Training Branch, Norman, OK
- P2.16 A New Severe Weather Display System.** Kenneth Reeves, Ryan Ayres and Michael A. Steinberg, Accuweather, Inc., State College, PA and Michael Smith, WeatherData, Inc., Wichita, KS
- P2.17 NCAS Summer Weather Camps: Opening Doors to CAREERs in Meteorology.** H. Michael Mogil, How the Weatherworks, Naples, FL, and Dr. Vernon Morris, Howard University, Washington, DC
- P2.18 METAFOR: An Integrated Weather Forecast Modernization Solution for Belgocontrol.** Richard Stedronsky and Matthew Taylor, IPS MeteoStar, Inc., Englewood, CO
- P2.19 Public Service Announcements: Radio and Direct Internet Outreach.** Paul J. Croft, NWA Past President '04, Matt Albanese, Tom Skic and Will Moore, Kean University, Union, NJ
- P2.20 Forecasting Natural Temperature and Carbon Dioxide Cycles - Phase 1 of Global Cooling Beginning in 2009 with Phase 2 in the year 2023.** David Dille, Global Weather Oscillations, Ocala, FL
- P2.21 Football Stadiums and Lightning: First Down and First Aid.** Michael E. Brown, David Keeney, Tia Merrell, Amanda Hipp and Vicky Lemmermann, Mississippi State University, Mississippi State, MS

- P2.22 A Brief Examination of the March 1-2, 2009 East Coast Gravity Wave Event.** Alan M. Cope, NOAA/NWS Mount Holly, NJ
- P2.23 The April 26, 2009 Heat Burst at Salisbury, Maryland.** Brian Hurley, Larry Brown and Michael Montefusco, NOAA/NWS Wakefield, VA
- P2.24 How DVIL Can Help Create Better Lead Time in the Warning Decision Making Process.** Chris Wamsley, NOAA/NWS Wakefield, VA
- P2.25 The 1 December 2006 Anomalous Severe Weather Event Across the Northeast.** Thomas A. Wasula and Neil A. Stuart, NOAA/NWS Albany, NY
- P2.26 The Extremely Large Comma Head Associated with the 8 May 2009 Derecho in the Lower Ohio Valley.** Patrick J. Spoden, Daniel Spaeth and Christine Wielgos, NOAA/NWS Paducah, KY, Robert W. Scott, Illinois State Water Survey, Champaign, IL
- P2.27 Review of a Marginal Mid-Atlantic Severe Weather Case: 20 April 2008.** Brandon P. Peloquin and Steven M. Zubrick, NWA President-Elect, NOAA/NWS Sterling, VA
- P2.28 Mountain-top Precipitation Observations Within the Pigeon River Basin During the Thunderstorm Outbreak of 28 July 2008.** Douglas K. Miller and Anna Wilson, UNC Asheville, Asheville, NC; Greg Cutrell, University of Nebraska, Lincoln, NE; and Ana Barros and Olivier Prat, Duke University, Durham, NC
- P2.29 The May 16, 2009 Tornadic Supercells Across Central New York: Synoptic and Storm-Scale Perspectives.** Michael Jurewicz, NOAA/NWS Binghamton, NY
- P2.30 NOAA/NWS Storm Prediction Center Perspectives of the 9 April 2009 Significant Wildfire and Severe Storm Outbreak Across the South Central United States.** Jared L. Guyer and Mark A. Darrow, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK
- P2.31 Anticipating Severe Weather Within Summertime Convection.** Tara Golden and Kevin B. Laws, NOAA/NWS Birmingham, AL, Leah Dailey, Mississippi State University, Starkville, MS
- P2.32 An Investigation of Bomb Cyclone Climatology: Reanalysis vs. NCEP's CFS Mode.** Dr. Timothy Eichler and Frank Alvarez, Saint Louis University, St. Louis, MO and Jon Gottschalck, NOAA/NWS/NCEP Climate Prediction Center, Camp Springs, MD
- P2.33 Bow Echo and Mesovortex Evolution During the 2 May 2007 North Texas Derecho.** Jennifer Dunn, NOAA/NWS Fort Worth, TX, Ted Best, Collin County ARES, TX
- P2.34 Roanoke Area Tornado's: The Similarity and Differences.** Dean D. Davison, Vinton, VA
- P2.35 Convective Research for Operational Forecasting and Training: Severe Initiation Matrix Evaluation for Operational Nowcasting.** Paul J. Croft, NWA Past President '04, Matt Villafane and Jackie Parr, Kean University, Union, NJ
- P2.36 A Mesoscale Analysis and Model Performance Evaluation of the 1 March 2009 Georgia Snowstorm.** Jessica L. Fieux and Trisha D. Palmer, NOAA/NWS Peachtree City, GA
- P2.37 A Dual-Polarization Investigation of Tornado Warned Cells Associated with Hurricane Rita (2005).** Christina C. Crowe and Lawrence D. Carey, University of Alabama-Huntsville, Huntsville, AL and Walter A. Petersen, NASA MSFC, Huntsville, AL

- P2.38** **Distributional Characteristics & Synoptic Climatology to Assess and Predict Maximum Temperatures at Newark Airport in New Jersey.** Paul J. Croft, NWA Past President '04, Jackie Parr, Matt Villafane, Kean University, Union, NJ
- P2.39** **Fog Occurrence Using GIS: Predicting Areal & Point Estimation by Regression.** Paul J. Croft, NWA Past President '04, Tasha Anderson and Alexis Ottati, Kean University, Union, NJ
- P2.40** **The Center for Earth System Education: WHERE-UR-in New Jersey! The Working CORE.** Paul J. Croft, NWA Past President '04, and Darren Milliron, Kean University, Union, NJ
- P2.41** **An Analysis of Tropical Cyclone Intensity Estimates of the Advanced Microwave Sounding Unit (AMSU), 2005-2008.** Corey Walton, NOAA/NWS/TPC/NHC/TAFB, Miami, FL, 2009 NWA Meteorological Satellite Award Grant Winner
- P2.42** **Using AMDAR Aircraft Data at the National Weather Service Forecast Office Raleigh, North Carolina.** Barrett Smith, Jonathan Blaes, NOAA/NWS Raleigh, NC, Jason Beaman, NOAA/NWS Mobile, AL
- 3:45pm** **Keynote Address**
Donald H. Berchhoff, NOAA/NWS Director, Office of Science & Technology, Silver Spring, MD

Hydrology Session

Session Chair: Faith Borden, NWA Secretary, NOAA/NWS Las Vegas, NV

- 4:15pm** **Atmospheric Circulation Pattern Comparison of the 2008 Midwest Floods to the Historic 1993**
Norman W. Junker, NWA Past President '96, NOAA/NWS/NCEP/HPC (Retired), Dunkirk, MD, Michael Bodner, NOAA/NWS/NCEP/HPC Camp Springs, MD, Richard H. Grumm, NOAA/NWS State College, PA, and Russ S. Schumacher, NCAR Boulder, CO
- 4:30pm** **The NOAA Hydrometeorology Testbed & Plans for the Southeast U.S. 2010-2015**
Jeff S. Waldstreicher, NWA Councilor, NOAA/NWS Eastern Region HQ, Bohemia, NY and Timothy Schneider, NOAA/ESRL/Physical Sciences Division, Boulder, CO
- 4:45pm** **2009 Red River Valley of the North Flood: How New Technologies Enhanced Forecasting Capabilities**
Andrea Holz, Steve Buan and Mike DeWeese, NOAA/NWS North Central River Forecast Center, Chanhassen, MN, Michael Lukes, NOAA/NWS Grand Forks, ND, Diane F. Cooper, NOAA/NWS Twin Cities, MN, Carrie Olheiser, NOAA/NWS National Operational Hydrologic Remote Sensing Center, Chanhassen, MN
- 5:00pm** **NWS Experimental Hourly Precipitation Analysis Products**
Diane Cooper, NOAA/NWS Twin Cities, MN, William Lawrence and James Paul, NOAA/NWS Arkansas-Red Basin River Forecast Center, Tulsa, OK, Kai Roth, NOAA/NWS Lower Mississippi River Forecast Center, Slidell, LA
- 5:15pm** **Successes Gained, Lessons Learned from On-Site Decision Support Provided during the Fargo, ND Record Flood Crest 23 March - 4 April, 2009**
Michael J. Hudson, NOAA/NWS Central Region HQ, Kansas City, MO and Gregory J. Gust, NOAA/NWS Grand Forks, ND
- 5:30pm** **The Extreme Flash Flood Event of August 1, 1971 in Northern Maryland. Are we better prepared today?**
Bruce Sullivan, NOAA/NWS/NCEP/HPC Camp Springs, MD

6:15pm **"Bowling for Scholarships" Extravaganza (tickets required)**

Wednesday, 21 October 2009

Stratford Hall only

7:00am **NWA Registration Desk opens (Grand Promenade)**

7:30am **Daily Weather Discussion**

Noon **NWA Annual Awards Luncheon (Poplar/Providence Hall)**

1:30pm **Teacher's Workshop**

7:30pm **Special Session - Future of Severe Weather Forecasting and Warnings III**

Opening Session and Keynote Addresses

8:00am **Keynote Address**

Col Ralph Stoffler, Deputy Director of Weather, US Air Force, Pentagon, Washington DC

Future of Severe Weather Forecasting and Warnings II

Session Chair: John Scala, NWA Immediate Past President and Chair NWA Strategic Planning Committee, WGAL TV, Lancaster, PA

8:30am **2009 Phased Array Radar Innovative Sensing Experiment**

Pamela Heinselman, NOAA/OAR National Severe Storms Lab, Norman, OK and Sebastian Torres, John Thompson, Eddie Forren and David Priegnitz, OU-CIMMS, Norman, OK

9:00am **The Benefits of CASA Radar Networks for Warning and Response**

Brenda Philips, University of Massachusetts, Amherst, MA, Ellen Bass and Don Rude, University of Virginia, Charlottesville, VA, Jerald A. Brotzge, CAPS, University of Oklahoma, Norman, OK, Les Lemon, NWA Past President '01, NOAA/NWS/Warning Decision Training Branch, Norman, OK

9:15am **CASA Analysis and Forecast Products: Demonstration Products from the 13 May 2009 Tornado**

Jerald A. Brotzge, Jidong Gao, Keith Brewster, Yunheng Wang, Kevin Thomas, M. Xue, S. Hill, B. Philips, and D. Rude, CAPS, University of Oklahoma, Norman, OK

- 9:30am GOES-R Applications for Future Severe Convective Weather Forecasting and Warning Operations**
James J. Gurka and Steve Goodman, NOAA/NESDIS/GOES-R Program Office, Greenbelt, MD, Timothy J. Schmit, NOAA/NESDIS/STAR Madison, WI, and Christopher Siewert, OU-CIMMS, Norman, OK
- 9:45am The GOES-R Proving Ground 2009 Spring Experiment at NOAA's Hazardous Weather Testbed**
Christopher Siewert, OU-CIMMS, Norman, OK; Russell Schneider, NOAA/NWS/NCEP/SPC Norman, OK; Eric Bruning, University of Maryland ESSIC/NOAA-CICS College Park, MD; Steve Goodman, NOAA/NESDIS/GOES-R Program Office, Greenbelt, MD; and Bob Rabin, NOAA/OAR/NSSL Norman, OK
- 10:00am Coffee Break (Grand Promenade)**

Decision Support Session

Session Chair: Mike Goldberg, Chair NWA Broadcast Meteorology Committee, Richmond, VA

- 10:30am The Use of Total Lightning Information during Experimental Incident Support Operations**
David Sharp, Matthew Volkmer, Brad Reinhart and Scott Spratt, NOAA/NWS Melbourne, FL
- 10:45am National Weather Service Local Decision Support Services**
Richard Okulski, NWA Councilor and Co-Chair NWA Specialized Operational Services Committee, NOAA/NWS Memphis, TN
- 11:00am A Decision-Support System for Winter Weather Maintenance of Roads, Bridges, and Runways**
Michael B. Chapman and Sheldon Drobot, National Center for Atmospheric Research, Boulder, CO
- 11:15am National Weather Service Eastern Region Decision Support Services for High Profile Events**
Brandon Smith, NOAA/NWS Upton, NY, John Koch, NOAA/NWS Eastern Region HQ, Bohemia, NY
- 11:30am Leveraging Technology to Revolutionize Weather Services through an Integrated Warning Team**
Julie Adolphson, Suzanne Fortin, Andy Bailey and Derek Deroche, NOAA/NWS Pleasant Hill, MO
- 11:45am Are You Really Prepared? A Real Life Assessment after the Ohio Valley Ice Storm 2009**
Patrick J. Spoden, Shane Luecke, Robin R. Smith, Daniel Spaeth and Christine Wielgos, NOAA/NWS Paducah, KY
- Noon NWA Annual Awards Luncheon (tickets required) - Poplar/Providence Hall**

Remote Sensing Session

Session Chair: Ralph Ferraro, Chair NWA Remote Sensing Committee, NOAA/NESDIS ESSIC University of Maryland, College Park, MD

- 1:30pm GOES-R Proving Ground: Ensuring User Readiness**
James Gurka and Steve Goodman, NOAA/NESDIS/GOES-R Program Office Greenbelt, MD, Timothy Schmit, NOAA/NESDIS/STAR Madison, WI, Anthony Mostek, NOAA/NWS/OCWWS Boulder, CO, and Steve Miller, CIRA Boulder, CO

- 1:45pm Operational Uses of Bands on the GOES-R Advanced Baseline Imager (ABI)**
Kaba Bah, Jordan Gerth and Jason Otkin, UW-Madison Cooperative Institute for Meteorological Satellite Studies (CIMSS), Madison, WI, Timothy J. Schmit, NOAA/NESDIS/STAR, Madison, WI
- 2:00pm UrbanNet: Urban Environment Monitoring and Modeling with a Wireless Sensor Network**
Paul J. Croft, NWA Past President '04, Feng Qi, Patricia Morreale and Alicja Trzopek, Kean University, Union, NJ
- 2:15pm Satellite-Derived Cloud Properties in Near-Real Time for Weather and Aviation Safety**
Patrick Minnis and William L. Smith, Jr., NASA Langley Research Center, Hampton, VA, Rabindra Palikonda, Douglas A. Spangenberg and J. Kirk Ayers, SSAI, Hampton, VA, Fu-Lung Chang, National Institute for Aerospace, Hampton, VA
- 2:30pm The Great Smoky Mountain Rain Gauge Network: Status and Stories**
Douglas K. Miller, UNC Asheville, Asheville, NC and Ana Barros, Duke University, Durham, NC

Year in Review

- 2:45pm A Review of Significant Weather Events Occurring in 2009**
Greg Carbin, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK
- 3:15pm Refreshment Break (Grand Promenade)**

Fire Weather Session

Session Chair: John Gagan, Chair NWA Weather Analysis & Forecasting Committee, NOAA/NWS Springfield, MO

- 3:45pm Weather Support to FEMA/DHS During and Following the Devastating Southern California Wildfires of October 2007**
Todd Morris, NOAA/NWS Los Angeles/Oxnard, CA
- 4:00pm An Examination of Lightning Busts Over the Western United States**
Melissa Hurlbut, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK

Radar Session

Session Chair: Jeff Waldstreicher, NWA Councilor, NOAA/NWS Eastern Region HQ, Bohemia, NY

- 4:15pm Dual Polarization: Coming Soon to a Radar Near You**
Paul Schlatter, NOAA/NWS Warning Decision Training Branch, Norman, OK
- 4:30pm Dual Polarimetric Algorithm Products for Operational Meteorology**
Dan Berkowitz, NOAA/NWS Radar Operations Center, Norman, OK; Mark Fresch, Dan Stein and David Kitzmiller, NOAA/NWS Office of Hydrologic Development, Silver Spring, MD; Mike Istok and Brian Klein, NOAA/NWS Office of Science and Technology, Silver Spring, MD; and Paul Schlatter, NOAA/NWS Warning Decision Training Branch, Norman, OK
- 4:45pm Developing Dual Polarization Applications for 45th Weather Squadron's New Weather Radar: A Cooperative Project with the National Space Science and Technology Center (NSSTC)**
William P. Roeder and Todd M. McNamara, 45th Weather Squadron USAF, Patrick AFB, FL, Walter A. Petersen, NASA Marshall Spaceflight Center, Huntsville, AL, Lawrence D. Carey and Wiebke Deierling, University of Alabama in Huntsville, Huntsville, AL
- 5:00pm Evaluating Severe Storms with GR2Analyst**
Josh Korotky, NOAA/NWS Pittsburgh, PA

- 5:15pm NEXRAD Product Improvement: Update 2009**
Michael J. Istok, NOAA/NWS Office of Science and Technology, Silver Spring, MD, Gregory S. Cate, NOAA/NWS Office of Science and Technology, Norman, OK, Robert E. Saffle, Noblis, Inc, Falls Church, VA
- 5:30pm Radar Integrated Display using Geospacial Elements Version 2 (RIDGE2)**
Keith Stellman, NOAA/NWS Shreveport, LA, Corey Pieper and Paul Kirkwood, NOAA/NWS Southern Region HQ, Fort Worth, TX, Jason Burks, NOAA/NWS Huntsville, AL, Brian Walawender, NOAA/NWS Central Region HQ, Kansas City, MO
- 5:45pm Advantages of Using Terminal Doppler Weather Radar for Interrogating Severe Local Storms**
Michael Scotten, NOAA/NWS Memphis, TN and Eric Howieson, NOAA/NWS Southern Region HQ, Fort Worth, TX
- 6:00pm Dinner on your own**

Future of Severe Weather Forecasting and Warnings III

Session Chair: Jennifer McNatt, Chair NWA Annual Meeting Program Committee, NOAA/NWS Tampa, FL

- 7:30pm The Explicit Prediction of Convection: How well can we do?**
Morris Weisman, National Center for Atmospheric Research, Boulder, CO
- 8:00pm NSSL's Vision for Storm Scale Numerical Weather Prediction**
Dr. Louis J. Wicker, NOAA/OAR National Severe Storms Laboratory, Norman, OK
- 8:30pm The Experimental Warning Program 2009 Spring Experiment at the NOAA Hazardous Weather Testbed**
Greg Stumpf, CIMMS NOAA/NWS-MDL, Travis Smith and Kevin Manross, CIMMS NOAA/OAR/NSSL, and David Andra, NOAA/NWS Norman, OK
- 9:00pm The NOAA Hazardous Weather Testbed Experimental Forecast Program - Bridging the Gap Between Research and Operations to Improve Severe Convective Weather Forecasts**
Steven J. Weiss, NWA Past-President '05, David R. Bright, Jason J. Levit and Gregory W. Carbin, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK, John S. Kain and Michael C. Coniglio, NOAA/OAR/NSSL, Norman, OK

Thursday, 22 October 2009

Stratford/York Hall

- 7:00am NWA Registration Desk opens (Grand Promenade)**
- 7:30am Daily Weather Discussion**

Severe Weather II Session

Session Chair: Jim Stefkovich, NOAA/NWS Birmingham, AL

- 8:00am Use of Hourly Maximum Convective Storm Attribute Fields from Convection-Allowing WRF Models in Operational Severe Weather Forecasting**
Steven J. Weiss, NWA Past-President '05, and Jason J. Levit, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK; John S. Kain, NOAA/OAR/National Severe Storms Laboratory, Norman, OK; Scott R. Dembek, CIMMS/University of Oklahoma and University Space Research Association/NASA, Philadelphia, PA; and Matthew E. Pyle, NOAA/NWS/NCEP Environmental Modeling Center, Camp Springs, MD
- 8:15am Utility of Local Radar Data in the Warning Decision Making Process**
Chris Darden and Mike Coyne, Chair NWA IT Committee, NOAA/NWS Huntsville, AL, Chris Palmgren and Stephen McCloud, Baron Services, Inc., Huntsville, AL, and Chris Schultz, University of Alabama-Huntsville, Huntsville, AL
- 8:30am The New Hampshire Tornado of 24 July 2008: Mesoscale Environment and Radar Characteristics**
Dan St. Jean, Mike Cempa and John W. Cannon, NOAA/NWS Gray, ME
- 8:45am Pathcasts: How Well Can we Forecast Future Tornado Locations?**
Kevin Scharfenberg, NOAA/NWS/OCWWS, Norman, OK, Doug Speheger, NOAA/NWS Norman, OK, Andrew Dean, OU/CIMMS and NOAA/NWS/NCEP/SPC, Norman, OK, Kevin Manross and Kiel Ortega, OU/CIMMS and NOAA/OAR/NSSL, Norman, OK
- 9:00am Lightning and NEXRAD Characteristics of Several Tornadoic and Non-Tornadoic Storms on March 15, 2008**
John M. Trostel and Jenny L. Matthews, Severe Storms Research Center, Georgia Tech Research Institute, Atlanta, GA, Nicholas W.S. Demetriades, Vaisala Inc., Tucson, AZ
- 9:15am Using Preferred Geopotential Heights to Predict Highest Threat of Significant Tornadoes**
Jeff Craven, NWA Treasurer and Chair NWA Publications Committee, NOAA/NWS Milwaukee, WI
- 9:30am The Revised Enhanced Resolution Thunderstorm Experiment at the Storm Prediction Center**
Jeremy Grams, David Bright and Joseph Schaefer, NWA Past-President '98, NOAA/NWS/NCEP Storm Prediction Center, Norman, OK
- 9:45am Looking at 1 Inch Hail Criteria for Severe Thunderstorms in the Mid-South**
Thomas Salem, NOAA/NWS Memphis, TN, Matthew Reagan and Kevin Terry, NWS Memphis and University of Memphis, Memphis, TN
- 10:00am Poster Session III (Break Included) - Providence Hall**
Session Chairs: Steven Keighton, NOAA/NWS Blacksburg, VA and Alan E. Gerard, NWA Past-President '07 and NWA Commissioner of Committees, NOAA/NWS Jackson, MS

Posters:

- P3.01 An Investigation of an Intense Gravity Wave over Southeastern Virginia.** Lyle S. Alexander, NOAA/NWS Wakefield, VA
- P3.02 A Conceptual Model of Frontal Interactions: Potential Role of "Orographic Occlusions" in Type C Cyclogenesis.** Loren D. White, Jackson State University, Jackson, MS

- P3.03 A Geographic Information System-Based Reanalysis of the 3 December 1978 Bossier City Louisiana Tornado.** Keith Stellman and Douglas Butts, NOAA/NWS Shreveport, LA
- P3.04 The Meteorology and Impact of the 11 February 2009 Wind Storm in the Lower Ohio Valley.** Kevin E. Smith, Daniel Spaeth, Patrick J. Spoden and Christine Wielgos, NOAA/NWS Paducah, KY
- P3.05 An Evaluation of Observational Data Assimilation in Alaska WRF Operational Forecasts.** Don Morton and Jing Zhang, Arctic Region Supercomputing Center, Fairbanks, AK
- P3.06 Complex Forecast Issues with the Elevation Snowstorm of 28 October 2008 in the Northeastern U.S.** Thomas A. Wasula and Neil A. Stuart, NOAA/NWS Albany, NY
- P3.07 A Synoptic Pattern Climatology of Significant Snowstorms in the New York City Metropolitan Area.** Nelson Vaz, NOAA/NWS Upton, NY
- P3.08 An Examination of a Mesoscale Snow Event Across Southeast South Carolina and Southeast Georgia.** Steven B. Taylor, NOAA/NWS Charleston, SC
- P3.09 Transverse Cirrus Bands and Aviation Turbulence: An Observational Review.** John A. Knox, Jonathan E. Tarantino, Emily N. Wilson, Gregory S. Bechdol and Mary J. Mays, University of Georgia, Athens, GA, A. Scott Bachmeier and Kristopher M. Bedka, CIMSS/SSEC/University of Wisconsin-Madison, W. Michael Carter, Mississippi State University, Starkville, MS, Laura C. Paulik, Colorado State University, Fort Collins, CO
- P3.10 The Lower Ohio Valley Ice Storm of January 2009.** Daniel Spaeth, Gregroy Meffert, Robin R. Smith, Patrick J. Spoden and Christine Wielgos, NOAA/NWS Paducah, KY
- P3.11 Examination of an Overachieving Snowfall Event: 19-21 December 2008.** Scott M. Rochette, NWA Councilor, The College at Brockport, State University of New York, Brockport, NY, Chad M. Gravelle, Saint Louis University, St. Louis, MO
- P3.12 Investigating Sixty Years of Winter Season Atmospheric Anomalies for Phoenix Arizona.** Michael J. Paddock, NOAA/NWS Phoenix, AZ
- P3.13 A 40-Year Winter Season Composite Analysis of Atmospheric Conditions Conducive to Freezing Temperatures in Phoenix Arizona.** Michael J. Paddock, NOAA/NWS Phoenix, AZ, Chad M. Gravelle, Saint Louis University, St. Louis, MO
- P3.14 A Quantitative Snowfall Analysis for the Verification of NWS Snow Amount Grids.** David Myrick and Ken Pomeroy, NOAA/NWS Western Region HQ, Salt Lake City, UT
- P3.15 Assessing Temporal Changes in Cloud-Top Temperatures both Near and Away from Lightning Flashes during a Significant Midwestern Snowfall.** Patrick S. Market, NWA Vice President, Katie L. Crandell, Sebastian Los, and Elizabeth McGuffin, University of Missouri-Columbia, Columbia, MO
- P3.16 An Analysis of Short Range Ensemble Forecasts for Several Upper Midwest Cases from the Winter of 2008-09.** Tom Hultquist, NOAA/NWS Chanhassen, MN, Phil N. Schumacher and Kyle D. Weisser, NOAA/NWS Sioux Falls, SD
- P3.17 Overview of the 11 December 2008 Southern Mississippi Snowstorm.** David Hamrick, Eric Carpenter and Chad Entremont, NOAA/NWS Jackson, MS
- P3.18 A Case Study of the February 11-12, 2006 Snow Event Across Central and Eastern Virginia and the Lower Maryland Eastern Shore.** Timothy Gingrich, NOAA/NWS Wakefield, VA

- P3.19 Using Regional Historical Analogs as Guidance for a Midwestern Winter Weather Event.** John P. Gagan, Chair NWA Weather Analysis & Forecasting Committee, NOAA/NWS Springfield, MO, Chad M. Gravelle and Charles E. Graves, Saint Louis University, St. Louis, MO, Fred H. Glass, NOAA/NWS St Louis, MO, Michael S. Evans, NOAA/NWS Binghamton, NY
- P3.20 An Investigation of Early and Late Season Snowstorms and the Role of Soil Temperatures in the Northern Plains.** Michael Fowle, NOAA/NWS Aberdeen, SD
- P3.21 Record Heavy Snowfall in Britain, February 1-6, 2009.** Stephen J. Flood, NOAA/NWS/NCEP/HPC Camp Springs, MD
- P3.22 Use of a Historical Analog-Based Winter Storm Guidance Package for Forecasting a Central New York Snow Event.** Michael Evans, NOAA/NWS Binghamton, NY
- P3.23 Lessons in Predictability: Part 2 - The March 2009 "Megastorm".** Michael J. Bodner, NOAA/NWS/NCEP/HPC Camp Springs, MD, Richard H. Grumm, NOAA/NWS State College, PA, Neil A. Stuart, NOAA/NWS Albany, NY
- P3.24 An Investigation into the Evolution of Frontogenesis and Equivalent Potential Vorticity for Fifteen Midwest Mesoscale Snowband Events.** Dr. Emily B. Berndt, Dr. Charles E. Graves and Dr. Timothy P. Eichler, Saint Louis University, St. Louis, MO
- P3.25 Anticipating the Climate Black Swan.** Michael Ferrari, Weather Trends International, Bethlehem, PA
- P3.26 Examples of Stratospheric Ozone Intrusions Coinciding with Increased Ozone Concentrations in Ontario During the Past Several Years.** Frank Dempsey, Ontario Ministry of Environment, Toronto, Ontario Canada
- P3.28 Tornado Warnings and Public Response in Central Alabama - The Balance of Perception, Reality and Action.** Jim Stefkovich, NOAA/NWS Birmingham, AL
- P3.29 Evaluating Heat Index and Winter Weather Criteria in Deep South Texas and the Lower Rio Grande Valley.** Nezette Rydell, Jeral Estupinan and Barry Goldsmith, NOAA/NWS Brownsville, TX
- P3.30 Estimating the Effectiveness of No-Notice Outdoor Lightning Risk Reduction and Recommendation to Not Teach It.** William P. Roeder, Private Meteorologist, Rockledge, FL
- P3.31 A New HD Display System.** Kenneth Reeves, Ryan Ayres and Michael A. Steinberg, AccuWeather, Inc., State College, PA
- P3.32 "Weather & Climate" - Weatherwise Magazine's Newest Series.** H. Michael Mogil, How the Weatherworks, Naples, FL and Margaret Benner, Editor *Weatherwise* Magazine, Washington, DC
- P3.33 A Radiosonde System for the University of Missouri: An Informal Study of a Decaying Thunderstorm near Columbia, Missouri.** Anthony Lupo, Cody L. Fritz, Patrick S. Market, NWA Vice President, Shawn Skibinski and Neil I. Fox, University of Missouri-Columbia, Columbia, MO
- P3.34 Providing Uncertainty Information with NWS Temperature and Precipitation Forecasts.** Paul Iñiguez, NOAA/NWS Phoenix, AZ and Jeffrey Craven, NWA Treasurer and Chair NWA Publications Committee, NOAA/NWS Milwaukee, WI
- P3.35 Focusing NWS Watch, Warning and Advisory Products on the "What?", "Where?", "When?" and "Intensity".** Kevin Scharfenberg and John Ferree, NOAA/NWS/OCWWS Norman, OK, Andy Horvitz, NOAA/NWS/OCWWS Silver Spring, MD and Joel Curtis, NOAA/NWS Juneau, AK

- P3.36 Preventing Skin Cancer: Educating the Public on National Sun Safety Day.** Drusilla Hufford, Kristinn Vazquez and Robert Burchard, U.S. Environmental Protection Agency, Washington, DC
- P3.37 HazCollect - A New Tool for Dissemination of Non-Weather Emergency Messages.** Janice Bunting, NWA Councilor, Fort Worth, TX
- P3.38 Configuring a Graphical User Interface for Managing Local HYSPLIT Model Runs through AWIPS.** Mark M. Wheeler, NASA Applied Meteorology Unit/ENSCO, Inc./Cape Canaveral Air Force Station, FL, Peter F. Blottman and David W. Sharp, NOAA/NWS Melbourne, FL

Marine Session

Session Chair: Bill Sammler, NOAA/NWS Wakefield, VA

- 11:30am Meteorological Support for a Weather-Sensitive Marine Project**
Mark Mathiesen and Jim Dykas, Impact Weather, Inc., Houston, TX
- 11:45am Forecasting Wind Gusts over Marine Locations along the Atlantic and Gulf Coasts of the United States**
Larry Brown, NOAA/NWS Wakefield, VA
- Noon The Great Lakes Pneumonia Front: A New Study of Land-Sea Interactions**
Jordan Joel Gerth, CIMSS/SSEC, University of Wisconsin-Madison, Madison, WI
- 12:15pm Summer of the Spouts: Analysis of Waterspout Development along the Southern New England Coast during the Summer of 2008**
Eleanor Vallier-Talbot, Co-Chair NWA Education Committee, NOAA/NWS Taunton, MA
- 12:30pm Lunch on your own**

Weather Analysis and Forecasting II Session

Session Chair: Jeffrey Craven, NWA Treasurer and Chair NWA Publications Committee, NOAA/NWS Milwaukee, WI

- 1:30pm Experimental Lightning Forecasting in Central North Carolina**
Gail I. Hartfield, NOAA/NWS Raleigh, NC
- 1:45pm Increasing the Temporal Resolution of Meteorological Surface Data: A Change for the METAR**
Jeffrey Tongue, Co-Chair NWA Education Committee, and Matthew Sardi, NOAA/NWS Upton, NY
- 2:00pm A High-Resolution Ensemble for the Mid-Atlantic States**
Brian Etherton, Renaissance Computing Institute (RENCI), University of North Carolina, Chapel Hill,
- 2:15pm Assessment of Weather Related Non-Recurring Congestion on Utah's Highways: Investigation of Event Impacts from the Winter of 2008-09**
Randy Graham, NWA Councilor, Kevin Barjenbruch, Chair NWA Societal Impacts of Weather and Climate Committee, Glen Merrill and Mike Seaman, NOAA/NWS Salt Lake City, UT, Ralph Patterson, Glen Blackwelder, Julie Miller and Audra Yocom, Utah Dept of Transportation, Traffic Operations Center, Salt Lake City, UT, Mike Holts and Jeff Williams, NorthWest WeatherNet, Salt Lake City, UT
- 2:30pm Return Flow, Drylines, and Moist Lines**
Loren D. White, Jackson State University, Jackson, MS
- 2:45pm Lessons in Predictability Part 1: The Post Groundhog Day 2009 Storm**

Neil A. Stuart, NOAA/NWS Albany, NY, Richard H. Grumm, NOAA/NWS State College, PA, Michael J. Bodner, NOAA/NWS/NCEP/HPC, Camp Springs, MD

3:00pm The Verification of Short to Long-Range Forecasts Using Simple Methods

Anthony R. Lupo, Adam Hendin and Patrick S. Market, NWA Vice President, University of Missouri-Columbia, Columbia, MO

3:15pm The Use of Climatic Anomalies and Probability Forecasts to Predict Heavy Rainfall West of the Rocky Mountains

Richard H. Grumm, NOAA/NWS State College, PA, and Michael Bodner, NOAA/NWS/NCEP/HPC Camp Springs, MD

3:30pm Refreshment Break (Grand Promenade)

Customer Service/Outreach Session

Session Chair: Diane Cooper, NOAA/NWS Twin Cities, MN

4:00pm A Collaborative Partnership to Distribute a Hurricane Guide along the Texas Gulf Coast

Scott C. Cordero and John J. Metz, NOAA/NWS Corpus Christi, TX

4:15pm County Scale Place Perception and Amplification of Short-Fuse Severe Weather Risk

Kevin Barrett, Texas State University, San Marcos, TX

Aviation Session

Session Chair: Terry Lankford, Chair NWA Aviation Meteorology Committee, Author Aviation Weather Topics and FAA Flight Service Station Specialist, Retired, Murphys, CA

4:30pm Improving Clear Air Turbulence Forecasts at NOAA's Aviation Weather Center with State-of-the-Art Research Diagnostics

John A. Knox, University of Georgia, Athens, GA, Gary P. Ellrod, NOAA/NESDIS-Retired, Granby, CT, Steven Silberberg, NOAA/NWS/NCEP Aviation Weather Center, Kansas City, MO

4:45pm Impact Aviation Verification: Using the Weather Impact Traffic Index (WITI)

Fred McMullen, NOAA/NWS/Eastern Region HQ, Bohemia, NY, and Tom MacPhail, FAA Washington, DC

5:00pm Cost-Benefit Analysis: Evaluating a Potential Weather Radar Tool for Space Vehicle Lightning Launch Commit Criteria

William H. Bauman III, NASA Applied Meteorology Unit/ENSCO, Inc., Cocoa Beach, FL

5:15pm Closing Remarks; 34th Annual Meeting Adjourns