

## PRESIDENT'S MESSAGE

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*This issue of the Newsletter includes the agenda for the NWA's 31st Annual Meeting to be held, 14-19 October in Cleveland, Ohio. I asked our Vice President, Mike Vescio, to contribute his thoughts on this year's agenda, and to provide some background on the huge effort involved in planning and producing a successful annual meeting. He speaks with a wealth of experience, and I think you will enjoy his perspective.*

The Agenda for the NWA's 31st Annual Meeting has been drafted and Theresa Rossi, Bryan Karrick and all other Program Committee members are to be congratulated for their superb efforts. Over 145 abstracts were received, and based on the quality of the submissions it is obvious that our members are working hard to advance the field of meteorology across the public, private and academic sectors. The agenda consists of an excellent mix of topics related to operational meteorology. Sunday's agenda is specifically designed for the broadcasters, but all are welcome to attend. On Monday morning, the general sessions will begin with keynote addresses by Brigadier General USAF (Ret.) David L. Johnson, NOAA Assistant Administrator for Weather Services and Director, National Weather Service; Rick McCoy, Director Emergency Management Agency, Van Wert County, Ohio; and, Dean Gulezian, Director National Weather Service Eastern Region. A Special Remote Sensing session is planned on Tuesday in honor of NWA Past-president Rod Scofield who passed away earlier this year. At the NWA Awards Luncheon on Wednesday, there will be a tribute to Rod and NWA Past-president Jim Moore, who recently passed away. Dr. Richard W. Spinrad, NOAA Assistant Administrator for Oceanic and Atmospheric Research will be a keynote speaker on Wednesday morning. Plan to attend this year's meeting! It will offer great opportunities for professional development and for discussing ideas and concerns with other members and guests.

Many of you may wonder how the Annual Meetings are pulled together each year. Normally, the process begins at least two years in advance. The Annual Meetings rotate to different parts of the country each year with the U.S. broken into three parts: east, central, and west. This year's Meeting in Cleveland is considered an "east" location. The meeting rotation is done so that all NWA members have an opportunity to attend an Annual Meeting in fairly close proximity to their homes every third year.

Choosing a specific location to host the Annual Meeting is dependent on a number of factors: access to a good pool of local meeting support volunteers, suitable hotel availability and close proximity to local restaurants, transportation and entertainment options. Another factor to consider is travel to and from the host city. Several airlines and flight options should be available at the local airport. Once all of these factors have been considered and concerns alleviated, a contract is signed between the host hotel and the NWA Executive Director.

It is important to note that throughout the location search, the NWA Council recommends cities, is kept informed of the progress, has final approval over the location and appoints the volunteer Program Committee Chairperson.

By February of each year, the Program Committee issues a Call for Abstracts and provides instructions for authors. The deadline for abstract submission is generally in early June. From early June until around the first of August, the Program Committee has the very difficult task of piecing together the program for the broadcaster workshop and the general sessions.

**The job of developing the general session program has become more difficult in recent years because of the increased number of abstract submissions. This is a GOOD difficulty to deal with!** This has meant large poster sessions, but it is good to know that you can attend a NWA Annual Meeting and see every presentation without having to choose between concurrent sessions.

Once the agenda is finalized and approved, the Program Committee's work is far from over. Committee members must develop the preprint volume, which is a major task and very time consuming. The Program Chair and Executive Director have to be sufficiently satisfied with the preprint to have up to 500 copies made just prior to the start of the Annual Meeting.

There are local arrangements to take care of as well, such as special functions during meeting week like the popular golf outing, obtaining transportation instructions, information on local attractions and local weather, and audio visual support. Attention to all of these details makes for a more pleasant stay for all attendees. The NWA staff solicits corporate members to exhibit and makes all arrangements with the hotel for meeting space, catering and equipment needs. Once the Annual Meeting arrives, the Program Committee members and NWA staff are there to ensure that everything runs seamlessly through each activity and each meeting session and to answer any questions that you may have. Of course, your elected NWA Council members are at your service during the week as well.

Hopefully, this article provides you with a better understanding of how a meeting is pieced together. It takes a lot of effort, teamwork, and a willingness to serve, to hold the great NWA Annual Meetings that we have each year. Maybe you would like to consider volunteering your services one year. From my experience, it is very rewarding to see a successful Annual Meeting through from start to finish.

– Mike Vescio

*We close out this President's Message with sad news. As Mike indicated above, we lost another great friend of the NWA when former President Jim Moore passed away in July. Our thoughts and prayers go out to the Moore and Scofield families and friends who mourn great losses this year. The NWA and the entire meteorological community have lost two great contributors and special friends, but their legacies live on in the people they touched and the great lessons they taught us all.*

– Dave Knapp, President@nwas.org

## ◀ IN MEMORIAM ▶

### **James Thomas Moore, Ph.D.**

(1952-2006), charter member and Past-president (1999) of the NWA, Professor of Meteorology at Saint Louis University, husband of Kathy and great friend of many, departed from us much too early from cancer on July 25, 2006. His New York accent gave away his origin. He graduated magna cum laude from New York University in 1974 with a B.S. in Meteorology. He earned his M.S. and Ph.D. in 1976 and 1979, respectively, from Cornell University where he focused his graduate work on the severe storm environment. From 1978 to 1980, he taught classes in synoptic and dynamic meteorology at the State University of New York at Oneonta. In 1980, he accepted a position at Saint Louis University where he instructed undergraduate and graduate students in synoptic and dynamic meteorology, severe local storm forecasting, numerical weather prediction and air pollution meteorology, among other subjects. An example of his operational focus was research sponsored by the National Science Foundation concerning the use of isentropic analyses in forecasting severe convection. One outgrowth of this work was a manual, "Isentropic Analysis and Interpretation: Operational Applications to Synoptic and Mesoscale Forecast Problems," published in various forms by both the USAF Air Weather Service and the National Weather Service Training Center. Jim was the Principal Investigator of a Cooperative Program for Operational Meteorology, Education, and Training (COMET) grant studying forecasting of heavy precipitation events in the mid-Mississippi and Ohio River valleys, and he gave many seminars and workshops at COMET. He authored well over 50 articles spanning a broad spectrum of synoptic, dynamic and mesoscale meteorology. He visited over 30 NWS offices and a number of military and private sector weather offices to present research findings and to listen to operational meteorologists to learn of forecasting problems.



In 2000, Jim was the recipient of the NWA's annual T. Theodore Fujita Research Achievement Award. In 2005, he served as co-chair of the Program Committee for the 30th NWA Annual Meeting held in Saint Louis. In July, he was presented with the inaugural Lifetime Achievement Award by COMET for his many years of outstanding service.

He is survived by his wife Kathryn, his mother Alice, sister Betty (Bill) Terry, and brothers Frank Reese, and William (Eileen) Moore. The family requests that in lieu of flowers, donations be sent to: Department of Earth and Atmospheric Sciences, Meteorology Research Fund, O'Neil Hall, Saint Louis University, 3642 Lindell Blvd., Saint Louis, MO 63108.

**A memorial service was held in July and another will be held at Saint Louis University on 22 September in Room 157 of DuBourg Hall, 221 North Grand Blvd., Saint Louis, MO 63103-2097. Professor Chuck Graves is compiling a book of comments to display at the service and present to Jim's family. This way everyone can share their thoughts and comments about Jim. If you would like to contribute, please e-mail your comments by 18 September 2006 to graves@eas.slu.edu.**

Dennis McCarthy, who was a keynote speaker at the NWA Annual Meeting in 2005 that Dr. Jim Moore co-chaired, wrote from his office at NWS Headquarters --

*Operational meteorologists and hydrologists across the U.S. lost a great friend, an influential trainer, and a dedicated researcher on July 25, 2006 when Professor James T. Moore died in Saint Louis, Missouri. Many of Jim's former students work for the National Weather Service, but many more of us in the NWS had the great fortune to attend his training classes, workshops, and AMS or NWA presentations. Most of us have worked through at least one or two of his remote training modules, which will continue to serve us well in years to come. Dr. Jim Moore was a Professor at Saint Louis University for the past 25 years, helping to build a strong program in the Department of Earth and Atmospheric Sciences. He was an inspiration to many, both in and outside the classroom, especially through his contagious excitement about operational meteorology. Jim was a past president of the National Weather Association (1999) and a Fellow of the American Meteorological Society. He was very active in both professional organizations, always finding creative ways to get his students to conferences and always using those conferences to bring his and his students' research to operational forecasters.*

*We will truly miss Jim, his famous wit and his enthusiasm, but we are all better forecasters for our association with him, and we will be using what we learned from him for a long time.*

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## NWA ANNUAL MEETING AGENDA

This preliminary agenda (as of 25 August 2006) is provided for members planning to attend and as crossfeed to all readers interested in knowing the variety of studies being done in the public, academic and private sectors. The agenda will be kept updated on the NWA Web site.

The 31st Annual Meeting of the National Weather Association will be held 14-19 October 2006 at the InterContinental Hotel, 9801 Carnegie Avenue, Cleveland, Ohio 44106. Attendees can register at the meeting or **preregister by 6 October 2006** using the form in the June NWA Newsletter or on the NWA Web site ([www.nwas.org](http://www.nwas.org)). Online pre-registration with credit card is also available.

To all prospective attendees -- please **reserve a room** at the InterContinental Hotel as soon as possible, but **before 13 September** to ensure the \$99/day NWA discount rate. Call 216-707-4000 or 1-877-707-8999 and request the group rate for the National Weather Association Annual Meeting. Check in at the NWA Registration and Information desk on the 2nd floor of the InterContinental Hotel as soon as possible after you arrive to obtain a nametag and printed program.

### Saturday, 14 October 2006

**Fifth Annual Golf Classic:** Betsy Kling (NWA Councilor and Public Relations chairperson) is organizing the fifth annual NWA golf outing for the enjoyment of members and guests and to raise funds for scholarships as she did so successfully the last four years. The Golf Outing will begin with lunch at Coppertop at the Cherokee Hills Golf Course, 5740 Center Road, Valley City, OH southwest of Cleveland ([www.cherokeehillsgolf.com](http://www.cherokeehillsgolf.com)). Several members have signed up already and Betsy wants to make sure EVERYONE knows they are most welcome to play golf even if not attending the Annual Meeting. Total cost is \$90 for greens fees, golf cart, lunch, a steak dinner, and prizes. Any profits from the event will benefit NWA educational scholarships. **Reserve your tee time** by contacting Betsy at [BetsyKling@wky.com](mailto:BetsyKling@wky.com) or contact the NWA Office at (434) 296-9966; [NatWeaAsoc@aol.com](mailto:NatWeaAsoc@aol.com) **by the first of October.**

**12:00 PM – 10:00 PM** NWA Registration/Information Desk will be open at the InterContinental Hotel 2nd floor for check in.

**Sunday, 15 October 2006**

**0700 AM – 1030 PM** NWA Registration/Information Desk open at the InterContinental Hotel on the 2nd floor in the foyer of the Ballroom. **It will be open every day of the meeting.**

**0700 AM – 1100 AM** Exhibits setup in Ballrooms A & B.

**0830 AM – 0500 PM** Broadcaster Workshop in Ballroom C (see schedule below)

**1000 AM – 0330 PM** Aviation Seminar for Pilots and all aircrew members organized by the NWA Aviation Committee will be held at the International Women's Air and Space Museum located in the terminal at Burke Lakefront Airport 1501 North Marginal Road, Cleveland, OH. For more information, contact the NWA office at NatWeaAsoc@aol.com.

**1130 AM – 0600 PM** Exhibits open in Ballrooms A & B.

**0700 PM – 1030 PM** TAPE SWAP 2006 in Ballroom C (see below)

**BROADCASTER WORKSHOP – (Ballroom C) Presentations and workshops as shown below are for the continuing education of Television and Radio Weather Broadcasters and those in related fields, but all individuals interested are most welcome to register, attend and participate.**

**0830 AM** Welcoming Remarks. NWA President, David I. Knapp, U. S. Army Research Laboratory, White Sands Missile Range, NM.

**0835 AM** Opening Remarks. NWA Broadcast Meteorology Committee Chair, Mike Goldberg, WTVR-TV, Richmond, VA., and Broadcaster Workshop Program Chair, Bryan Karrick, (NWA Councilor; Seal Recertification Chair) KCCI-TV, Des Moines, IA.

**0845 AM** Welcome to Cleveland! Betsy Kling, (NWA Councilor and Public Relations Chairperson) Broadcast Meteorologist for WKYC-TV, Cleveland, OH.

**0900 AM** Using COMET Modules as Educational/Continuing Education Opportunities. Dr. Gregory P. Byrd, (NWA Councilor) UCAR/COMET, Boulder, CO.

**0915 AM** Watershed Education for Weather Broadcasters. Matthew Kelsh, UCAR/COMET, Boulder, CO.

**0930 AM** The Functionality of a New Radar Software Package: GRLevel2 Analyst Edition. Ted Keller, KOLR/KSFX-TV, Ceaseless Wind LLC, Springfield, MO.

**0945 AM** The First Operational Polarimetric Doppler Radar for Television Use. James Paul-Dice, WHNT-TV, Huntsville, AL.

**1000 AM** *Coffee Break*

**1030 AM** Cyclone Saturday: A Review of the Teamwork and Technology during the 12 November 2005 Iowa Tornadoes. John McLaughlin, (NWA Past-president) KCCI-TV, Des Moines, IA; Daryl Herzmann, Iowa State University, Ames, IA.

**1045 AM** Performance of New Tornado Detection Algorithms: The 18 August 2005 Stoughton, Wisconsin Tornado. Bill Boss, Weather Central, Inc., Madison, WI.

**1100 AM** The Use of Mesoscale Analysis [a workshop]. Daniel McCarthy, (NWA Councilor & Awards Committee Chair) NOAA/NWS Storm Prediction Center, Norman, OK.

**1200 NOON** *Lunch; Exhibits open in Ballrooms A & B*

**0130 PM** Introduction to Weather Radar Interpretation: Some Useful Insights for the TV Meteorologist. Richard Kane, NOAA/NWS Pittsburgh, PA.

**0230 PM** Walk In My Shoes: Unique Simulation Efforts at the 2006 National Severe Weather Workshop. Elizabeth Quotone, (NWA Commissioner of Committees) NOAA/NWS/WDTB Norman, OK. Daphne LaDue and Paul Schlatter, University of Oklahoma/CIMMS, Norman, OK, John McLaughlin, KCCI-TV, Des Moines, IA and Dave Freeman, KSNW-TV, Wichita, KS.

**0245 PM** A Public-Private Partnership to Saturate Two Television Markets with NOAA Weather Radio. Wayne Hart, WEHT-TV, Evansville, IN, John McLaughlin, KCCI-TV, Des Moines, IA, Rick Shanklin, NOAA/NWS Paducah, KY and Jeff Johnson, NOAA/NWS Des Moines, IA.

**0300 PM** *Refreshment Break; Exhibits Open in Ballrooms A&B*

**0330 PM** From Watching to Watching Out: Public Reaction to Severe Weather Information. Jim Razor & Samantha Davies, WSIL-TV, Carterville, IL.

**0345 PM** FLASH: Strengthening Homes and Safeguarding Families through Partnerships. Leslie Chapman-Henderson, President/CEO of Federal Alliance for Safe Homes (FLASH), Tallahassee, FL.

**0410 PM** How to Handle Your Employment Contract Negotiation. Avery Friedman, Friedman Associates, Cleveland, OH.

**0430 PM** Storm-based Warnings: Changes to NWS Warnings for the Digital Age. John Ferree, NOAA/NWS/Severe Storm Service Leader, Norman, OK and Dave Freeman, Chief Meteorologist, KSNW-TV, Wichita, KS

**0450 PM** NWA Seal Recertification Update. Bryan Karrick, NWA Seal of Approval Recertification Chair and Mike Goldberg, Broadcast Meteorology Committee Chair

**0500 PM** *Dinner on your own; Exhibits open in Ballrooms A & B until 6:00 PM.*

**0700 PM** TAPE SWAP 2006 in Ballroom C. Mike Goldberg, Broadcast Meteorology Committee chair, WTVR-TV, Richmond, VA and Larry Rice, Broadcast Seal Committee chair, KOB-TV, Albuquerque, NM. *Refreshments will be served after 0800 PM thanks to Baron Services, Inc.* [Attendees: please submit your VHS tapes to the NWA Registration and Information Desk volunteers by 0500 PM and print your name, address, and station or school on the tape container.]

**1030 PM** Annual Meeting scheduled activities close for the day.

**Monday, 16 October 2006 Annual Meeting General Sessions**

**0800 AM** Welcoming Remarks: NWA President, David I. Knapp, U. S. Army Research Laboratory, White Sands Missile Range, NM, Theresa Rossi, NWA Program Committee Chair, (NWA Past-president) NOAA/NWS Pittsburgh, PA and Michael Vescio, (NWA Vice President) NOAA/NWS Pendleton, OR.

**0815 AM** Keynote Address. Rick McCoy, Director Emergency Management Agency, Van Wert County, OH.

**0845 AM** Keynote Address. Brigadier General USAF (Ret.) David L. Johnson, NOAA Assistant Administrator for Weather Services and Director, National Weather Service, Silver Spring, MD.

**0915 AM** Keynote Address. Dean P. Gulezian, Director National Weather Service Eastern Region, Bohemia, NY.

**0945 AM** *Coffee Break; Exhibits open in Ballrooms A & B*

**SESSION: CUSTOMER SERVICE**

Session Chair: Elizabeth Quotone, (NWA Commissioner of Committees) NOAA/NWS/WDTB Norman, OK.

**1015 AM** The Nation's Weather Enterprise: Short Course on the Public/Private Partnership. John Toohey-Morales, CCM, National Council of Industrial Meteorologists (NCIM), NBC Telemundo, Miami, FL.

**1030 AM** Improving Partnerships Through Training: An Interactive Web-supported Training Exercise for Decision-makers. Jason Johnson, Jonathan Brazzell, Derek Deroche, Scott Overpeck, Seth Nagle, Julie States, Hector Guerrero (NWA Councilor) and Amy McCullough, NOAA/NWS San Angelo, TX.

**1045 AM** Instant Messaging, Then and Now. Faith Borden and Darone Jones, NOAA/NWS Birmingham, AL and Daryl Herzmann, Iowa State University, Ames, IA.

**1100 AM** Impact Weather Communications. Mark Fox and Tom Bradshaw, NOAA/NWS Southern Region, Fort Worth, TX.

**1115 AM** The WEBCEM - An Automated Dissemination Method for Issuing Non-Weather Related Hazardous Warnings via the Web. Brian C. Carcione, Timothy W. Troutman, John Mike Coyne and Jason E. Burks, NOAA/NWS Huntsville, AL.

**1130 AM** *Lunch on Your Own; Exhibits open in Ballrooms A & B*

**0100 PM** Watching Paint Weather: An Overview of How We Use Different Climates and Weather Factors to Ensure Paint Will Last. Guy Wilson, Ph.D., Sherwin-Williams Company, Cleveland, OH.

**0115 PM** A Public-Private Partnership to Saturate Two Television Markets with NOAA Weather Radio. John McLaughlin (NWA Past-president), KCCI-TV, Des Moines, IA, Wayne Hart, WEHT-TV, Evansville, IN, Rick Shanklin, NOAA/NWS Paducah, KY and Jeff Johnson, NOAA/NWS Des Moines, IA.

**0130 PM** Applied Meteorology in the Mobile Marketplace. Bob Baron and Rob Doornbos, Baron Services, Inc., Huntsville, AL.

#### **SESSION: WINTER WEATHER**

Session Chair: Peter Manousos, NOAA/NWS Camp Springs, MD.

**0145 PM** On the Co-existence of Thundersnow and Heavy Snowfall. Christina Crowe, Patrick Market, Brian Pettegrew, Chris Melick, University of Missouri-Columbia, Columbia, MO

**0200 PM** Lake Effect Thunder Snows Over the Eastern Great Lakes. Robert Hamilton, NOAA/NWS Buffalo, NY and Scott Steiger, Ph.D. SUNY Oswego, NY.

**0215 PM** Simulation of Lake Effect Snow Using the Workstation WRF Model. Daniel Leins and Robert LaPlante, NOAA/NWS Cleveland, OH.

**0230 PM** Correlations between Observed Snowfall and NAM Forecast Parameters. Michael Evans and Michael L. Jurewicz Sr., NOAA/NWS Binghamton, NY.

**0245 PM** The Great Ohio Blizzard of 1978: Storm Review and Assessment of Societal Impacts. Kirk A. Lombardy, NOAA/NWS Cleveland, OH and Dr. Thomas W. Schmidlin, Kent State University, Kent, OH.

**0300 PM** The Blizzard of 2006 in the Northeast: A Look Inside the Operations of a National Weather Service Forecast Office. Patrick Maloit and Jeffrey Tongue, NOAA/NWS Upton, NY.

**0315 PM** *Refreshment Break; Exhibits open in Ballrooms A & B*

#### **SESSION: PROBABILISTIC FORECASTING**

Session Chair: Robert S. Davis, NOAA/NWS Pittsburgh, PA.

**0345 PM** Model JUMPINESS and the Need for Ensembles. Richard H. Grumm, NOAA/NWS State College, PA and Lance F. Bosart, University at Albany/SUNY, Albany, NY.

**0400 PM** AWIPS Procedures for Displaying Ensemble Data Threshold Probabilities. Josh Korotky, NOAA/NWS Pittsburgh, PA.

**0415 PM** Expressing Uncertainty in Both Hazardous and Routine Weather Forecasts at a NWS Forecast Office. Jeffrey P. Craven, (NWA Councilor) NOAA/NWS Milwaukee, WI.

**0430 PM** The Short-Range Ensemble Forecast: Applying Uncertainty and Probabilistic Forecasts of Winter Storms. Matthew Steinbugl, NOAA/NWS Des Moines, IA and Richard H. Grumm, NOAA/NWS State College, PA.

**0445 PM** Using Ensemble Model Output Statistics to Improve 12-Hour Probability of Precipitation Forecasts. John P. Gagan, NOAA/NWS Springfield, MO and Chad Entremont, NOAA/NWS Jackson, MS.

**0500 PM** Updating Thunderstorm Probability Forecast Guidance in Support of Gridded Model Output Statistics. Kathryn Gilbert, NOAA/NWS Silver Spring, MD.

**0515 PM** *Session ends; Exhibits close; Administrative announcements*

**0600 PM BOARD BUSES for ROCK and ROLL HALL of FAME and MUSEUM.** Thanks to Oregon Scientific, Inc., ([www2.oregonscientific.com](http://www2.oregonscientific.com)) the Rock and Roll Hall of Fame and Museum has been reserved for Monday evening for NWA Annual Meeting attendees and guests to tour the museum and enjoy a reception. The Cleveland Convention and Visitors Bureau is supplying the bus transportation and sponsoring the 'look-live' video reports broadcasters can send back to their station via the Internet. A Cleveland company, Digital Newsreel, has perfected sending and receiving broadcast quality video over the Internet. Broadcasters that are interested in this opportunity should contact [betsykling@wkyc.com](mailto:betsykling@wkyc.com) to reserve a 'look-live' spot.

**0900 PM** Buses will return attendees to the Hotel after 0900 PM.

### **Tuesday, 17 October 2006 Annual Meeting General Sessions**

#### **SESSION: SEVERE WEATHER I**

Session Chair: Richard H. Grumm, NOAA/NWS State College, PA

**0800 AM** Verification of Particularly Dangerous Situation (PDS) Watches. Joseph T. Schaefer, (NWA Past-president) NOAA/NWS Storm Prediction Center (SPC) Director, Norman, OK and Andrew R. Dean, University of Oklahoma/CIMMS and NOAA/NWS/SPC, Norman, OK.

**0815 AM** The Severe Hail Verification Experiment (SHAVE 2006). Travis Smith, Kiel Ortega, and Kevin Scharfenberg, University of Oklahoma/CIMMS and NOAA/OAR National Severe Storms Laboratory, Norman, OK.

**0830 AM** Changes in F-Scale, Hail and Wind Reports. Daniel McCarthy and Joseph Schaefer, NOAA/NWS Storm Prediction Center, Norman, OK.

**0845 AM** A Proposal for a Threat Level Scale for National Weather Service Severe Thunderstorm Warnings. Kelly G. Godsey, Robert C. Goree and Andrew I. Watson, NOAA/NWS Tallahassee, FL.

**0900 AM** SVRGIS: Geographic Information System (GIS) Graphical Database of Tornado, Large Hail, and Damaging Wind Reports in the United States (1950-2005). Bryan Smith, Ball State University, Muncie, IN.

**0915 AM** Cyclone Saturday: A Review of the Teamwork and Technology During the 12 November 2005 Iowa Tornadoes. John McLaughlin, (NWA Past-president) KCCI-TV, Des Moines and Daryl Herzmann, Iowa State University, Ames, IA.

**0930 AM** Performance of the Experimental 4.5 km WRF-NMM Model During Recent Severe Weather Outbreaks. Steven J. Weiss, (NWA Past-president) NOAA/NWS Storm Prediction Center (SPC), Norman, OK, John S. Kain NOAA/OAR National Severe Storms Laboratory, Boulder, CO, David R. Bright, NOAA/NWS/SPC, Norman, OK, Matthew E. Pyle, Zavisla I. Janjic and Brad S. Ferrier, NOAA/NWS Environmental Modeling Center, Camp Springs, MD.

**0945 AM** The 11-13 March 2006 Mid-South Tornado Outbreak Why it Never Occurred. Dan Valle, NOAA/NWS Memphis TN.

**1000 AM** *Coffee Break; Exhibits open in Ballrooms A & B*

#### **SESSION: SPECIAL TRIBUTE to the late Roderick A. Scofield**

Session Chairs: Kenneth F. Carey, (NWA Remote Sensing Committee Chair) Mitretek Systems, Inc., Falls Church, VA and Michael Eilts, Warning Decision Technologies Inc., Norman, OK.

**1030 AM** Estimating Rainfall from GOES Satellite Imagery – The Early Years. Samuel K. Beckman, NOAA/NWS Kansas City, MO.

**1045 AM** A GOES-Eye View of Rod Scofield's Legacy. Robert J. Kuligowski, NOAA/NESDIS/STAR, Camp Springs, MD.

**1100 AM** Statewide Monitoring of the Mesoscale Environment: A Technical Update on the Oklahoma Mesonet. Ken Crawford (NWA Past-president) and Renee A. McPherson, Oklahoma Climatological Survey, Norman, OK.

**1115 AM** Cloud Lightning From the National Lightning Detection Network (NLDN). Ronald Holle, Nicholas Demetriades and Martin Murphy, Vaisala, Inc., Tucson, AZ.

**1130 AM POSTER SESSION I** [*Lunch on your own; Exhibits open in Ballrooms A & B*] Posters will be available all afternoon.

#### **POSTERS:**

**P1.1** Assessment of Kean University Configured Real-Time WRF. Shing Yoh and Braden Ward, Kean University, Union, NJ.

**P1.2** Sounding the "Muck Fire" Alarm—Could it Return to Northeast Ohio? Dale A. Dockus, FedEx Corp., Memphis, TN.

**P1.3** Atmospheric Blocking Patterns and Effects on Air Quality in the Great Lakes Region. Frank Dempsey, Pickering, Ontario, Canada.

**P1.4** Convective Initiation in New Jersey. Paul J. Croft (NWA Past-president), Steven L. Koenigstein, Justin Lewis, Ryan Matthews, Melissa C. Rod and Mike Szczepanski, Kean University, Union, NJ.

**P1.5** Mesoscale Features in New Jersey: Initial Investigations. Paul J. Croft, Melissa C. Rod and Ryan Matthews, Kean Univ., Union, NJ.

**P1.6** The Mississippi Mesonet: Growth and Applications. Loren White, Elizabeth Matlack and Quincy Jones, Jackson State University, Jackson, MS, and Gary Galloway, Newton County Emergency Management Agency, Decatur, MS.

**P1.7** A Comparison of Wind Speed Data from Mechanical and Ultrasonic Anemometers. David A. Short, ENSCO, Inc., Cocoa Beach, FL, Leonard Wells, 30th Weather Squadron, Vandenberg AFB, CA, Francis Merceret, Weather Office NASA/Kennedy Space Center, FL, William P. Roeder, 45th Weather Squadron, Cape Canaveral AFS, FL.

**P1.8** GOES-R Instrument CONOPS Considerations. Thomas Renkevans and Tim Walsh, NOAA/NESDIS, Greenbelt, MD.

**P1.9** Recent Improvements to the AMSU Hydrological Product Suite. Ralph Ferraro, (NWA Councilor) NOAA/NESDIS and ESSIC/CICS University of Maryland, College Park, MD.

**P1.10** Remote Sensing Applications and Technologies: The Africa Challenges. Ayadiani Kenneth Rumi, Nigerian Meteorological Agency, Lagos, Nigeria.

**P1.11** Changes in Precipitation Water Vapor Sensed by Ground Based GPS in Three Gorges Region. Rong Wan, Wuhan Institute of Heavy Rain of China Meteorological Administration, Wuhan, China, Ruilin Du, Institute of Seismology of China Earthquake Administration, Wuhan, China, Guoguang Zheng, China Meteorological Administration, Beijing, and Wei Wang, Institute of Seismology of China Earthquake Administration, Wuhan, China.

**P1.12** Building a Florida Centric Road Weather Information System. Patrick T. Welsh and J. David Lambert, University of North Florida, Jacksonville, FL.

**P1.13** The Hazard Mapping System (HMS)-A Multiplatform Remote Sensing Approach to Fire and Smoke Detection for Air Quality Applications. Jamie Kibler and John Simko, NOAA/NESDIS/OSDPD, Camp Springs, MD. Shobha Kondragunta, NOAA/NESDIS/STAR, Camp Springs, MD. Roland Draxler, NOAA/OAR/ARL, Silver Spring, MD. Po Li, QSS, Camp Springs, MD.

**P1.14** GOES Satellite Data Distribution: Past, Present, and Future. Thomas Renkevans & John Paquette, NOAA/NESDIS, Greenbelt, MD.

**P1.15** UPWARDS at Kean! Year II: Agents of Change. Paul J. Croft, Kean University, Union, NJ.

**P1.16** Turn Around Don't Drown: A Campaign Built on Partnerships. Hector Guerrero, (NWA Councilor) NOAA/NWS San Angelo, TX, Leslie Chapman-Henderson, Federal Alliance for Safe Homes, Tallahassee, FL, Roy Sedwick, Texas Flood Plain Management, Austin, TX, Larry Wenzel, NOAA/NWS, Silver Spring, MD and Kandis Boyd, NOAA/NWS Southern Region, Fort Worth, TX.

**P1.17** Timmy The Twister: Raising Daily Community Severe Weather Awareness. Dan Valle, Jim Belles and Rich Okulski, NOAA/NWS Memphis, TN

**P1.18** Tornado Safety Recommendations for Persons in Mobile Homes or Motor Vehicles. Thomas W. Schmidlin, Kent State University, OH.

**P1.19** The NOAA Center for Atmospheric Sciences: Impacts to the Meteorological Community. Loren White, Rezwanul Karim, R. S. Reddy, Duanjun Lu, Jackson State University, Jackson, MS and Vernon Morris, Howard University, Washington, D.C.

**P1.20** How Broadcast News Shapes Memories of Severe Weather: Hurricane Katrina as a Defining Event. Josh Nathan, Private Meteorological Consultant, Englewood, CO.

**P1.21** Empowering Critical Decision Makers: A National Weather Service and North Carolina Department of Transportation Partnership. Jeff Orrock and Kermit Keeter, NOAA/NWS Raleigh, NC and Lonnie Watkins, North Carolina Department of Transportation, Raleigh, NC.

**P1.22** NOAA Weather Radio Awareness Upsurge: Positive Aftermath Following the Killer Evansville Area Tornado of 6 Nov 2005. Matthew T. Friedlein, NOAA/NWS Chanhassen, MN.

**P1.23** Leveraging Community Organizations to Accomplish Public All-Hazards Awareness: The West Central Texas All Hazards Preparedness Campaign. Carl Wright, NOAA/NWS San Angelo, TX,

Nicole Gonzales, Citizens Corps., Kent Brown, Boy Scouts of America, Marissa Swank, Concho Valley Electric Coop., and Rosendo Velez, New York Critical Response Medical Services.

**P1.24** Climate Outreach Toolkit. Patricia A. Wnek, NOAA/NWS State College, PA.

**P1.25** Air Quality Index and Synoptic Weather Type in the Northern Mid-Atlantic States. Paul J. Croft and Belkys V. Melendez, Kean University, Union, NJ.

**P1.26** Using Historic Teleconnection Datasets to Identify Abnormal Weather Regimes in the Missouri Ozarks. John Gagan and Gene Hatch, NOAA/NWS Springfield, MO.

**P1.27** The Community Collaborative Rain, Hail, and Snow Network (CoCoRaHS) comes to Missouri. Patrick E. Guinan, Missouri Climate Center/University of Missouri-Columbia, Columbia, MO, Anthony R. Lupo, University of Missouri-Columbia, Columbia, MO, and Rachel N. Redburn, Missouri Climate Center, University of Missouri-Columbia, Columbia, MO.

**P1.28** Blocking in the Northern and Southern Hemisphere: An Update to Include 2000-2006. Joseph V. Clark, Kristen M. Mihalka and Anthony R. Lupo, Univ. of Missouri-Columbia, Columbia, MO.

**P1.29** Climatology of Non-Convective Windstorms in the Great Lakes Region. John A. Knox, University of Georgia, Athens, GA.

**P1.30** October Tropical Cyclone Activity Relative to New Jersey. Paul J. Croft and Steven L. Koenigstein, Kean University, Union, NJ.

**P1.31** The Frequency of Tropical Cyclones Moving into Missouri and the Synoptic Environment. Rachel N. Redburn and Patrick E. Guinan, Missouri Climate Center/University of Missouri-Columbia, Columbia, MO and Anthony R. Lupo, University of Missouri-Columbia, Columbia, MO.

**P1.32** Assessing Confidence in Ensemble Prediction System Forecasts. Richard H. Grumm and Ron Holmes, NOAA/NWS State College, PA, and Robert Hart and Andrew Durante, Florida State University, Tallahassee, FL.

**P1.33** Examining the GFS Model in a Busted Snow Event: 16 January 2003. Chad M. Gravelle, Saint Louis University, Saint Louis, MO, Fred H. Glass, NOAA/NWS Saint Louis, MO, Charles E. Graves and the late James T. Moore (NWA Past-president) Saint Louis University, Saint Louis, MO

## **SESSION: REMOTE SENSING APPLICATIONS AND TECHNOLOGIES**

Session Chairs: Kenneth F. Carey, (NWA Remote Sensing Committee Chair) Mitretek Systems, Inc., Falls Church, VA and Michael Eilts, Warning Decision Technologies Inc., Norman, OK.

**0130 PM** Current and Future GOES Program Overview. Thomas Renkevans, NOAA/NESDIS, Greenbelt, MD, Timothy J. Schmit, NOAA/NESDIS, Madison, WI and Tim Walsh, John Paquette and Brian Hughes, NOAA/NESDIS, Silver Spring, MD.

**0145 PM** Operational Implications of the GOES-R ABI and HES. Timothy J. Schmit, NOAA/NESDIS, Madison, WI, Thomas Renkevans NOAA/NESDIS, Greenbelt, MD, James J. Gurka, NOAA/NESDIS, Silver Spring, MD, Mat M. Gunshor & Jun Li, CIMSS, Madison, WI.

**0200 PM** Improved Resolution and Consistency in the Quest for Better Utilization of GOES Sounder Products. Gary S. Wade, NOAA/NESDIS, Madison, WI, Scott Bachmeier, NOAA/NWS Madison, WI, James P. Nelson III and Sarah T. Bedka, University of Wisconsin-Madison/CIMSS, Madison, WI and Timothy J. Schmit, NOAA/NESDIS, Madison, WI.

**0215 PM** RIDGE – Radar Integrated Display with Geospatial Elements. Planned Updates and Enhancements to the NWS New Radar Webpage. Keith Stellman and Paul Kirkwood, NOAA/NWS Southern Region, Fort Worth, TX, Jason Burks, NOAA/NWS Huntsville, AL, Tim Brice, NOAA/NWS El Paso, TX. and Ken Pavelle, NOAA/NWS Silver Spring, MD.

**0230 PM** Dual-polarimetric WSR-88D Radar Algorithms. Kevin A. Scharfenberg, University of Oklahoma/CIMMS and NOAA/OAR National Severe Storms Laboratory, Norman, OK.

**0245 PM** Status on the Integration of the NSSL Four-dimensional Stormcell Investigator (FSI) into AWIPS. Gregory J. Stumpf, NOAA/OAR National Severe Storms Laboratory (NSSL) and University of Oklahoma/CIMMS, Norman, OK, F. Thomas Filiaggi, NOAA/NWS Silver Spring, MD, Michael A. Magsig, NOAA/NWS/WDTB, Norman, OK, Kurt D. Hondl, NOAA/NSSL, Norman, OK and Stephan B. Smith, NOAA/NWS, Silver Spring, MD.

**0300 PM** Site-Specific Scanning Strategies for WSR-88Ds: Planning for Field Tests. Rodger A. Brown, NOAA/OAR National Severe Storms Laboratory, Norman, OK and Randy M. Steadham, NOAA/NWS Radar Operations Center, Norman OK.

**0315 PM** *Refreshment Break; Exhibits open in Ballrooms A & B and POSTER SESSION I continues*

#### **SESSION: WEATHER ANALYSIS AND FORECASTING**

Session Chair: Jeffrey P. Craven, (NWA Councilor and Co-chair of the Weather Analysis and Forecasting Committee) NOAA/NWS Milwaukee/Sullivan, WI.

**0345 PM** Model Flip-Flops and Forecast Opportunities. Bernard N. Meisner, NOAA/NWS Southern Region, Fort Worth, TX.

**0400 PM** The Enhanced Short-Term Forecast Program at WFO Charleston WV. Jeffrey Hovis, NOAA/NWS Charleston, WV.

**0415 PM** Advancements in Surface Transportation Weather Practices and Technologies. Paul Pisano, Federal Highway Administration, Washington, DC and Andrew Stern, Mitretek Systems, Inc., Falls Church, VA.

**0430 PM** A Fingerprinting Technique for Major Weather Events. Benjamin V. Root and Paul G. Knight, Penn State University, University Park, PA, Richard H. Grumm, NOAA/NWS State College, PA, Jeremy Ross, ZedX Inc., Bellefonte, PA and Steven Greybush, Penn State University, University Park, PA.

**0445 PM** High-Resolution Analysis Products to Support Severe Weather and Cloud-to-Ground Lightning Threat Assessments over Florida. Jonathan Case, ENSCO Inc., Cocoa Beach, FL and Scott Spratt and David Sharp, NOAA/NWS Melbourne, FL.

**0500 PM** An Operational Configuration of the ARPS Data Analysis System to Initialize WRF in the NWS Environmental Modeling System. Jonathan Case, ENSCO Inc., Cocoa Beach, FL, Peter Blottman, NOAA/NWS Melbourne, FL, and Brian Hoeth and Timothy Oram, (NWA IT Committee Chair) NOAA/NWS Spaceflight Meteorology Group (SMG) Johnson Space Center, TX.

**0515 PM** Easy Deployment of the WRF Model with Parallel Computing Using Non-Dedicated PCs. Braden Ward and Shing Yoh, Kean University, Union, NJ.

**0530 PM** *Session ends; Administrative announcements. Exhibits tear down.*

**0615 PM** NWA Council and Committee Chairs dinner and business meeting (Room 207)

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#### **Wednesday, 18 October 2006 Annual Meeting General Sessions**

#### **SESSION: FLASH FLOOD/HYDROLOGY**

Session Chair: Bernard N. Meisner, NOAA/NWS Southern Region, Fort Worth, TX.

**0800 AM** *Invited Presentation* – Hydrometeorological Training: What Makes a Flood a Flash Flood. Matthew Kelsh, UCAR/COMET, Boulder, CO and Wendy Abshire, UCAR/COMET, Boulder, CO.

**0830 AM** Flash Flood Hot Spot Climatology: An Essential Tool for the Flash Flood Warning Process. Michael Money Penny, NOAA/NWS Raleigh, NC and Jamie Wirth, North Carolina State University, Raleigh, NC.

**0845 AM** Observing the Flood Threat from Hurricane Ivan with the Flash Flood Monitoring and Prediction (FFMP) Program. Robert S. Davis, NOAA/NWS Pittsburgh, PA.

**0900 AM** Revisiting Upper Tropospheric Lows and Their Interaction with the North American Monsoon: What is Next in Hypothesis Formulation and Testing. Erik Pytlak, NOAA/NWS Tucson, AZ.

**0915 AM** Dual-polarimetric radar in Operational Forecasting: An Overview. Kevin A. Scharfenberg, University of Oklahoma/CIMMS and NOAA/OAR National Severe Storms Laboratory, Norman, OK.

**0930 AM** A Subtle Heavy Rainfall Signature (SHARS) Event in Southeast Arizona: Ramifications of a Major Flash Flooding in an Urbanized Desert Environment. Michael Schaffner and Erik Pytlak, NOAA/NWS Tucson, AZ

**0945 AM** *Coffee Break*

**1015 AM** An Update on Satellite Derived Tropical Rainfall Potential (TRaP) and Blended Total Precipitable Water Products. Sheldon J. Kusselson, NOAA/NESDIS, Camp Springs, MD and Dr. Stanley Kidder, CIRA/Colorado State University, Denver, CO.

**1030 AM** An Operational Forecast Office Perspective of the National Weather Service Hydrologic Distributed Modeling System (HDMS). Diane Cooper, NOAA/NWS Tulsa, OK.

**1045 AM** Probabilistic Forecasts: Baseline Products for Advanced Hydrologic Prediction Services. David Reed, NOAA/NWS Slidell LA

**1100 AM** *Invited Presentation* - Dr. Richard W. Spinrad, NOAA Assistant Administrator for Oceanic and Atmospheric Research, Office of Oceanic and Atmospheric Research, Silver Spring, MD.

**1130 AM** *NWA Annual Awards Luncheon* (Ballrooms A & B) includes a tribute to Rod Scofield and Jim Moore, NWA Past-presidents who died in 2006.

#### **SESSION: PROFESSIONAL DEVELOPMENT**

Session Chair: Dr. Gregory P. Byrd, (NWA Councilor) UCAR/COMET, Boulder, CO.

**0200 PM** Walk in My Shoes: Unique Simulation Efforts at the 2006 National Severe Weather Workshop. Elizabeth Quoetone (NWA Commissioner of Committees) NOAA/NWS/WDTB Norman, OK, Daphne LaDue and Paul Schlatter, University of Oklahoma/CIMMS, Norman, OK, John McLaughlin (NWA Past-president), KCCI-TV, Des Moines, IA and Dave Freeman, KSNW-TV, Wichita, KS.

**0215 PM** KU-OUR-METPACT Year II: Growth. Paul J. Croft (NWA Past-president), Kean University, Union, NJ.

#### **SESSION: CLIMATOLOGICAL PERSPECTIVES**

Session Chair: Dr. Gregory P. Byrd, (NWA Councilor) UCAR/COMET, Boulder, CO.

**0230 PM** Discovery of the Primary Teleconnection Mechanism (PTM)...the Trigger Mechanism that Controls Recurring Cycles of the El Niño, Hurricane Landfalls and other Weather/Climate Cycles. David Dille, Global Weather Oscillations, Ocala, FL.

**0245 PM** The Interannual and Interdecadal Variability in Hurricane Activity in the Atlantic and Eastern Pacific Oceans. Tamera K. Latham, Trenton H. Magill, Anthony R. Lupo, Joseph V. Clark and Patrick S. Market, University of Missouri-Columbia, Columbia, MO.

**0300 PM** An Informal Look at Tornado Related Statistical Trends. Alan E. Gerard, (NWA President-elect) NOAA/NWS Jackson, MS.

**0315 PM** Trying to Clear up a Foggy Forecast. Thomas L. Salem Jr., NOAA/NWS Glasgow, MT.

0330 PM *Refreshment Break* and **POSTER SESSION II**

#### **POSTERS:**

**P2.1** The COMET Planetary Boundary Layer Symposium: Options for Offering Advanced Meteorology Education at a Distance. Bruce Muller, Joseph Lamos, and Gregory Byrd, UCAR/COMET Boulder, CO, and Brian Motta, NOAA/NWS, Boulder CO.

**P2.2** Hurricane Katrina – Backup Operations by the Lower Mississippi River Forecast Center. David B. Reed, NOAA/NWS Slidell, LA.

**P2.3** The North American Monsoon System: Integrating Findings from NAME 2004 into Conceptual Forecasting Models. Erik Pytlak, NOAA/NWS Tucson, AZ.

**P2.4** Area Specific Flash Flood Warnings. Audra C. Hennecke, Penn State University, University Park, PA and Stephen Rogowski and Sarah E. Allen, NOAA/NWS Sterling, VA.

**P2.5** A Climatology of Seasonal Variability in Flight Categories for Selected Airports in Northern and Central Virginia, Northeastern Maryland and Eastern West Virginia. Katherine A. LaBelle, Penn State University, University Park, PA and Roger Smith, NOAA/NWS Sterling, VA.

**P2.6** Comparison of CAD Events at DCA/BWI/IAD Which Produce Low Ceilings and Low Visibilities and CAD Events That Produce Ceilings and Visibilities which Have a Lesser Impact on Aviation. Katherine A. LaBelle, Penn State University, University Park, PA and Roger Smith, NOAA/NWS Sterling, VA.

**P2.7** Comparison of NAM and GFS Model Turbulence Index Performance Based on Analysis of Pilot Reports. Gary P. Ellrod, NOAA/NESDIS (retired), Granby, CT.

**P2.8** Analysis of Rapidly Developing Low Cloud Ceilings in a Stable Environment. William H. Bauman III, Joe H. Barrett III, Jonathan L. Case and Mark M. Wheeler, ENSCO, Inc/Applied Meteorology Unit, Cocoa Beach, FL, and G. Wayne Baggett, NOAA/NWS Spaceflight Meteorology Group, Johnson Space Center, TX.

**P2.9** Early Detection of the April 5, 2005 Anatahan Volcano Eruption using the Guam WSR-88D. Timothy P. Hendricks, NOAA/NWS Barrigada, GU.

**P2.10** Cold-Season Coupled Upper-Level Jet Streaks in the Northeastern U.S. Part I: Weak Dynamic Cases. Scott M. Rochette, State University of New York, Brockport, NY, Chad M. Gravelle, Saint Louis University, Saint Louis, MO and Thomas A. Niziol, NOAA/NWS Buffalo, NY.

**P2.11** Cold-Season Coupled Upper-Level Jet Streaks in the Northeastern U.S. Part II: Strong Dynamic Cases. Scott M. Rochette, State University of New York, Brockport, NY, Chad M. Gravelle, Saint Louis University, Saint Louis, MO and Thomas A. Niziol, NOAA/NWS Buffalo, NY.

**P2.12** GOES Winter Precipitation Efficiency Algorithm. Robert Rabin, NOAA/OAR National Severe Storm Laboratory, Madison, WI and Jay W. Hanna, NOAA/NESDIS, Camp Springs, MD.

**P2.13** The Record Setting Snowfall in New York City, 11-12 February 2006. Nelson Vaz and Chris Jacobson, NOAA/NWS Upton, NY.

**P2.14** A Diagnostic Analysis of Mesoscale Snow Bands, Which Occurred on 26 February 2003. Michael J. Paddock, Charles E. Graves and the late James T. Moore, Saint Louis University, Saint Louis, MO.

**P2.15** A Conceptual Model Depicting Processes Important for the Generation of Meso-Beta Scale Snow Bands. Michael Paddock, Charles E. Graves and the late James T. Moore, Saint Louis University.

**P2.16** An Objective Guidance for Forecasting Lake-Effect Precipitation Based on Topographical Forcing Downwind of Lake Erie. Kerry Moyer & Rebecca Byars, Edinboro University of Pennsylvania, PA.

**P2.17** A Case Study of the Great Plains Blizzard of 27-28 November 2005. Brian Pettegrew, University of Missouri-Columbia, Columbia, MO, John Stoppotte, NOAA/NWS North Platte, NE, and Patrick Market, Chris Melick and Amy Becker, University of Missouri-Columbia, Columbia, MO.

**P2.18** An Investigation of the Radar Characteristics and the Environment of a Mesoscale Snowband that Formed on 15 March 2004. Emily Eisenacher, Charles E. Graves and the late James T. Moore, Saint Louis University, St. Louis, MO.

**P2.19** Investigating Stability Evolution of Snowstorms Featuring Lightning. Larry L. Smith, NOAA/NWS Medford, OR and Patrick S. Market, University of Missouri-Columbia, Columbia, MO.

**P2.20** Tornadoes from the Sun. W. P. Sokeland, Oakland City, IN.

**P2.21** Hurricanes from the Sun. W. P. Sokeland, Oakland City, IN.

**P2.22** A Thermodynamic Comparison of Two November Tornado Outbreaks in Alabama. Kristin Scotten, Michael Scotten and Mark W. Rose, NOAA/NWS Birmingham, AL.

**P2.23** A Cloud to Ground Lightning Climatology for the Lower Great Lakes: Implications for Sea Breeze and Lake Effect Precipitation Forecasting. Scott M. Steiger, Ph.D., SUNY, Oswego, NY, Robert Hamilton, NOAA/NWS Buffalo, NY and Jason Keeler, SUNY, Oswego, NY.

**P2.24** Inland Lake Surges Associated with Hurricanes Katrina and Rita. Lance Wood, Dave Schwertz, and Bill Read (NWA Past-president) NOAA/NWS Houston, TX and Marty Pope, NOAA/NWS Jackson, MS.

**P2.25** Graphically Depicting the Hazardous Weather in Southern Middle Tennessee and North Alabama. Brian C. Carcione, Christopher P. Darden, John Mike Coyne, Timothy W. Troutman and Jason E. Burks NOAA/NWS Huntsville, AL.

**P2.26** The Evansville Area Tornado. Christine Wielgos and Patrick J. Spoden, NOAA/NWS Paducah, KY and Ron Przybylinski, NOAA/NWS Saint Louis, MO.

**P2.27** A Thermodynamic Investigation of the Early Afternoon Wet Microburst Pre-Storm Environment over Southern Alabama and the Western Florida Panhandle. Jeffrey M. Medlin and Jack Cullen, NOAA/NWS Mobile, AL.

**P2.28** The Primary Teleconnection Mechanism (PTM)...Trigger Mechanism that Controls Recurring Cycles of the El Niño, Hurricane Landfalls and other Weather/Climatic Cycles. David Dilley, Global Weather Oscillations, Inc., Ocala, FL.

**0500 PM** *Session ends; Administrative announcements*

**0600 PM** NWA Council dinner and business meeting (Room 207)

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### **Thursday, 19 October 2006 Annual Meeting General Sessions**

#### **SESSION: WEATHER IMPACT ON AVIATION**

Session Chair: Ron W. Przybylinski, NOAA/NWS Saint Louis, MO.

**0800 AM** *Invited Presentation* – The Air Force Reserve Hurricane Hunters Missions and the 2005-2006 Tropical Cyclone Seasons. Major John Gordon, United States Air Force Reserve Hurricane Hunters, Keesler AFB, MS.

**0830 AM** Generation and Application of Gridded Aviation Forecast Parameters in GFE and AvnFPS. Chris Leonardi, NOAA/NWS Charleston, WV.

**0845 AM** The Fog Remote Sensing and Modeling (FRAM) Field Project and Preliminary Results. Ismail Gultepe, Environment Canada, Toronto, Canada.

**0900 AM** Cold Season Fog in the Northern Mid-Atlantic States: Spatial Characteristics and Behaviors by Synoptic Weather Regimes. Paul J. Croft (NWA Past-president) and Aaron N. Burton, Kean University, Union, NJ.

**0915 AM** Aircraft Icing Risk and Maximum Icing Altitude Estimates from GOES: Verification of the Experimental Product. Gary P. Ellrod, NOAA/NESDIS (retired), Granby, CT and Andrew Bailey, Raytheon ITSS, Waltham, MA.

**0930 AM** Using a Mesoscale Model to Identify Convective Initiation in an Air Route Traffic Control Center/Center Weather Service Unit (ARTCC/CWSU) Environment. Warren Snyder, NOAA/NWS Albany, NY, Mark R. McKinley, NOAA/NWS/CWSU Oberlin, OH and Allison R. Vegh, SUNY Brockport, NY.

**0945 AM** *Coffee Break*

**1015 AM** A Weather Decision Aid for Unmanned Aircraft Missions. David Knapp (NWA President), Edward Measure, David Sauter and Terry Jameson, U.S. Army Research Laboratory, White Sands Missile Range, NM.

**1030 AM** Interactive Weather Visualization Tools For the U.S. Armed Forces. R. Bruce Telfeyan and Daniel M. Rozema, U.S. Air Force Weather Agency, Offutt AFB, NE.

**1045 AM** Weather Theory for Pilots. Terry T. Lankford, FAA (retired), Murphys, CA.

#### **SESSION: SEVERE WEATHER II**

Session Chair: Josh Korotky, NOAA/NWS Pittsburgh, PA.

**1100 AM** *Invited Presentation* – A Review of Significant Weather Events in 2006. Gregory Carbin, NOAA/NWS Storm Prediction Center, Norman, OK.

**1130 AM** *Lunch on Your Own*

**0100 PM** Regional Variations in Sounding Derived Significant Severe Weather Parameters. Jeffrey P. Craven, (NWA Councilor & Co-chair WAF Committee) NOAA/NWS Milwaukee/Sullivan, WI.

**0115 PM** Sounding Analog Retrieval System (SARS). Ryan Jewell, NOAA/NWS Storm Prediction Center, Norman, OK.

**0130 PM** Using Flow Regime Lightning and Sounding Climatologies to Initialize Gridded Lightning Threat Forecasts for East-Central Florida. Winifred Lambert and David Short, ENSCO, Inc., Cocoa Beach, FL and Matthew Volkmer, David Sharp and Scott Spratt, NOAA/NWS Melbourne, FL.

**0145 PM** Exploring a New Approach to Improving Severe Weather Warning Lead Times Using GFE. Andy Roche, NOAA/NWS Charleston, WV.

**0200 PM** Effects of Cell Mergers Into the Inflow Flank of Supercells on Tornadogenesis. Mark R. Jarvis and Theodore W. Funk, NOAA/NWS Louisville, KY.

**0215 PM** Hurricane Rita Tornado Outbreak. Dan Byrd and Greg Garrett, NOAA/NWS Jackson, MS.

**0230 PM** A Radar Perspective of the Early Morning 6 November 2005 Tornadoes. Patrick J. Spoden, NOAA/NWS Paducah, KY, Ron Przybylinski, NOAA/NWS Saint Louis, MO, and Christine Wielgos and Rick Shanklin, NOAA/NWS Paducah, KY.

**0245 PM** Analysis of the Tornado Damage Track from the 06 November Evansville Indiana Tornado: Observations and Perspectives. Ron W. Przybylinski, NOAA/NWS Saint Louis, MO, and Rick Shanklin, Patrick J. Spoden, Christine Wielgos, NOAA/NWS Paducah,

**0300 PM** A Case Study of the April 2, 2006 Killer Mid-South Tornado Outbreak. Jonathan L. Howell and Jason F. Beaman, NOAA/NWS Memphis, TN.

**0315 PM** The Great Lakes Cyclone Windstorm of 12-13 November 2003: A Synoptic-Dynamic Case Study. John A. Knox, University of Georgia, Athens, GA.

**0330 PM** A Case Study of the 18 April 2006 Supercell in Livingston County, Missouri. Jose Miranda and George Limpert, University of Missouri-Columbia, Columbia, MO.

**0345 PM** An Overview of the 12-13 March 2006 Severe Weather Outbreak Over the Southwest Missouri Ozarks. John P. Gagan and Gino Izzi, NOAA/NWS Springfield, MO.

**0400 PM** A Synoptic and Meso-scale Comparison of Recent Record Setting Tornado Events in Wisconsin. Marc B. Kavinsky, NOAA/NWS Milwaukee/Sullivan, WI.

**0415 PM** Closing Remarks. David I. Knapp, NWA President, U.S. Army Research Laboratory, White Sands Missile Range, NM and Alan E. Gerard, NWA President-elect, NOAA/NWS Jackson, MS.

**0430 PM** NWA 31st Annual Meeting Adjourns.

## **NWA Newsletter (ISSN 0271-1044)**

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Members receive the monthly NWA Newsletter and *National Weather Digest* as part of their regular, student or corporate membership privileges. Newsletter subscriptions are available at \$18.00 per year plus extra shipping costs outside USA. Single copies are \$1.50.

Contact the NWA Executive Director's office (listed above) with **address changes** by phone, regular mail or e-mail.

## **IMPORTANT DATES AND EVENTS**

**5 September** – NWA Newsletter submissions due to [nwanewsletter@nwas.org](mailto:nwanewsletter@nwas.org) or NWA Office

**13 September** – Reserve Annual Meeting hotel room by 5 p.m. to receive discount rate (page 2)

**23 September** – Equinox at 0403 UTC (1203 AM. EDT)

**3-5 October** – Tenth Annual Great Divide Weather Workshop  
Billings, MT

**4-6 October** – Tenth Annual High Plains Conference  
Dodge City, KS

**6 October** – Deadline for preregistering for NWA Annual Meeting at reduced rates (page 2)

**14 October** – Fifth Annual Golf Outing, Cleveland (page 2)

**14-19 October** – NWA 31<sup>st</sup> Annual Meeting, Cleveland, OH

Please also see **MEETINGS** on pages 6-7 in the June Newsletter.

Also, check the Web site: [www.nwas.org/meetings/meetings.html](http://www.nwas.org/meetings/meetings.html)

## **NATIONAL WEATHER ASSOCIATION**

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