



The NWA: Connecting
operational meteorologists
in pursuit of excellence
in weather forecasting,
communication, and
service.

No. 13 – 8

Newsletter AUGUST

2013

NWA 38th Annual Meeting: October 12 - 17, 2013, Agenda

Saturday, October 12

- 10:00am **Exhibit Room Setup:** Ballroom B
- 12:00pm **National Weather Association (NWA) Eleventh Annual Scholarship Golf Outing, Legend Oaks Golf Course,** Summerville, SC (See p. 8 for details)
- 1:00pm **Registration and Information Desk Opens:** Closes at 7pm

Sunday, October 13

- 7:00am **Registration and Information Desk Opens:** Closes at 6pm
- 8:30am **Broadcast Meteorology Workshop:** Ballroom A
- 9:00am **Exhibits Open (until 6 PM):** Ballroom B
- 12:00pm **Sixth Annual Student Session:** Ballroom C

Broadcast Meteorology Workshop Ballroom A Sponsored by Baron Services

- 8:30am **B1.0 Welcoming Remarks**
Bruce Thomas, NWA President, Midland Radio Corporation, Kansas City, MO
- 8:35am **B1.1 Opening Remarks**
Miles Muzio, NWA Broadcast Meteorology Committee Chair and KBAK-TV, Bakersfield, CA and *Mike Goldberg*, NWA Broadcast Meteorology Workshop Chair and WTVR-TV, Richmond, VA
- 8:45am **B1.2 Welcome to Charleston**
Chad Watson, WCSC-TV, Charleston, SC
- 9:00am **B1.3 Storm Prediction Center Risk Communication Strategies and Planned Enhancements**
Bill Bunting, National Oceanic and Atmospheric Administration (NOAA)/National Weather Service (NWA) Storm Prediction Center (SPC), Norman, OK

- 9:15am **B1.4 Improving NWS Communication: Hazard Simplification Demonstration**
John T. Ferree, NWA Councilor, NOAA/NWS, Norman, OK
- 9:30am **B1.5 Making Weather-Ready Nation a Reality**
Chris Strager, NOAA/NWS, Silver Spring, MD
- 9:45am **B1.6 Engaging the Viewer: LIVE Apple TV in a Weather Broadcast**
Mike Favetta, News 12 The Bronx and News 12 Brooklyn, NY
- 10:00am **Coffee Break. Exhibits Open**
- 10:30am **B2.0 Gas Line Explosion and Dual Pol Radar – How Dual Polarity Products Can Detect Smoke Threats to Public Safety**
Spencer Adkins, WOWK-TV, Charleston, WV
- 10:45am **B2.1 The Waldo Canyon and Black Forest Fires: Communication Successes and Challenges**
Matt Meister, KRDO-TV, Colorado Springs, CO
- 11:00am **B2.2 Analysis of the 30 January 2013 Adairsville, GA EF-3 Tornado**
Keith Stelman, NOAA/NWS, Peachtree City, GA
- 11:15am **B2.3 Observations on Communication Challenges and a Mass Exodus during the May 2013 Central Oklahoma Tornadoes**
Janice Bunting, NWA Councilor, Norman, OK

- 11:30am **B2.4 Chased! The El Reno, Oklahoma Tornado**
Mike Bettes, The Weather Channel, Atlanta, GA
- 11:45am **B2.5 A Review of Significant Weather Events Occurring in 2013**
Greg Carbin, NWA Councilor and Professional Development Committee Chair, NOAA/NWS/SPC, Norman, OK
- 12:15pm **Lunch on your own**
- 1:30pm **B3.0 Hurricane Workshop**
Bryan Norcross, The Weather Channel, Atlanta, GA
- 2:30pm **B3.1 Title TBA**
Jim Van Fleet, WTSP-TV, Tampa, FL
- 2:45pm **B3.2 “and the Trees Come Tumblin’ Down”**
John Bernier, WRIC-TV, Richmond, VA
- 3:00pm **Coffee Break. Exhibits Open**
- 3:30pm **B4.0 Operationalizing Vulnerability Capacity after a “Sandy Superstorm”**
Paul Croft, NWA Past President ('04), Kean University, Union, NJ
- 3:45pm **B4.1 NASA Global Hawk Hurricane Flights of 2013: Preliminary Review**
Joe Witte, National Aeronautics and Space Administration (NASA) Goddard Space Flight Center, Greenbelt, MD

All activities will be held in the North Charleston Convention Center unless otherwise noted.

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President's Message
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- 4:00pm **B4.2 Social Media Workshop**
Tim Brice, NWA Social Media Committee, NOAA/NWS, El Paso WFO Santa Teresa, NM
- 5:00pm **B4.3 A Digital Seal for Non-Traditional Weathercasting**
Miles Muzio, KBAK-TV, Bakersfield, CA and NWA Broadcast Meteorology Committee Chair
- 5:15pm **Announcements/Dinner on own**
- 7:00pm **DVD Swap**
Miles Muzio, KBAK-TV, Bakersfield, CA and NWA Broadcast Meteorology Committee Chair
Chris Dunn, KPHO-TV, Phoenix, AZ and NWA Broadcast Seal of Approval Committee Chair
- 8:30pm **Student DVD Critique**
Mike Goldberg, NWA Broadcast Meteorology Workshop Chair and WTVR-TV, Richmond, VA

Student Session: Ballroom C

- 12:00pm **Welcoming Remarks**
Bruce Thomas, NWA President, Midland Radio Corporation, Kansas City, MO
Frank Alsheimer, 2013 Annual Meeting Program Committee Chair, NOAA/NWS Charleston, SC
- 12:15pm **Careers in Academia**
Lee Lindner, College of Charleston, Charleston, SC
- 12:30pm **Careers in Broadcast Meteorology**
Dave Williams, Chief Meteorologist, WCIV-TV, Mt. Pleasant, SC
- 12:45pm **Careers in the National Weather Service**
John Gordon, NWA Vice President and Membership and Marketing Committee Chair, NOAA/NWS Louisville, KY
- 1:00pm **Careers in Private Enterprise**
Ken Carey, NWA Councilor, Earth Resources Technology, Inc., Laurel, MD
- 1:15pm **Career Opportunities as a Consultant**
Steve Harned, Executive Director of the NWA and NWA Past President ('92)
- 1:30pm **Break**
- 1:45pm **Student Social Media Workshop**
Timothy Brice, NWA Social Media Committee, NOAA/NWS El Paso WFO Santa Teresa, NM
Morgan Palmer, NWA Social Media Committee, KIRO-TV, Seattle, WA
Kevin Wagner, NWA Social Media Committee, Regional Integration Center, Philadelphia, PA
Diane Cooper, NWA Secretary and Social Media Committee Chair
- 2:45pm **Break**
- 3:00pm **Speed Mentoring Session**
Chad Gravelle, Speed mentoring Tiger Team
Ken Carey, Moderator

- 4:30pm **Dinner on your own (student poster setup)**
- Session U: Undergraduate Student Presentations**
- 6:00pm **Tested with Fire: Successes and Challenges of a Student-Run Forecasting Operation**
Devin Boyer, Penn State University, University Park, Pennsylvania
- 6:15pm **Survey and Preliminary Investigation of the Discoloration of Environmental River Water in the Manasquan River**
Anthony Ingato, Paul Croft, and Juyoung Ha, Kean University, Union, NJ
- 6:30pm **Seasonal and Annual Validation of Satellite Precipitation Products**
Meredith Nichols, Penn State University, University Park, PA
Scott D. Rudolsky and Ralph R. Ferraro, NOAA/ National Environmental Satellite, Data, and Information Service (NESDIS)/ Center for Satellite Applications and Research (STAR), College Park, MD
J. J. Wang, Cooperative Institute for Climate and Satellites-Maryland (CICS-MD)/Earth System Science Inter-disciplinary Center (ESSIC), College Park, MD
- 6:45pm **An Updated Look at Tropical Cyclone Numbers From A Global Perspective**
Matt Bolton, Pasco Hernando Community College, Port Richey, FL
H. Michael Mogil, How The Weatherworks, Naples, FL
- 7:00pm **Investigation of radar-inferred rain accumulation variability**
Joerael C. Harris, Katelyn O'Dell, Joshua B. Teves, and Michael L. Larsen College of Charleston, Charleston, SC
- 7:15pm **Student Poster Session (Ballroom B)**
- 8:30pm **Video/DVD Critique**

Monday, October 14

General Session Ballroom A

- 7:00am **Registration and Information Desk Opens: Closes at 4pm**
- 9:00am **Exhibits Open (until 6 PM): Ballroom B**
- 6:30pm **Icebreaker: SC Aquarium**
- 7:45am **Welcoming Remarks**
Steve Harned, NWA Executive Director
Frank Alsheimer, Chair, 2013 NWA Local Program Committee
- 8:00am **Keynote Address**
Bill Read, Fmr. Director of the National Hurricane Center and NWA Past President ('03)

Session I: Tropical Weather/Sandy

- 8:30am **Observations and Forecasts of Storm Surge Associated with Sandy**
Alan Cope, NOAA/NWS, Mount Holly, NJ
Jeffrey Tongue, NWA Education Committee Co-chair, NOAA/NWS, Upton, NY

- 8:45am **Global Ensemble Forecast System performance on historic East Coast Hurricanes**
Richard Grumm, NOAA/NWS, State College, PA
Ana Torres, NOAA/Office of Atmospheric Research
- 9:00am **Tropical Cyclone Potential Impact Graphics**
Pablo Santos, NOAA/NWS, Miami, FL
David Sharp, NOAA/NWS, Melbourne, FL
Frank Alsheimer, NOAA/NWS, Charleston, SC
- 9:15am **A New Method for Verifying Tropical Cyclone Forecast Wind Speed Probabilities**
Derek Ortt, ImapctWeather, Houston, TX
- 9:30am **Coffee Break**
Exhibits Open: Ballroom B
Student Posters Open: Ballroom B

Session II: Social Science I

- 10:00am **Examining Tornado Risk Communication and the Public's Knowledge to Take Action in Huntsville, AL**
Eilse V. Shultz and Marita O'Brien University of Alabama in Huntsville, Huntsville, AL
- 10:15am **Visualizing Hazards: Helping Your Audience "See" the Issue**
Stephanie Fauver, NOAA/National Ocean Service (NOS) Coastal Services Center, Charleston, SC
- 10:30am **The Social Implications of Social Media Use for NWS Operations**
Susan Jasko, California University of Pennsylvania, California, PA
Mark Fox, NOAA/NWS, Fort Worth, TX
Ken Graham, NOAA/NWS, Slidell, LA
Bruce Miller, California University of Pennsylvania, California, PA
- 10:45am **Social and Behavioral Influences on Weather-Driven Decisions of Emergency Managers**
Burrell Montz, East Carolina University, Greenville, NC
Ken Galluppi, Arizona State University, Tempe, AZ
Jessica Losego, University of North Carolina, Chapel Hill, NC
James Correia, University of Oklahoma, Norman, OK
Rachel Riley, University of Oklahoma, Norman, OK
- 11:00am **Utilizing Historical Weather Events for Education and Weather Preparedness**
John Gordon, NWA Vice President and Membership and Marketing Committee Chair, NOAA/NWS, Louisville, KY
Alan E Gerard, NWA Past President ('07), NOAA/NWS, Jackson, MS
- 11:15am **Changes to NWA Operations and Introduction of the New Executive Director**
Bruce Thomas, NWA President

11:30am **Lunch on your own**

Special Keynote Speakers

1:00pm **Dr. Louis Uccellini**
Assistant Administrator, NOAA/NWS

1:30pm **Dr. Holly Bamford**
Assistant Administrator, NOAA/NOS

Session III: May 2013 Tornadoes

2:00pm **Impact Based Warning Decisions and Broadcast Media Response for the St. Charles/ St. Louis Tornado of 31 May 2013**
Fred H. Glass and Jim Sieveking,
NOAA/NWS, St. Louis, MO

2:15pm **Observations on Communication Challenges and a Mass Exodus during the May 2013 Central Oklahoma Tornadoes**

Janice Bunting, NWA Councilor,
Norman, OK

2:30pm **Effective Use of Social Media Before, During and After the May 2013 Central Oklahoma Tornadoes**

Richard Smith, NOAA/NWS,
Norman, OK

2:45pm **The May 31, 2013 El Reno Tornado: A Communication Challenge**

John T. Ferree, NWA Councilor, NOAA/
NWS, Norman, OK

3:00pm **Coffee Break; Poster Session I Setup.**

Session IV: Special Climate Panel

3:30pm **Advancing NOAA Climate Science and Services**
Dr. Wayne Higgins, Director of NOAA's
Climate Program Office

Panelists: NOAA Societal Challenge Leads
Stephanie Herring
Paul Scholz
Roger Griffis
Roger Pulwarty
Robert Webb

5:00pm **Session Ends**

6:30pm **Ice Breaker**

8:30pm **NWA Council/Committee Chairs Meeting**

Y'all join us: Annual Meeting Heading to Charleston, SC

This year's NWA Annual Meeting in Charleston, S.C., is quickly approaching and our advance team of Executive Committee members, Councilors and a few spouses who attended the Midyear Council Meeting in Charleston did a scouting excursion of the local hangouts, and I don't mean on Google. There is a treasure trove of things to do in this historically significant southern port city. Our weekend experience was capped with a walking tour of the downtown central district, requiring an eight-mile hotel shuttle bus ride (\$7.50 fare each way) or taxi (\$20.00 fare each way) from the North Charleston Convention Center complex and adjacent Embassy Suites North Charleston, our host hotel. Embassy Suites does offer a free shuttle pick up and drop off service from Charleston International Airport—just call 843-747-1882 after you have secured your luggage. The free shuttle service will also carry you to several area restaurants, the Tanger Outlet Mall or Walmart Super Center for your dining and shopping pleasure. **Please don't forget to tip the drivers J.**

If you have not seen the movie "Sharknado" yet, you may want to hit the beach while you are in Charleston. You will need to rent a car or hitch a ride with a friend to the three main beach choices: Isle of Palms, Sullivan's Island and Folly Beach. Please allow yourself at least 30 minutes to get to the beach as it is approximately a 20 mile drive in each direction. There is also the family friendly private resort Kiawah Island if you are planning to spend a few extra days before or after the conference. If you are looking for an interesting place to dine outside and watch the local boat parade on Sunday afternoon there is the Shem Creek area, which does require transportation but is well

worth it for live music and great fun with local fare. I recommend the shrimp and grits or the whole fried or stuffed flounder if you would like to experience food unique to the Lowcountry of South Carolina.



An inspiring conference room name used for our annual Midyear Council Meeting at the Embassy Suites North Charleston.



Shrimp and grits, the consummate Lowcountry dish.

I know it must seem like we did nothing but eat, drink and tour the city during our extended weekend in Charleston, but we did accomplish several very important business items during the meeting as well. We unanimously approved a roadmap to move our national headquarters from Raleigh, N.C., to the new rapidly expanding Technology Campus surrounding the National Weather Center in Norman, Okla. This transition will start later this fall and be completed during the spring of 2014 with the retirement of our current Executive Director, Steve Harned. We also debated and approved a new lifetime membership in the organization that will allow any NWA member to pay a onetime fee and be fully vested as a

lifetime member. No more worrying about if you forgot to pay your yearly dues, which is important to many of us in the 50-plus crowd. This will be unveiled at the Annual Meeting in Charleston as well as the introduction of our new Executive Director. There were many other topics discussed along with the normal annual budget review, but the bottom line is that your NWA is a vibrantly strong volunteer-lead financially healthy organization poised to do great things in the weather community. Please accept my

strongest recommendation and invitation to come experience the NWA 38th Annual Meeting in Charleston, S.C., October 12-17 (<http://www.nwas.org/meetings/nwa2013>).

Bruce Thomas, NWA President

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Tuesday, October 15
General Session: Ballroom C

- 7:00am **Registration and Information Desk Opens: Closes at 4pm**
- 9:00am **Exhibits Open (until 4 pm): Ballroom B**
- 9:15am **Poster Session I: Ballroom B**
- 11:45am **Women's Luncheon, Meeting Rooms 10 and 11**
- 7:45am **Weather Briefing and Announcements**
- 8:00am **Keynote Address**
Dr. Jason Tuell, NOAA/NWS, Eastern Region Director

Session V: Weather-Ready Nation

- 8:30am **Making Weather- Ready Nation a Reality**
Kevin Scharfenberg, Chris Strager, Andrea Bleistein, and Doug Hilderbrand
 NOAA/NWS, Silver Spring, MD
- 8:45am **Weather-Ready Nation--Saving Lives and Livelihoods--A Weather Enterprise Initiative**
Ken Carey, NWA Councilor, Earth Resources Technology, Inc., Laurel, MD
- 9:00am **Building a Weather Support Partnership between the National Weather Service Southern Region and the Federal Emergency Management Agency (FEMA) Region IV**
Rebecca Jennings and Brandon Bolinski, FEMA Region IV, Atlanta, GA
Brian Hoeth and Kurt M. Van Speybroeck, NOAA/NWS, Fort Worth, TX

Session VIa: Severe Weather

- 9:15am **Poster Session I**
- 10:30am **Complex Supercell Mergers and Storm-Scale Interactions During Recent Significant Severe Weather Outbreaks**
Ryan Wade, Todd A. Murphy, and Kevin Knupp, Severe Weather Institute - Radar & Lightning Laboratories, University of Alabama in Huntsville, Huntsville, AL
- 10:45am **Environmental Characteristics Of Tornadoic And Non-Tornadoic QLCSS Over The Central United States**
Sarah Grana, Brett Williams, and Neil I. Fox, University of Missouri, Columbia, MO

- 11:00am **Implementation and Evaluation of a Real-Time Lightning Jump Algorithm for Operational Use**
Kristin M Calhoun, D. M. Kingfield, and K. L. Ortega, NOAA Office of Oceanic and Atmospheric Research (OAR)/ National Severe Storms Laboratory (NSSL), Norman, OK
L.D. Carey, T. Chronis, C. J. Schulz, and E. Shulz, University of Alabama – Huntsville, Huntsville, AL
M.T. Filiaggi and G. J. Stumpf, NOAA/ NWS/Meteorological Development Lab
G. T. Stano, NASA/ Short-term Prediction Research and Transition Center (SPoRT), Huntsville, AL

- 11:15am **Performance of WSR-88D Severe Storm Algorithms in Detecting Tornadoes Using the Operational Two-Dimensional Velocity Dealiasing Algorithm**
Darrel M Kingfield, NOAA/OAR/NSSL, Norman, OK
James G Ladue, NOAA/NWS/ Warning Decision Training Branch (WDTB), Norman, OK

- 11:30am **NCAA Football and Cloud to Ground Lightning: A Probability Analysis**
Matthew Reagan, Mike Brown, Tory Farney, Rachael Kroot, Nathan Owen, Lance Watkins, Teri Watkins, and Bryce Williams, Mississippi State University, MS

- 11:45am **Lunch on your own**

- 11:45am **Women's luncheon (meeting rooms 10 and 11)**

Session VIb: Winter Weather/Sandy

- 10:30am **Northwest Flow Snow Aspects of Sandy. Part I: A General Overview of NWFS in the Southern Appalachians**
Steven Keighton, NOAA/NWS, Blacksburg, VA
Laurence G. Lee, NOAA/NWS, Greer, SC

- 10:45am **Northwest Flow Snow Aspects of Sandy. Part II: A unique synoptic setting for the production of northwest flow snow**
Douglas Miller, University of North Carolina at Asheville, Asheville, NC
Steven Keighton, NOAA/NWS, Blacksburg, VA
Steven M. Zubrick, NWA Past President ('10), NOAA/NWS, Sterling, VA

- 11:00am **Northwest Flow Snow Aspects of Sandy. Part III: Moisture Anomalies and Trajectory Analysis**
David Hotz, NOAA/NWS, Morristown, TN
L. Baker Perry, Appalachian State University, Boone, NC
Steven Keighton, NOAA/NWS, Blacksburg, VA

- 11:15am **Northwest Flow Snow Aspects of Sandy. Part IV: Radar and Satellite Observations**
Patrick D. Moore and Laurence G. Lee, NOAA/NWS, Greer, SC
Steven M. Zubrick, NWA Past President ('10), NOAA/NWS, Sterling, VA
L. Baker Perry, Appalachian State University, Boone, NC

- 11:30am **Exploring the Utility of Downscaled SREF Grids for Generating Probabilistic Snowfall Forecasts**
Randy Graham and Glen Merrill, NOAA/NWS, Salt Lake City, UT

- 11:45 am **Lunch (Women's luncheon, meeting rooms 10 and 11)**

- 1:15pm **Keynote Address: Remembering Hurricane Hugo**
Rob Fowler, Chief Meteorologist, WCBD-TV, Mt. Pleasant, SC
Bill Walsh, Chief Meteorologist, WCSC-TV, Charleston, SC

Session VIIa: Warning Decision Making

- 1:45pm **A Next-Generation Warning Concept of Threats-In-Motion (TIM): Highlighting the Benefits via New Verification Techniques**
Greg Stumpf, NOAA/OAR/NSSL/ Cooperative Institute for Mesoscale Meteorological Studies (CIMMS), Norman, OK
Lans Rothfus, NOAA/OAR/NSSL, Norman, OK

- 2:00pm **The Dramatic Improvements in the Short-Fuse Warning Program Associated with the Threats-In-Motion (TIM) Concept: A Multi-Office Collaborative Study**
Pete Wolf, NOAA/NWS, Jacksonville, FL

- 2:15pm **Forecasting a Continuum of Environmental Threats (FACETs): A Next-Generation Warning Concept**
Lans Rothfus, NOAA/OAR/NSSL, Norman, OK
Greg Stumpf and Travis M. Smith, NOAA/OAR/NSSL/CIMMS, Norman, OK

- 2:30pm **The Multiple-Radar / Multiple-Sensor (MRMS) Severe Weather Algorithm Experiment in the Hazardous Weather Testbed in 2013**
James G. LaDue, NOAA/NWS/ Office of Climate, Water, and Weather Services (OCWWS)/TD/WDTB, Norman, OK
Greg Stumpf, Travis M. Smith and Kristin Calhoun, NOAA/OAR/NSSL/ CIMMS, Norman, OK
Ashley Sears, NOAA/NWS, Upton, NY

- 2:45pm **Determining Optimal Lead Times for Convective Warnings Based on Self-Assessed Human Behavior**
Joshua W. Scheck and Anthony L. Merriman, NOAA/NWS, Bismarck, ND
Chad E. Litton, University of Mary, Bismarck, ND

Join us at next year's
 Annual Meeting to be held in Salt
 Lake City, October 17 -23, 2014 at the downtown
 Sheraton Hotel

3:00pm **Operational Application of Storm Prediction Center Tornado Forecasting Tools Using a Multi-Faceted Tornadoic Storm Attribute Database**
Bryan Smith, Richard L. Thompson, John A. Hart, Andrew R. Dean, and Patrick T Marsh
 NOAA/NWS/ National Centers for Environmental Prediction (NCEP)/SPC

3:15pm **Coffee Break. Exhibits Open: Ballroom B**

Posters Open: Ballroom B
Session VIIb: Remote Sensing - Satellite

1:45pm **Joint Polar Satellite System's Proving Ground Program**
Mitch Goldberg, Bill Sjöberg, and Kathryn Shontz, NOAA/NESDIS Joint Polar Satellite System (JPSS), Lanham, MD
Ingrid Guch and Ralph Ferraro, NOAA/NESDIS/STAR, College Park, MD

2:00pm **NOAA's Joint Polar Satellite System's Proving Ground and Risk Reduction Program: Responding to Real-World Severe Weather Events!**
Bill Sjöberg and Mitch Goldberg, NOAA/NESDIS JPSS, Lanham, MD

2:15pm **NOAA Operational Satellites, Products, & Services: 2013 Status & Updates**
Tom Renkevans, Matthew Seybold, and Natalia Donoho, NOAA/NESDIS/OSPO/SPSD, College Park, MD

2:30pm **The 2013 Satellite Proving Ground at the National Hurricane Center**
Michael Folmer, UMD/Earth System Science Interdisciplinary Center (ESSIC)/Cooperative Institute for Climate and Satellites (CICS), College Park, MD
John L. Beven, and Michael Brennan, NOAA/NWS/NCEP/NHC, Miami, FL
Hugh Cobb, NOAA/NWS/NCEP/NHC/TAFB, Miami, FL
Mark DeMaria, NOAA/NESDIS/STAR

2:45pm **Environmental Analysis of GOES-R Convection Initiation Forecasting Algorithms**
Jason Apke and Mark Anderson, University of Nebraska, Lincoln, NE
 Dan Nietfeld, NOAA/NWS, Omaha, NE

3:00pm **Sky Cover: Shining Light on a Gloomy Problem**
Jordan Gerth, University of Wisconsin/CIMSS, Madison, WI

3:15pm **Coffee Break. Exhibits Open: Ballroom B**

Posters Open: Ballroom B
Session VIIIa: Weather Analysis & Forecasting

3:45pm **Medium Range Forecasting at the Weather Prediction Center (WPC) - An Ensemble Effort in Big Data**
Anthony Fracasso, Wallace Hogsett, Michael Schictel, and David Novak
 NOAA/NWS/NCEP/WPC

4:00pm **The Intense Arctic Cyclone of Early August 2012: A Dynamically Driven Cyclogenesis Event**
Lance F. Bosart, Adam H. Turchioe, and Eric M. Adamchick, The University at Albany/State University of New York, Albany, NY

4:15pm **An Analysis of Environmental Differences between Tornadoic and Non-Tornadoic Quasi-Linear Convective Systems**
Bradley Workman, University of Missouri – Columbia, Columbia, MO

4:30pm **Characteristics of Southerly Gale Events in the Mid-Atlantic Region**
Larry Brown, NOAA/NWS, Wakefield, VA

4:45pm **A Comparison of Two Major Flood Events: June 2006 and September 2011**
Christopher M. Gitro, Michael Jurewicz, and Michael S. Evans, NOAA/NWS Binghamton, NY
Neil A. Stuart, NOAA/NWS, Albany, NY
Richard H. Grumm, NOAA/NWS, State College, PA

5:00pm **mPING: Crowd-Sourcing Weather Reports for Research One Year Later**
Kimberly L. Elmore, Heather D. Reeves, and Heather Moser-Grams, University of Oklahoma and NOAA/OAR/NSSL, Norman, OK
Lans P. Rothfusz, NOAA/OAR/NSSL, Norman, OK
Deanna Apps, SUNY Oswego/OU REU

5:15pm **Relationships between Convective Mode and Tornado Warning Probability of Detection and Lead Time**
Steve Nelson, NOAA/NWS, Peachtree City, GA
Jerry A. Brotzge, CAPS/University of Oklahoma, Norman, OK
Richard L. Thompson and Bryan T. Smith, NOAA/NWS/SPC, Norman, OK

5:30pm **Session Ends; Exhibits close**

Session VIIIb: Remote Sensing - Radar

3:45pm **Diagnosis of an Unusual Dual-Polarization Radar Signature in the 29 June 2012 Derecho**
Paul Schlatter (NWA Councilor) and Charles Woodrum, NOAA/NWS, Silver Spring, MD
Mathew Kramar, NOAA/NWS, Pittsburgh, PA

4:00pm **The June 5th radar mystery blob in Huntsville, Alabama. Was it aliens? That's classified.**
Matthew Havin, Baron Services, Inc., Huntsville, AL

4:15pm **DREAMS - Doppler Radar for Education And Mesoscale Studies**
Jeffrey Tongue (NWA Education Committee Co-Chair)
Brian Colle and Jon Mak, Stony Brook University, Stony Brook, NY
Lisa Bastiaans, Nassau Community College, Garden City, NY

4:30pm **Evaluating a Hail Size Discrimination Algorithm for dual-polarized WSR-88Ds using high-resolution reports and forecaster feedback**
Kiel Ortega, Alexander Ryzhkov, Darrel Kingfield, Pengfei Zhang, and John Krause, OU/CIMMS and NOAA/OAR/NSSL, Norman, OK
Matthew Kumjian, National Center for Atmospheric Research (NCAR) Advanced Study Program, Boulder, CO

4:45pm **Improving the Accuracy of Radar Derived Rainfall Amounts in Central Missouri**
Quinn Pallardy, University of Missouri, Columbia, MO

5:00pm **Multi-Sensor Analysis of MCS Maintenance and Boundary Layer Evolution During the 4-5 June 2012 ABIDE-III Field Deployment**
Aaron Mayhew and Kevin Knupp, University of Alabama in Huntsville, Huntsville, AL

5:15pm **Observations and Analysis of Atmospheric Waves during the Historic April 27, 2011 Tornado Outbreak**
Todd A. Murphy, Timothy A. Coleman, and Kevin Knupp, Severe Weather Institute and Radar & Lightning Laboratories (SWIRLL)/Dept. of Atmospheric Science/University of Alabama in Huntsville, Huntsville, AL

5:30pm **Session Ends; Exhibits close**

Wednesday, October 16
General Session: Ballroom A

7:00am **Registration and Information Desk Opens; Closes at 4 pm**

11:45am **Awards Luncheon: Ballroom C**

2:45pm **Poster Session: Ballroom B**

7:45am **Weather Briefing and Announcements**

8:00am **Keynote Address**
Dr. Margaret Davidson
 Director of NOAA/NOS/Coastal Services Center

Session IX: Storm Surge

8:30am **Integrating Physical and Social Science as it Relates to Tropical Cyclone and Storm Surge Forecast and Warnings**
Jennifer M Sprague, NOAA/NWS

8:45am **When, Where, and How: National Ocean Service Science in Support of Communication of Storm Surge Hazards**
Jesse C. Feyen, NOAA/NOS/Office of Coast Survey, Silver Spring, MD
Keelin Kuipers, Audra Luscher, and Stephanie Fauver, NOAA/NOS/CSC
Allison Allen, NOAA/NOS/CO-OPS

9:00am **Communicating Storm Surge Threats to the Public**
Betty Hearn Morrow, SocResearch, Miami, FL
Linda Girardi, Eastern Research Group, Arlington, VA
Lou Nadeau, Eastern Research Group, Lexington, MA
Gina Eosco, Cornell University, Ithaca, NY
Jamie Rhome and Robbie Berg, NOAA/NWS/NHC, Miami, FL
Jaffrey K Lazo, NCAR, Boulder, CO

9:15am **A New National Weather Service Storm Surge Warning and Inundation Graphic**
Jamie Rhome and Robbie Berg, NOAA/NWS/NHC, Miami, FL

9:30am **Latest developments on a hurricane surge visualization model to be used to assess public understanding of risks due to storm surge**
Lee Lindner, Stephen Duke, and Janet Johnson, College of Charleston, Charleston, SC
Frank Alsheimer and Robert Bright, NOAA/NWS Charleston, SC

9:45am **Coffee Break. Posters Open: Ballroom B**

Session X: Panel: Storm Chasing

10:15am **Storm Chasing: Do the Rewards Outweigh the Risks?**
Moderator: TBD

Panelists:
Mike Bettes – The Weather Channel, Atlanta GA
James Ladue – NOAA/NWS/WDTB, Norman, OK
Richard Smith – NOAA/NWS/WFO, Norman OK
Jennifer Henderson – Virginia Tech University, Blacksburg, VA
Mark Suddath – Hurricane Intercept Research Team/HurricaneTrack.com

11:45am **NWA Annual Awards Luncheon**

Session XI: Social Media Workshop

1:45pm **Social Media Workshop**
Timothy Brice, NWA Social Media Committee, NOAA/NWS El Paso WFO Santa Teresa, NM
Morgan Palmer, NWA Social Media Committee, KIRO-TV, Seattle, WA
Kevin Wagner, NWA Social Media Committee, Regional Integration Center, Philadelphia, PA
Diane Cooper, NWA Secretary and Social Media Committee Chair

2:45pm **Poster Session II**

Session XII: NWA Professional Development Session

4:00pm **Professional Development: Building Trust**
Facilitator: Tracy Freeman

6:00pm **Session Ends**

6:30pm **NWA Council Dinner Meeting**

Thursday, October 17
General Session: Ballroom C

7:00am **Registration and Information Desk Opens; Closes at 3pm**

7:45am **Weather Briefing and NWA Announcements**

8:00am **A Review of Significant Weather Events Occurring in 2013**
Greg Carbin, NWA Councilor and Professional Development Committee Chair, NOAA/NWS/SPC, Norman, OK

Session XIII: Decision Support Services
Sessions Co-Chairs: TBD

8:30am **Situational Awareness: A Daily Event**
William Sammler, NOAA/NWS, Wakefield, VA

8:45am **Building a Weather-Ready Nation: Application and Training of NWS Roadmap Service Concepts**
Kelsey Angle, Kim Runk, Mike Hudson, and Jennifer Zeltwanger, NOAA/NWS/Central Region Headquarters, Kansas City, MO

9:00am **National Weather Service Providing Information Decision Support Services Meeting the Needs of New and Existing Government Users**
Alex Tardy, NOAA/NWS San Diego, CA

9:15am **Operational Support of the National Boy Scout Jamboree as a Model for Advancing Decision Support Services**
Chris Leonardi, Julia Rutherford, and Jonathan Wolfe, NOAA/NWS, Charleston WV
Tim Erickson and Matthew Moreland, NOAA/NWS, New Orleans/Baton Rouge, LA

9:30am **High Impact Decision Support for Incidents in the Tampa Bay Region**
Todd Baron, NOAA/NWS, Ruskin, FL

9:45am **Coffee Break. Posters Open: Ballroom B**

Session XIV: Aviation Meteorology/Services

10:15am **Aviation Weather: At the Heart of Decision Support**
Stephen Kearney, NOAA/NWS/CWSU, Memphis, TN

10:30am **The Use of Satellite Data in Forecasting High-Impact Aviation Weather Hazards**
Amanda Torborg, University of Wisconsin – CIMSS and NOAA/NWS/NCEP/AWC, Kansas City, MO

10:45am **Aviation Met-Watch/Decision Support at the FAA - Air Traffic Control System Command Center (ATCSCC)**
Michael T Eckert and Brandon Smith, NOAA/NWS/NCEP/AWC/ATCSCC, Warrenton, VA

Session XV: Multifarious

11:00am **Shock-Like Structures in the Tropical Cyclone Boundary Layer**
Dr. Gabriel J. Williams, College of Charleston, Charleston, SC
Richard K Taft, Colorado State University, Fort Collins, CO
Brian D McNoldy, University of Miami – Florida, Coral Gables, FL
Wayne Schubert, Colorado State University, Fort Collins, CO

11:15am **Nearshore Wave Prediction System: Enhancing Marine Forecasting Capabilities During High Impact Events**
Jatasey A. Gibbs and Pablo Santos, NOAA/NWS Miami, FL
Andre J. Van der Westhuysen and Roberto Padilla, NOAA/NWS/NCEP/MMAB

11:30am **Using a Combination of Flash Flood Guidance Techniques to Develop a Best-Estimate FFG Grid**
Nathan Barber, James Noel, Joseph Helm, and Robin Belton-Gerhardt, NOAA/NWS/Ohio River Forecast Center, Wilmington, OH

11:45am **A Community Frost/Freeze Susceptibility Operational Guidance Tool**
Allan Curtis, Beth Hall, Michael Timlin, Steven Hilberg, Mary Woloszyn, and Zoe Zaloudek, Midwestern Regional Climate Center, Champaign, IL
Patrick Guinan, University of Missouri-Columbia, Columbia, MO
Jeffrey Andresen and Mark Longstroth, Michigan State University, Lansing, MI
Ray Wolf, NOAA/NWS

12:00pm **Lunch on your own**

General Session: Ballroom C
Session XVI: Remote Sensing II

1:30pm **The Use of Correlation Coefficient NEXRAD Data in Diagnosing Weak and Low-End Tornadoic Storms in the Southeast US - Some Examples and Caveats**
John M. Trostel, Severe Storms Research Center, Georgia Tech Research Institute, Atlanta GA
Steven E. Nelson, NOAA/NWS Peachtree City, GA
Christopher T. Schultz, University of Alabama - Huntsville, Huntsville, AL

1:45pm **GOES-R Proving Ground Activities within the Storm Prediction Center**
William Line, University of Oklahoma –CIMMS and NOAA/NWS/SPC, Norman, OK

2:00pm **Tornadoic Debris Signature Usage in National Weather Service Warnings**
Christopher Spannagle and Tiffany Meyer, NOAA/NWS/OCCWS/WDTB, Norman, OK
Paul Schlatter, NWA Councilor, NOAA/NWS/OST Silver Spring, MD

2:15pm	Simulated Satellite Imagery: A New Tool for Cloud Cover Forecasting <i>Daniel T. Lindsey</i> , NOAA Center for Satellite Applications and Research, Fort Collins, CO <i>Louie Grasso, Dan Bkios, and Ed Szoke</i> , Cooperative Institute for Research of the Atmosphere, Fort Collins, CO	4:15pm	Communicating the Message of High-Impact, Sub-Advisory Winter Events: Challenges and Ideas <i>Andy Latto</i> , NOAA/NWS Wilmington, OH
2:30pm	Development and future role of the GLM Lightning Jump Algorithm in the warning decision making framework <i>Elise V. Schultz, Christopher J. Shultz, and Lawrence D. Carey</i> , University of Alabama – Huntsville, Huntsville, AL <i>Daniel J. Cecil</i> , NASA/MSFC, Huntsville, AL <i>Geoffrey T. Stano</i> , NASA SPoRT/Ensco, Huntsville, AL <i>Monte Bateman</i> , USRA, Huntsville, AL <i>Steve Goodman</i> , NOAA/NESDIS/GOES-R Program Office, Greenbelt, MD	4:30pm	Evaluation of National Weather Service Heat Advisory, Watch, and Warning Criteria for Triggering a Heat Emergency Response Plan in North Carolina <i>Chris Fuhrmann, Maggie Kovach, and Chip Konrad</i> , Southeast Regional Climate Center, University of North Carolina at Chapel Hill <i>Lauren Thie</i> , North Carolina Division of Public Health <i>Steve Lippmann</i> , Department of Epidemiology, University of North Carolina at Chapel Hill <i>Anna Waller</i> , Department of Emergency Medicine, University of North Carolina at Chapel Hill <i>Nick Petro</i> , NOAA/NWS, Raleigh, NC
2:45pm	Using GOES-R Demonstration Products to Bridge the Gap Between Severe Weather Watches and Warnings for the 20 May 2013 Moore, OK Tornado Outbreak <i>Chad Gravelle</i> , CIMSS, SSEC, University of Wisconsin-Madison, NWS Operations, Proving Ground, Kansas City, MO <i>John Mecikalski</i> , ESSC, University of Alabama in Huntsville, Huntsville, AL <i>Ralph Petersen and Justin Sieglaff</i> , CIMSS, SSEC, University of Wisconsin-Madison, Madison, WI <i>Geoffrey Stano</i> , NASA SPoRT/ ENSCO, Inc., Huntsville, AL	4:45pm	Using COMET's Conceptual Materials in Communicating High Impact Events <i>Elizabeth Mulvihill Page, Amy Stevermer, and Bruce Muller</i> , UCAR/COMET, Boulder, CO
3:00pm	Coffee Break	5:00pm	An Update on the Central Region Impact-Based Warning Demonstration <i>Michael J Hudson</i> , NOAA/NWS Kansas City, MO <i>Kenneth J. Galluppi</i> , Decision Theater, Arizona State University, Tempe, AZ <i>Jessica L. Losego</i> , Institute for the Environment, University of North Carolina at Chapel Hill <i>Burrell E. Montz</i> , Department of Geography, East Carolina University, Greenville, NC
Session XVII: Social Science II		5:15pm	Closing Remarks
3:30pm	The Weather Enterprise System: A New Look at Responsibilities of the Partners in Managing Severe Weather Response Health <i>Laura Myers</i> , University of Alabama, Tuscaloosa, AL <i>Susan Jasko</i> , California University of Pennsylvania, California, PA <i>Jennifer Henderson</i> , Virginia Tech University, Blacksburg, VA <i>Vankita Brown</i> , NOAA/NWS	5:30pm	38th NWA Annual Meeting adjourns
3:45pm	Assessing the Impacts of the NOAA Coastal Storms Program (CSP) on Community Resiliency to Storms in the Gulf of Mexico <i>Lou Nadeau, Lauren Jankovic, and Melanie Sands</i> , Eastern Research Group, Inc., Lexington, MA <i>Audra Luscher-Aissaoui</i> , NOAA/CSC, Silver Spring, MD <i>Tracie Sempier</i> , MS-AL Sea Grant, Ocean Springs, MS	<div> <div>PROFESSIONAL DEVELOPMENT</div> <div> <p>2013 NWA sponsored Meetings, Conferences and Special Events</p> <p>Oct. 12–17: The 38th NWA Annual Meeting http://www.nwas.org/meetings/nwa2013/</p> <p>Oct. 28–29: Northern Plains Winter Storm Conference (2013NPWSC) This Eighth annual conference will be held at St. Cloud State University in Saint Cloud, Minn. Abstracts due 4 October. The Central Minnesota NWA Chapter at SCSU is a sponsor. http://www.stcloudstate.edu/ahs/npwsc/default.asp</p> <p>Other Meetings, Conferences and Special Events in 2013</p> <p>Sept.16–20: The 19th AMS Satellite Meteorology, Oceanography and Climatology Conference and the 2013 EUMETSAT Meteorological Satellite Conference International conference in Vienna, Austria. Session topics include current and future satellites, instruments and their applications, climate, calibration and characterization, and data access for easy utilization. The overarching theme will be water vapor, clouds, and precipitation, and the use of current and planned Earth observation systems to improve our understanding and adequately monitor trends and variability in the global hydrological system. For more information, please visit http://www.conferences.eumetsat.int.</p> <p>Sept. 23–26: Virtual US-Canada Border Conference This conference via Webinar will cover many topics related to weather along the US-Canada Border. Details on the conference purpose and recommended audience at: http://www.crh.noaa.gov/bis/?n=nws_border_conference</p> <p>Feb. 2–6, 2014: 94th AMS Annual Meeting The theme is “Extreme Weather—Climate and the Built Environment: New Perspectives Opportunities, and Tools.” http://annual.ametsoc.org/2014/index.cfm/programs-and-events/theme</p> </div> </div>	
4:00pm	What's the Frequency? New NOAA Tools for Mapping and Calculating Coastal Flood Advisory Areas and Frequency <i>Matthew Pendleton and William Brooks</i> , NOAA/NOS Coastal Services Center, Charleston, SC		

NWA 38th Annual Meeting: October 12 - 17, 2013

Charleston, S.C.

<http://nwas.org/meetings/nwa2013/>

Social Media

The NWA will provide updates on this Web page, on the NWA Facebook Page, Twitter and other social media. Please use the hashtag #NWAS13 for any tweets associated with the 2013 Annual Meeting.

For more information on exhibits, special accommodations, registration and the overall meeting program, keep checking web page and the links above or contact the NWA office at (919) 845-1546 or exdir@nwas.org.

Meeting Location

North Charleston Convention Center
5001 Coliseum Drive
North Charleston, SC 29418

Host Hotel

(Right next door to the meeting!)
BOOK SOON as rooms filling up:
Embassy Suites North Charleston
5055 International Boulevard
North Charleston, South Carolina, 29418

Please join us for the
11th Annual
NWA
Scholarship Golf Outing

Saturday, October 12
Noon BBQ Lunch
1PM Shotgun start

Legend Oaks Golf Club
Summerville, SC

\$85 per player
Includes: BBQ lunch, greens fees,
cart & donation to scholarship fund

- Reserve your individual or team spot -
email: betsykling@wkyc.com

Presented by:
BARON



IMPORTANT DATES

Oct. 12-17
38th NWA Annual Meeting, Charleston, S.C.

Oct. 28-29
Northern Plains Winter Storm Conference, St.
Cloud, Minn.

*See page 7 for additional dates and
professional development opportunities!*

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