



**Program Agenda**  
**(Updated 10 October 2011)**  
changes or additions from previous update in red

National Weather Association  
36<sup>th</sup> Annual Meeting  
Wynfrey Hotel, Birmingham, Alabama  
October 15-20, 2011



Theme: The End Game - From Research and Technology to Best Forecast and Response

See the main meeting page <http://www.nwas.org/meetings/nwa2011/> for information on the meeting hotel, exhibits, sponsorships and registration

**Authors**, please inform the Program Committee at [annualmeeting@nwas.org](mailto:annualmeeting@nwas.org) for any corrections or changes required in the listing of your presentations or abstracts as soon as possible. This agenda will be updated periodically as changes occur. Instructions for uploading your presentation to the FTP site can be found [here](#). All presenters please read the [presentation tips](#) which explain the AV systems, poster board sizes and provide suggestions for good presentations.

All activities will be held in the Wynfrey Hotel unless otherwise noted. Please check in at the NWA Information and Registration desk at the Wynfrey Hotel earliest to receive nametags, program and the most current information.

## Saturday, October 15

- 10:00am **NWA Aviation Workshop at the Southern Museum of Flight.** Contact Terry Lankford [t.t.lankford@comcast.net](mailto:t.t.lankford@comcast.net) for more information. The workshop is from 10 am until 1 pm.
- 10:00am **NWA WeatherFest at the McWane Science Center.** Contact James-Paul Dice [jdice@wbrc.com](mailto:jdice@wbrc.com) for more information. The event is from 10 am until 2 pm.
- 11:00am **NWA Ninth Annual Scholarship Golf Outing, Bent Brook Golf Course,** sponsored by [Baron Services](#). Contact Betsy Kling [betsykling@wkyc.com](mailto:betsykling@wkyc.com) for more information or to sign-up. Tee times at 11:30 am and 12:30 pm.
- 1:00pm **Registration and Information Desk Opens: Closes at 7pm**
- 1:00pm **Exhibit Room Setup:** Riverchase Ballroom

## Sunday, October 16

- 7:00am **Registration and Information Desk Opens: Closes at 6pm**
- 8:30am **Broadcast Meteorology Workshop: Wynfrey ABC**
- 9:00am **Exhibits Open: Riverchase Ballroom**
- 12:00pm **Fourth Annual Student Session: Wynfrey DE**

## **Broadcast Meteorology Workshop Wynfrey ABC**

- 8:30am           **Welcoming Remarks**  
Dr. Patrick S. Market, NWA President, University of Missouri at Columbia, Columbia, MO
- 8:35am           **Opening Remarks**  
Nick Walker, The Weather Channel and NWA Broadcast Meteorology Committee Chair, Atlanta, GA and Mike Goldberg, WSET-TV Lynchburg, VA and NWA Broadcast Meteorology Workshop Chair
- 8:45am           **Welcome to Birmingham**  
James Spann, Chief Meteorologist, WBMA-TV, Birmingham, AL
- 9:00am           **Keynote Address – Terrible 2011 Tornadoes**  
Dr. Greg Forbes, The Weather Channel, Atlanta, GA
- 9:15am           **The 27 April 2011 Tornado Outbreak: An Overview of the Severe Weather Coverage Plan Implemented by WBRC Television**  
James P. Dice, Chief Meteorologist, and Wesley A. Wyatt, Weekend Meteorologist, WBRC-TV, Birmingham, AL
- 9:30am           **New Social Technology and its Effectiveness During the 27 April 2011 Alabama Tornado Outbreak**  
Ted McInerney and Kalee Dionne, WIAT-TV, Birmingham, AL
- 9:45am           **The Residents of Smithville, MS: What Worked and What Didn't Work During an EF5 Tornado**  
Michael Brown (Chair, NWA Broadcast Meteorology Testing), Kathy Sherman-Morris and Brittany Bell, Mississippi State University, Starkville, MS
- 10:00am          **Shelter Seeking Behavior of Tuscaloosa Residents for a Future Tornado Event**  
Jason C. Senkbeil, University of Alabama, Tuscaloosa, AL
- 10:15am          **Coffee Break. Exhibits Open: Riverchase Ballroom**
- 10:45am          **Restoring Power After the Tornadoes: Understanding Outages and That Confusing Electric-Utility Jargon**  
Pam Boyd, Storm Center Director, Alabama Power Company
- 11:00am          **Social Media and its Role in Saving Lives in the Joplin, Missouri Tornado**  
Brian Davis, KOAM-TV, Joplin, MO
- 11:15am          **Challenges in Handling QLCS Tornadoes: Or Are They Tornadoes?**  
Daniel McCarthy, Michael Ryan and David Tucek, NOAA/National Weather Service, Indianapolis, IN
- 11:30am          **The Haboob from Hell: The Filthy Look at These Monsters of the Monsoon and the One That Swallowed Phoenix**  
Sean McLaughlin, KPHO-TV, Phoenix, AZ
- 11:45am          **A Review of Significant Weather Events Occurring in 2011**  
Greg Carbin, NOAA/National Weather Service/Storm Prediction Center, Norman, OK
- 12:15pm          **Lunch on your own**
- 1:30pm           **On Communicating Weather and Climate Information**  
H. Michael Mogil, How The Weatherworks, Naples, FL
- 1:45pm           **Climate Change Workshop Preview**

- 2:00pm **The Nashville Flood of 2010: A Broadcaster's Perspective**  
Davis Nolan, WKRN-TV, Nashville, TN
- 2:15pm **Overview of the Hydrometeorological Prediction Center (HPC) Precipitation and Flash Flood Products and Services**  
Michael Eckert, NOAA/NWS/HPC, Camp Springs, MD
- 2:30pm **Preview of NPP Satellite: Launching October 27, 2011**  
Joe Witte, NASA Goddard, Arlington, VA
- 2:45pm **GOES-R for Broadcast Meteorologists: Going from a Trickle to a Fire Hose**  
Dan Satterfield, WHNT-TV, Huntsville, AL
- 3:00 pm **Coffee Break. Exhibits Open: Riverchase Ballroom**
- 3:30pm **NHC Tropical Operations Training for Broadcast Meteorologists**  
Bill Read (NWA President 2003), Director, NOAA/NWS/National Hurricane Center, Miami, FL
- 3:45pm **New NOAA-Derived Data Products for the TV Broadcast Market**  
Elizabeth Valenti, WorldWinds, Inc., Slidell, LA  
Dr. Patrick Fitzpatrick, Mississippi State University, Stennis Space Center, MS  
Robert Dreisewerd, Baron Services, Huntsville, AL  
Ralph R. Ferraro (Chair, NWA Remote Sensing Committee), NOAA/NESDIS, College Park, MD
- 4:00pm **Moonstruck Meteorology**  
Joe Rao, News 12 Westchester/Hudson Valley, Yonkers, NY
- 4:15pm **Broadcast Meteorology in 2011: A Salary Survey of Broadcast Meteorologists**  
Mark Reynolds, Chief Meteorologist, WJHL-TV, Johnson City, TN
- 4:30pm **Panel Discussion: Broadcast Meteorology—The Current State of the Business**
- 5:15pm **Announcements/Dinner on your own**
- 6:00pm **Climate Change Workshop** (sign up required)
- 7:00pm **DVD Swap**  
Nick Walker, The Weather Channel and NWA Broadcast Meteorology Committee Chair  
Miles Muzio, KBAK-TV, Bakersfield, CA and NWA Broadcast Seal of Approval Committee Chair
- 8:30pm **Student DVD Critique**  
Mike Goldberg, WSET-TV Lynchburg, VA and NWA Broadcast Meteorology Workshop Chair

## **Student Session**

### **Wynfrey D**

- 12:00pm **Welcoming Remarks**  
Dr. Patrick Market, NWA President, University of Missouri at Columbia, Columbia, MO  
Steve Harned CCM (NWA President 1992), NWA Executive Director, Raleigh, NC
- 12:15pm **Now for Something Completely Different**  
Wendy Schreiber-Abshire (NWA Councilor), UCAR COMET, Boulder, CO
- 12:45pm **Job Prospects You Never Considered**  
Steve Harned CCM (NWA President 1992), NWA Executive Director, Raleigh, NC
- 1:15pm **Government Opportunities for Meteorologists and Atmospheric Scientists**  
Dr. Andrew L. Molthan, NASA SPoRT Center and NASA/MSFC, Huntsville, AL

- 1:45pm **Playing Offense: “Separating Yourself from the Rest In the Ever Increasing Job Market”**  
John Gordon, (NWA Councilor & Chair, NWA Membership and Marketing Committee) NOAA/National Weather Service, Louisville, KY
- 2:15pm **Resume and Interview One-on-Few Workshop (break included)**  
Meet with representatives from government, private, and media sectors
- 4:00pm **Career Panel Discussion – Participants Interview the Interviewers!**
- 5:00pm **Dinner on your own**
- 6:30pm **Student Poster Session: Wynfrey E**

## **Student Poster Session Wynfrey E**

- P0.1 **A Severe Winter Storms Climatology for Missouri from 1960-2010.** Katie Crandall and Patrick Market (NWA President), University of Missouri at Columbia, Columbia, MO
- P0.2 **A Synoptic Hydroclimatology within the Green River Watershed in Kentucky.** Lindsay Rice, Western Kentucky University, Bowling Green, KY; Mark Sghiatti, University of Georgia, Athens, GA; William Tollefson, Mississippi State University, Starkville, MS; Clayton Hunt, University of Georgia, Athens, GA and Josh Durkee, Western Kentucky University, Bowling Green, KY
- P0.3 **An Analysis of the Flash Flood Monitoring and Prediction Advanced Systems Effectiveness in the Warning Decision-Making Process at the Baltimore/Washington National Weather Service Office.** Justin Turco, University of Maryland, College Park, MD and Stephen B. Konarik and Jason C. Elliott, NOAA/National Weather Service, Sterling, VA
- P0.4 **An Investigation of Null-Event Severe Convective Watches in the WFO Baltimore/Washington Forecast Area.** Lee Picard, University of Miami, Coral Gables, FL; Matthew Kramar, Gregory S. Schoor, and Steven Zubrick (NWA President 2010), NOAA/National Weather Service, Sterling, VA and Andy Dean, NOAA/NWS/Storm Prediction Center, Norman, OK
- P0.5 **Moved to Poster Session IV as P4.44 Available Tools for Visualizing and Analyzing GOES-R Advanced Baseline Imager (ABI).** Kaba Bah, CIMSS UW-Madison, Madison, WI; Tim Schmit, CIMSS NOAA/NESDIS, Madison, WI; Tom Achtor, CIMSS UW-Madison, Madison, WI; Marcia Cronce, NOAA/National Weather Service, Milwaukee/Sullivan WI and Gary Wade, CIMSS NOAA/NESDIS, Madison, WI
- P0.6 **Climatology of Tornadoes in the Baltimore/Washington Area (1950-2010).** Jessica Showers, North Carolina State University, Raleigh, NC and Jared Klein, Christopher Strong and Steven M. Zubrick (NWA President 2010), NOAA/National Weather Service, Sterling, VA
- P0.7 **Comparison of the Dynamic and Kinematic Features in Recent Blizzard and Near-Blizzard Events over Iowa.** Jennifer L. Power and Patrick Market (NWA President), University of Missouri at Columbia, Columbia, MO and Craig Cogil, NOAA/National Weather Service, Johnston, IA
- P0.8 **Correlation of Arctic Oscillation and U.S. Climate.** Darren Milliron and Thomas Giordano, Kean University, Union, NJ
- P0.9 **Critical Sounding Parameters for Severe Pulse Thunderstorms in Coastal South Carolina.** Aaron Mayhew, Central Michigan University, Mount Pleasant, MI and Frank Alsheimer, NOAA/National Weather Service, Charleston, SC
- P0.10 **Emergency Response: Thunderstorm Hazards Responses, Emergency Activities, and Threats.** Lauren Kusik and Paul J. Croft (NWA President 2004), Kean University, Union, NJ
- P0.11 **Examination of Risk: Thunderstorm Activity and the Beach.** Mike Kyle and Paul J. Croft (NWA President 2004), Kean University, Union, NJ

- P0.12 **Factors Influencing Tropical Cyclone Tornado Outbreaks for Land falling Gulf Coast Hurricanes.** Cory L. Rhodes, University of Alabama, Tuscaloosa, AL
- P0.13 **False Alarm Rates of Tornadoes from QLCS and Supercells.** Sara Jupin, Georgia Institute of Technology, Atlanta, GA and Steven Nelson, NOAA/National Weather Service, Peachtree City, GA
- P0.14 **Geospatial Verification of the April 27, 2011 and October 6, 2010 Tornado Events.** Melissa A. Wagner, Arizona State University, Tempe, AZ
- P0.15 **Impacts of Weather on Individual Human Space-Time Behavior.** Roberto Gomez and Feng Qi, Kean University, Union, NJ and Fei Du, University of Wisconsin at Madison, Madison, WI
- P0.16 **Operational Fog Forecasting.** Ryan Grantuskas and Paul J. Croft (NWA President 2004), Kean University, Union, NJ
- P0.17 **Patterns that Produce Large and Small Snowfall Events for Homer, Alaska.** Scott Ozog, Central Michigan University, Mount Pleasant, MI and James Nelson, NOAA/National Weather Service, Anchorage, AK
- P0.18 **Preliminary Investigation of a Non-Remediated Environment and Sampling.** Lisa Mateo, Alexis Ottati, and Paul J. Croft (NWA President 2004), Kean University, Union, NJ
- P0.19 **Scenario Based Hurricane Evacuation Decision Making and Route Selection for Pensacola, FL.** Meganne Rockman, University of Alabama, Geography Department, Tuscaloosa, AL
- P0.20 **Synoptic-Scale Climatology of Severe Weather Outbreaks.** Joshua G. Hollingsworth and Chad M. Shafer, University of South Alabama, Mobile, AL
- P0.21 **The Historic August 4, 2009 Flash Flood in Louisville, Kentucky.** Jenna M. Mackin, Geoffrey L. Sego and Timothy E. Dowling, University of Louisville, Louisville, KY
- P0.22 **The Historic Cold Wave of November 11, 1911 in Missouri: Using A Modern Cold Frontal Passage to Draw Parallels to a Historic Weather Event.** Evan Kutta, Brian Crow, Patrick S. Market (NWA President), Jennifer L. Power, Katie Crandall and Neil I. Fox, University of Missouri at Columbia, Columbia, MO and Patrick E. Guinan, Missouri Climate Center, Columbia, MO
- P0.23 **The Impact of Social Network Communication during the April 27, 2011 Tuscaloosa, Alabama Tornado.** Courtney N. Thompson and David M. Brommer, Department of Geography, University of Alabama, Tuscaloosa, AL
- 8:30pm **Student DVD Critique**  
Mike Goldberg, WSET-TV Lynchburg, VA and NWA Broadcast Meteorology Workshop Chair

## Monday, October 17

### General Session Wynfrey ABC

- 7:00am **Registration and Information Desk Opens: Closes at 4pm**
- 9:00am **Exhibits Open: Riverchase Ballroom**
- 9:00am **Teachers Workshop: Yorkshire/Wyndsor details at: [http://www.nwas.org/committees/ed\\_comm/BHM/](http://www.nwas.org/committees/ed_comm/BHM/)**
- 3:00pm **Poster Session: Wynfrey DE**
- 6:30pm **Tailgate Party: Riverchase Ballroom**
- 7:30am **Weather Briefing**

7:45am **Welcoming Remarks**  
Pat Market, NWA President, University of Missouri at Columbia, Columbia, MO  
Steve Harned CCM (NWA President 1992), NWA Executive Director, Raleigh, NC

7:50am **Announcements**

8:00am **Keynote Address**  
Dr. Larry DeLucas  
Professor, University of Alabama Birmingham and former NASA Astronaut, Birmingham, AL

**Session I: 27<sup>th</sup> April 2011 Deep South Outbreak I**

**Session Chair: Alan E. Gerard (NWA President 2007), Chair 2011 NWA Abstract Committee, NOAA/National Weather Service, Jackson, MS**

8:30am **The Record Breaking 2011 Spring Tornado Season: Historic Perspectives and Challenges for the Future**  
Russell Schneider, Greg Carbin and Andy Dean, NOAA/NWS/Storm Prediction Center and Harold Brooks, NOAA/OAR/National Severe Storms Laboratory, Norman, OK

8:45am **Quantifying the Significance of the 26-27 April 2011 Severe Weather Outbreak**  
Matthew S. Stalley, Chad M. Gravelle and Charles E. Graves, Saint Louis University, St. Louis, MO and John P. Gagan, NOAA/National Weather Service, Springfield, MO

9:00am **The Rare Synoptic and Mesoscale Setup Leading to the 27 Apr 2011 Tornado Outbreak**  
Dr. Timothy Coleman, University of Alabama in Huntsville, Huntsville, AL

9:15am **Evolution and Impacts of the 27 April 2011 Early Morning Quasi-Linear Convective System**  
Andy Kula and Stephen Latimer, NOAA/National Weather Service, and Dr. Kevin Knupp and Dr. Timothy Coleman, University of Alabama in Huntsville, Huntsville, AL

9:30am **Analysis of the North Alabama MCV on the Morning of 27 April 2011**  
Stephanie Mullins and Kevin Knupp, University of Alabama in Huntsville, Huntsville, AL

9:45am **Preliminary Observations of the Mid-day 27 April 2011 North Alabama Tornadoic QLCS from Multiple Radar Platforms.** Ryan A. Wade, Todd A. Murphy and Kevin R. Knupp, University of Alabama in Huntsville, Huntsville, AL

10:00am **Coffee Break. Exhibits Open: Riverchase Ballroom  
Posters Open: Wynfrey Ballroom DE**

**Session II: 27<sup>th</sup> April Deep South Outbreak II**

**Session Chair: Jeffrey Evans (NWA Councilor), NOAA/National Weather Service, Tallahassee, FL**

10:30am **A Stormscale and Damage Survey Analysis of the East-Central Mississippi Violent Tornado of April 27, 2011**  
Greg Garrett and Eric Carpenter, NOAA/National Weather Service, Jackson, MS

10:45am **The Small Mississippi Town That Disappeared: The Smithville, Mississippi Tornado of 27 April 2011**  
Zwemer Ingram and Joseph Lowery, NOAA/National Weather Service, Memphis, TN, Richard Okulski (Chair, NWA Special Operational Services Committee), NOAA/National Weather Service, Caribou, ME

11:00am **The 2011 Super Outbreak - North and Central Georgia**  
Steven Nelson and Lans P. Rothfus, NOAA/National Weather Service, Peachtree City, GA

11:15am **An Examination of the Tornado Warnings across Alabama from 27 April 2011**  
Kevin B. Laws, NOAA/National Weather Service, Birmingham, AL and Christina C. Crowe, NOAA/National Weather Service, Huntsville, AL

11:30am **Use of NASA Satellite Data in Tornado Damage Path Assessment**  
Brian Carcione, NOAA/National Weather Service, Huntsville, AL; Kevin Laws, NOAA/National Weather Service, Birmingham, AL, Gary Jedlovec, Andrew Molthan and Matthew Smith, NASA/Short-term Prediction and Research Center, Huntsville, AL, and Frank LaFontaine, NASA SPoRT Center/Raytheon Corp., Huntsville, AL

11:45am **Lunch on your own**  
Free Student Luncheon 11:45 – 12:45. If you are a student attending the NWA Annual Meeting, the NWA Membership and Marketing Committee members invite you to a mentoring lunch with some meteorological heavy hitters in the Food Court of the Riverchase Galleria, just steps from the meeting hotel. A free Chik-fil-A lunch will be provided. A ticket will be in your registration packet.

### **Session III: Missouri Tornadoes and Radar I**

**Session Chair: David Freeman (NWA Councilor), Chief Meteorologist, KSNW-TV, Wichita, KS**

1:00pm **Warning Operations and Decision Making for the St. Louis Tornadoes on Good Friday, 22 April 2011**  
Fred H. Glass (Chair, NWA Awards Committee), NOAA/National Weather Service, St. Louis, MO

1:15pm **Factors Contributing to the Lack of Fatalities and Significant Injuries with April 22, 2011 St. Louis Missouri EF-4**  
Laura Kanofsky, NOAA/National Weather Service, St. Louis, MO

1:30pm **22 May 2011 Southwest Missouri Tornadoes including the Historic EF-5 Rated Joplin Tornado**  
Jason S. Schaumann, Eric Wise, John Gagan and Andy Boxell, NOAA/National Weather Service, Springfield, MO

1:45pm **NWS Operations and Decision Support During and Following the 22 May 2011 Joplin Missouri Tornado**  
Andy Foster, Andy Boxell, John Gagan, Michael Griffin and Jon Kurtz, NOAA/National Weather Service, Springfield, MO

2:00pm **Dual-Polarimetric Radar-based Tornado Debris Paths Associated with EF-4 and EF-5 Tornadoes over Northern Alabama during the historic outbreak of 27 April 2011**  
Lawrence D. Carey, Christopher J. Schultz and Elise V. Schultz, University of Alabama in Huntsville; Walter A. Petersen, NASA Marshall Space Flight Center; Patrick N. Gatlin and Kevin R. Knupp, University of Alabama in Huntsville; Andrew L. Molthan and Gary J. Jedlovec, NASA Marshall Space Flight Center and Christopher B. Darden, NOAA/National Weather Service, Huntsville, AL

2:15pm **The Experimental Warning Program at the NOAA Hazardous Weather Testbed: Experimenting With New Warning Verification and Service Techniques**  
Greg Stumpf, CIMMS NOAA/NWS, Norman, OK

2:30pm **Withdrawn Characteristics of Mesovortex Evolution During the 13 May 2010 Severe Bow Echo Event over Northeast Oklahoma**  
Ron W. Przybylinski, NOAA/National Weather Service, St. Louis, MO and Karen Hatfield, Brad McGavock, Steve Amburn and Steve Piltz, NOAA/National Weather Service, Tulsa, OK

2:45pm **moved up to 2:30 The Use of Dual Polarimetric Tornadic Debris Signatures in an Operational Setting**  
Christopher J. Schultz and Elise V. Schultz, Dept of Atmospheric Science, University of Alabama in Huntsville; Christopher B. Darden, Brian C. Carcione, Christina C. Crowe and David J. Nadler, NOAA/National Weather Service; Lawrence D. Carey, Earth System Science Center, University of Alabama in Huntsville; Walter A. Petersen, NASA Marshall Space Flight Center; Patrick N. Gatlin, Earth System Science Center, University of Alabama in Huntsville, and Kevin R. Knupp, Dept of Atmospheric Science, University of Alabama in Huntsville, Huntsville, AL

3:00pm **moved up to 2:45 Coffee Break; Exhibits Open and Poster Session**

## Poster Session I: Severe Weather

- P1.1 **A Brief Climatology of Mountain Tornadoes in the Blacksburg County Warning Area.** Kristian A. Mattarochia, NOAA/National Weather Service, Blacksburg, VA
- P1.2 **A Case Study of the 16 April 2011 Tornado Outbreak Across Eastern North and South Carolina and Southeastern Virginia.** David A. Glenn, Brian Cullen, Scott Kennedy and Robert Frederick, NOAA/National Weather Service, Newport/Morehead City, NC; Andrew Zimmerman, NOAA/National Weather Service, Wakefield, VA and Reid Hawkins, NOAA/National Weather Service, Wilmington, NC
- P1.3 **A Damage and Radar Overview of the New Year's Eve 2010 Tornado Outbreak.** Fred H. Glass (Chair, NWA Awards Committee), NOAA/National Weather Service, Saint Louis, MO
- P1.4 **A Lightning Climatology of North Carolina.** Morgan Brooks, NOAA/National Weather Service, Milwaukee/Sullivan, WI and Gail Hartfield and Jonathan Blaes, NOAA/National Weather Service, Raleigh, NC
- P1.5 **Withdrawn A Pilot Project on Floodplain Management Decision Support.** Glenn Austin, National Hydrologic Warning Council, Raleigh, NC
- P1.6 **A Rare South Texas Tornado Produced During the January 9, 2011 Quasi-Linear Convective System.** Michael Buchanan, NOAA/National Weather Service, Corpus Christi, TX
- P1.7 **A Significant Tornado Index Tuned for Local Weather Forecast Offices.** Donald Van Dyke, NOAA/National Weather Service, Tallahassee, FL
- P1.8 **A Statistical Model for U.S. Annual Lightning Fatalities.** William P. Roeder, Private Meteorologist, Rockledge, FL
- P1.9 **An Overview of the Total Lightning Jump Algorithm: Past, Present and Future Work.** Christopher J. Schultz, University of Alabama in Huntsville, Huntsville, AL; Walter A. Petersen, NASA Marshall Space Flight Center, Huntsville, AL; Lawrence D. Carey, University of Alabama in Huntsville, Huntsville, AL and Wiebke Deierling and Cathy Kessinger, Research Applications Laboratory, NCAR, Boulder, CO
- P1.10 **Analysis of May 15, 1998 Iowa/Minnesota Derecho.** Wesley Terwey, University of South Alabama, Mobile, AL and Ryan Wade, University of Alabama at Huntsville, Huntsville, AL
- P1.11 **C-Band Dual-Polarimetric Radar Signatures of Hail.** Matthew E. Anderson, NOAA/National Weather Service, Topeka, KS; Lawrence D. Carey, University of Alabama in Huntsville, Huntsville AL; Walt A. Petersen, NASA Marshall Space Flight Center, Huntsville, AL and Kevin R. Knupp, University of Alabama in Huntsville, Huntsville AL
- P1.12 **Classification of Tornado Seasons Based on Storm Characteristics.** P. Grady Dixon, Mississippi State University, Starkville, MS and Andrew E. Mercer, Northern Gulf Institute, Stennis Space Center, MS
- P1.13 **Determining the Severe Weather Potential across Parts of the Ohio Valley, West Virginia, and New York City on 16 September 2010.** Josh Korotky, NOAA/National Weather Service, Pittsburgh, PA
- P1.14 **The Future of Estimating Tornado Strength.** James G. LaDue, NOAA/NWS/Warning Decision Training Branch, Norman, OK
- P1.15 **Evaluation of the Storm-Scale Ensemble of Opportunity during the 2011 Hazardous Weather Testbed Spring Experiment.** Israel L. Jirak, Steven J. Weiss (NWA President 2005) and Christopher J. Melick, NOAA/NWS/Storm Prediction Center, Norman, OK
- P1.16 **External Mesoscale Effects on Mesocyclones and Tornadoes.** Timothy A. Coleman and Kevin R. Knupp, University of Alabama in Huntsville, Huntsville, AL
- P1.17 **Flood Hazard Monitoring in Colorado Mountains with Mobile Doppler Radars.** Steve Vasiloff, NOAA/OAR/NSSL, Norman, OK; Joe Busto, Colorado Water Conservation Board, Denver, CO; Michael Meyers, NOAA/National Weather Service, Grand Junction, CO; David Gochis, NCAR, Boulder, CO and Katja Friedrich, University of Colorado, Boulder, CO

- P1.18 **Impacts and Best Practices from Heavy Rainfall and Flooding Event Over Western Kentucky and Southern Missouri in late April /early May 2011.** Megan Terry, NOAA/National Weather Service, Springfield, MO and Mary Lamm, NOAA/National Weather Service, Paducah, KY
- P1.19 **Improving Severe Weather Forecasts for the Northeastern U.S.** Melissa M. Hurlbut, NOAA/NWS/Storm Prediction Center, Norman, OK
- P1.20 **Incorporating Facebook into the Post Storm Assessment of the 27 April 2011 Tennessee Valley Tornado Outbreak.** Timothy W. Troutman, NOAA/National Weather Service, Huntsville, AL, Douglas E. Schneider, Sam Roberts and Eric I. Holweg, NOAA/National Weather Service, Morristown, TN
- P1.21 **Introducing a Precipitation-based Event Classification Archive for the Southeast United States.** Joshua M. Palmer, NOAA/NWS/Southeast River Forecast Center, Peachtree City, GA
- P1.22 **Lightning Injury Continues to be a Health Threat Internationally.** Mary Ann Cooper, MD Retired, University of Illinois in Chicago, Chicago, IL
- P1.23 **On the Use of Simulated Areal Coverage of Parameters Favorable for Severe Weather to Identify Major Severe Weather Outbreaks.** Chad M. Shafer, University of South Alabama, Mobile, AL; Michael B. Richman, University of Oklahoma, Norman, OK; Charles A. Doswell III, CIMMS, Norman, OK and Lance M. Leslie, University of Oklahoma, Norman, OK
- P1.24 **Operational Considerations for Radar-based Multisensor Precipitation Estimation Techniques at the NWS River Forecast Centers.** Gregory J. Story, NOAA/NWS/West Gulf River Forecast Center, Fort Worth, TX and Steven V. Vasiloff, NOAA/OAR/NSSL, Norman, OK
- P1.25 **Overview of the Damage Survey of the 22 May 2011 Joplin, Missouri Tornado.** John P. Gagan, William Davis, Steve Runnels, David Gaede and Andy Foster, NOAA/National Weather Service, Springfield, MO
- P1.26 **Overview of the Hydrometeorological Prediction Center Precipitation and Flash Flood Products and Services.** Michael Eckert, NOAA/NWS/HPC, Camp Springs, MD
- P1.27 **Population at Risk: Estimating the Total Number of People in the Path of Selected Tornado Outbreaks.** Patrick Marsh, NOAA/OAR/NSSL & CIMMS/OU/SoM; Kiel Ortega, NOAA/OAR/NSSL & CIMMS/OU; Kevin Scharfenberg, NOAA/NWS/OCWWS and Kevin Manross, NOAA/OAR/NSSL & CIMMS/OU, Norman, OK
- P1.28 **Preliminary Observations of Convective Initiation and Mesocyclone Interactions with Atmospheric Waves on 27 April 2011.** Todd A. Murphy and Kevin R. Knupp, University of Alabama in Huntsville, Huntsville, AL
- P1.29 **Probabilistic Forecasting of Severe Convection using the Temporal Evolution of Satellite-derived Deep Convective Cloud Properties.** Michael Pavolonis, NOAA/NESDIS/STAR, and Daniel C. Hartung and Justin Sieglaff, CIMSS University of Wisconsin at Madison, Madison, WI
- P1.30 **Radar Morphology of the April 24th, 2010 Long Track Tornado across Northeast Louisiana and Mississippi.** Brian Koeneke, NOAA/National Weather Service, Jackson, MS
- P1.31 **Recent Studies of Lightning Safety and Demographics.** Ronald L. Holle, Holle Meteorology and Photography, Oro Valley, AZ
- P1.32 **Record Kansas Hail and the Power of Social Media.** Scott F. Blair and Jared W. Leighton, NOAA/National Weather Service, Topeka, KS
- P1.33 **Severe Weather Summary for Central Alabama on April 27, 2011.** Jessica N. Talley and Kevin B. Laws, NOAA/National Weather Service, Birmingham, AL and Kevin K. Fuell, University of Alabama in Huntsville & NASA/SPoRT Center, Huntsville, AL
- P1.34 **Storm Monitor & Analysis Program.** David Hotz, NOAA/National Weather Service, Morristown, TN, Jason Schaumann, NOAA/National Weather Service, Springfield, MO and Shawn O'Neill, NOAA/National Weather Service, Morristown, TN

- P1.35 **The 19-20 April 2011 Historic Tornado Outbreak across Southern Indiana and Central Kentucky.** Linda Gilbert, Angela Lese and Michael Paddock, NOAA/National Weather Service, Louisville, KY
- P1.36 **The 2011 Tornado Outbreaks in Comparison to a 2003-2010 Convective Mode Climatology for the Contiguous United States.** Bryan T. Smith and Richard L. Thompson, NOAA/NWS/Storm Prediction Center, Norman, OK
- P1.37 **The Lower Mississippi River Flood of 2011.** Charles Gant and Dr. Gene Rench, NOAA/National Weather Service, Memphis, TN, Richard Okulski (Chair, NWA Special Operational Services Committee), NOAA/National Weather Service, Caribou, ME
- P1.38 **The Directional Distribution of Severe Thunderstorm Warnings Issued by the Birmingham (BMX) NWS Weather Forecast Office.** Kevin Barrett, Texas State University, San Marcos, TX
- P1.39 **The Kinematic, Microphysical, and Electrical Characteristics of the 27 April 2011 Cullman EF-4 Tornadoic Thunderstorm.** Elise V. Schultz and Christopher J. Schultz, University of Alabama in Huntsville; Walter A. Petersen, NASA Marshall Space Flight Center, and Lawrence D. Carey and Kevin R. Knupp, University of Alabama in Huntsville, Huntsville, AL
- P1.40 **The Significant Hail Event over the Pee Dee Region of South Carolina on 9 April 2011.** Hunter Coleman and Michael Cammarata, NOAA/National Weather Service, Columbia, SC
- P1.41 **Tornadoes and Climate Change: A Whirlwind of Confusion?** Robert Henson, University Corporation for Atmospheric Research (UCAR), Boulder, CO

#### **Session IV: Flooding**

**Session Chair: John Feldt, 2011 NWA Abstract Committee, NOAA/NWS Southeast River Forecast Center, Peachtree City, GA**

- 4:00pm **Historic May 2010 Mid-South Flood**  
Kyle Berry, Dr. Joshua Durkee, Lee Campbell, Dustin Jordan, Dr. Gregory Goodrich, Rezaul Mahmood and Stuart Foster, Western Kentucky University, Bowling Green, KY
- 4:15pm **The 11 June 2010 Tragic Flash Flood at the Albert Pike Campground**  
Christopher C. Buonanno, NOAA/National Weather Service, Little Rock, AR
- 4:30pm **September 2010 Minnesota and Wisconsin Floods – Responding to Flooding at a Time of Year That Typically Does Not Flood**  
Diane Cooper and Dan Effertz, NOAA/National Weather Service, Twin Cities, MN and Mike Welvaert, NOAA/National Weather Service, LaCrosse, WI
- 4:45pm **Overview of a Heavy Rain/Snow Event in the Southern Texas Panhandle on 11-12 November 2010**  
Christine Krause, NOAA/National Weather Service, Amarillo, TX
- 5:00pm **The Record Flood of 2011 in the Lower Ohio Valley**  
Pat Spoden, Mary A. Lamm and Martin Luecke, NOAA/National Weather Service, Paducah, KY
- 5:15pm **Session Ends**
- 6:30pm **Tailgate Party - Riverchase Ballroom -**  
*Don't forget to wear your nametag & your school colors*
- 8:00pm **NWA Council Meeting with Committee Chairs (Room TBA)**

**Tuesday, October 18**

**General Session**

## Wynfrey ABC

- 7:00am **Registration and Information Desk Opens: Closes at 4pm**  
9:00am **Exhibits Open: Riverchase Ballroom**  
3:00pm **Poster Session: Wynfrey DE**  
7:00pm **Town Hall Meeting: Wynfrey ABCDE**
- 7:30am **Weather Briefing**
- 7:45am **Announcements**
- 8:00am **Keynote Address**  
Bill Proenza  
National Weather Service, Southern Region Director, Fort Worth, TX

## Session V: Weather and Forecasting I

**Session Chair: Dr. Sam Ng (Chair NWA WAF Committee), Assistant Professor, Department of Earth and Atmospheric Sciences, Metropolitan State College of Denver, Denver, CO**

- 8:30am **Overview of Summer Convection Study over Central Alabama**  
Scott W. Unger, Kevin B. Laws, Gary D. Goggins and Jessica Talley, NOAA/National Weather Service, Birmingham, AL; Jonathan Case, ENSCO Inc./ NASA SPoRT Center, Huntsville, AL and Tara N. Golden and Holly M. Britton, NOAA/National Weather Service, Birmingham, AL
- 8:45am **The Magic of Moisture in NWP**  
Jordan J. Gerth (Student member, NWA Council), CIMSS/SSEC/University of Wisconsin at Madison, Madison, WI
- 9:00am **Predictability of High Impact Weather during the Cool Season over the Eastern U.S.**  
Jeffrey Tongue (Co-chair, NWA Education Committee), NOAA/National Weather Service, New York, NY, Brian A. Colle and Edmund Chang, Stony Brook University, Stony Brook, NY
- 9:15am **Using CG lightning as a Forecasting Tool for Severe Hail**  
Matthew Reagan and Michael Brown (Chair, NWA Broadcast Meteorology Testing), Mississippi State University, Starkville, MS
- 9:30am **Total Lightning Visualizations to Enhance Forecast Operations**  
Geoffrey T. Stano, ENSCO Inc./ NASA SPoRT Center, and Brian Carcione, NOAA/National Weather Service, Huntsville, AL
- 9:45 am **Operational Convective Diagnosis: Patterns and Attributes of Non-Severe and Severe Storms**  
Ben Crocker, Nivash Rampersad and Paul J. Croft (NWA President 2004), Kean University, NJ
- 10:00am **Coffee Break. Exhibits Open: Riverchase Ballroom**  
**Posters Open: Wynfrey DE**

## Session VI: Decision Support Services

**Session Chair: John Gordon (NWA Councilor & Chair NWA Membership & Marketing Committee), NOAA/National Weather Service, Louisville, KY**

- 10:30am **Thirty Years of Space Shuttle Weather Decision Support at the NWS Spaceflight Meteorology Group**  
Frank Brody (NWA Councilor) and Tim Garner, NOAA/NWS/SMG, Johnson Space Center, Houston, TX
- 10:45am **An Integrated Approach to NWS Response For High Impact Events**  
Tom Bradshaw, NOAA/NWS/Southern Region Headquarters, Fort Worth, TX
- 11:00am **Forecasting for Renewable Energy - Wind**  
Joel Cline, NOAA/NWS Headquarters - Department of Energy, Washington, DC

- 11:15am **Impact-based Decision Support Services Provided to the Enbridge/Kalamazoo, Michigan Oil Spill**  
Michael J. Hudson, NOAA/National Weather Service, Kansas City, MO, Daniel Cobb, NOAA/National Weather Service, Grand Rapids, MI and Richard Wagenmaker, NOAA/National Weather Service, Detroit/Pontiac, MI
- 11:30am **Implementation of a Road Surface Model in the National Weather Service**  
Jonathan J. Rutz, NOAA /NWS/WRH/SSD, Salt Lake City, UT
- 11:45am **Lunch on your own**

## **Session VII: Winter Weather**

**Session Chair: Tom Bradshaw, NOAA/NWS/Southern Region Headquarters, Fort Worth, TX**

- 1:00pm **The Inaugural HMT-HPC Winter Weather Experiment**  
David Novak, NOAA/NWS/HPC, Camp Springs, MD, Faye Barthold, NOAA/NWS and I.M. Systems Group, Inc., Mike Bodner, Dan Petersen and Rich Bann, NOAA/NWS/HPC, Camp Springs, MD
- 1:15pm **Forecasting Freezing Drizzle: The February 3-4, 2011 Event in Corpus Christi, Texas**  
Zachary Finch, NOAA/National Weather Service, Corpus Christi, TX
- 1:30pm **Conceptual Models of Heavy Snow over East Vancouver Island**  
Rodger Wu, Pacific Region Storm Prediction Centre/National Lab for Coastal and Mountain Meteorology, EC, Brad Snyder, Pacific Storm Prediction Centre, EC, and Ruping Mo and Paul Joe, National Lab for Coastal and Mountain Meteorology, EC, Vancouver, BC, Canada
- 1:45pm **Forecast Challenges Associated with two Significant Winter Storms for the Washington DC / Baltimore Maryland Metro Area: 26 December 2010 and 26 January 2011**  
Steven M. Zubrick, (NWA President 2010), Christopher Strong, Andrew Woodcock and Brian Lasorsa, NOAA/National Weather Service, Sterling, VA and Michael Eckert, NOAA/NWS/HPC, Camp Springs, MD
- 2:00pm **Increasing Observations to Improve Gridded Freezing Rain Analyses**  
Joseph Puma (student; summer intern), Faya Barthold, Mike Bodner, Keith Brill and Edwin Danaher, NOAA/NWS/HPC, Camp Springs, MD
- 2:15pm **Comparison of the NAM and ARW Forecasts during the Devastating 2006 Thanksgiving Ice Storm in Shenandoah National Park**  
Michael Eckert, NOAA/NWS/HPC, Camp Springs, MD
- 2:30pm **Impacts in the Washington DC Metro Area Resulting from the Convective Wintertime Event of 26 January 2011**  
Michelle Cohen, Tufts University, Boston, MA, and Heather Sheffield and Steven M. Zubrick (NWA President 2010), NOAA/National Weather Service, Sterling, VA
- 2:45pm **The Use of High Resolution Models in Forecasting The Deep South Ice Storm of 10 January 2011**  
Bryan Mroczka, Todd Lericos and Jeffrey D. Fournier, NOAA/National Weather Service, Tallahassee, FL
- 3:00pm **Coffee Break and Poster Session**

## **Poster Session II: Winter Weather, Decision Support Services, Weather and Forecasting, Societal Impacts**

- P2.1 **A Climatological Study of the Borneo Vortex during Northern Hemisphere Winter Monsoon.** Anthony R. Lupo and Mohd Hisham Mohd. Anip, University of Missouri at Columbia, Columbia, MO
- P2.2 **A Comparison of Methods for Calculating Montgomery Streamfunction Using Modern Data.** Patrick S. Market (NWA President), University of Missouri at Columbia, Columbia, MO and Scott M. Rochette, The College at Brockport SUNY, Brockport, NY

- P2.3 **A Cooperative Pilot Project on Weather and Emergency Management Decision Support.** Jessica L. Losego and Kenneth J. Galluppi, RENCI - University of North Carolina, Chapel Hill, NC; Burrell E. Montz, East Carolina University, Greenville, NC; Darin J. Figurskey, NOAA/National Weather Service, Raleigh, NC and Steve S. Schotz, NOAA/NWS/OST, Silver Spring, MD
- P2.4 **A Look at the Causes of Four Underforecast Heavy Snow Events in the Lower Ohio Valley in the Winter of 2010-11.** Mike York, Robin Smith, Kevin Smith, Christine Wielgos, Daniel Spaeth, Ryan Presley, Jayson Wilson, Gregory Meffert and Patrick Spoden, NOAA/National Weather Service, Paducah, KY
- P2.5 **A Temperature Plane Analysis of Hailstorms in the Ohio Valley.** Charles Woodrum and Josh Korotky, NOAA/National Weather Service, Pittsburgh, PA, Timothy Lahmers, California University of PA, California, PA and Nicholas D'Allura, Ohio State University, Columbus, OH
- P2.6 **Airborne Bounce Houses: An Emerging Wind-Related Hazard.** John A. Knox, University of Georgia, Athens, GA; Thomas E. Gill, University of Texas-El Paso, El Paso, TX, and David Novlan, NOAA/National Weather Service, Santa Teresa, NM
- P2.7 **Assessing the Influence of a Tornado Damage Path on Near-Surface Atmospheric Conditions.** David M. Brommer and Luoheng Han, University of Alabama, Tuscaloosa, AL
- P2.8 **Customer Impacts: How Local School Districts Utilize National Weather Service Products.** Michael Paddock, NOAA/National Weather Service, Louisville, KY
- P2.9 **Does Global Cyclone Data Support the Global Warming Theory?** Matt Bolton, Foot's Forecast, Central Florida and H. Michael Mogil CCM, How The Weatherworks, Naples, FL
- P2.10 **Effective Communication of Lightning Safety.** William P. Roeder, Private Meteorologist, Rockledge, FL; Ronald L. Holle, Holle Meteorology & Photography, Oro Valley, AZ; Mary Ann Cooper, Professor Emerita, University of Illinois at Chicago, Chicago, IL and Stephen Hodanish, NOAA/National Weather Service, Pueblo, CO
- P2.11 **Evaluation of Dual-Polarimetric Radar in a Physically-Based Lightning Cessation Nowcasting Application.** Elise V. Schultz and Lawrence D. Carey, University of Alabama in Huntsville, and Walter A. Petersen, NASA Marshall Space Flight Center, Huntsville, AL
- P2.12 **Exploiting Operational Model Trends to Enhance NWS Day 4-7+ Forecasts.** Paul Iñiguez, NOAA/National Weather Service, Phoenix, AZ
- P2.13 **Extreme Temperatures and Mortality in the State of Georgia 1998-2008.** Trisha Palmer, NOAA/National Weather Service, Peachtree City, GA and Wendy Smith and Gordon Freymann, Georgia Department of Community Health, Division of Public Health, Atlanta, GA
- P2.14 **Forecasting Convection over East Central Florida Using Near-Storm Scale Numerical Models within a Frequent Cycling Strategy.** Peter F. Blottman, David W. Sharp and Matthew R. Volkmer, NOAA/National Weather Service, Melbourne, FL and Matthew C. Mahalik, The Pennsylvania State University, State College, University Park, PA
- P2.15 **High Wind Climatology for Northern and Central New Mexico.** Todd Shoemake, NOAA/National Weather Service, Albuquerque, NM
- P2.16 **Innovative Decision Support Services for the 27 February 2011 Wildfire Outbreak Across the Texas Panhandle.** Michael Scotten, NOAA/National Weather Service, Amarillo, TX
- P2.17 **Issues in Very High Resolution Numerical Weather Prediction over Complex Terrain in Juneau, Alaska.** Don Morton, Arctic Region Supercomputing Center, University of Alaska at Fairbanks, Fairbanks, AK and Developmental Testbed Center, NCAR, Boulder, CO; Delia Arnold, Institute of Meteorology, Vienna, Austria and Institute of Energy Technologies, Technical University of Catalonia, Barcelona, Spain; Irene Schicker, Institute of Meteorology, University of Natural Resources and Life Sciences, Vienna, Austria; Kayla Harrison, Arctic Region Supercomputing Center, University of Alaska at Fairbanks, Fairbanks, AK; Carl Dierking, NOAA/National Weather Service, Juneau, AK and Gene Petrescu, NOAA/National Weather Service/Alaska Region Headquarters, Anchorage, AK

- P2.18 **Measuring Forecast Performance during Blocking and Non-Blocking Periods in Missouri During the 2010-2011 Cold Season.** Danielle Kozlowski and Anthony R. Lupo, University of Missouri at Columbia, Columbia, MO
- P2.19 **NWS Hazards Message Simplification.** Andy Horvitz, Eli Jacks and Paul Stokols, NOAA/NWS/Office of Climate, Water & Weather Services, Silver Spring, MD
- P2.20 **New Operational Applications for the NASA Land Information System.** Brian Carcione and Kristopher White, NOAA/National Weather Service, Huntsville, AL, and Jonathan L. Case, ENSCO, Inc./NASA Short-term Prediction Research and Transition Center, Huntsville, AL
- P2.21 **NWS National Survey Team - How The NWS Is Building Surveys To Better Serve The Public.** John (J.J.) Brost, NOAA/National Weather Service, Tucson, AZ, Craig Schmidt, NOAA/NWS Western Region Headquarters, Salt Lake City, UT and Brent Macaloney, NOAA/NWS Headquarters, Silver Spring, MD
- P2.22 **NWS Roadmap - The Four Plans: Services, Science and Technology, Workforce Evolution, Business.** Michael J. Hudson, NOAA/NWS, Kansas City, MO, David Manning, NOAA/NWS Bohemia, NY, Jason Tuell, NOAA/NWS Silver Spring, MD, Steven Cooper, NOAA/NWS Fort Worth, TX, Marie Lovern and Jennifer Sprague, NOAA/NWS Silver Spring, MD and Brad Colman, NOAA/NWS Seattle, WA
- P2.23 **On Communicating Weather and Climate Information.** H. Michael Mogil CCM, How The Weatherworks, Naples, FL
- P2.24 **Performance of Multiple CONUS-Scale Convection-Allowing Models for a Number of Severe Storm Outbreaks During Spring 2011.** Steven J. Weiss (NWA President 2005), Israel L. Jirak, Andrew R. Dean and Christopher J. Melick, NOAA/NWS/Storm Prediction Center, Norman, OK
- P2.25 **Rising to the (Right) Occasion: Severe Weather Pedagogy in the Modern Era.** Patrick S. Market (NWA President), University of Missouri at Columbia, Columbia, MO; Christina C. Crowe, NOAA/National Weather Service, Huntsville, AL; Eric Wise, NOAA/National Weather Service, Springfield, MO; Shawn P. Riley, Baron Services, Huntsville, AL and Anthony R. Lupo, University of Missouri at Columbia, Columbia, MO
- P2.26 **Satellite Remote Sensing of Snowfall Rate.** Huan Meng and Ralph Ferraro (Chair, NWA Remote Sensing Committee), NOAA/NESDIS, College Park, MD and Banghua Yan, NOAA/NESDIS, Camp Springs, MD
- P2.27 **Societal Perceptions of the Warning Process for Gustnadoes.** Jennifer M. Laflin, Bradley R. Temeyer, Todd A. Heitkamp and Philip N. Schumacher, NOAA/National Weather Service, Sioux Falls, SD
- P2.28 **Teleconnection Patterns and Significant Snowfall Events at Tallahassee, Florida.** Donal Harrigan and Todd Lericos, NOAA/National Weather Service, Tallahassee, FL
- P2.29 **The American Weather and Climate Exposition.** Miles Muzio (Chair, NWA Broadcast Seal of Approval Committee), KBAK-TV, Bakersfield, CA
- P2.30 **The Applied Meteorology Unit: Lessons Learned on Transitioning Research into Operations for America's Space Program.** John T. Madura, NASA Weather Office, John F. Kennedy Space Center, FL; William H. Bauman, ENSCO Inc., Cocoa Beach, FL; Francis J. Merceret, NASA Weather Office, John F. Kennedy Space Center, FL; William P. Roeder, USAF 45<sup>th</sup> Weather Squadron, Patrick AFB, FL; Frank C. Brody (NWA Councilor), NOAA/NWS/SMG, Johnson Space Center, Houston, TX and Bartlett C. Hagemeyer, NOAA/National Weather Service, Melbourne, FL
- P2.31 **The Verification of Weather Forecasts as Compared to Numerical Modeling and Climatology: Seasonal and ENSO Variations.** Michelle Bogowith and Eric Aldrich, KOMU-TV/University of Missouri at Columbia and Anthony R. Lupo, University of Missouri at Columbia, Columbia, MO
- P2.32 **Three-Dimensional Visualization of Divergence and Vorticity.** Michael Battalio and Jamie Dyer, Mississippi State University, Starkville, MS
- P2.33 **Time for a New Adaptive Strategy for the U.S. Radiosonde Network?** Michael W. Douglas, NOAA/OAR/National Severe Storms Laboratory, Norman, OK

- P2.34 **Tropical Cyclone Impacts Graphics: A Consistent Means for Conveying Potential Impact Information to Assist Decision-Makers.** David Sharp, NOAA/National Weather Service, Melbourne, FL and Pablo Santos, NOAA/National Weather Service, Miami, FL
- P2.35 **Use of NASA SPoRT Products at WFO Knoxville/Tri-Cities.** Douglas Schneider and David Hotz, NOAA/National Weather Service, Morristown, TN
- P2.36 **Validation of a Convective Sounding-Based Worksheet Used at WFO Miami to Determine Microburst and Hail Potential During the Summer Time.** Jeral Estupinan, NOAA/National Weather Service, Miami, FL; Alexis Orenge, University of Puerto Rico, San Juan, PR and Dan Gregoria and Pablo Santos, NOAA/National Weather Service, Miami, FL
- P2.37 **Verification in the Context of Operational Decision Making.** Brian P. Pettegrew, NOAA/ESRL/GSD, CIRES, University of Colorado-Boulder, Boulder, CO; Jennifer L. Mahoney, NOAA/ESRL/GSD, Boulder, CO; Melissa A. Petty, NOAA/ESRL/GSD, CIRES, Colorado State University, Ft. Collins, CO; Steven A. Lack, Matt Wandishin, M. P. Kay, A. F. Loughe, J. E. Hart and N. D. Matheson NOAA/ESRL/GSD, CIRES, University of Colorado-Boulder, Boulder, CO; and, P. Hamer and D. S. Schaffer, NOAA/ESRL/GSD, CIRES, Colorado State University, Ft. Collins, CO
- P2.38 **Verifying Forecasts of Maximum Mixing Height for Greensboro, NC.** Jonathan Blaes and Phillip Badgett, NOAA/National Weather Service, Raleigh, NC

## **Session VIII: Societal Impacts**

**Session Chair: Elizabeth Quetone, NWA President-Elect, NOAA/NWS Warning Decision Training Branch, Norman, OK**

- 4:00pm **Understanding the Public's Protective Action Decisions from Weather Warnings: Why Some People May Make the Wrong Decisions**  
Dr. Laura Myers, Social Science Research Center, Mississippi State University, Starkville, MS
- 4:15pm **From Warning to Action: Tornado Warning Lead Time and Personal Protection Decisions During the April 27, 2011 Tuscaloosa Tornado**  
David M. Brommer and Jason C. Senkbeil, Department of Geography, University of Alabama, Tuscaloosa, AL
- 4:30pm **Preliminary Look at Public Perceptions of and Responses to Warnings in the 27 April 2011 Tornado Outbreak**  
Kim Klockow, University of Oklahoma, Norman, OK and Stephanie Mullins and Elise Schultz, University of Alabama at Huntsville, Huntsville, AL
- 4:45pm **The Residents of Smithville MS: What Worked and What Did Not Work During an EF-5 Tornado**  
Michael Brown (Chair, NWA Broadcast Meteorology Testing), Kathy Sherman-Morris and Brittany Bell, Mississippi State University, Starkville, MS
- 5:00pm **Warning Success Rate: An Evaluation of Convective Warning Utilization by the General Public**  
Peter L. Wolf, NOAA/National Weather Service, Jacksonville, FL and Christopher Godfrey, M. Goldsbury, J. Caudill and D. Wedig, University of North Carolina at Asheville, Asheville, NC
- 5:15pm **Atlanta Integrated Warning Team Workshop: Working Together To Save Lives**  
Jessica Fieux and Shirley Lamback, NOAA/National Weather Service, Peachtree City, GA and Daniel Dix, The Weather Channel, Atlanta, GA
- 5:30pm **Session Ends; Exhibits close. Dinner on your own.**
- 7:00pm **Town Hall Meeting to Study the 27 April 2011 Tornado Outbreak**  
details at <http://www.nwa2011.com/?p=472&ref=nf>

## Wednesday, October 19

### General Session Riverchase Ballroom

7:00am            **Registration and Information Desk Opens; Closes at 4pm**  
11:15am        **NWA Annual Awards Luncheon: Wynfrey CDE**  
3:00pm            **Poster Session: Pre-Function and Foyer Areas**

7:30am    **Weather Briefing**

7:45am    **Announcements**

### Session IX: Radar II and Severe Weather I

**Session Chair: Mark Prater, 2011 NWA Annual Meeting Program Committee, WIAT-TV, Birmingham, AL**

- 8:00am    **Identifying Significant Severe-Sized Hail with S-Band Dual-Polarization Radar**  
Clark Payne, Leslie R. Lemon (NWA President 2001) and Cinthia A. Van Den Broeke, CIMMS/OU & NOAA/NWS/WDTB, Norman, OK and Paul T. Schlatter, NOAA/NWS/OASST, Silver Spring, MD
- 8:15am    **Use of Dual-Polarization Radar to Assess Low-Level Wind Shear in Severe Thunderstorm Near-Storm Environments in the Tennessee Valley**  
Christina C. Crowe, NOAA/National Weather Service, Huntsville, AL; Christopher J. Schultz, University of Alabama in Huntsville; Matthew Kumjian, CIMMS NWS/OAR/LCI, Norman, OK; Lawrence D. Carey, University of Alabama in Huntsville and Walter A. Petersen, NASA Marshall Space Flight Center, Huntsville, AL
- 8:30am    **Dual-Polarimetric Doppler Radar Debris Signature Characteristics of a Long-Track EF-5 Tornado**  
Leslie R. Lemon (NWA President 2001), Cinthia A. Van Den Broeke, and Clark Payne, CIMMS/OU & NOAA/NWS/WDTB, Norman, OK and Paul T. Schlatter, NOAA/NWS/OASST, Silver Spring, MD
- 8:45am    **Observations and Operational Importance of Wave Like Features Interacting with QLCS**  
Todd A. Murphy, Ryan A. Wade, Timothy A. Coleman and Kevin R. Knupp, University of Alabama at Huntsville, Huntsville, AL
- 9:00am    **Improving High Impact Weather Forecasts with Combined GOES-R Measurements and advanced infrared soundings from JPSS**  
Jun Li, CIMSS, University of Wisconsin at Madison, Madison, WI; Timothy J. Schmit, NOAA/NESDIS/STAR, Madison, WI; Jinlong Li, CIMSS, University of Wisconsin at Madison, Madison, WI; Hui Liu, NCAR, Boulder, CO and Jing Zheng, CIMSS, University of Wisconsin at Madison, Madison, WI
- 9:15am    **Measured Severe Convective Wind Gust Climatology of Thunderstorms and Associated Convective Modes for the Contiguous United States, 2003-2009**  
Bryan Smith and Richard L. Thompson, NOAA/NWS/Storm Prediction Center, Norman, OK
- 9:30am    **Coffee Break. Posters Open: Pre-Function and Foyer Areas**

### Session X: Tropical and Severe Weather II

**Session Chair: Dr. Chad Kauffman (NWA Councilor), Associate Professor, California University of Pennsylvania, California, PA**

- 10:00am    **Preliminary Investigations of Collapsing Precipitation Cores and Strong Wind Gusts in Hurricane Eyewalls**  
Keith G. Blackwell, University of South Alabama, Mobile, AL

- 10:15am **Physical Assessment of Hurricane Rapid Intensification using Kernel Principal Component Analysis**  
Andrew Mercer and Jamie Dyer, Mississippi State University, Starkville, MS
- 10:30am **Discriminating EF4 from EF5 Tornado Strength**  
James G. LaDue, NOAA/NWS/Warning Decision Training Branch, Norman, OK
- 10:45am **Utilizing a Lightning Safety Toolkit for Outdoor Venues**  
Charles Woodrum, NOAA/National Weather Service, Pittsburg, PA and Donna Franklin, NOAA/NWS/OCWWS, Silver Spring, MD
- 11:00am **A Comparison of the 27 April 2011 North Alabama Tornado Outbreak to the 3 April 1974 Super Tornado Outbreak and a Previously Developed "What If" Scenario for a North Alabama Tornado Outbreak**  
Dr. Greg G. Gaston, University of North Alabama, Florence, AL; Christopher P. Darden, NOAA/National Weather Service, Huntsville, AL and Timothy W. Troutman, NOAA/National Weather Service, Huntsville, AL
- 11:15am **NWA Annual Awards Luncheon**  
**Wynfrey CDE**
- 1:00pm **A Review of Significant Weather Events Occurring in 2011**  
Greg Carbin, NOAA/NWS/Storm Prediction Center, Norman, OK
- 1:30pm **Weather Analysis and Forecasting (WAF) Committee Panel Discussion: What happened on 27 April 2011? Perspectives on a Historic Event from the National Weather Service, the Broadcast Media, Emergency Management Agencies, and the Social Sciences. (View the President's August Message at [http://www.nwas.org/council\\_corner.php](http://www.nwas.org/council_corner.php) for details.)**
- 3:00pm **Coffee Break. Poster Session: Pre-Function and Foyer Areas**

### **Poster Session III: Tropical, Education, Emerging Technologies and Aviation**

- P3.1 **A Case in Experiential Learning: The 2011 AWOC Severe Forecast Contest.** Christopher Spannagle and Veronica Holtz, CIMMS/OU & NOAA/NWS/Warning Decision Training Branch, Norman, OK
- P3.2 **A Certified Consulting Meteorologist? What's That?.** Bernard N. Meisner CCM (NWA Councilor), NOAA/NWS Southern Region Headquarters, Fort Worth, TX
- P3.3 **An Early Taste of Dual-Polarization Radar from WFO Pittsburgh.** Charles Woodrum and Thomas A. Green, Jr., NOAA/National Weather Service, Pittsburg, PA
- P3.4 **CoCoRaHS - Volunteers Monitoring Precipitation Across the Nation: An update and what's ahead in 2012-13.** Henry Reges and Nolan Doesken, Colorado State University, Fort Collins, CO
- P3.5 **Development of a Global Data Server Using Downscaling Techniques to Produce High-resolution, Long-range, Hourly Forecast Data.** Holly C. Hassenzahl, Brett A. Wilt, Chad Johnson, Rod Runnheim, Randy Arb, Andy Rice, Michal Thomas, Brian J. Good, Doug Graham, and Nicholas RR Keene, Weather Central, LP, Madison, WI
- P3.6 **Diurnal and Seasonal Characteristics of Wind Speed and Wind Direction in and Around Mobile Bay, Alabama.** Sytske Kimball, University of South Alabama, Mobile, AL
- P3.7 **Evaluation of a Modified Clear Air Turbulence (CAT) Forecast Index During Major Turbulence Outbreaks of Winter 2010-11.** Gary P. Ellrod, NOAA-retired, EWxC LLC, Granby, CT; John A. Knox, University of Georgia, Athens, GA; Steven Silberberg, NOAA/NWS/Aviation Weather Center, Kansas City, MO and Emily Wilson, University of Georgia, Athens, GA
- P3.8 **Fire Weather Program at the Storm Prediction Center.** Melissa M. Hurlbut, NOAA/NWS/Storm Prediction Center, Norman, OK

- P3.9 **High Spatial Resolution Cloud Climatologies for NWS Forecaster Training and Motivation.** Michael W. Douglas, NOAA/OAR/National Severe Storms Laboratory, Rahama Beida and Abdul Dominguez, CIMMS University of Oklahoma, Norman, OK
- P3.10 **New NOAA-Derived Data Products for the TV Broadcast Market.** Elizabeth Valenti, WorldWinds, Inc., Slidell, LA; Dr. Patrick Fitzpatrick, Mississippi State University, Stennis Space Center, MS; Robert Dreisewerd, Baron Services, Huntsville, AL and Ralph R. Ferraro (Chair, NWA Remote Sensing Committee), NOAA/NESDIS, College Park, MD
- P3.11 **NWS Birmingham's Ongoing Effort to Modernize Post Event Procedures.** Tara N. Golden, John D. De Block, Mark Linhares, Holly Britton and Scott W. Unger, NOAA/National Weather Service, Birmingham, AL
- P3.12 **On the Changes to the Local Storm Report Processing at the Storm Prediction Center: Reasoning, Impacts and Verification.** Christopher J. Melick, Andrew Dean, Gregory Carbin and Steven J. Weiss (NWA President 2005), NOAA/NWS/Storm Prediction Center, Norman OK
- P3.13 **Operational Forecasts of Trapped Waves at the United States Air Force Weather Agency.** James McCormick, University Corporation for Atmospheric Research (UCAR), Offutt AFB, NE
- P3.14 **Photographing Temperature Inversions.** Michael Eckert, NOAA/NWS/HPC, Camp Springs, MD
- P3.15 **Preparing NASA SPoRT Data Sets for the Next Generation of AWIPS.** Brian Carcione and Jason Burks, NOAA/National Weather Service, Huntsville, AL, Matthew Smith and Kevin McGrath, NASA/Short-term Prediction Research and Transition Center, Huntsville, AL
- P3.16 **Real Time Weather Data in the Classroom - Improving the Quality of Education.** Jeffrey S. Tongue (Co-Chair, NWA Education Committee), Suffolk County Community College-Grant Campus, Brentwood, NY
- P3.17 **Satellite Meteorology Education Resources from COMET.** Patrick Dills and Wendy Schreiber-Abshire (NWA Councilor), UCAR/COMET, Boulder, CO
- P3.18 **Simulated Satellite Imagery: A New Tool for Real-Time Model Evaluation.** Daniel T. Lindsey, NOAA/NESDIS/RAMMB, Fort Collins, CO; Louie Grasso and Dan Bikos, CIRA, Fort Collins, CO; Chris Siewert, CIMMS NOAA/NWS/SPC, Norman, OK and Robert Rabin and Jack Kain, NOAA/OAR/NSSL, Norman, OK
- P3.19 **The New MetEd--COMET's Redesigned Training Portal.** Wendy Schreiber-Abshire (NWA Councilor), Greg Byrd, Dave Linder and Bruce Muller, UCAR/COMET, Boulder, CO
- P3.20 **The Storm Damage Assessment Toolkit - Storm Damage Survey Data Collection by Integrating Smart Phones and Laptop Computers with Geographical Information System Web Servers.** Keith Stellman, NOAA/National Weather Service, Shreveport, LA and Parks Camp, NOAA/National Weather Service, Tallahassee, FL
- P3.21 **Update to a Storm Surge Visualization Product in Charleston, SC.** Frank Alsheimer and Robert Bright, NOAA/National Weather Service and Dr. B. Lee Lindner, College of Charleston, Charleston, SC
- P3.22 **Verification of Clear Air Turbulence (CAT) Forecast Indices During Two Winters.** John A. Knox, University of Georgia, Athens, GA; Gary P. Ellrod, NOAA (Retired), Granby, CT; Steven Silberberg, NOAA/NWS/Aviation Weather Center, Kansas City, MO and Emily Wilson, University of Georgia, Athens, GA

## **Session XI: Emerging Technologies**

**Session Chair: David 'Rusty' Billingsley (NWA Councilor), 2011 NWA Abstract Committee, NOAA/National Weather Service Southern Region Headquarters, Fort Worth, TX**

- 4:00pm **Training Success Achieved Through Interactive Simulations.**  
Jon W. Zeitler, NOAA/National Weather Service, Austin-San Antonio, TX and Kurt M. Van Speybroeck, NOAA/NWS/Spaceflight Meteorology Group, Houston, TX

- 4:15pm **An Update on NWS Use of Social Media.**  
Michael J. Hudson, NOAA/National Weather Service, Kansas City, MO; Ronald C. Jones, NOAA/NWS Silver Spring, MD; David Billingsley (NWA Councilor), NOAA/NWS Fort Worth, TX; Darone K. Jones, NOAA/NWS Salt Lake City, UT; Corey Pieper, NOAA/NWS Fort Worth, TX; David Manning, NOAA/NWS Bohemia, NY; Duane Carpenter, NOAA/NWS Honolulu, HI; Donald Moore, NOAA/NWS Anchorage, AK; Bradley Mabe, NOAA/NWS Camp Springs, MD; Michael Gerber, Peter Pickard, Wendy Levine and Tim Ross, NOAA/NWS Silver Spring, MD and Christopher Sisko, NOAA/NWS Miami, FL
- 4:30pm **NWS Modernization of Post Event Data Gathering Utilizing GIS and the Experimental Damage Assessment Toolkit**  
Gary D. Goggins, NOAA/National Weather Service, Birmingham, AL and J. Parks Camp, NOAA/National Weather Service, Tallahassee, FL
- 4:45pm **Incorporating General Aviation Volunteers into Aerial Damage Surveys**  
John Gordon (NWA Councilor & Chair, NWA Membership & Marketing Committee) and Brian Schoettmer, NOAA/National Weather Service, Louisville, KY
- 5:00pm **Warning Strategies and Operational Decisions - Historic New Year's Eve Tornado Outbreak 2010**  
Jim Sieveking, NOAA/National Weather Service, St. Louis, MO
- 5:15pm **21st Century Weather Decision Support Service for the Aviation Community - An Update on the National Weather Service's Golden Triangle Initiative**  
Jeffrey S. Tongue (Co-Chair, NWA Education Committee), NOAA/National Weather Service, New York, NY and Brandon Smith, NOAA/NWS Eastern Region Headquarters, Bohemia, NY
- 5:30pm **Building a Weather-Ready Nation**  
Laura K. Furgione, NOAA/National Weather Service Deputy Director, Silver Spring, MD
- 6:00pm **GOES Users' Conference Registration, Reception and Poster Session**  
*details at [http://directreadout.noaa.gov/GUC\\_VII/index.htm](http://directreadout.noaa.gov/GUC_VII/index.htm)*
- 6:30pm **NWA Council Dinner Meeting (Room TBA)**

## Thursday, October 20

### NWA Annual Meeting/GOES Users' Conference Joint Session Wynfrey CDE

- 7:00am **Registration and Information Desk Opens; Closes at 3pm**  
2:30pm **Poster Session: Riverchase Ballroom**
- 7:30am **Weather Briefing**
- 7:45am **Announcements**
- 8:00am **Welcome and Opening Remarks**  
James Gurka, NOAA/NESDIS, GOES-R Program Office, Greenbelt, MD
- 8:05am **Keynote Address**  
Gregory Mandt, NOAA/NESDIS, Director, GOES-R Program Office, Greenbelt, MD

### Joint NWA/GUC Session I: Current and Future GOES

**Session Chair: Ken Carey (Chair, NWA Professional Development Committee), 2011 NWA Abstract Committee, GUC Committee, Noblis, Inc., Falls Church, VA**

- 8:30am **NOAA's GOES Satellites: Current status, Operational updates, Improvements, and Short-term Plans**  
Thomas Renkevans, NOAA/NESDIS/OSPO/SPSD, Camp Springs, MD
- 9:00am **The Tennessee Floods of May 2010: A Satellite Perspective**  
Sheldon Kusselson, NOAA/NESDIS/OSPO/Satellite Products and Services, Limin Zhao, NOAA/NESDIS/OSPO/Satellite Products and Services Camp Springs, MD, Stanley Kidder and John Forsythe, Cooperative Institute for Research in the Atmosphere, (CIARA)/Colorado State University, Ft. Collins, CO, and Robert Kuligowski, NOAA/NESDIS/Center for Satellite Applications and Research, Camp Springs, MD
- 9:15am **The ABI (Advanced Baseline Imager) on the GOES-R Series**  
Timothy J. Schmit, NOAA/NESDIS/STAR, Madison, WI, James Gurka, NOAA/NESDIS/GOES-R Program Office, Greenbelt, MD, and Mathew M. Gunshor, CIMSS, Madison, WI
- 9:30am **High Impact Weather Forecasts and Warnings with the GOES-R Geostationary Lightning Mapper (GLM)**  
Steven Goodman, NOAA/NESDIS/GOES-R Program Office, Greenbelt, MD, Richard Blakeslee and William Koshak, NASA/MSFC, Huntsville, AL and Douglas Mach, University of Alabama in Huntsville, Huntsville, AL
- 9:45am **How AWIPS II will bring GOES-R Capabilities and Science to the Field, both Pre- and Post-Launch**  
Jordan J. Gerth (Student member, NWA Council), CIMSS/SSEC/University of Wisconsin at Madison, Madison, WI
- 10:00am **Coffee Break. Posters Open: Riverchase Ballroom**

## **Joint NWA/GUC Session II: GOES-R Proving Ground**

**Session Chair: Frank Brody (NWA Councilor), NOAA/NWS/SMG, Johnson Space Center, Houston, TX**

- 10:30am **The GOES-R Proving Ground Partnership**  
James Gurka and Steve Goodman, NOAA/NESDIS, GOES-R Program Office, Greenbelt, MD; Timothy Schmit, NOAA/NESDIS/STAR, Madison, WI; Anthony Mostek, NOAA/NWS, Boulder, CO and Mark DeMaria, NOAA/NESDIS/RAMMB, Fort Collins, CO
- 10:45am **NWS Field Perspective of the GOES-R Proving Ground**  
Jeffrey P. Craven (NWA Treasurer), Marcia Cronce and Steve Davis, NOAA/National Weather Service, Milwaukee/Sullivan, WI
- 11:00am **GOES-R Proving Ground Activities at the National Hurricane Center**  
John L. Beven II and Michael Brennan, NOAA/NWS/National Hurricane Center, Miami, FL; Mark DeMaria and John Knaff, NOAA/NESDIS, Fort Collins, CO and Chris Velden, CIMSS, Madison, WI
- 11:15am **The GOES-R Proving Ground at NOAA's Storm Prediction Center and Hazardous Weather Testbed**  
Christopher Siewert and Kristin Kuhlman, OU-CIMSS, Norman, OK, Steven Goodman, NOAA/NESDIS, GOES-R Program Office, Greenbelt, MD, Bonnie Reed, NOAA/NWS, Silver Spring, MD, and Russell Schneider, NOAA/NWS/SPC, Norman, OK
- 11:30am **Advancements Toward Fused Satellite, Radar, NWP, and In-situ Aviation Weather Decision Support**  
Wayne Feltz, SSEC/CIMSS University of Wisconsin at Madison, Madison, WI
- 11:45am **Lunch on your own [GOES User's Conference attendees have a scheduled luncheon]**

## **NWA General Session Wynfrey C**

### **Session XII: Weather and Forecasting II**

**Session Chair: Chip West, 2011 NWA Abstract Committee, NOAA/NWS/CWSU, Atlanta, GA**

- 1:00pm **The Quantitative Precipitation Forecasting Component of the 2011 NOAA Hazardous Weather Testbed Spring Experiment**  
David Novak, NOAA/NWS/HPC, Camp Springs, MD; Faye Barthold, NOAA/NWS and I.M. Systems Group, Inc.; Robert Oravec, Bruce Sullivan and Andrew Orrison, NOAA/NWS/HPC, Camp Springs, MD
- 1:15pm **Overview and Update of the HPC Medium Range Forecast Program**  
Michael Schichtel, Dave Novak, Chris Bailey and Keith Brill, NOAA/NWS/HPC, Camp Springs, MD
- 1:30pm **Estimation of Black Globe Temperature for Calculation of the Wet Bulb Globe Temperature Index**  
Steven F. Piltz, James Frederick and Steve Amburn, NOAA/National Weather Service, Tulsa, OK, and Vincent Dimiceli, Oral Roberts University, Tulsa, OK
- 1:45pm **Improving the Science and Effectiveness of Gridded Forecast Methods**  
Steve Keighton, NOAA/National Weather Service, Blacksburg, VA and Josh Korotky, NOAA/National Weather Service, Pittsburgh, PA
- 2:00pm **Summer 2011 Validation of WFO Miami WRF Runs**  
Pablo Santos, NOAA/National Weather Service, Miami, FL, Juan Ramos, University of Puerto Rico, San Juan, PR, and Joseph Maloney and Jeral Estupinan NOAA/National Weather Service, Miami, FL
- 2:15pm **NASA SPoRT Initialization Datasets for Local Model Runs in the Environmental Modeling System**  
Jonathan L. Case, ENSCO Inc./ NASA SPoRT Center, Huntsville, AL, Frank J. LaFontaine, NASA SPoRT Center/Raytheon, Huntsville, AL, Andrew L. Molthan, NASA SPoRT Center & Marshall Space Flight Center, Huntsville, AL and Robert A. Rozumalski, NOAA/NWS/Forecast Decision Training Branch, Boulder, CO
- 2:30pm **Coffee Break. Poster Session: Riverchase Ballroom**

**NWA/GUC Joint Poster Session: Satellite**

- P4.1 **ABI Flight Performance Predictions Based on PTM Test Results.** Dr. Paul C. Griffith, Alan Bell, John Van Naarden, Erik Hoffman and Chris Ellsworth, ITT Geospatial Systems, Fort Wayne, IN
- P4.2 **A Grobner Basis Solution for Lightning Ground Flash Fraction Retrieval.** Richard Solakiewicz and Rohan Attele, Chicago State University, Chicago, IL and William Koshak, NASA Marshall Space Flight Center, Huntsville, AL
- P4.3 **Assimilation of Atmospheric Infrared Sounder (AIRS) Data into the Prototype High Resolution Rapid Refresh for Alaska (HRRRAK).** Don Morton, Arctic Region Supercomputing Center, University of Alaska at Fairbanks, Fairbanks, AK and Developmental Testbed Center, NCAR, Boulder, CO; Kayla Harrison, Arctic Region Supercomputing Center, University of Alaska at Fairbanks, Fairbanks, AK and Brad Zavodsky and Gary Jedlovec, NASA/Short-term Prediction Research and Transition Center, Huntsville, AL
- P4.4 **Demonstration of RGB Composite Imagery at NOAA National Centers in Preparation for GOES-R.** Kevin Kenneth Fuell, University of Alabama in Huntsville & NASA/SPoRT Center and Dr. Andrew Molthan, NASA/SPoRT Center and MSFC, Huntsville, AL
- P4.5 **Development of GOES-R Algorithms Using a Common Framework and Data Model Design Approach.** Scott Zacheo, Craig Richard, David B. Hogan and Edward Kennelly, Atmospheric and Environmental Research, Inc., Lexington, MA
- P4.6 **End-to-End Design and Development of GOES-R Level 2 Algorithms: Cloud pathfinder algorithm case study.** Andra Ivan, P. A. Van Rompay, L. Belvin, and X. Papadakis, Atmospheric and Environmental Research, Inc., Lexington, MA
- P4.7 **Enhanced Use of GOES for Estimating Land Surface Wetness with Application to Wildfire Forecasting at the NOAA Storm Prediction Center.** Robert Rabin, NOAA/OAR/National Severe Storms Laboratory and Phillip Bothwell, NOAA/NWS/Storm Prediction Center, Norman, OK

- P4.8 **Evaluation of NASA SPoRT's Pseudo-Geostationary Lightning Mapper Products in the 2011 Spring Program.** Geoffrey T. Stano, NASA SPoRT Center/ENSCO, Inc., Huntsville, AL, Christopher Siewert, CIMMS University of Oklahoma, Norman, OK and Kristin M. Kuhlman, NOAA/OAR/LCI & CIMMS University of Oklahoma, Norman, OK
- P4.9 **Geospatial Assessment of the Reconstruction of the 1999 Moore, Oklahoma Tornado.** Melissa A. Wagner, Randy S. Cerveny and Soe W. Myint, Arizona State University, Tempe, AZ
- P4.10 **GOES Imager Stray Light Correction.** Hyre Bysal, NOAA/NESDIS/OSPO, Suitland, MD; Steven Buford, ITT Geospatial Systems; Timothy J. Schmit, NOAA/NESDIS/STAR, Madison, WI; Grant Matthews, ITT Geospatial Systems and Xiangqian (Fred) Wu, NOAA/NESDIS/STAR, Camp Springs, MD
- P4.11 **GOES Playback and Display: Interacting with Movies.** James L. Carr, Michael D. Smith and David M. Zakar, Carr Astronautics, Greenbelt, MD
- P4.12 **GOES-R AWG Product Processing System Framework: System Design.** Walter Wolf, NOAA/NESDIS/STAR, Camp Springs, MD; Shanna Sampson, Ray Garcia, Graeme Martin and Xingpin Liu,
- P4.13 **GOES-R Ground System and Algorithm Implementation Design.** Alexander Werbos and Elizabeth Lundgren, Atmospheric and Environmental Research, Inc., Lexington, MA and Robert Kaiser, Harris Corporation, Melbourne, FL
- P4.14 **GOES-R GS Product Generation Infrastructure Operations.** Mike Blanton, Harris Corporation, Melbourne, FL
- P4.15 **GOES-R Product Definition and Users' Guide - Work in Progress.** Christa C. Hornbaker and Michelle Burch, GOES-R Ground Segment Project/Boeing, Fort Walton Beach, FL
- P4.16 **GOES-R Products List and Planned Availability.** Donald Gray, NOAA/NESDIS, Goddard Space Flight Center, Greenbelt, MD
- P4.17 **GOES-R Proving Ground Product Development at CIRA.** Daniel T. Lindsey, Don Hillger, Deb Molenaar, John A. Knaff and Mark DeMaria, NOAA/NESDIS/RAMMB, Fort Collins, CO and Steve Miller, Renate Brummer, Louie Grasso, Stan Kidder, Dan Bikos, Jeff Braun, Bernie Connell, Ed Szoke, Hiro Gosden, Kevin Micke and Robert DeMaria. Cooperative Institute for Research of the Atmosphere, Fort Collins, CO
- P4.18 **GOES-R Sectorized Cloud and Moisture Imagery Products.** William H. Campbell, NOAA/NWS/OST, Silver Spring, MD; Marge M. Ripley and Jean-Jacques P. Bedet, NOAA/NESDIS/GOES-R Program Office, Greenbelt, MD; James N. Heil, NOAA/NWS/OCWWS and Brian S. Gockel, NOAA/NWS/OST, Silver Spring, MD
- P4.19 **How GOES-R Will Limit Outages and Breaks In Continuity.** Les Spain, Harris Corporation, Melbourne, FL
- P4.20 **Improved Forecasts of Convective Initiation Associated with the North American Monsoon System.** Brian Guyer and Deirdre Kann, NOAA/National Weather Service, Albuquerque, NM
- P4.21 **Improving High Impact Weather Forecasts with Combined GOES-R Measurement and Advanced Infrared Soundings from JPSS.** Jun Li, Cooperative Institute for Meteorological Satellite Studies, University of Wisconsin-Madison, Madison, WI
- P4.22 **Investigating the Impact of AIRS Thermodynamic Profiles on Convective Forecasts for the April 25-27, 2011 Severe Weather Events in the Southeastern United States.** Bradley T. Zavodsky, NASA SPoRT Center and MSFC, Huntsville, AL; Danielle M. Kozlowski, USRP/NASA Summer Intern Program, University of Missouri at Columbia, Columbia, MO; Andrew L. Molthan, NASA SPoRT Center and MSFC, Huntsville, AL and Jonathan L. Case, ENSCO Inc./ NASA SPoRT Center, Huntsville, AL
- P4.23 **Nighttime Oil Spills Detection and Monitoring by Infrared Satellite Remote Sensing.** Sungwook Hong, In-Chul Shin, Su-Mi Koh and Jong-Seo Park, National Meteorological Satellite Center (NMSC) / Korea Meteorological Administration (KMA), Republic of Korea
- P4.24 **NOAA's 2011 Satellite Direct Readout Conference: Summary and Outcomes.** Marlin O. Perkins, NOAA/NESDIS/Office of Satellite and Product Operations, NSOF, Suitland, MD

- P4.25 **NOAA's Suite of Operational Geostationary Sea Surface Temperature Products Current and Future.** Eileen Maturi, NOAA/NESDIS/STAR, Camp Springs, MD, Andy Harris and Jon Mittaz, University of MD, CICS, College Park, MD, and John Sapper and Robert Potash, NOAA/NESDIS/OSPO, Camp Springs, MD
- P4.26 **NREPS Applications for Water Supply and Management in California and Tennessee.** Patrick Gatlin, Mariana Felix Scott and Lawrence D. Carey, Earth System Science Center, University of Alabama in Huntsville, and Walter A. Petersen, NASA Marshall Space Flight Center, Huntsville, AL
- P4.27 **Objective Validation of Satellite-Based Convective Initiation Algorithms Using Radar.** Valliappa Lakshmanan, University of Oklahoma & NOAA/OAR/NSSL, Norman, OK; Robert Rabin, NOAA/OAR/NSSL, Norman, OK; Justin Sieglaff, CIMSS University of Wisconsin at Madison, Madison, WI; John Walker, University of Alabama in Huntsville and Gary Wade, NOAA/NESDIS/STAR, Madison, WI
- P4.28 **Operational Applications of New Satellite Data Sets in NWS Eastern Region.** Dave Radell, NOAA/NWS Eastern Region Headquarters, Bohemia, NY and Frank Alsheimer, NOAA/National Weather Service, Charleston, SC
- P4.29 **Severe Storm Identification with the Advanced Microwave Sounding Unit (AMSU).** Ralph Ferraro (Chair, NWA Remote Sensing Committee) and Chi Quinn, NOAA/NESDIS, College Park, MD and Daneld Cecil, University of Alabama in Huntsville, Huntsville, AL
- P4.30 **The GOES-R Product Generation Architecture.** Gerald Dittberner, Harris Corporation, Greenbelt, MD, Satya Kalluri, NOAA/NESDIS/GOESPO, Greenbelt, MD and Allan Weiner and Anderson Tarpley, Harris Corporation, Melbourne, FL
- P4.31 **The GRB Simulator: A System for Testing GOES-R Rebroadcast (GRB) Data Streams.** Kevin Gibbons, Harris Corporation, Melbourne, FL; Randall Race, SGT, Inc., Greenbelt, MD; Cliff Miller and Ken Barnes, Harris Corporation, Melbourne, FL and Gerald Dittberner, Harris Corporation, Greenbelt, MD
- P4.32 **The Ground Segment Architecture for GOES-R.** Dennis Hansen and Allan Weiner, Harris Corporation, Melbourne, FL; Satya Kalluri, NOAA/NESDIS/GOESPO, Greenbelt, MD; Gerald Dittberner, Harris Corporation, Greenbelt, MD and J. Bistrow, NASA/GSFC, Greenbelt, MD
- P4.33 **The Reproducibility of Research Baseline Results in Implemented Algorithms.** Rajiv Khanna, Noblis, Inc., Falls Church, VA and Ted Kennelly, Atmospheric and Environmental Research, Lexington, MA
- P4.34 **The Satellite Analysis Branch Hazard Mitigation Programs.** Jamie Kibler, NOAA/NESDIS/OSPO/SPSD/Satellite Analysis Branch, Camp Springs, MD
- P4.35 **The SUVI On-Orbit Calibration Underflight Program: A Feasibility Study.** Linda Habash Krause, Amy R. Winebarger, and Jonathan W. Cirtain, NASA Marshall Space Flight Center; Ken Kobayashi and Brian M. Robinson, University of Alabama in Huntsville, and Steven D. Pavelitz, NASA Marshall Space Flight Center, Huntsville, AL
- P4.36 **Transitioning Improvements in the GOES Sounder Profile Retrieval Algorithm into Operations.** Gary S. Wade, NOAA/NESDIS/StAR/CoRP/ASPB, Madison, WI; James P. Nelson III, CIMSS University of Wisconsin at Madison, Madison, WI; Amerigo S. Allegrino, IM Systems Group, Inc., Rockville, MD; Seth I. Gutman and Daniel L. Birkenheuer, NOAA/ESRL/GSD, Boulder, CO; Zhenglong Li and Anthony J. Schreiner, CIMSS University of Wisconsin at Madison, Madison, WI; Timothy J. Schmit, NOAA/NESDIS/StAR/CoRP/ASPB, Madison, WI; Jaime Daniels, NOAA/NESDIS/StAR/SMCD/OPDB, Suitland, MD and Jun Li, CIMSS University of Wisconsin at Madison, Madison, WI
- P4.37 **Updated Analysis of Lossless Compression Techniques for the GOES-R Rebroadcast (GRB) Sub-System.** Peter Finocchio, Bobby H. Braswell, Yuguang He, David B. Hogan and Daniel Hunt, Atmospheric and Environmental Research, Inc., Lexington, MA
- P4.38 **NOAA/NESDIS Satellite and Product Operations: User Services, Outreach and Help Desk Overview.** Matthew Seybold and Natalia Donoho, NOAA/NESDIS, Camp Springs, MD
- P4.39 **Using High-Resolution Sea Surface Temperature Data and a NASA Land Information System to Initialize a Local Weather Forecast Model at NWS Houston/Galveston.** Lance Wood and Scott Overpeck, NOAA/National Weather Service, Houston/Galveston, TX

- P4.40 **Using the Water Body Database for GOES-R Landmarking.** James L. Carr, David J. Herndon and Sarah Reehl, Carr Astronautics, Greenbelt, MD
- P4.41 **Validation of a Convective Storm Growth Detection Algorithm using a Satellite-Based Object Tracking Methodology.** Lee M. Counce, Justin M. Sieglaff, Daniel C. Hartung and Wayne F. Feltz, SSEC/CIMSS, University of Wisconsin at Madison, Madison, WI
- P4.42 **Advances in Technology to Optimize Use of DCS on GOES-R.** Kay Metcalf, NOAA/NESDIS/Office of Satellite & Product Operations, Suitland, MD
- P4.43 **HRIT/EMWIN: The Evolution of LRIT and EMWIN.** Paul Seymour, NOAA/NESDIS/OSPO, Suitland, MD; Robert Wagner and Santos Rodriguez, NOAA/NWS/OOS, Silver Spring, MD; Craig Keeler, NOAA/NESDIS/GOESPO, Greenbelt, MD and Kevin McMahon, Washington Consulting, Inc., Vienna, VA
- P4.44 **Moved from Student Poster Session (P0.5) Available Tools for Visualizing and Analyzing GOES-R Advanced Baseline Imager (ABI).** Kaba Bah, CIMSS UW-Madison, Madison, WI; Tim Schmit, CIMSS NOAA/NESDIS, Madison, WI; Tom Achor, CIMSS UW-Madison, Madison, WI; Marcia Counce, NOAA/National Weather Service, Milwaukee/Sullivan WI and Gary Wade, CIMSS NOAA/NESDIS, Madison, WI

### **Session XIII: Multifarious**

**Session Chair: Faith Borden, NWA Secretary, NOAA/National Weather Service, Las Vegas, NV**

- 3:30pm **A Comparison of Statistical versus Explicit Convective Model Precipitation Forecasts during the Summer Convective Season in Tallahassee, Florida**  
Jeffrey D. Fournier, Bryan Mroczka and Todd Lericos, NOAA/National Weather Service, Tallahassee, FL
- 3:45pm **Way Up North: Impacts of Weather on the People of Alaska**  
Stephen Kearney, NOAA/National Weather Service, Fairbanks, AK
- 4:00pm **Radar Analysis and Warning Issues of a Tornado Producing Bow Echo on 13 May 2010**  
Steve Amburn, Steven Piltz, Ed Calianese, Karen Hatfield and Brad McGavock, NOAA/National Weather Service, Tulsa, OK
- 4:15pm **Using Tsunami Perceptions to Measure Climate Change Literacy**  
Antonia Rosati, University of Colorado, Denver, CO
- 4:30pm **Closing Remarks: 36<sup>h</sup> NWA Annual Meeting adjourns**

The 7th GOES Users' Conference (GUC) continues on Friday morning with three user-focused group feedback discussion topics. For additional information about the GUC, go to [http://directreadout.noaa.gov/GUC\\_VII/index.htm](http://directreadout.noaa.gov/GUC_VII/index.htm).

Return to main meeting page at <http://www.nwas.org/meetings/nwa2011/> to preregister or for information on making hotel reservations and more.