



NEWSLETTER

**National Weather
Association**

NO. 09 – 8 AUGUST 2009

NWA 34th Annual Meeting: Oct. 18 – 22

We're meeting at the *Sheraton Waterside Hotel* in downtown Norfolk, Va.

This month's *Newsletter* is dedicated to the meeting agenda — we hope it will inspire you to join us!

Consider saving time and money by preregistrating before Oct. 9! The pre-registration fee includes a preprint volume with program and abstracts. For the period of days registered, it also includes admission to all oral presentations, poster sessions and exhibit sessions plus coffee/refreshment breaks. Links to preregistration details listed on page 8!

Annual Meeting information: www.nwas.org/meetings/nwa2009/

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

Norfolk Annual Meeting Close – Hotel Rooms Going!!

This promises to be another big, exciting meeting and hotel rooms are going fast.

Reserve your room at the ***Sheraton Waterside Hotel*** by **Wed., Sept. 16**, to obtain the NWA Meeting rate of \$94 per night single (\$139 double).

It is highly recommended that you book your room as soon as possible since the demand has been high.

www.sheraton.com/norfolk
or
1-888-627-8042

Don't Miss:

*Tues., Oct. 20 at 6:15 p.m.
"Bowling for Scholarships"
Extravaganza*

*Wed., Oct. 21 at noon
The Awards Luncheon*

NWA Broadcaster Workshop Tentative Agenda: Sunday, Oct. 18

- 7:30 a.m. **NWA Registration Desk opens (Exhibits open at 9:00 a.m.)**
- 8:30 a.m. **Welcoming Remarks** — NWA President Michael D. Vescio
- 8:35 a.m. **Opening Remarks** — Broadcast Committee Chair, Mike Goldberg and Broadcaster Workshop Program Co-Chair, Carl Thormeyer
- 8:45 a.m. **Welcome to Norfolk** — Mike Harvey, WTKR-TV, Norfolk, VA
- 9:00 a.m. **Presenting Weather As Science to the General Public** — Jack Williams, USA Today
- 9:15 a.m. **How Social Media is Changing the Way Weather Information is Being Sent** — Brad Panovich, WCNC-TV, Charlotte, NC
- 9:30 a.m. **Leveraging Social Science/Understanding Your Customer** — Dave Freeman, KSN-TV, Wichita, KS
- 9:45 a.m. **The Future is Now: Professional Development Opportunities on Demand** — Wendy Schreiber-Abshire, COMET
- 10:30 a.m. **Cloudscapes and Beyond: The View From Above** — H. Michael Mogil, How the Weatherworks
- 10:45 a.m. **The Windsor, Colorado Tornado: A Supercell in Landspout Territory** Ashton Altieri, KUSA-TV
- 11:00 a.m. **Snow or Bust: Challenges of Forecasting Snow at the Beach** Cheryl Nelson, WAVY-TV, Portsmouth, VA
- 11:15 a.m. **Information for Broadcast Meteorologists from the NWS Storm Prediction Center** — Greg Carbin, NOAA/NWS Storm Prediction Center, Norman, OK
- 11:30 a.m. **Significant Weather Events from 2009** — Greg Carbin, NOAA/NWS Storm Prediction Center, Norman, OK

Broadcaster Workshop continued from front (Sunday, Oct. 18)

- 1:30 p.m. **Evaluating Severe Storms with GR2Analyst**
Josh Korotky, NOAA/NWS Forecast Office,
Pittsburgh, PA
- 1:45 p.m. **Workshop: Advanced Remote Sensing Tools
for the TV Broadcaster** — Kevin Scharfenberg,
NOAA/National Severe Storms Laboratory,
Norman, OK; Sheldon Kusselson, NOAA/NESDIS,
Silver Spring, MD; and Gary Ellrod, NOAA/
NESDIS (retired), Silver Spring, MD
- 3:30 p.m. **News From the National Hurricane Center**
Bill Read, Director
- 3:50 p.m. **HPC Methodologies for Surface Weather
Analyses, Storm Summaries and Public
Advisories** — Katie Collins, NOAA/NCEP/HPC,
Camp Springs, MD
- 4:05 p.m. **Severe Thunderstorm Hazard Probability
Forecasts** — Joseph Schaefer, NOAA/Storm
Prediction Center, Norman, OK
- 4:20 p.m. **Broadcaster Panel Discussion**
- 7:00 p.m. **DVD Swap and Refreshments**

Student Session: Sunday, Oct. 18

- 12:30 p.m. **Welcome and Introductions** — Mike Vescio,
NWA President, NOAA/NWS Pendleton, OR;
Steve Harned, NWA Executive Director, Raleigh,
NC
- 12:45 p.m. **Career Wake-Up Call** — Jon W. Zeitler, NOAA/
NWS Austin/San Antonio, TX
- 1:00 p.m. **How to Prepare the Best Resume and Cover
Letter** — Elise V. Schultz, University of Alabama
in Huntsville, AL
- 1:15 p.m. **Reality Check: Separating Yourself from the
Rest in the Competitive Job Market** — John
Gordon, NOAA/NWS Louisville, KY
- 1:35 p.m. **Critical Skill Sets for Success Required of
Aspiring Professional Meteorologists for
Today's Job Market and in the Future** —
Daniel J. Miller, NOAA/NWS Duluth, MN
- 1:55 p.m. **Integrating the Critical Skill Sets: A Case
Study in High Impact Operations: The
January 2008 Ozarks Tornado Outbreak**
John P. Gagan, NOAA/NWS Springfield, MO
- 2:10 p.m. **How to Prepare For and Deliver an
Outstanding Job Interview** — John Ogren,
NOAA/NWS Kansas City, MO

- 2:30 p.m. **A Lifetime of Growth and Success through
Mentoring** — Kenneth Carey, Noblis, Inc., Falls
Church, VA
- 2:45 p.m. **Networking: It Helps Your Career!** John R.
Scala, WGAL-TV (NBC), Lancaster, PA
- 3:30 p.m. **Panel Discussion** — Bob Baron, Ken Carey,
John Scala, Alan Seals, John Ogren, Jon Zeitler,
Pat Market, Betsy Kling
- 4:30 p.m. **Interview Questions** — John Gordon, Bob
Baron, John Ogren, John Scala
- 5:00 p.m. **Student Poster Session**
- 8:30 p.m. **Student DVD Critique Session**

Annual Meeting General Sessions: Monday, Oct. 19

- 7:00 a.m. **NWA Registration Desk opens**
- 7:30 a.m. **Daily Weather Discussion**
- 9:00 a.m. **Exhibits open**
- Opening Session and Keynote Address**
- 8:00 a.m. **Welcoming Remarks' NWA President's
Message and Announcements** — Mike Vescio,
NWA President, NOAA/NWS Pendleton, OR
- 8:15 a.m. **Keynote Address** — Bill Read, Director, National
Hurricane Center
- Tropical Session** Session Chair: Anthony Siebers, NOAA/
NWS Wakefield, VA
- 9:00 a.m. **Hurricane Camille's Catastrophic Impact on
Virginia: A look back on the 40th anniversary
—Where we are now and where we are going**
Steve Keighton, NOAA/NWS Blacksburg, VA
- 9:15 a.m. **Overview of Vaisala's Long Range Lightning
Detection Capabilities and Recent Studies of
Inner Core Lightning in Atlantic Tropical
Cyclones** — Nicholas W. S. Demetriades and
Ronald L. Holle, Vaisala Inc.
- 9:30 a.m. **The Hurricane Severity Index - A New Way
of Estimating a Tropical Cyclone's True
Destructive Potential** — Chris Hebert, Robert A.
Weinzapfel and Mark A. Chambers, Impact
Weather, Inc.
- 9:45 a.m. **Satellite-Derived Tools for Inland Rainfall
Impacts from Tropical Cyclones** — Sheldon J.
Kusselson, NOAA/NESDIS/OSDPD/SSD/Satellite
Analysis Branch; Stanley Kidder and John
Forsythe, CIRA/Colorado State University; Limin
Zhao, NOAA/NESDIS/OSDPD/SSD Centre for
Australian Weather and Climate Research
(CAWCR), Melbourne, Australia
- Severe Weather Session I** Session Chair: Mike Coyne,
NOAA/NWS Huntsville, AL
- 10:30 a.m. **Cool-Season Derechos in Weak Instability
Environments** — Jeffery Evans, NOAA/NWS/
NCEP/Storm Prediction Center

- 10:45 a.m. **How did that Happen? A Look at Factors that go into Forecaster Warning Decisions** Elizabeth Quoetone and Jami Boettcher, NOAA/NWS/Warning Decision; Training Branch, Christopher Spannagle, OU/CIMMS
- 11:00 a.m. **The Impact of an Enhanced Damage Analysis on Determining the Damaging Wind Mechanism Within a Quasi-Linear Convective System** — Jay Martinelli, Creighton University, Van Dewald and Dan Nietfled, NOAA/NWS Omaha/Valley, NE, Ross Caniglia, Creighton University
- 11:15 a.m. **Environmental Characteristics Associated with Nighttime Tornadoes** — Andy Fischer, NOAA/NWS/NCEP/Aviation Weather Center, Jonathan M. Davies, Private Meteorologist, Trimble/Kansas City, MO
- 11:30 a.m. **New Developments in GOES-12 and GOES-R ABI Convective Initiation Detection** Wayne Feltz, Justin Sieglaff, Lee Crounce and Jordan Gerth, Cooperative Institute for Meteorological Satellite Studies UW-Madison; Kristopher Bedka, Science Systems and Applications, Inc (SSAI), Hampton, VA
- 11:45 a.m. **Analysis of the Severe Mid-Atlantic Derecho of 4 June 2008** — Steven M. Zubrick and Gregory M. Schoor, NOAA/NWS Sterling, VA, Michael Eckert, NOAA/NWS/NCEP Camp Springs, MD
- 12:00 p.m. **The Influence of Subsynoptic-Scale Dynamic Tropopause Potential Vorticity Disturbances on Severe Weather in the Southwestern United States during the North American Monsoon Season** **Scott Sukop** — Tim Melino, Lance F. Bosart and Jamie Matusiak, University of Albany, State University of New York; Steven J. Weiss, Jonathan Racy, Russell Schneider and David Bright, NOAA/NWS/NCEP/Storm Prediction Center; Erik Pytlak, NOAA/NWS Tucson, AZ
- 12:15 p.m. **Single-Doppler Radar Morphology and Evolution of the 29 March 2000 Dauphin Island Alabama Tornado-Producing Mesocyclone** — Jeffrey Medlin, NOAA/NWS Mobile, AL
- 1:30 p.m. **Keynote Address** — Louis Uccellini, Director, National Centers for Environmental Prediction
- Numerical Weather Prediction Session** Session Chair: *Sonia Mark-Flechtner, NOAA/NWS Wakefield, VA*
- 2:00 p.m. **Utility of Storm Prediction Center's Web Display of NCEP Short Range Ensemble Forecast (SREFs): Intra-Model Comparisons among SREF Runs and Exploration of Using Combined Data Fields** — David R. Bright, NOAA/NCEP/Storm Prediction Center, Steven M. Zubrick and Steven A. Listemaa, NOAA/NWS Sterling, VA
- 2:15 p.m. **Use of HRRR Hourly-updated 3km Radar-Initialized Mesoscale Model Data in Support of Forecast and Warning Operations at the Baltimore-Washington Weather Forecast Office** — Stan Benjamin and Kevin Brundage, NOAA Earth System Research Laboratory, Steve Weygandt, NOAA/ESRL, Steve Zubrick, NOAA/NWS Sterling, VA
- 2:30 p.m. **Does an Optimal Mesoscale Model Physics Configuration Exist in Forecasting Snowfall Accumulation for the Southern Appalachian Mountains?** Douglas K. Miller, UNC Asheville, Baker Perry, Appalachian State University, Sandra Yuter, North Carolina State University
- 2:45 p.m. **Using NWP In Forecast Operations: A New COMET Training Course** — William R. Bua, Stephen D. Jascourt and Gregory P. Byrd, UCAR/COMET
- 3:00 p.m. **Poster Session I** (Break Included) Session Chairs: *Betsy Kling, WKYC TV, Cleveland, OH, Cheryl Nelson, WAVY-TV 10/WVBT Fox 43, Hampton Roads, VA, Ken Carey, Noblis, Inc., Falls Church, VA*
- NextGen Session** Session Chair: *TBD*
- 4:15 p.m. **The 4-D Weather Data Cube: Roadmap to 2022** — Jason Tuell and Steve Abelman, NOAA/NWS/OST/Science Plans Branch, Silver Spring, MD, Curtis Neidhart, Integrated Systems Solutions, Inc, Cecilia Miner, NOAA/NWS/OCWWS/Aviation Services Branch, Silver Spring, MD
- 4:30 p.m. **NextGen 4-D Weather Data Cube for 2013** Cecilia Miner, NOAA/NWS/OCWWS/Aviation Services Branch, Silver Spring, MD, Steve Abelman and Jason Tuell, NOAA/NWS/OST/Science Plans Branch, Silver Spring, MD, James Stobie, ENSCO, Inc., Aviation Weather Programs, Cocoa Beach, FL
- 4:45 p.m. **The NWS Forecast Process in the NextGen Era** — Steve Abelman, NOAA/NWS/OST/Science Plans Branch, Silver Spring, MD, Cecilia Miner and Cammye Sims, NOAA/NWS/OCWWS/Aviation Services Branch, Silver Spring, MD
- 5:00 p.m. **IC4D - A New Tool for Producing Four Dimensional Aviation Forecasts** — Gene Petrescu, NWS Alaska Aviation Weather Unit
- 5:15 p.m. **Exploiting Weather Information from Airborne Forward-Looking Sensors in a Network-Enabled Next Generation Air Transportation System** — Philip R. Schaffner and Steven D. Harrah, NASA Langley Research Center, Kevin Kronfeld, Rockwell Collins, Cedar Rapids, IA
- 5:30 p.m. **NextGen Verification Plans** Jamie Vavra, NOAA/NWS Silver Spring, MD

5:45 p.m. **Next Generation Satellite Remote Sensing for the Detection, Characterization and Tracking of the Volcanic Ash Hazard to Aviation** — John Murray, NASA Langley Research Center, Arlin Krueger, University of Maryland Baltimore Campus, Michael Pavolonis, NOAA/NESDIS, Madison, WI, Alex Matus, Texas A&M, College Station, TX, MIT Laboratory

General Session (Tuesday, Oct. 20)

7:00 a.m. **NWA Registration Desk opens**

7:30 a.m. **Daily Weather Discussion**

9:00 a.m. **Exhibits open**

Opening Session and Keynote Address

8 a.m. **Keynote Address** — Dr. John L. “Jack” Hayes, NOAA Assistant Administrator for Weather Services and Director, National Weather Service

Future of Severe Weather Forecasting and Warnings I

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

8:30 a.m. **2009 Phased Array Radar Innovative Sensing Experiment** — Pamela Heinselman, NOAA/ NWS/National Severe Storms Lab, Norman, OK

9:00 a.m. **Nowcasting Wet Microburst Events with Phased Array Radar** — Steven Irwin, University of Oklahoma/NSSL, Travis Smith, CIMMS/NWS/NSSL

9:15 a.m. **Moving Quasigeostrophic Theory into the 21st Century** — Paul Nutter, University of Northern Colorado, Eric Thaler, NOAA/NWS Denver/Boulder, CO

9:30 a.m. **The Next Generation of Storm Data Collection** — Brenton W. MacAloney II, NOAA/NWS Performance Branch, Silver Spring, MD

9:45 a.m. **Four Dimensional Weather Data Visualization** — Dr. Adam Edson, ITT Visual Information Solutions, Boulder, CO

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

10:30 a.m. **Making Powerful Presentations and Posters: Connecting with Your Audience** — Carl D. Thormeyer, KSBW TV-8 (NBC), Salinas, CA

10:45 a.m. **Using Technology to Communicate Weather Information** — Kenneth W. Reeves, AccuWeather, Inc.

11:00 a.m. **Communicating and Promoting Interest and Awareness in Science** — H. Michael Mogil, How the Weatherworks

11:15 a.m. **Leveraging Social Science/Understanding Your Customer** — Dave Freeman, KSNW TV, Wichita, KS

11:30 a.m. **Panel Discussion/Q&A: Challenges and Perspectives in Communicating Weather Information** *Facilitators: Ken Carey and Carl Thormeyer*

Weather Analysis and Forecasting Session I

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

12:45 p.m. **Retro-forecasts of Historic Weather Events Using the Weather Research and Forecast Modeling System** — David Beachler and Richard Grumm, NOAA/NWS State College, PA

1:00 p.m. **The Transition of High-Resolution NASA MODIS Sea Surface Temperatures into the WRF Environmental Modeling System** Jonathan L. Case, ENSCO Inc./NASA SPoRT Center, Huntsville, AL; Gary J. Jedlovec, NASA/MSFC, Huntsville, AL; Pablo Santos, NOAA/NWS Miami, FL; Jeffrey M. Medlin, NOAA/NWS Mobile, AL

1:15 p.m. **A New Numerical Weather Prediction Approach to the NDFD's Sky Cover Grid** Jordan Joel Gerth, CIMSS/SSEC, University of Wisconsin, Madison, Robert Aune, NOAA/NESDIS/ASPB, Madison, WI

1:30 p.m. **Convective Research for Operational Forecasting and Training: A Verification of Operational Research Trial Simulations** Paul J. Croft and Tom Skic, Kean University, Alan Cope, NOAA/NWS Philadelphia/Mount Holly

1:45 p.m. **Using Geographic Information Systems to Assess Forecasts of High Impact Weather Events** — Jack Settelaar, NOAA/NWS Southern Region HQ

2:00 p.m. **Verification of the Cooperative Institute for Precipitation Systems' Analog Guidance Probabilistic Products** — Chad M. Gravelle and Charles E. Graves, Saint Louis University; John P. Gagan, NOAA/NWS Springfield, MO; Fred H. Glass, NOAA/NWS St. Louis, MO

2:15 p.m. **Poster Session II** (Break Included) *Session Chairs: Richard Okulski, NOAA/NWS Memphis, TN; Jeffrey Tongue, NOAA/NWS New York, NY; Dr. Scott Rochette, The College at Brockport*

Hydrology Session *Session Chair: Faith Borden, NOAA/NWS Las Vegas, NV*

4:15 p.m. **Atmospheric Circulation Pattern Comparison of the 2008 Midwest Floods to the Historic 1993 Flood** — Norman W. Junker, NWS/HPC (Retired), Michael Bodner, NOAA/NWS/HPC Camp Springs, MD, Richard H. Grumm, NOAA/NWS State College, PA, Russ S. Schumacher, NCAR Boulder, CO

4:30 p.m. **The NOAA Hydrometeorology Testbed & Plans for the Southeast U.S. 2010-2015** Jeff S. Waldstreicher, NOAA/NWS Eastern Region HQ; Timothy Schneider, NOAA/ESRL/Physical Sciences Division, Boulder, CO

4:45 p.m. **2009 Red River Valley of the North Flood: How New Technologies Enhanced Forecasting Capabilities** — Andrea Holz, Steve Buan and Mike DeWeese, NOAA/NWS North Central River Forecast Center, Chanhassen, MN; Michael Lukes, NOAA/NWS Grand Forks, ND; Diane F. Cooper, NOAA/NWS Twin Cities, MN

5:00 p.m. **NWS Experimental Hourly Precipitation Analysis Products** — Diane Cooper, NOAA/NWS Twin Cities, MN; William Lawrence and James Paul, NOAA/NWS Arkansas-Red Basin River Forecast Center, Tulsa, OK; Kai Roth, NOAA/NWS Lower Mississippi River Forecast Center, Slidell, LA

5:15 p.m. **Successes Gained, Lessons Learned from On-Site Decision Support Provided during the Fargo, ND Record Flood Crest 26 March - 4 April, 2009** — Michael J. Hudson, NOAA/NWS Central Region HQ, Gregory J. Gust, NOAA/NWS Grand Forks, ND

5:30 p.m. **The Extreme Flash Flood Event of August 1, 1971 in Northern Maryland. Are we better prepared today?** Bruce Sullivan, NCEP/HPC Camp Springs, MD

6:15 p.m. **"Bowling for Scholarships" Extravaganza**

General Session (Wednesday, Oct. 21)

7:00 a.m. **NWA Registration Desk opens**

7:30 a.m. **Daily Weather Discussion**

Opening Session and Keynote Address

8:00 a.m. **Keynote Address** — Dr. Fred P. Lewis, Director of Weather, US Air Force

8:30 a.m. **Keynote Address** — Rear Admiral David W. Titley, Commander, Naval Meteorology and Oceanography Command

Future of Severe Weather Forecasting and Warnings II

Session Chair: John Scala, WGAL TV, Lancaster, PA

9:00 a.m. **The Benefits of CASA Radar Networks for Warning and Response** — Brenda Philips, University of Massachusetts; Ellen Bass and Don Rude, University of Virginia, Charlottesville, VA; Jerald A. Brotzge, CAPS, University of Oklahoma, Norman, OK; Les Lemon, NOAA/NWS/Warning Decision Training Branch

9:15 a.m. **CASA Analysis and Forecast Products: Demonstration Products from the 13 May 2009 Tornado** — Jerald A. Brotzge, Jidong Gao, Keith Brewster, Yunheng Wang, Kevin Thomas, M. Xue, S. Hill, B. Philips, and D. Rude, CAPS, University of Oklahoma

9:30 a.m. **GOES-R Applications for Future Severe Convective Weather Forecasting and Warning Operations** — James J. Gurka, NOAA/NESDIS/GOES-R Program Office, Timothy J.

Schmit, NOAA/NESDIS/SAR/ Advanced Satellite Products Branch, Steven Goodman, NOAA/NESDIS, Christopher Siewert, OU-CIMMS

9:45 a.m. **The GOES-R Proving Ground 2009 Spring Experiment at NOAA's Hazardous Weather Testbed** — Christopher Siewert, OU-CIMMS, Russell Schneider, NOAA/NWS/NCEP/SPC, Eric Bruning, University of Maryland/ESSIC/NOAA-CICS, Steve Goodman, NOAA/NESDIS, Bob Rabin, NSSL/UW-CIMMS

Decision Support session *Session Chair: Mike Goldberg, NWA Broadcast Program Chair*

10:30 a.m. **A Pyramid Approach for Effectively Communicating Weather Information** Mark A. Fox, NOAA/NWS Southern Region HQ

10:45 a.m. **National Weather Service Local Decision Support Services** — Richard Okulski, NOAA/NWS Memphis, TN

11:00 a.m. **A Decision-Support System for Winter Weather Maintenance of Roads, Bridges, and Runways** — Michael B. Chapman and Sheldon Drobot, National Center for Atmospheric Research, Boulder, CO

11:15 a.m. **National Weather Service Eastern Region Decision Support Services for High Profile Events** — Brandon Smith, NOAA/NWS Upton, NY, John Koch, NOAA/NWS Eastern Region HQ

11:30 a.m. **Leveraging Technology to Revolutionize Weather Services through an Integrated Warning Team** — Suzanne Fortin, Julie Adolphson, Andy Bailey and Derek Deroche, NOAA/NWS Pleasant Hill, MO

11:45 a.m. **Are You Really Prepared? A Real Life Assessment after the Ohio Valley Ice Storm 2009** — Patrick J. Spoden, Shane Luecke, Robin R. Smith, Daniel Spaeth and Christine Wielgos, NOAA/NWS Paducah, KY

12:00 p.m. **Awards Luncheon**

1:30 p.m. **Teacher's Weather Workshop**

Remote Sensing Session *Session Chair: Ralph Ferraro, NOAA/NESDIS*

1:30 p.m. **GOES-R Proving Ground: Ensuring User Readiness** — James Gurka and Steve Goodman, NOAA/NESDIS/GOES-R Program Office, Timothy Schmit, NOAA/NESDIS/STAR, Anthony Mostek, NOAA/NWS/OCWWS CIRA

1:45 p.m. **Operational Uses of Bands on the GOES-R Advanced Baseline Imager (ABI)** — Kaba Bah, Jordan Gerth and Jason Otkin, UW-Madison Cooperative Institute for Meteorological Satellite Studies (CIMSS), Madison, WI; Timothy J. Schmit, NOAA/NESDIS/Satellite Applications and Research, Madison, WI

- 2:00 p.m. **UrbanNet: Urban Environment Monitoring and Modeling with a Wireless Sensor Network** — Paul J. Croft, Feng Qi, Patricia Morreale, Alicja Tropek and Johana Callegari, Kean University
- 2:15 p.m. **Satellite-Derived Cloud Properties in Near-Real Time for Weather and Aviation Safety** — Patrick Minnis and William L. Smith, Jr., NASA Langley Research Center, Hampton, VA, Rabindra Palikonda, Douglas A. Spangenberg and J. Kirk Ayers, SSAI, Hampton, VA, Fu-Lung Chang, National Institute for Aerospace, Hampton, VA
- 2:30 p.m. **The Great Smoky Mountain Rain Gauge Network: Status and Stories** — Douglas K. Miller, UNC Asheville, Ana Barros, Duke University
- 2:45 p.m. **Review of Significant Weather Events Occurring in 2009** — Greg Carbin, NOAA/NWS Storm Prediction Center
- Fire Weather Session** Session Chair: John Gagan, NOAA/NWS Springfield, MO
- 3:45 p.m. **Weather Support to FEMA/DHS During and Following the Devastating Southern California Wildfires of October 2007** — Todd Morris, NOAA/NWS Los Angeles/Oxnard, CA
- 4:00 p.m. **An Examination of Lightning Busts Over the Western United States** — Melissa Hurlbut, NOAA/NWS Storm Prediction Center
- Radar Session** Session Chair: Jeff Waldstreicher, NOAA/NWS/Eastern Region HQ
- 4:15 p.m. **Dual Polarization: Coming Soon to a Radar Near You** — Paul Schlatter, NOAA/NWS Warning Decision Training Branch, Norman, OK
- 4:30 p.m. **Dual Polarimetric Algorithm Products for Operational Meteorology** — Dan Berkowitz, NOAA/NWS Radar Operations Center, Norman, OK, Mark Fresch, Dan Stein and David Kitzmiller, NOAA/NWS Office of Hydrologic Development, Mike Istok and Brian Klein, NOAA/NWS Office of Science and Technology, Paul Schlatter, NOAA/NWS Warning Decision Training Branch
- 4:45 p.m. **Developing Dual Polarization Applications for 45th Weather Squadron's New Weather Radar: A Cooperative Project with the National Space Science and Technology Center (NSSTC)** — William P. Roeder and Todd M. McNamara, 45th Weather Squadron; Patrick AFB, FL; Walter A. Petersen, NASA Marshall Spaceflight Center, Lawrence D. Carey and Wiebke Deierling, University of Alabama in Huntsville
- 5:00 p.m. **Evaluating Severe Storms with GR2Analyst** — Josh Korotky, NOAA/NWS Pittsburgh, PA

- 5:15 p.m. **NEXRAD Product Improvement: Update 2009** — Michael J. Istok, NOAA/NWS Office of Science and Technology, Silver Spring, MD; Gregory S. Cate, NOAA/NWS Office of Science and Technology, Norman, OK; Robert E. Saffle, Noblis, Inc, Silver Spring, MD
- 5:30 p.m. **Radar Integrated Display using Geospatial Elements Version 2 (RIDGE2)** — Keith Stellman, NOAA/NWS Shreveport, LA, Corey Pieper and Paul Kirkwood, NOAA/NWS Southern Region HQ, Jason Burks, NOAA/NWS Huntsville, AL, Brian Walewander, NOAA/NWS Central Region HQ
- 5:45 p.m. **Advantages of Using Terminal Doppler Weather Radar for Interrogating Severe Local Storms** — Michael Scotten, NOAA/NWS Memphis, TN, Eric Howieson, NOAA/NWS Southern Region HQ
- Future of Severe Weather Forecasting and Warnings III Session** Chair: Mike Vesio, NWA President, NOAA/NWS Pendleton, OR
- 7:00 p.m. **The Explicit Prediction of Convection: How well can we do?** — Morris Weisman, National Center for Atmospheric Research, Boulder, CO
- 7:30 p.m. **NSSL's Vision for Storm Scale Numerical Weather Prediction** — Dr. Louis J. Wicker, NOAA/National Severe Storms Laboratory
- 8:00 p.m. **The Experimental Warning Program 2009 Spring Experiment at the NOAA Hazardous Weather Testbed** — Greg Stumpf, CIMMS/NWS-MDL, Travis Smith and Kevin Manross, CIMMS/NSSL, David Andra, NOAA/NWS Norman, OK
- 8:30 p.m. **The NOAA Hazardous Weather Testbed Experimental Forecast Program - Bridging the Gap Between Research and Operations to Improve Severe Convective Weather Forecasts** — Steven J. Weiss, David R. Bright, Jason J. Levit and Gregory W. Carbin, NOAA/NWS/Storm Prediction Center, John S. Kain and Michael C. Coniglio, NOAA/OAR/NSSL

General Session (Thursday, Oct. 22)

- 7:00 a.m. **NWA Registration Desk opens**
- 7:30 a.m. **Daily Weather Discussion**
- Severe Weather II Session** Session Chair: Jim Stefkovich, NOAA/NWS Birmingham, AL
- 8:00 a.m. **Use of Hourly Maximum Convective Storm Attribute Fields from Convection-Allowing WRF Models in Operational Severe Weather Forecasting** — Steven J. Weiss and Jason J. Levit, NOAA/NWS/NCEP/Storm Prediction Center, John S. Kain, NOAA/OAR/National Severe Storms Laboratory, Scott R. Dembek, CIMMS/University of Oklahoma and University Space Research Association/NASA, Philadelphia, PA, Matthew

E. Pyle, NOAA/NWS/NCEP/Environmental Modeling Center, Camp Springs, MD

8:15 a.m. **Utility of Local Radar Data in the Warning Decision Making Process** — Chris Darden and Mike Coyne, NOAA/NWS Huntsville, AL, Chris Palmgren, Stephen McCloud and Chris Schulz, Baron Services, Inc., Huntsville, AL

8:30 a.m. **The New Hampshire Tornado of 24 July 2008: Mesoscale Environment and Radar Characteristics** — Dan St. Jean, Mike Cempa and John W. Cannon, NOAA/NWS Gray, ME

8:45 a.m. **Pathcasts: How Well Can we Forecast Future Tornado Locations?** Kevin Scharfenberg, NOAA/NWS/OCWWS, Norman, OK, Doug Speheger, NOAA/NWS Norman, OK, Andrew Dean, OU/CIMMS and NOAA/SPC, Norman, OK, Kevin Manross and Kiel Ortega, OU/CIMMS and NOAA/NSSL, Norman, OK

9:00 a.m. **Lightning and NEXRAD Characteristics of Several Tornadoic and Non-Tornadoic Storms on March 15, 2008** — John M. Trostel and Jenny L. Matthews, Severe Storms Research Center, Georgia Tech Research Institute, Atlanta, GA, Nicholas W. Demetriades, Vaisala Inc., Tuscon, AZ

9:15 a.m. **Using Preferred Geopotential Heights to Predict Highest Threat of Significant Tornadoes** — Jeff Craven, NOAA/NWS Milwaukee, WI

9:30 a.m. **The Revised Enhanced Resolution Thunderstorm Experiment at the Storm Prediction Center** — Jeremy Grams, David Bright and Joseph Schaefer, NOAA/NWS/NCEP/Storm Prediction Center

9:45 a.m. **Looking at 1 Inch Hail Criteria for Severe Thunderstorms in the Mid-South** — Thomas Salem, NOAA/NWS Memphis, TN, Matthew Reagan and Kevin Terry, NWS Memphis and University of Memphis, Memphis, TN

10:00 a.m. **Poster Session III** (Break Included) *Session Chair: Steven Keighton, NOAA/NWS Blacksburg, VA*

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

11:30 a.m. **Meteorological Support for a Weather-Sensitive Marine Project** — Mark Mathiesen and Jim Dykas, Impact Weather, Inc.

11:45 a.m. **Forecasting Wind Gusts over Marine Locations along the Atlantic and Gulf Coasts of the United States** — Larry Brown, NOAA/NWS Wakefield, VA

12:00 p.m. **The Great Lakes Pneumonia Front: A New Study of Land-Sea Interactions** — Jordan Joel Gerth, CIMSS/SSEC, University of Wisconsin, Madison

12:15 p.m. **Summer of the Spouts: Analysis of Waterspout Development along the Southern New England Coast during the Summer of 2008** — Eleanor Vallier-Talbot, NOAA/NWS Taunton, MA

Weather Analysis and Forecasting II Session *Session Chair: Jeffrey Craven, NOAA/NWS Milwaukee, WI*

1:30 p.m. **Experimental Lightning Forecasting in Central North Carolina** — Gail I. Hartfield, NOAA/NWS Raleigh, NC

1:45 p.m. **Increasing the Temporal Resolution of Meteorological Surface Data: A Change for the METAR** — Jeffrey Tongue and Matthew Sardi, NOAA/NWS New York, NY

2:00 p.m. **A High-Resolution Ensemble for the Mid-Atlantic States** — Brian Etherton, Renaissance Computing Institute (RENCI), University of North Carolina, Chapel Hill, NC

2:15 p.m. **Assessment of Weather Related Non-Recurring Congestion on Utah's Highways: Investigation of Event Impacts from the Winter of 2008-09** — Randy Graham, Kevin Barjenbruch and Mike Seaman, NOAA/NWS Salt Lake City, UT, Ralph Patterson, Glen Blackwelder, Glen Merrill, Julie Miller and Audra Yocom, Utah Dept of Transportation, Traffic Operations Center, Salt Lake City, UT, Mike Holts and Jeff Williams, NorthWest WeatherNet, Salt Lake City, UT

2:30 p.m. **Return Flow, Drylines, and Moist Lines** Loren D. White, Jackson State University, Jackson, MS

2:45 p.m. **Lessons in Predictability Part I: The Post Groundhog Day 2009 Storm** — Neil A. Stuart, NOAA/NWS Albany, NY, Richard H. Grumm, NOAA/NWS State College, PA, Michael J. Bodner, NOAA/NWS/National Centers for Environmental Prediction, Camp Springs, MD

3:00 p.m. **The Verification of Short to Long-Range Forecasts Using Simple Methods** — Anthony R. Lupo, Adam Hendin and Patrick S. Market, University of Missouri, Columbia, MO

3:15 p.m. **The Use of Climatic Anomalies and Probability Forecasts to Predict Heavy Rainfall West of the Rocky Mountains** Richard Grumm, NOAA/NWS State College, PA, Michael Bodner, NOAA/NWS/NCEP/HPC

Customer Service/Outreach Session *Session Chair: TBD*

4:00 p.m. **A Collaborative Partnership to Distribute a Hurricane Guide along the Texas Gulf Coast** Scott C. Cordero and John J. Metz, NOAA/NWS Corpus Christi, TX

4:15 p.m. **County Scale Place Perception and Amplification of Short-Fuse Severe Weather Risk** — Kevin Barrett, Texas State University, San Marcos, TX

Aviation Session Session Chair: TBD

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

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

4:45 p.m. **Impact Aviation Verification: Using the Weather Impact Traffic Index (WITI)**

Fred McMullen, NOAA/NWS/Eastern Region HQ,
Tom MacPhail, NOAA/NWS HQ

5:00 p.m.

Development of a TAF IFR Lead-Time Metric Statistical Web Tool Andrew F. Loughe and Brian Pettegrew, University of Colorado-CIRES and NOAA/ESRL/GSD, Sean Madine, Colorado State University-CIRA and NOAA/ESRL/GSD, Jennifer Mahoney, NOAA/ESRL/GSD

5:15 p.m.

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

Criteria William H. Bauman III, NASA Applied Meteorology Unit/ENSCO, Inc.

5:30 p.m.

Closing Remarks

PREREGISTER ONLINE for the Annual Meeting by credit card (MC or Visa) at:

www.nwa-registration.org/register.shtml (Broadcast Workshop and/or most of the General Session)

www.nwa-registration.org/registerbyday.shtml (Broadcast Workshop and/or only a day or two of the General Session)

PREREGISTRATION BY MAIL visit: nwas.org/meetings/nwao9mtg.php or contact the NWA Headquarters

This edition of the *NWA Newsletter* is dedicated to the 34th Annual Meeting in Norfolk, Virginia.

Dates 2 Remember

Aug. 27 – 28: 13th Annual High Plains Conference. North Platte, Neb.

Sept. 30 – Oct. 1: 5th Symposium on Southwest Hydrometeorology. Albuquerque, N.M.

Oct. 17 – 22: 34th NWA Annual Meeting. Norfolk, Va.

Nov. 3 – 5: 6th GOES Users' Conference. Madison, Wisc.

The Professional Development listings will return next month but are always listed at: www.nwas.org/events.php

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