

## PRESIDENT'S MESSAGE

The NWA's 27th Annual Meeting is rapidly approaching! The NWA Council and program committee thank all who submitted abstracts and volunteered to help with the program and local arrangements. The response was overwhelming and as you will see in this newsletter, the agenda assembled by Mike Vescio and his program committee is outstanding. I look forward to joining you in Fort Worth, 19-24 October for a great learning experience.

### Aviation Update

Many of our members are involved in aviation, from the NWS Aviation Weather Center forecasters, to the Flight Service Station briefers, to the general aviation pilots, like myself. I attended the annual Experimental Aviation Association annual convention in Oshkosh in late July and it was interesting to see two of our NWA corporate members make major announcements there regarding getting timely NEXRAD data beamed via satellite into the cockpit of aircraft large and small. See the Web site for Baron Services ([www.baronservices.com](http://www.baronservices.com)) for information on using XM-Radio as the transmission vehicle and also WSI Corporation's new In-Flight product at ([www.wsi.com/markets/aviation/inflight.htm](http://www.wsi.com/markets/aviation/inflight.htm)). The FAA is working towards pilots and controllers being able to see the same radar information and it would appear the private sector is making great strides to help.

### Data Partnerships

In some past issues, I have mentioned the need for cooperation between NWS offices, the media and others involved in meteorology especially during times of severe weather. I'd like to share a success story here in Iowa, and if you have a great example please send it to me. During the pre-dawn hours of 10 July, a bow echo moved across western Iowa. The Des Moines WSR-88D radar went offline just as storms entered the county warning area. But, thanks to a previously established data sharing venture called the Iowa Environmental Mesonet (IEM), the local NWS office forecasters were able to see live wind and rainfall information from the KCCI SchoolNet system. One station was hit with 96 mph winds and hurricane force winds lasting four minutes. Other sites recorded 70+ mph gusts. The warning meteorologist was able to issue strongly worded severe thunderstorm warnings and additional statements by using the media

data provided to them in real-time through Iowa State University, which developed the IEM program. This event ties nicely into the theme for this year's 27th Annual Meeting - *Building Partnerships to Meet the Challenges of 21st Century Weather*. Another school sensor vendor and corporate member, AWS Convergence Technologies Inc, has recently agreed that all NWS offices across the country may access the data from the AWS "Weather Bug" and WeatherNets for Homeland Security support. Hopefully, many more partnerships will develop.

### FORE!

Membership committee member Betsy Kling has organized the first-ever, NWA Golf Outing in association with the Annual Meeting! The outing has been planned for Saturday, 19 October at 11:00 AM at the Pecan Valley course in Fort Worth. We know several broadcasters have signed up, but want to make sure EVERYONE knows they are welcome to play. Profits from the event will benefit NWA educational scholarships. Total cost is \$55 for 18 holes, a cart, and watching my slice! Contact Betsy and sign up at [bkling@firstcoastnews.com](mailto:bkling@firstcoastnews.com) or by calling 904-633-8808 (ext. 772) by 1 October 2002.

### And regarding membership...

I am unhappy to report that when the Executive Director did the annual purging of the database of former members not renewing their membership for this year, we lost 289 folks. This dips us below the 3,000 mark I have been striving for. As of 20 August, the NWA has 2,775 members in good standing. Let's recruit and try to build that number up before the Annual Meeting.

- John McLaughlin  
[johnmc49@ecity.net](mailto:johnmc49@ecity.net)

## IMPORTANT DATES AND EVENTS

21 September -- deadline for making room reservations at the Radisson Plaza Hotel at discount rates for the NWA 27th Annual Meeting 19 - 24 October 2002. See page 8.

5 October -- Preregistration deadline for the NWA Annual Meeting. Forms in last month's Newsletter and on Web site.

See MEETINGS in last month's Newsletter for other important dates or check conferences and special events on the NWA Web site: [www.nwas.org](http://www.nwas.org)

# NWA BROADCAST COMMITTEE

## Become A Weather Expert...

I started studying weather when I was seven years old. Well, "studying" may be the wrong word, but I had a strong interest, which led me to stare at the sky, watch storms as they rolled in, and go to the library to get books on weather. I still remember the Dewey Decimal System number for locating the books on weather...551. Since those days back in the late 1960s and early 1970s things have changed dramatically. Now you can just log on to the Internet World Wide Web and you can find old and new educational resources for all ages. Whether you head to the local public library and get a book, or get online and research a topic, weather education is something that is never complete and must continue for as long as you have a passion for it. I know I'll be fascinated with the latest weather forecasting techniques and cutting-edge weather technologies well after I retire from broadcasting.

With the pursuit of forecasting excellence in mind, let me suggest that there is a great way to learn new skills and applications directly from the experts and to see the newest weather technology available displayed by the companies developing it. Add in the opportunities to interact with hundreds of other meteorologists and share experiences with broadcasters from all over the country, and you have something proudly called the *NWA Annual Meeting*. This fall is our 27th! The fun begins with a golf outing to raise money for NWA Scholarships on Saturday, October 19th. For information on that, contact Meteorologist Betsy Kling at [bkling@firstcoastnews.com](mailto:bkling@firstcoastnews.com) by 1 October. After a round of golf, the NWA registration table will be open to pick up your program and the exhibit booths will be open to view/discuss the latest in products/services. Exhibits will be open again on Sunday during the Broadcaster Workshops. I have been working with Meteorologist Dan Threlkeld on Sunday's agenda, and he has some wonderful presentations and hands-on workshops set up.

For those who have not attended before, the conference swings from a broadcast focus on the weekend over to more general weather discussions the rest of the week, and there is something for every weather interest. Don't let the session names restrict your attendance. Look at each presentation title. We usually find many operational forecasters and researchers attending the broadcaster workshops because of the significant topics covered.

This year's conference in Fort Worth should be another memorable experience for all who attend, and like last year, I will be setting up the Broadcasters' Dinner for Monday night – a great opportunity for networking. If anyone has a suggestion for a good Texas-style restaurant for that Dinner, please call me at WXIX-TV 513-421-0119 or e-mail: [skyyeye@fuse.net](mailto:skyyeye@fuse.net). See You There!

- Rich Apuzzo, Broadcast Meteorology Committee Chair

# ANNUAL MEETING AGENDA

This preliminary agenda (as of 20 August 2002) 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 and private sectors and in the academic community. The agenda will be continually updated on the NWA Web site ([www.nwas.org](http://www.nwas.org)).

The 27<sup>th</sup> Annual Meeting of the National Weather Association will be held at the Radisson Plaza Hotel, 815 Main Street, Fort Worth, Texas from 19-24 October 2002.

## ***Building Partnerships to Meet the Challenges of 21st Century Weather***

### **Saturday, 19 October 2002**

12:00 PM NWA Registration and Information Desk opens in the foyer just outside of the presentation room. Exhibit area opens for vendors to setup their exhibits.

05:00 PM – 08:00 PM Attendees, guests and the public are invited to view the exhibits.

09:00 PM NWA Registration and Information Desk closes.

### **Sunday, 20 October 2002**

07:30 AM – 05:30 PM NWA Registration and Information Desk opens each day of the meeting.

**08:30 AM – 05:30 PM BROADCASTERS WORKSHOPS in the hotel presentation room.** Presentations and workshops are directed at Television and Radio Broadcasters and those in related fields, but all interested are invited to register, attend and participate.

08:30 AM **Welcoming Remarks.** NWA President, John B. McLaughlin, KCCI-TV, Des Moines, IA, and Dan Threlkeld, Broadcaster Workshop Program Chair, KFOR-TV, Oklahoma City, OK.

08:35 AM **Opening Remarks.** NWA Broadcast Meteorology Committee Chair, Richard E. Apuzzo II, WXIX-TV, Cincinnati, OH.

08:40 AM **Tropical Storm Allison's Impact on SE Texas.** Keith Monahan, Chief Meteorologist, KHQB-TV, Houston, TX.

09:00 AM **Building Partnerships.** Dave Busiek, Chairman, Radio-Television News Directors Association, and News Director, KCCI-TV, Des Moines, IA

09:20 AM **South Dakota Microbursts.** Jay Trobec, Chief Meteorologist, KELO-TV, Sioux Falls, SD.

09:40 AM **Safety During Live Shots.** Tom Unterberger, Supervisor Remote Engineering, KTVT-TV, Dallas, TX.

10:00 AM *Coffee Break: Exhibits are open*

10:20 AM **The NWS Watch By County Option: Operations in Presentations.** Dan McCarthy, Warning Coordination Meteorologist, NOAA/NWS Storm Prediction Center, Norman, OK.

10:40 AM **Fire Weather Forecasts.** Dr. Phillip Bothwell, Senior Development Meteorologist, NOAA/NWS Storm Prediction Center, Norman, OK.

11:00 AM **Bow Echoes and Microburst in Iowa.** Bryan Karrick and John McLaughlin, KCCI-TV, Des Moines, IA  
11:20 AM **Talking To Kids During Severe Weather.** Dan Threlkeld and Dr. Phillip Beasley

11:35 AM Exhibitors invited to speak (5-min) on latest initiatives and invite attendees to the exhibit booths.

12:00 Noon *Lunch on your own: Exhibits are open*

01:30 PM **Severe Weather Workshop. Case Study - You decide where the watches and warnings should be issued.**

Dan McCarthy, NOAA/NWS/SPC, Norman, OK

02:30 PM **Keeping Up With The Changes in Technology & Television.** Troy Dungan, WFAA-TV, Dallas, TX.

02:50 PM **Phased Array Radar - An Update.** Douglas E. Forsyth, Executive Director of Facilities and Strategic Planning, NOAA National Severe Storms Laboratory, Norman, OK.

03:10 PM *Refreshment Break in the Exhibit Area*

03:30 PM **The Next Thing in Television Weather Graphics.** Kenneth Reeves and Michael A. Steinberg, AccuWeather, Inc., State College, PA.

03:50 PM TBA

04:10 PM **Environmental and Science Reporting.** Mike Mogil, StormCenter Communications, Rockville, MD.  
*Advanced satellite imagery and what it can show us about our world.*

05:00 PM **Q and A Discussion Period on Current Topics.** NWA Broadcast Meteorology Committee Chair, Richard E. Apuzzo II, WXIX-TV, Cincinnati, OH.

05:30 PM *Dinner on your Own; Exhibits and NWA Registration and Information Desk Closes.*

07:00 – 10:30 PM **TAPE SWAP** (Bring VHS tape of **ONE** of your broadcasts for discussion); refreshments served.

Any Broadcaster or Student may bring a VHS tape of ONE recent weathercast, special presentation or blooper to show attendees and receive “objective” critiques from peers. To help ensure your tape is shown, please indicate on the preregistration form that you will be bringing a tape. Depending on the number of tapes expected, a TAPE SWAP for students may also be held Saturday evening.

### Monday, 21 October 2002 – General Sessions

08:00 AM **Welcoming remarks.** NWA President, John B. McLaughlin, KCCI-TV, Des Moines, IA, and Annual Meeting Program Chairman, Michael Vescio, NOAA/NWS Forecast Office, Fort Worth, TX.

08:15 AM **Keynote Address:** NOAA Priorities. (tentative) Dr. James R. Mahoney, Assistant Secretary of Commerce for Oceans and Atmosphere, NOAA Deputy Administrator and Director of the US Climate Change Science Program Office, Washington, D.C.

08:45 AM **Keynote Address:** NWS Programs and Future Plans. John J. Kelly Jr., Director NWS, Silver Spring, MD.

09:15 AM **Keynote Address:** Region Initiatives. X. William Proenza, Director NWS Southern Region, Fort Worth, TX.

09:45 AM *Coffee Break; Exhibits open.*

#### **Session I - Broadcast Meteorology**

Session Chair: Alan Sealls, Chief Meteorologist, WKRG-TV, Mobile, AL, and NWA Councilor

10:15 AM **The IEM-KCCI-NWS Partnership: Working Together to Save Lives and Increase Weather Data**

**Distribution.** John McLaughlin, NWA President, KCCI-TV, Des Moines, IA, Andy Kula, NOAA/NWS, Johnston, IA, Dennis Todey and Daryl Herzman, Iowa State University, Ames, IA.

10:30 AM **National Weather Service and Local Media Working Together to Save Lives During the Historic Michiana Tornado Outbreak of October 24, 2001.** Thomas A Reaugh, NOAA/NWS, Syracuse, IN, and Larry Mowry, WSBT-TV, South Bend, IN.

10:45 AM **The Presentation of Temperature in Television Broadcasts: What is Normal?** Anthony R. Lupo and Elizabeth McCoy, University of Missouri-Columbia; Stacy N. Allen, University of Missouri-Columbia and KOMU-TV8; Adnan Akyuz, University of Missouri-Columbia; Eric P. Kelsey, University of Missouri-Columbia and KOMU-TV8; Chris Halcomb, University of Missouri-Columbia; Eric Aldrich, University of Missouri-Columbia and KOMU-TV8; David G. Beiger and Eric Wise, University of Missouri-Columbia; Dave Schmidt and Mark Edwards, KOMU-TV8, Columbia, MO.

11:00 AM **An Internet Site for the Professional Meteorologist.** Kenneth Reeves and Michael A. Steinberg, AccuWeather, Inc., State College, PA.

11:15 AM **The “Allison” Media Experience.** Celia Sinclair, KRIV FOX 26, Houston, TX.

11:30 AM **An Overview of the Floods and Tornadoes in Austin, Texas on November 15, 2001.** Pamela McCown, KVUE-TV, Austin, TX.

11:45 AM **Shocking! How Can We Teach Our Viewers the Importance of Lightning Safety?** Brad Sussman, WEWS-TV, Cleveland, OH.

12:00 *Lunch on your own; Exhibits open*

#### **Session II - Tornadoes**

Session Chair - Josh Korotky, NOAA/NWS Forecast Office, Coraopolis, PA

01:30 PM **The influence of Forward Velocity and Structural Density on Tornado Mortality.** Don M. Greene, Baylor University, Waco, TX.

01:45 PM **Warning Decision Making Issues During the 24 November 2001 Tornado Outbreak.** Tom Bradshaw, NOAA/NWS, Huntsville, AL; Patricia Hart, Mark Linhares, Kevin Pence, and James Westland, NOAA/NWS, Birmingham, AL.

02:00 PM **Brief Overview of Two Tornadic Quasi-Linear Convective System (QLCS) Events over the Mid-Mississippi Valley Region During the Spring 2002 Severe Storm Season.** Ron W. Przybylinski and Gary K. Schmocker, NOAA/NWS, Saint Charles, MO.

02:15 PM **On Assessing “Elevated Supercell” Environments with Regard to Tornado Potential.** Jonathon M. Davies, Wichita, KS.

02:30 PM **“Jarrell” Reprise: A Fresh Look at the Unusual Central Texas Tornado Outbreak of May 27, 1997.** Lon Curtis, KWTX-TV, Waco, TX, and Al Moller, NOAA/NWS, Fort Worth, TX.

02:45 PM **Characteristics of Recent Northern New England Tornadoes.** John W. Cannon, NOAA/NWS, Gray, ME.

03:00 PM **Synoptic and Mesoscale Patterns Associated with Violent Tornadoes Across Separate Geographic Regions of the United States.** Chris Broyles, NOAA/NWS, Amarillo, TX; Neal Dipasquale, NOAA/NWS, Sterling, VA, and Richard Wynne, NOAA/NWS, Amarillo, TX.

03:15 PM *Refreshment Break in exhibit area*

**Session III - Radar Meteorology**

Session Chair - Leslie R. Lemon, Basic Commerce and Industries, Inc., Independence, MO, NWA Councilor and NWA Past President.

03:45 PM **Algorithm Comparisons Between Existing and Proposed New Scanning Strategies Using Operational and Testbed WSR-88D Radars.** Rodger A. Brown, NOAA/National Severe Storms Laboratory, Norman OK, Randy M. Steadham, NOAA/NWS/Radar Operations Center, Norman, OK, and Vincent T. Wood, NOAA/National Severe Storms Laboratory, Norman, OK.

04:00 PM **Proof-of-Concept Test of WDSS-II at the Jackson Mississippi National Weather Service Forecast Office.** Gregory J. Stumpf, NOAA/National Severe Storms Laboratory/Cooperative Institute for Mesoscale Meteorological Studies, Norman, OK, and Alan E. Gerard, NOAA/NWS, Jackson, MS.

04:15 PM **An Update on NSSL's Multi-Sensor Severe Weather Applications.** Travis M. Smith and Gregory J. Stumpf, NOAA/National Severe Storms Laboratory/Cooperative Institute for Mesoscale Meteorological Studies, Norman, OK.

04:30 PM **Air Traffic Controllers Begin Operational Use of NEXRAD Data on Air Traffic Control Displays.** Thomas Amis, NOAA/NWS/Center Weather Service Unit, Fort Worth, TX, Jay Johnson, FAA, AUA-460, Washington, DC, Jim Stobie, SAIC, Washington, DC, Steve Walden, Computer Associates, Washington, DC, and Ray Graff, TRW Inc., Washington, DC.

05:15 – 07:15 PM *Ice Breaker and Poster Session I*

1. **QPF and Workstation Eta verification at the Lower Mississippi River Forecast Center.** Jeffrey Grascel, NOAA/NWS/Lower Mississippi River Forecast Center, Slidell, LA.

2. **Mid-level Dry Intrusions as a factor in Tornado Outbreaks Associated with Landfalling Tropical Cyclones from the Atlantic and Gulf of Mexico.** Lon Curtis, KWTX-TV, Waco, TX.

3. **Using GIS to Evaluate Lightning Climatology and Associated Synoptic Regimes for New Mexico.** Kerry Jones and Deirdre Kann, NOAA/NWS, Albuquerque, NM.

4. **Warm Season Closed Lows in the Northeastern United States.** Thomas A. Wasula and Kenneth D. LaPenta, NOAA/NWS, Albany, NY.

5. **Anticipating and Monitoring Supercell Motion for Severe Weather Operations.** Jon W. Zeitler, NOAA/NWS, New Braunfels, TX, and Matthew J. Bunkers, NOAA/NWS, Rapid City, SD.

6. **Cooperative Support and Backup Among the Nations Operational Meteorological, Oceanographic, and Satellite Processing Centers- A partnership for the 21st Century.** Robert J. Dumont, Office of the Federal Coordinator for Meteorological Services and Supporting Research, Silver Spring, MD, Carl D. Thormeyer, Fleet Numerical Meteorology and Oceanography Center, Monterey, CA, Michael R. Howland, Air Force Weather Agency, Omaha, NE, Bradley A. Ballish, NOAA/NWS/National Centers for Environmental Prediction, George Mason, Naval Oceanographic Office, Stennis Space Center, MS, Selena Nauman, NOAA/NESDIS, Suitland, MD,

and Barbara Tobe, NOAA/NWS/Telecommunications Operations Center, Silver Spring, MD.

7. **A National Temperature Record at Loma, Montana.** Scott Stephens, Michael Helfert, and Grant Goodge, NOAA/NCDC, Asheville, NC, Andrew Horvitz, NOAA/NWS/Office of Climate Water and Weather Services, Silver Spring, MD, Kelly Redmond, Western Regional Climate Center, Reno, NV, and Steve Running, University of Montana, Missoula, MT.

8. **Radar Characteristics of Violent Tornadoic Storms Using the NSSL Algorithms Across Separate Geographic Regions of the United States.** Chris Broyles and Richard Wynne, NOAA/NWS, Amarillo, TX, Neal Dipasquale, NOAA/NWS, Sterling, VA, Hector Guerrero, and Tim Hendricks, NOAA/NWS, San Angelo, TX.

9. **MyWxmap: A New Approach to Web-Based Meteorological and Oceanographic (METOC) Chart Display.** Carl D. Thormeyer and Earl V. Ravid, US Navy Fleet Numerical Meteorology and Oceanography Center, Monterey, CA.

10. **A Case Study of the Fort Worth and Arlington Tornadoic Supercells of 28 March 2000.** Jason K. Jordan, Texas Tech University, Lubbock, TX, and Al Moller, NOAA/NWS, Fort Worth, TX.

11. **Subtle Differences in Low-level Shear and Local Storm Environment Resulting in Significantly Different Convective Outbreaks - Contrasts Between 3 Separate Severe Weather Events.** Neil A. Stuart, NOAA/NWS, Wakefield, VA.

12. **A Case Study of a Positive Strike Dominated Supercell Thunderstorm That Produced an F2 Tornado After Undergoing a Significant Cloud to Ground Lightning Polarity Shift.** David G. Biggar, NOAA/NWS, Jackson, MS.

13. **A Partnership between the Greater New Orleans Expressway Commission and the Weather Forecast Office (WFO) in Slidell, LA.** Alan Johnson, Paul Trotter, and Fred Zeigler, NOAA/NWS, Slidell, LA.

14. **Verification of WaveWatch III Model Data Along the Upper Texas Coast.** Brian Kyle, NOAA/NWS, Dickinson, TX.

15. **Great Lakes Storm November 9-11, 1998: Edmund Fitzgerald Remembered.** Kirk A. Lombardy, NOAA/NWS, Cleveland, OH.

16. **GIS and Applied Meteorology Curricula.** Richard K. Snow and Mary M. Snow, Embry-Riddle Aeronautical University, Daytona Beach, FL.

17. **Improving Tornado Verification Through a Team Concept Approach for Storm Surveys.** Mark W. Rose and Mark Linhares, NOAA/NWS, Birmingham, AL.

18. **Weather Event Simulator Tips and Techniques.** Bernard N. Meisner, NOAA/NWS/Southern Region Hqs, Fort Worth, TX, and Nezzette Rydell, NOAA/NWS, New Braunfels, TX.

19. **Weekday Ozone Forecasting by the JSU Meteorology Program for the MS DEQ.** Paul J. Croft, Joe Shoemake, Monesa Watts, Jackson State University, Jackson, MS, Connie Simmons, Jerry Beasley, Mississippi Dept. of Environmental Quality, Jackson, MS,

20. **Analysis of a 30-Year Haines Index Climatology for the United States.** Paul J. Croft, Jackson State University, Jackson, MS, Brian E. Potter, USDA Forest Service, East Lansing, MI, Monesa Watts and Sundeep Bomdika, Jackson State University, Jackson, MS.

21. **The NWS Watch by County Concept.** Joseph T. Schaefer and Daniel McCarthy, NOAA/NWS/Storm Prediction Center, Norman, OK, and Richard Okulski, NOAA/NWS/Office of Climate, Water, and Weather Services, Silver Spring, MD.
22. **A High Resolution Local Point Forecast Model.** Kenneth Reeves and Michael A. Steinberg, AccuWeather, Inc., State College, PA.

**Tuesday, 22 October 2002** - General Sessions

08:00 AM *Map Briefing*

08:15 AM **Keynote Address: Weather Support to the 2002 Olympic Winter Games: A Partnership of the Public, Private and Academic Sectors.** Tom Potter, 2002 Olympic Games Weather Coordinator and University of Utah, Salt Lake City, UT.

**Session IV - Aviation Meteorology**

Session Chairs - Terry T. Lankford, FAA FSS Controller (Retired) and NWA Aviation Weather Committee Co-Chair, and Carolyn M. Kloth, NOAA/NWS/Aviation Weather Center, Kansas City, MO, and NWA Aviation Weather Committee Co-Chair and NWA Vice President.

08:45 AM **Invited Presentation: NWS Aviation Weather Provider and FAA Flight Service Station (FSS) User Partnership.** Terry T. Lankford, FAA FSS Controller (Retired) and NWA Aviation Weather Committee Co-Chair.

09:00 AM **Prototype Aviation Collaborative Effort (PACE) at the Fort Worth Air Route Traffic Control Center (ARTCC).** Thomas Amis, NOAA/NWS/Center Weather Service Unit, Fort Worth, TX.

09:15 AM **The Collaborative Convective Forecast Product: An Overview.** Carolyn M. Kloth, NOAA/NWS/Aviation Weather Center, Kansas City, MO.

09:30 AM **Upgrade of the U.S. NLDN and Transoceanic Lightning Detection.** Martin Murphy, Richard Pyle, John Cramer, Kenneth Cummins, and Albert Pifer, Vaisala-GAI, Inc., Tucson, AZ

09:45 AM **Plans for the Implementation of Improved Satellite-Derived Products as Part of the NWS Aviation Initiative.** Gary P. Ellrod, NOAA/NESDIS/Office of Research and Applications, Camp Springs, MD, and Kevin L. Johnston, NOAA/NWS/Office of Science and Technology, Silver Spring, MD.

10:00 AM *Coffee Break and Poster Session II in Exhibit area*

1. **Recent Improvements to the GOES Wind Index.** Kenneth L. Pryor and Gary P. Ellrod, NOAA/NESDIS, Camp Springs, MD, and Andrew A. Bailey, Raytheon ITSS.

2. **Microburst Recognition for Aviators.** Mary M. Snow and Richard K. Snow, Embry-Riddle Aeronautical University, Daytona Beach, FL.

3. **Storm Prediction Center's Fire Weather Verification.** Rich Naden And Phillip Bothwell, NOAA/NWS/Storm Prediction Center, Norman, OK.

4. **An Empirical, Multi-parameter Approach for Real Time Forecasting of Hail Size Used at WFO Little Rock.** John Lewis, NOAA/NWS, Little Rock, AR.

5. **Planetary and Synoptic Scale Interactions in Southeast Pacific Blocking Using Potential Vorticity Diagnosis.** Anthony R. Lupo, John P. Burkhardt, and Erin K. Gilliland, University of Missouri, Columbia, MO.

6. **Project Phoenix- Preparing the Operational Forecaster for an Intensive Machine-Person Mix.** Patrick J. McCarthy and William Purcell, Meteorological Service of Canada, Prairie Storm Prediction Center, Winnipeg, Manitoba.

7. **A Classification of Severe Weather Events From 1950-2001 for the NWS WFO New Orleans-Baton Rouge County Warning Area.** Suzanne Van Cooten, NOAA/National Data Buoy Center (NDBC), Stennis Space Center, MS.

8. **Analysis of Peak Winds in the Kennedy Space Center/Cape Canaveral Air Force Station and Tower Network.** Winifred C. Lambert and David Short, NASA Kennedy Space Center, Applied Meteorology Unit/ENSCO, Inc., Cocoa Beach, FL.

9. **Forecast Rules for Predicting the Nocturnal Land Breeze over East-Central Florida.** Jonathon L. Case, Mark M. Wheeler, David A. Short, and John Manobianco, NASA Kennedy Space Center, Applied Meteorology Unit/ENSCO Inc., Cocoa Beach, FL.

10. **Tornadoes Associated with Tropical Storm Gabrielle.** Scott Kelly, David W. Sharp, Scott M. Spratt, Peter F. Blottman, NOAA/NWS, Melbourne, FL.

11. **Signatures of Mesocyclones in the Vorticity Fields of MM5 Short-term Simulations of Earl 1998 in Florida.** Grandikota V. Rao and Daniel Gallagher, Saint Louis University, St. Louis, Mo.

12. **Heat Danger Awareness Campaign.** Gail Hartfield, NOAA/NWS, Raleigh, NC.

13. **Tornadoes in Environments with Relatively Weak Shear.** Jonathan M. Davies, Wichita, KS.

14. **Lightning Forecasting In East Central Florida.** Clark S. Pinder, William P. Roeder, and Dewey E. Harms, 45th Weather Squadron USAF, Patrick AFB, FL.

15. **Environmental Risk Assessment Integrative Systems Approach (ERAISA) Using GIS/RS.** Paul J. Croft, Julius Beham, Abdul Mohamed, Remata S. Reddy, Paulinas Chigbu, Robert Hughes, John Young, Kent Hilbert, and Paul Tchounwou, Jackson State University, Jackson, MS.

16. **Synoptic Weather Regimes and the Aerosol Index.** Paul J. Croft and Ronald Guyton, Jackson State University, Jackson, MS.

17. **Warning Decision Making Challenges During the Tornado Outbreak of 24 November 2001.** Alan Gerard and Chad Entremont, NOAA/NWS, Jackson, MS, and Ashton Robinson-Cook, Jackson State University, Jackson, MS.

18. **Winter Season Success of a Private Sector Mesoscale Model.** Mike Thomas, Weather Central, Inc., Madison, WI.

19. **Unusual Tornadoes Associated With Hurricane Michelle.** Russell Pfost, NOAA/NWS, Miami, FL.

20. **Multiscale Storm Identification and Forecast.** Valliappa Lakshmanan, University of Oklahoma/NOAA/National Severe Storms Laboratory, Norman, OK.

21. **The IEM-KCCI-NWS Partnership: Working Together to Save Lives and Increase Weather Data Distribution.** John McLaughlin, NWA President, KCCI-TV, Des Moines, IA, Andy Kula, NOAA/NWS, Johnston, IA, Dennis Todey and Daryl Herzman, Iowa State University, Ames, IA.

22. **The 2002 Texas Hill Country Floods.** Jon W. Zeitler and Nezette Rydell, NOAA/NWS, New Braunfels, TX.

23. **A Comprehensive Source of Numerical Model Data.** Kenneth Reeves and Michael A. Steinberg, AccuWeather, Inc., State College, PA.

24. **A Comprehensive Source of NEXRAD Doppler Radar Data.** Kenneth Reeves and Michael A. Steinberg, AccuWeather, Inc., State College, PA.

25. **A Study of Air-Sea Interaction and Applications of Atmospheric Thermodynamics of Hurricane Georges.** Shundra Stewart, James Sims, and Dr. R.S. Reddy, Jackson State University Jackson, MS.

12:00 *Lunch on your own; Exhibit area open*

#### **Session V - Lightning Symposium I**

Session Chair - William P. Roeder, 45th Weather Squadron USAF, Patrick AFB, FL

01:30 PM **Overview of Lightning.** Martin Murphy and Ron Holle, Vaisala-GAI, Inc., Tucson, AZ.

01:45 PM **USA Lightning Climatology.** Richard Orville, Texas A&M University, College Station, TX .

02:00 PM **The Natural Phenomenon of Ball Lightning: An Enigma to Modern Science.** G.K. Hubler, Naval Research Laboratory, Washington, DC, and J. Copridge, Clark-Atlanta University, Atlanta, GA.

02:15 PM **Three-Dimensional Lightning Mapping Observations of Thunderstorms.** William Rison, Paul Krehbiel, and Ron Thomas, New Mexico Institute of Mining and Technology, Socorro, NM.

02:30 PM **Lightning Mapping From Space: New Insights Into the Intensity and Distribution of Storms on Earth.** S.J. Goodman, H.J. Christian, D.J. Boccippio, W.J. Koshak, and D.J. Cecil, The Global Hydrology and Climate Center and NASA Marshall Space Flight Center, Huntsville, AL.

02:45 PM **Use of Total Lightning Information at a National Weather Service Field Office.** David W. Sharp, Scott M. Spratt, and Matthew Bragaw, NOAA/NWS, Melbourne, FL.

03:15 PM *Refreshment Break in the Exhibit area*

03:45 PM **Workshop I - Landfalling Tropical Systems and the Inland Flood Threat.** Christine McGehee, NOAA/NWS Southeast River Forecast Center, Peachtree City, GA.

**Workshop II - Weather Event Simulator Case Study.** Scott Reynolds, NOAA/NWS Upton, NY and Neil Stuart, NOAA/NWS Wakefield, VA.

05:00 PM *Dinner on your own*

06:00 PM NWA Council and Committee Chairs Meeting

#### **Wednesday, 23 October 2002 - General Sessions**

08:00 AM *Map Briefing*

#### **Session VI - Lightning Symposium II**

Session Chair - William Rison, New Mexico Institute of Mining and Technology, Socorro, NM

08:15 AM **Medical Aspects of Lightning Injury.** Mary Ann Cooper, University of Illinois at Chicago, Chicago, IL

08:30 AM **Lightning SafetyB Mandate for Public Education.** William P. Roeder, 45th Weather Squadron USAF, Patrick AFB, FL, John T. Madura, NASA Weather Office, Kennedy Space Center, FL, and Matthew W. Bragaw, NOAA/NWS, Melbourne, FL.

08:45 AM **Safety Implications of New Unambiguous Cloud-to-Ground Lightning Strike Distances.** Todd McNamara, 45th Weather Squadron USAF, Patrick AFB, FL.

09:00 AM **Lightning Protection Myths.** Richard Kithil, Jr., National Lightning Safety Institute, Louisville, CO.

09:15 AM **Lightning Protection Standards.** Richard Kithil, Jr., National Lightning Safety Institute, Louisville, CO.

09:30 AM **Lightning Protection for Facilities with High Value Assets.** Richard Kithil, Jr., National Lightning Safety Institute, Louisville, CO.

09:45 AM **Blunt-tipped Rods as Preferential Receptors of Lightning Strikes.** William Rison, Graydon Aulich, and Charles B. Moore, New Mexico Institute of Mining and Technology, Socorro, NM.

10:00 AM *Coffee Break in the Exhibit area*

#### **Session VII - Training and Education I**

Session Chair - Gail Hartfield, NOAA/NWS, Raleigh, NC; NWA Training Committee Chair and NWA Councilor

10:30 AM **A Pilot Study Investigating Alternatives to Hurricane Warning Effectiveness.** Stephen L. Brueske, NOAA/NWS, Charleston, SC, Charles Cockcroft and Dr. B. Lee Lindner, University of Charleston, Charleston, SC.

10:45 AM **A New Flash Flood Action Program.** Jon W. Zeitler, NOAA/NWS, New Braunfels, TX.

11:00 AM **The COMET Program: Developing Training Partnerships for the 21st Century.** Gregory Byrd, Timothy Spangler, Joseph Lamos, Douglas Wesley, UCAR/COMET, Boulder, CO.

11:15 AM **A Training Partnership for Northern Latitude Operational Meteorologists.** Peter Lewis and Gary Toth, Meteorological Services of Canada, Halifax, Nova Scotia, and Patrick Parrish, UCAR/COMET, Boulder, CO.

11:30 AM **Aviation Weather Center Training Program.** Richard P. McNulty, NOAA/National Weather Service Training Center, Kansas City, MO.

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

*Guest Speaker: Joe D'Aleo, Chief Meteorologist, WSI Corp.*

*Topic: Global Greenhouse Warming - How Much Of It Is "Hot Air"?*

#### **Session VIII - Severe Convection**

Session Chair - Ron Przybylinski, NOAA/NWS, St. Charles, MO, and NWA Councilor

02:00 PM **Visually Enhanced Composite Charts for Severe Weather Forecasting and Real-time Diagnosis.** Josh Korotky, NOAA/NWS, Coraopolis, PA.

02:15 PM **JSU Meteorology Program PDAS RAP and the Microburst Study Project.** Paul J. Croft, Jackson State University, Jackson MS, Alan E. Gerard, NOAA/NWS, Jackson, MS, Kevin Pence, NOAA/NWS, Birmingham, AL, Jeffrey Medlin, NOAA/NWS, Mobile, AL, Russell Schneider, NOAA/NWS, Storm Prediction Center, Norman, OK, Monesa Watts, Kim Coleman, Ashton Robinson-Cook, and Rondah Smart, Jackson State University, Jackson, MS.

02:30 PM **Probabilistic Convection Initiation Forecasts in Support of IHOP During the 2002 SPC/NSSL Spring Program.** Steven J. Weiss, Paul R. Janish, Russell S. Schneider, Jeffrey P. Cupo, NOAA/NWS/Storm Prediction Center, Norman, OK.

02:45 PM **The Map Analog Retrieval System (MARS).** Greg W. Carbin, NOAA/NWS/Storm Prediction Center, Norman, OK. Michael P. Kay, NOAA/Forecast Systems Laboratory,

Boulder, CO, and John A. Hart, NOAA/NWS/Storm Prediction Center, Norman, OK.

03:00 PM **NWS Watch by County Products.** Joseph T. Schaefer, NOAA/NWS Storm Prediction Center Director and NWA Past President; Daniel McCarthy, NOAA/NWS/Storm Prediction Center, Norman, OK, and Richard Okulski, NOAA/NWS/Office of Climate, Water, and Weather Services, Silver Spring, MD.

03:15 PM *Refreshment Break*

03:45 PM **Workshops I and II repeated**

05:00 PM *Dinner on your own*

06:00 PM NWA Council business meeting

#### **Thursday, 24 October 2002** - General Sessions

08:00 AM Map Briefing

#### **Session IX - Hydrology/QPF**

Session Chair - Gregory J. Story, NOAA/NWS/West Gulf River Forecast Center, Fort Worth, TX

08:15 AM **Satellite Quantitative Precipitation Estimates (QPE) and Nowcasts.** Roderick A. Scofield, NOAA/NESDIS/Office of Research and Applications, Camp Springs, MD, and NWA Past President; Clay Davenport, I.M. Systems Group, Inc., Kensington, MD, and Bob Kuligowski, NOAA/NESDIS/Office of Research and Applications, Camp Springs, MD.

08:30 AM **A System for Quantitative Precipitation Estimation and Segregation Using Multiple Sensors.** Steve Vasiloff and J.J. Gourley, NOAA/National Severe Storms Laboratory, Norman, OK.

08:45 AM **Improvements and Validations of the Experimental Tropical Rainfall Potential (TRaP) Technique.** Sheldon J. Kusselson, NOAA/NESDIS/Satellite Services Division, Camp Springs, MD, Ralph R. Ferraro, NOAA/NESDIS/Office of Research and Applications, Camp Springs, MD, Dr. Stanley Kidder, Cooperative Institute for Research in the Atmosphere, Fort Collins, CO, Donna McNamara, NOAA/NESDIS/Satellite Services Division, Camp Springs, MD, and Jianbin Yang, RS Information Systems, Inc., Camp Springs, MD.

09:00 AM **A Case Study of Mesoscale Convective Systems' Propagation Characteristics: 8-9 July 2000.** James T. Moore and Charles E. Graves, St. Louis University, St. Louis, MO, John P. Gagan, Aquila, Inc., Kansas City, MO, and Stephen F. Corfidi and Jonathan P. Racy, NOAA/NWS/Storm Prediction Center, Norman, OK.

09:15 AM **Advanced Hydrologic Prediction Services Implementation at the Lower Mississippi River Forecast Center.** Dave Reed, NOAA/NWS/Lower Mississippi River Forecast Center, Slidell, LA.

09:30 AM **GIS Data/Applications at the Lower Mississippi River Forecast Center.** Keith Stellman, NOAA/NWS/Lower Mississippi River Forecast Center, Slidell, LA.

09:45 AM **The Use of AWS WeatherNET Rainfall Data at the West Gulf River Forecast Center.** Gregory J. Story, NOAA/NWS/West Gulf River Forecast Center, Fort Worth, TX.

10:00 AM *Coffee Break*

#### **Session X - Profilers**

Session Chair - Dan L. Smith, NOAA/NWS/Southern Region Headquarters, Fort Worth, TX

10:30 AM **History of NOAA's Wind Profiler Program From the WPDN to the NPN.** Margot H. Ackley and Michael K. Shanahan, NOAA/Forecast Systems Laboratory, Boulder, CO, and Dan. L. Smith, NOAA/NWS/Southern Region Headquarters, Fort Worth, TX.

10:45 AM **Cooperative Agency Profilers: Targets of Opportunity.** Alan E. Philak, Leon A. Benjamin, Bobby R. Kelley, NOAA/Forecast Systems Laboratory, Boulder, CO, Daniel E. Wolfe, James R. Jordan, and F. Martin Ralph, NOAA/Environmental Technology Laboratory, Boulder, CO, Brad Coleman, NOAA/NWS Seattle, WA, and Neil A. Stuart, NOAA/NWS Wakefield, VA.

11:00 AM **New Developments in Signal Processing, Bird Detection and Clutter Suppression.** David, J. Glaze, and Michal K. Shanahan, NOAA/Forecast Systems Laboratory, Boulder, CO, James R. Jordan and Bob L. Weber, NOAA/Environmental Technology Laboratory, Boulder, CO, and Dale Sirmans, NOAA/NWS/Radar Operations Center, Norman, OK.

11:15 AM **Operational Applications of Profiler Data for Warnings and Forecasts.** Steven J. Weiss, NOAA/NWS/Storm Prediction Center, Norman, OK, Steven Kays, NOAA/NWS, Topeka, KS, Rick Ewald, NOAA/NWS, Hastings, NE, Dan L. Smith, NOAA/NWS/Southern Region Headquarters, Fort Worth, TX, and Douglass W. van de Kamp, NOAA/Forecast Systems Laboratory, Boulder, CO.

11:30 AM **Advances in Ground-based GPS Meteorology: A Status Report on a Promising New Upper-air Observing System.** Seth I. Gutman, NOAA/Forecast Systems Laboratory, Boulder, CO.

11:45 AM **What the Future Brings - Frequency Conversion and National Network Plans.** Margot H. Ackley and Alan E. Pihlak, NOAA/Forecast Systems Laboratory, Boulder, CO, and Dan L. Smith, NOAA/NWS, Southern Region Headquarters, Fort Worth, TX.

12:00 *Lunch on your own*

#### **Session XI - Winter Weather**

Session Chair - James T. Moore, St. Louis University, St. Louis, MO; NWA Councilor and Past President.

01:30 PM **Three-Dimensional Visualization of Processes Associated with a Heavy Snowfall Event.** Sam Ng, Charles E. Graves, and James, T. Moore, St. Louis University, St. Louis, MO.

01:45 PM **A Climatology and Case Studies of Snow to Liquid Ratios for the Midwestern United States.** Martin Baxter and Charles E. Graves, St. Louis University, St. Louis, MO, and Norman 'Wes' Junker, NOAA/NWS/Hydrometeorological Prediction Center, Camp Springs, MD.

02:00 PM **Composite Analyses of Midwestern Convective Snow Events.** Patrick S. Market and Angela M. Oravetz, University of Missouri, Columbia, MO.

#### **Session XII - Training and Education II**

Session Chair - Ruth Aiken, NOAA/NWS, Raleigh, NC, and NWA Secretary

02:15 PM **A Challenge for 21st Century Aviation Weather.** Thomas Fraim, NOAA/OFCM, Silver Spring, MD.

02:30 PM **A Collaborative Effort to Use Numerical Mesoscale Model Verification and Ensemble Techniques to Improve Operational Weather Forecasting.** Jeffrey Tongue, NOAA/NWS, Upton, NY, Brian A. Colle, SUNY at Stony Brook, Stony Brook, NY, Alan Cope, NOAA/NWS, Mount Holly, NJ, Robert Shedd, David Vallee, and Joshua Watson, NOAA/NWS, Taunton, MA.

02:45 PM **Learning Management System for the National Weather Service.** John T. Ferree, NOAA/NWS/Warning Decision Training Branch, Norman, OK.

03:00 PM **A Partnership for a Revolution in Naval Weather Training.** Carl B. Miles, Jr., Naval Technical Training Unit, Keesler AFB, MS, Wendy Schreiber-Abshire, UCAR/COMET, Boulder, CO, Don T. Conlee, Naval Technical Training Unit, Keesler AFB, MS, Keith G. Blackwell, University of South Alabama, Mobile, AL, Thomas F. Lee, Naval Research Laboratory, Monterey, CA, and Anne G. Carroll, Naval Technical Training Unit, Keesler AFB, MS.

03:15 PM **Bridging the Gap Between Research and Operations and Research in the National Weather Service: The Huntsville Model.** C. Darden, NOAA/NWS, Huntsville, AL, B. Carroll, The University of Alabama- Huntsville, Huntsville, AL, W. Lapenta, G. Jedlovec, and S. Goodman, NASA Marshall Space Flight Center, Huntsville, AL, T. Bradshaw, and J. Gordon, NOAA/NWS, Huntsville, AL.

03:30 PM **CLOSING REMARKS.** NWA President, John B. McLaughlin, KCCI-TV, Des Moines, IA and NWA President-Elect, Bill Read, NOAA/NWS Houston, TX.

03:45 PM **27th Annual Meeting Adjourns**

**HOTEL INFORMATION:** The Annual Meeting will be held at the Radisson Plaza Hotel, 815 Main Street, in downtown Fort Worth, Texas. The NWA discount rates are \$94 for a single room and \$114 for a double room. Please call Radisson Central Reservations at 1-800-333-3333 or the Reservations Dept., Radisson Plaza Fort Worth at 817-870-2100 **by 21 September** and request the National Weather Association 27th Annual Meeting group rate. Hotel check-in time is 3:00 pm and check-out time is 12:00 noon.

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Members receive the monthly NWA Newsletter and quarterly *National Weather Digest* as part of their regular, student or corporate membership privileges. Contact the NWA office or view the Web site for membership information. 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.

**Reminder for Members in the mid-Atlantic States region – The Mid-Atlantic States Winter Storms Regional Conference will be held in the NOAA Auditorium and Science Center, Silver Spring, Maryland from 3-5 October 2002. Registration details are at Web site <http://www.dc-ams.org> Preregister by 1 September for reduced rates.**

**COOP Modernization Partners' Forum *Building a National Observing Capability for the Future*** sponsored by NOAA agencies and the Office of the Federal Coordinator for Meteorology will be held on 18 September 2002 at the Doubletree Hotel & Executive Meeting Center in Rockville, Maryland. President John McLaughlin will represent the NWA and media and will talk about the importance of getting data observations on the Internet with access for all. For more information, see Web site:

[lwf.ncdc.noaa.gov/oa/climate/coop/modernization.html](http://lwf.ncdc.noaa.gov/oa/climate/coop/modernization.html)