

PRESIDENT'S MESSAGE

I am writing this two weeks after Hurricane Claudette made landfall over Matagorda Bay, about the middle of Texas' coastline. Much of that area and along the coast northward falls under the forecast/warning responsibility of my NWS office. Claudette was the first direct hit in the Matagorda area since Hurricane Fern in 1971. Ten years before Fern, Hurricane Carla, arguably the largest hurricane to strike Texas since records have been kept, made landfall at about the same location, producing a storm surge to 22 feet at Port Lavaca and 15 to 18 feet as far north as Galveston Bay. Claudette produced tides around 8 feet and brought damage to thousands of residents in Matagorda, Jackson, Calhoun and Victoria counties due to hurricane force winds. High tides and waves also wreaked havoc on beachfront properties in Brazoria and Galveston Counties.

Operations for a hurricane are always challenging. Teamwork is required between the National Hurricane Center and the local NWS forecast office, between the NWS office and local media, and between local emergency managers and elected officials with all of the above. Considerable advance planning has to take place in order to minimize confusion and misinformation during the evolution of a storm threat. While our assessment is still in progress, the parties involved during Claudette report for the most part our planning paid off and operations worked quite well. Evacuations were recommended for the right places at the right time, and no fatalities occurred in the coastal counties during the landfall. Areas needing improvement will be identified and built into plans for the next storm.

Details are coming together for our annual meeting in Jacksonville, Florida, October 18th through 23rd. I am really looking forward to returning to JAX as it has been 30 years since I was stationed at NAS Jacksonville just up the St. John's River from the Adam's Mark Hotel where we will be holding our meeting. Please see the agenda for the Annual Meeting in this Newsletter and related information on the NWA Web site (www.nwas.org). A *special plug for the Golf Event on Saturday, October 18th* - Last year I had the pleasure of playing in our first golf outing and I found it to be a great way to start out the week of the annual meeting. In addition to the usual fun and games associated with a golf tournament, you get a

chance to meet new people in our profession in a social setting and, better still, help provide additional money for NWA scholarships.

As I reported in last month's Newsletter, we have taken some actions related to the four priority goals in our Strategic Plan. Previous messages have addressed the need to increase membership, maintaining focus on operational techniques and technology, and on enhancing the NWA publications. Steps have been taken on each of these goals. The fourth priority goal for this year is "develop leadership and succession planning". The front burner action under this goal is our search for an Assistant Executive Director. The ad hoc committee will be publishing an announcement concerning this position soon. In the meantime, any member interested in such a position should contact Kevin Lavin at natweasoc@aol.com or (434) 296-9966 to learn the various responsibilities of the job.

Other aspects of this goal include the need to continue bringing "new blood" to the Council and to our many committees. Each year when you renew your membership, the invoice has a section where you express your interest to serve the organization either as an Officer, Councilor or on a committee. The nominating committee uses that information and over the years has done a reasonable job of infusing new people into elected positions on the Council. President-Elect Paul Croft is developing plans to further improve the nominating process. Bringing new people and fresh ideas to our committees is a challenge I would like to see addressed. Some of our committee chairs have served several three-year terms. While their dedication to serving the NWA is admirable, these positions are voluntary. We have a responsibility to not "burn out" our members in leadership positions by having a mechanism in place to identify and recruit new leaders at the committee level. The Council will be working with Commissioner of Committees, David Knapp, and the committee chairs to develop a workable process for succession. If anyone has ideas or comments on this or other issues feel free to contact me, or anyone on the Council. The time is right to hear from you since the Council will be having business meetings during the Annual Meeting. Hope to see many of you in Jacksonville!

- Bill Read

Bill.Read@noaa.gov

NWA BROADCAST COMMITTEE

Knowledge for your Future; Friendships for a Lifetime

It's hard to believe but I am nearing the end of my third and final year as the Broadcast Meteorology Committee Chair. One of my duties each year is to pick the location of the Broadcasters' Dinner at the NWA Annual Meeting each October. I have had success in finding wonderful locations in Spokane and Fort Worth in the past two years, and now I am searching in Jacksonville, Florida. I am looking forward to catching up with old friends I met at previous meetings, seeing a little of Jacksonville and to do what the meetings are designed for...to learn.

Getting a meteorology degree is great, but that is not nearly enough in a field that is constantly changing, with new knowledge and insights coming out almost daily. I first attended the NWA Annual Meeting because I needed to recertify my NWA Seal and that was the best option for me at the time. I'm happy I went for I immediately got hooked on a wide world of meteorology and hydrology that could never be covered in college courses. I received my Seal in 1990 and attended my first conference in 1992. With a job change and one other hurdle, I have missed only two meetings since and if nothing pressing comes up in the future, I will attend NWA Annual Meetings until I retire...or maybe longer, who knows.

So why do I have such passion for these annual get-togethers? That answer is easy. The meetings are a combination of elements you can't get anywhere else. You can learn new techniques for radar and satellite data, and for storm analysis and forecasting that you can take back to your job and use immediately. Each year you can build on those lessons as new studies are presented. Do you like toys? The latest weather technology is discussed and much is on display from vendors representing the government and private industry...and of course the storm chasers. Do you want some new graphics equipment? Get all the brochures and hands-on time you want from all the major weather graphics companies. It's fun to play with the new stuff, and you come home better informed about the choices available.

The education and technology is great, but there are many people I would have never known and many places I would have never visited if not for the annual meetings. Talking to meteorologists from other states, and even other countries, gives an excellent perspective on the similarities and differences in what we do and the impact we have around the world. By meeting people from around the U.S. you can network very effectively, and you'll make friendships for a lifetime. Some people I see only once each year, but when we meet, it's like we're old friends who never said goodbye. Do yourself a favor and come to Jacksonville this October; it will be well worth your time! Send your thoughts to me at skyeye@fuse.net.

- Rich Apuzzo, Broadcast Meteorology Committee Chair

ANNUAL MEETING AGENDA

This preliminary agenda (as of 5 September 2003) 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 continually updated on the NWA Web site (www.nwas.org).

The 28th Annual Meeting of the National Weather Association will be held 18-23 October 2003 at the Adam's Mark Hotel, 225 Coastline Drive East, Jacksonville, Florida 32202. Attendees can register at the meeting or pre-register using the information in the July NWA Newsletter or the information on the NWA Web site (www.nwas.org).

Saturday, 18 October 2003

Training opportunities: Representatives from Weather Central, Incorporated and Weather Services International (WSI) will be providing training to broadcasters at the Adam's Mark Hotel. Meeting rooms and scheduled times to be determined.

Second Annual Golf Classic: Betsy Kling is again organizing a golf outing for the enjoyment of members and to raise funds for scholarships as she did so successfully last year. The golf course she chose is the St. Johns Golf and Country Club with **tee times beginning at 11:00 AM into early afternoon**. The fees will be \$80 for each individual to cover course fees, lunch and scholarship donation. If interested, please contact Betsy at BKLING@wkyc.gannett.com or the NWA Office at (434) 296-9966; NatWeaAsoc@aol.com by 1 October.

01:00 PM **NWA Registration and Information Desk opens** in the Grand Ballroom Prefunction A area (2nd floor of the Adam's Mark Hotel)

06:00 PM - 10:00 PM **Exhibitors can set up their booths** in Grand Ballroom Section 3 (2nd floor of the Adam's Mark Hotel)

10:00 PM **NWA Registration and Information Desk closes for the day.**

Sunday, 19 October 2003

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

BROADCASTERS' WORKSHOP in the Grand Ballroom Section 4 (2nd floor of the Adam's Mark Hotel). Presentations and workshops shown below are directed at Television and Radio Broadcasters, students and those in related fields, but all interested are invited to register, attend and participate.

08:30 AM **Welcoming Remarks.** NWA President **Bill Read**, the Meteorologist-in-Charge (MIC) of the NWS Forecast Office Houston/Galveston, Texas, and **Broadcaster Workshop Program Chair, Bryan Karrick** of KCCI-TV, Des Moines, Iowa (bkarrick@hearst.com)

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

Sunday, 19 October 2003 continued

08:40 AM **Remote Sensing Workshop – Winter Weather** – NWA Remote Sensing Committee Chair Gary P. Ellrod, NOAA/NESDIS/ORA, Camp Springs, MD

- **Satellite Winter Storm Tools.** Sheldon Kusselson, NOAA/NESDIS, Camp Springs, MD

- **Anticipating Mesoscale Band Formation in Winter Storms.** David Novak, NOAA/NWS Eastern Region Hqs., Bohemia, NY

- **Problems in Radar Detection and Quantitative Assessment of Winter Precipitation.** Neil Fox, Dept of Atmospheric Science, University of Missouri-Columbia, Columbia, MO

09:40 AM **An Internet Site for Professional Meteorologists.** Kenneth Reeves, AccuWeather, Inc., State College, PA.

09:55 AM Vendor presentations: Weather Central, Inc., and Weather Services International (WSI)

10:05 AM *Coffee Break: Exhibits are open*

10:30 AM **The Success of Using Instant Messaging to Improve Communications with the Local Media.** Faith Borden, NOAA/NWS Forecast Office, Birmingham, AL

10:45 AM **NWS/Media Partnership Workshop: NWS Southern Region Weather Forecast Offices' Initiatives for Effective Hazardous Weather Communications.**

Alan E. Gerard (NWA Treasurer), MIC NWS WFO Jackson, MS; Tom Bradshaw, NWS WFO Huntsville, AL; Barry Goldsmith, NWS WFO Tampa Bay-Ruskin, FL; G. Alan Johnson (NWA Vice President), NWS WFO Slidell, LA; and Alan Sealls (NWA Councilor), WKRG-TV, Mobile, AL.

11:50 AM Vendor presentations: WeatherData, Inc., and Meteorlogix

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

01:30 PM **Watch By County: How does it Improve the NWS Convective Watch Process?** Richard Okulski, NOAA/NWS Office of Climate, Water, and Weather Services, Silver Spring MD; Daniel McCarthy, NWS/ Storm Prediction Center, Norman OK; Harold J. Keeney, NWS/Central Region Headquarters, Kansas City, MO; and Walter Zaleski, NWS/Southern Region Headquarters, Fort Worth, TX

01:45 PM **The "5-4-3 Tornado Outbreak": A Day the Warning Process Worked!** Bruce Thomas, KCTV5 Meteorologist, Kansas City, MO; Katie Horner, KCTV5 Chief Meteorologist and Keith Cavey, University of Oklahoma Student/KCTV5 Weather Producer.

02:00 PM **Severe Weather Workshop.** Dan McCarthy, NOAA/NWS/Storm Prediction Center, Norman, OK

03:00 PM *Refreshment Break in the Exhibit Area*

03:30 PM **South Dakota's June 24th TornadoFest.** Jay Trobec and Sean Cable, KELO-TV, Sioux Falls, SD

03:45 PM **NWA Cosponsors First World Conference on Broadcast Meteorology.** John McLaughlin, (NWA Councilor and past President), KCCI-TV, Des Moines, IA

03:50 PM **XM Radar: The Future of Storm Tracking.** Bob Baron, Baron Services, Huntsville, AL

04:05 PM **NOWCASTING.** AWS WeatherNet, Mark Hoekzama, Chief Meteorologist, AWS Convergence Technologies, Inc., Gaithersburg, MD

04:20 PM **School & Civic Group Talks: A Panel Discussion on Various Techniques, Agendas & Experiments to Make Your Presentation Pop!** Nick Walker (NWA Councilor), The Weather Channel, Atlanta, GA; Cecilia Sinclair (NWA Councilor), FOX 26, Houston, TX; and Bryan Karrick, KCCI-TV, Des Moines, IA.

05:05 PM **Centralized Weather Debate: An Open Q & A on What this Means for Future Meteorologists and NWA Seal Holders.** Richard E. Apuzzo II, Broadcast Met. Committee Chair

05:30 PM *Dinner on your Own.*

07:00 PM **The History of Television Weather Presentations.** Dr. Joel N. Myers, founder and President of AccuWeather, Inc., State College, PA

followed by the **ANNUAL 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. To ensure your tape is shown, please indicate on your preregistration form that you will be bringing a tape. Depending on the number of tapes expected, double sessions may be arranged or a session added on Saturday evening.

Monday, 20 October 2003 – General Sessions

08:15 AM **Welcoming remarks.** NWA President, Bill Read, Meteorologist-in-Charge (MIC), NOAA/NWS Forecast Office Houston-Galveston, TX

08:30 AM **Keynote Address: NWS Plans and Priorities.** John E. Jones Jr., Deputy Director National Weather Service, Silver Spring, MD

09:00 AM **NWS Southern Region Initiatives.** X. William Proenza, Director NWS Southern Region, Fort Worth, TX.

09:20 AM **COOP Modernization: Building the National Cooperative Mesonet.** Kenneth C. Crawford, (NWA President 1988) Oklahoma Climatological Survey, Norman, OK

09:40 AM *Coffee Break; Exhibits open.*

Session I – Tropical Meteorology

Session Chair: Patrick Welsh, NWA Annual Meeting Program Co-Chair, NOAA/NWS Forecast Office, Jacksonville, FL

10:15 AM **Invited Speaker: AOML Initiatives - Reanalysis of the Hurricane Database Project 1851-1910 and 1992's Hurricane Andrew.** Christopher Landsea, NOAA Atlantic Oceanographic & Meteorological Laboratory (AOML) Hurricane Research Division, Miami, FL

10:45 AM **Hurricane Hunter Missions and the 2003 Hurricane Season.** John Gordon, US Air Force Reserve, Keesler AFB MS, and MIC NWS Forecast Office, Huntsville, AL, and Val Hendry, US Air Force Reserve, Keesler AFB MS

11:00 AM **Reassessing the Impact of Two Historical Florida Hurricanes.** Jim Lushine and Russell Pfof (MIC), NWS Forecast Office, Miami, FL

11:15 AM **Forecasting Skill with Looping Tropical Cyclones.** Jessica Clark, NWS/NCEP/ Hydrometeorological Prediction Center, Camp Springs, MD

11:30 AM **The Alternate Joint Typhoon Warning Center (AJTWC).** Carl D. Thormeyer, Kenneth A. Malmquist and Mary B. Clifford, US Navy Fleet Numerical Meteorology and Oceanography Center, Monterey, CA and Charles R. Sampson, Naval Research Laboratory, Marine Meteorology Division.

11:45 AM **The Use of the Hydro-Nowcaster for Mesoscale Convective Systems and the Tropical Rainfall Nowcaster (TRaN) for Landfalling Tropical Systems.** Roderick A. Scofield (NWA President 2000) and Robert J. Kuligowski, NOAA/NESDIS/ORA, Camp Springs, MD and Clay Davenport, IM Systems Group, Kensington, MD

Monday, 20 October 2003 continued

12:00 noon **Turn Around Don't Drown™**. Hector R. Guerrero, Warning and Coordination Meteorologist, NOAA/NWS Forecast Office, San Angelo, TX; Kandis Boyd, Dennis Cain and Steven Cooper, NWS Southern Region Headquarters, Fort Worth, TX; and Leslie Chapman-Henderson, President and CEO of Federal Alliance For Safe Homes (FLASH), Tallahassee, FL

12:15 PM *Lunch on your own; Exhibits open*

Session II – Winter Weather

Session Chair - Dr. Paul J. Croft, NWA President-Elect, Dept of Geosciences, University of Louisiana at Monroe, Monroe, LA

01:30 PM **Winter Weather Outlook**. Joe Bastardi, AccuWeather, Inc., State College, PA

01:45 PM **A Diagnostic View of the 24-25 December 2002 Heavy Snowstorm in South-Central Missouri**. Jamie L. Smith, James T. Moore (NWA President 1999), Charles E. Graves and Sam Ng, Saint Louis University, Saint Louis, MO

02:00 PM **Addressing Quality Snow Observations At Local Climatological Data Locations**. Andrew Horvitz and the Snowfall Evaluation Team, National Climate Extremes Committee, NOAA/NWS Office of Climate, Water, and Weather Services, Silver Spring, MD

02:15 PM **The Correlation Between October/Winter Temperature Anomalies in the Midwest During El Niño Events**. Jeff Boyne, NWS Forecast Office, La Crosse, WI and Morgan Brown, University of Northern Iowa, Cedar Falls, IA

02:30 PM **A Look Back at the Surprise 1987 Veteran's Day Snowstorm**. Peter B. Roohr, US Air Force 88th Weather Squadron, Wright-Patterson AFB OH.

02:45 PM **A Numerical Simulation of the 24-25 December 2002 Heavy Snowstorm in South-Central Missouri**. Sam Ng, Charles E. Graves, James T. Moore, and Jamie L. Smith, Saint Louis University, Saint Louis, MO

Special Session – Long Term View

Session Chair - Bill Read, NWA President

03:00 PM **Invited Speaker: The Weather Channel over its First 21 Years & the Importance of Partnerships**. Raymond J. Ban, Executive Vice President, Meteorology Science and Strategy, The Weather Channel, Inc., Atlanta, GA

03:30 PM *Refreshment Break in exhibit area*

Session III - Homeland Security Related Issues

Session Chair – Mary M. Cairns, NWA Councilor, Office of the Federal Coordinator for Meteorology (OFCM)/ NOAA/NWS, Silver Spring, MD

04:00 PM **Environmental Support to Homeland Security**. Robert J. Dumont, Office of the Federal Coordinator for Meteorology/ NOAA, Silver Spring, MD

04:15 PM **Working with Emergency Management to Improve the Dissemination of Civil Emergency Messages for Homeland Security Purposes**. Timothy W. Troutman and Jason E. Burks, NWS Forecast Office, Huntsville, AL, and Eddie Hicks, Morgan County Emergency Management, Morgan County, AL

04:30 PM **The Multiple Uses of a Comprehensive Climatology Database**. John P. Gagan, Eric E. Carpenter and Jennifer L. Colson, NOAA/NWS Forecast Office, Jackson, MS

04:45 PM Invited Speaker: TBD

05:00 PM - 07:00 PM ICE BREAKER and POSTER SESSION I in Exhibit area and Prefunction area

1. Improvements and Validation of the Experimental Tropical Rainfall Potential (TraP) Technique. Sheldon J. Kusselson and Michael Turk, NOAA/NESDIS/Satellite Services Division /Satellite Analysis Branch, Camp Springs, MD; Jianbin Yang, RS Information Systems, Inc., Camp Springs, MD; Ralph R. Ferraro, NOAA/NESDIS/Office of Satellite Applications and Research (STAR), Camp Springs, MD; Paul Pellegrino, QSS Group, Inc., Lanham, MD; Dr. Stanley Kidder and Dr. John Knaff, Cooperative Institute for Research of the Atmosphere (CIRA), Colorado State University, Fort Collins, CO.

2. Snowin' to Beat the Band: Using Satellite Imagery and the Local Analysis and Prediction System (LAPS) Output to Diagnose the Rapid Development of a Mesoscale Snowband. Eleanor Vallier-Talbot and David R. Vallee, NWS Forecast Office, Taunton, MA

3. Weather Modernized: Gulf War vs. Operation Iraqi Freedom. Kevin M. Starr, Richard S. Penc and Fritz Van Wijngaarden, Northrop Grumman Mission Systems, Bellevue Nebraska

4. Meteorology and the Emerging Scholars Option: Professional and Research Opportunities for Undergraduate Development. Paul J. Croft, Lynn LeBlanc, Randee Billips, Aaron Botnick, and Amy Haddox, University of Louisiana at Monroe, Monroe, LA

5. Mentoring Experiences for Teaching Students in Weather Investigators of Northeast Louisiana. Paul J. Croft, M. Andy McLaurin, and Katie Roussy, University of Louisiana at Monroe, Monroe, LA

6. Wet Microburst: Student Training and Role in On-line Bibliography and Event Selection. Paul J. Croft, Patrick Pyle, and Scott Blair, University of Louisiana at Monroe, Monroe, LA

7. Undergraduate Workshop for Integration of Leadership and Leveraging. Paul J. Croft and Sarah E. Allen, University of Louisiana at Monroe, Monroe, LA

8. Weathering and Landforms: Expansion of a Meteorology Degree Program. Dr. Mary M. Snow and Dr. Richard K. Snow, Embry-Riddle Aeronautical University, Daytona Beach, FL

9. GIS Analysis of 2002 Annual Temperature Range Variability in the U.S. Dr. Richard K. Snow, Dr. Mary M. Snow and Mario Westphal, Embry-Riddle Aeronautical University, Daytona Beach, FL

10. JSU Meteorology Program, "Increasing Diversity in Atmospheric Science through Research, Applications and in Partnership with the National Weather Service (IDAS-RAP) and the Climatological Studies Project. Saavedra Ivey, Jackson State University, Jackson, MS; Jeffrey Craven and Alan Gerard, NWS Forecast Office, Jackson, MS; Ashley Hayes and John Shoemake, Jackson State University, Jackson, MS

11. Weekday Daily Ozone Forecasting for the Mississippi Department of Environmental Quality by the Jackson State University Meteorology Program. John L. Shoemake, Kantave Greene, Laurita Brown, Jackson State University, Jackson, MS

12. Outreach Activities Occurring at the National Weather Service Forecast Office in Birmingham, Alabama. Faith Borden, NOAA/NWS Forecast Office, Calera, AL

Monday, 20 October 2003 Poster Session I continued

13. The Tallahassee Area Minimum Temperature Study. Ron Block and Andrew I. Watson, NWS Forecast Office, Tallahassee, FL, and Kelly Godsey and Henry E. Fuelberg, Florida State University, Tallahassee, FL

14. A.D.O.N.I.S. MicroCast: Customized Severe Weather Forecasting. Mike Thomas, Weather Central, Inc., Madison, WI

15. A Comprehensive Source of Numerical Model Data. Kenneth Reeves, James T. Candor and Michael A. Steinberg, AccuWeather, Inc., State College, PA

16. A High Resolution, Local Point Forecast Model. Kenneth Reeves and Michael A. Steinberg, AccuWeather, Inc., State College, PA

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

07:00 PM *Dinner on your own.*

Broadcasters' Dinner – at THE RIVER CITY BREWING COMPANY *Brew Pub*

Tuesday, 21 October 2003 - General Sessions

Session IV – Severe Weather I

Session Chair – Dan McCarthy, NOAA/NWS/Storm Prediction Center, Norman, OK

08:15 AM **Invited Presentation:** TBD

08:45 AM TBD

09:00 AM **Examining Devastating New England Tornadoes of the Past with Current Models and Techniques at the Storm Prediction Center.** John E. Hales, NWS/Storm Prediction Center, and Michael E. Baldwin, CIMMS/University of Oklahoma and NOAA/NSSL, Norman, OK

09:15 AM **A Rare Severe Thunderstorm With Snowfall.** Patrick Market, University of Missouri-Columbia, Columbia, MO; Ray Wolf, NWS Forecast Office, Davenport, IA; Brian Pettegrew and Rebecca Ebert, University of Missouri-Columbia, Columbia, MO

09:30 AM **Late Season Severe Weather Outbreaks as Markers of a Seasonal Transition.** John R. Scala, Department of Earth Sciences, Millersville University, Millersville, PA; Richard H. Grumm, NWS Forecast Office, State College PA and Paul G. Knight, Department of Meteorology, The Pennsylvania State University, University Park, PA

09:45 AM **The 10 November 2002 F4 Tornado in Van Wert, Ohio.** Jeffrey A. Logsdon, Tom Reaugh and Rodney Smith, NWS Forecast Office, Syracuse, IN

10:00 AM **What color is your CAPE?** (A plea for specifying your parcel.). Jeffrey P. Craven, NWS Forecast Office, Jackson, MS

10:15 AM *Coffee Break; Exhibits open*

Session V - Severe Weather II (May 2003 Tornado Outbreak)

Session Chair – Jim Lushine, NWS Forecast Office, Miami, FL

10:45 AM **Overview of the Week That Was: May 4-11, 2003.** Daniel McCarthy, NWS/Storm Prediction Center, Norman, OK and Joseph Schaefer, (NWA President 1998), Director of NWS/Storm Prediction Center, Norman, OK

11:00 AM TBD

11:15 AM **Memphis Perspective of the Severe Weather Outbreak of May 2003.** Jonathan Howell, Scott McNeil, Daniel Valle, Greg Garrett, NWS Forecast Office, Memphis TN

11:30 AM **An Examination of the Destructive 16 May 2003 Northeast Arkansas Bow Echo.** Daniel Valle, Greg Garrett, Jonathan Howell and Scott McNeil, NWS Forecast Office, Memphis, TN

11:45 AM **The Hail Outbreak of 2 May 2003: An Overview of One of Alabama's Costliest Hailstorms.** Matt Zika, NWS Forecast Office, Huntsville AL

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

Session VI - Graphic Systems for Analysis, Forecasting and Broadcasting

Session Chair - Dr. Richard K. Snow, Embry-Riddle Aeronautical University, Daytona Beach, FL

01:30 PM **GIS Data and Applications at the Lower Mississippi River Forecast Center.** Keith Stellman and David Welch, NWS/LMRFC, Slidell, LA

01:45 PM **Internet Mapping Services (IMS) for the National Weather Service.** Jack Settelmaier, NWS Southern Region Headquarters, Fort Worth, TX

02:00 PM **The Next Thing In Television Weather Graphics Systems.** Kenneth Reeves, Michael A. Steinberg, and Jainene Long, AccuWeather, Inc., State College, PA

02:15 PM **A New Paradigm in Severe Weather Tracking, Warning and Reporting.** Michael R. Smith, C.C.M., WeatherData, Inc., Wichita, KS

02:30 PM **Utilizing the IFPS/GFE to make Coastal Waters Forecasts.** Andrew I. Watson, T. J. Turnage and Brandon Bolinski, NWS Forecast Office, Tallahassee, FL

02:45 PM **Watersheds and Weather: Content Integration On Air and on the Web & Two Centuries of Cloud Naming.** H. Michael Mogil, StormCenter Communications, Inc., Ellicott City, MD

03:05 PM *Refreshment Break in the Exhibit area*

03:30 PM **Workshop I - Remote Sensing Workshop – Winter Weather** – (Grand Ballroom Section 4) Gary Ellrod, NWA Remote Sensing Committee Chair and NOAA/NESDIS, Camp Springs, MD with:

Sheldon Kusselson, NOAA/NESDIS Camp Springs, MD - *Satellite Winter Storm Tools;*

David Novak, NWS Eastern Region Hqs. Bohemia, NY - *Anticipating Mesoscale Band Formation in Winter Storms;*

Neil Fox, University of Missouri-Columbia, - *Problems in Radar Detection and Quantitative Assessment of Winter Precipitation;*

Ralph R. Ferraro, NOAA/NESDIS, Camp Springs, MD - *Surface Snow and Ice Assessment from Satellite;* and,

Gary Ellrod - *Detection of Aircraft Icing Using Satellite and Radar*

03:30 PM **Workshop II – Aviation Meteorology** – (Grand Ballroom Section 2) Timothy Oram, NWA Co-chair Aviation Meteorology Committee, NWS Spaceflight Meteorology Group, Johnson Space Center, TX with:

Carolyn M. Kloth, Aviation Weather Center, NWS/NCEP, Kansas City, MO - *Twenty-five Years of Convective SIGMETs: A Look At The Influence of Technology;*

Tuesday, 21 October 2003 Workshop II continued

Mary M. Cairns and Thomas S. Fraim, NOAA/OFCM, Silver Spring, MD and Tony Ramirez, STC - *The National Aviation Weather Program: An Update on Implementation*;

Alan Nierow, Federal Aviation Administration, Washington, DC, Earle Williams and Mike Donovan, MIT/Lincoln Laboratory, Lexington, MA - *Developing Oceanic Convective Products to Mitigate the Impact of Weather Hazards on Transoceanic Flights*;

Jeffrey A. Weinrich, Titan Corporation, Atlantic City, NJ - *Juneau Airport Wind System (JAWS) Meteorological Case Study Analysis*; and,

Joe Higginbotham, FAA, ARTCC, Jacksonville, FL, Alfred Moosakanian & Jay Johnson, FAA, Washington, DC, Jim Stobie, SAIC, Washington, DC, Steve Walden, Computer Technology Associates, Washington, DC, Ray Graff, Northrop Grumman Mission Systems, Washington, DC - *FAA's Weather and Radar Processor (WARP) Provides NEXRAD and Other Weather Products to Air Traffic Controllers*.

05:30 PM *Dinner on your own.*

06:30 PM NWA Council and Committee Chairs Meeting

Wednesday, 22 October 2003 - General Sessions

Session VII - Numerical Weather Prediction I

Session Chair – G. Alan Johnson, NWA Vice President, NWS Forecast Office, Slidell, LA

08:15 AM **Developing a Local Mesoscale Ensemble Numerical Weather Prediction System for Operational Weather Forecasting.** Brian A. Colle, Institute for Terrestrial and Planetary Atmospheres, Stony Brook University, Stony Brook, NY; Jeffrey S. Tongue, NWS Forecast Office Upton, NY; Joshua Watson, NWS Eastern Region Hqs., Bohemia, NY; Alan Cope, NWS Forecast Office, Mt. Holly, NJ; David Vallee and Robert Shedd, NWS Forecast Office, Taunton, MA

08:30 AM **The NWS Southern Region Modeling Initiative at NWS Forecast Office Melbourne, FL.** David W. Sharp, Peter F. Blottman, Scott M. Spratt, Matthew R. Volkmer and Bartlett C. Hagemeyer, NWS Forecast Office, Melbourne, FL, and Jonathan L. Case, ENSCO, Inc., Cocoa Beach, FL and Applied Meteorology Unit, NASA/Kennedy Space Center, FL

08:45 AM **The SPC/NSSL Spring Program 2003: Exploration of Short-Range Ensemble Prediction Systems and High Resolution Deterministic Numerical Models for Use in Operational Severe Storm Forecasting.** Steven J. Weiss (NWA Councilor), and David Bright, NWS/Storm Prediction Center, Jason Levit, University of Oklahoma/CIMMS, David Stensrud, NOAA/National Severe Storms Laboratory, and John Kain, University of Oklahoma/CIMMS, Norman, OK

09:00 AM **High-Resolution Model Simulations of Tornadic Storms Over Florida During Tropical Storm Gabrielle (2001).** Jonathan L. Case, ENSCO, Inc., Cocoa Beach, FL and Applied Meteorology Unit, NASA/Kennedy Space Center; Peter F. Blottman, Scott M. Spratt, David W. Sharp and Matthew R. Volkmer, NWS Forecast Office, Melbourne, FL

09:15 AM **NOAA's Coastal Storms Initiative (CSI) in Northeast Florida and the Local Mesoscale Modeling Project.** Patrick Welsh, NWS Forecast Office, Jacksonville, FL, Art Wildman, Brent Shaw, and John Smart, NOAA/Forecast Systems Laboratory, Boulder, CO, and Bernard N. Meisner, NWS Southern Region Headquarters, Fort Worth, TX.

09:30 AM **Experiments in Downscaled Seasonal Forecasting – A Review of the Impact of the 2002-03 El Niño on Florida Dry Season Storminess and Experimental Forecast Performance.** Bartlett C. Hagemeyer, MIC NWS Forecast Office, Melbourne, FL

09:45 AM **Enhanced Gravitational El Niño/Southern Oscillation Teleconnection (EGET) Forecast Technique.** David Dilley, Global Weather, Ocala FL

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

Session VIII – Training, Education, and Research Applications to Operations

Session Chair - Stephen W. Harned (NWA President 1992), Meteorologist-in-Charge, NWS Forecast Office, Raleigh, NC

10:30 AM **The Role of Expert Warning Forecasters: Results of a Cognitive Task Analysis of the Warning Forecaster Task.** Elizabeth M. Quetone (NWA Councilor) and John T. Ferree NWS/Warning Decision Training Branch (WDTB), Norman, OK, and Bianka B. Hahn, David W. Klinger, and Erica Rall, Klein Associates, Inc.

10:45 AM **Warning Decision Support System Integrated Information (WDSS-II) Test at Wichita Kansas NWS Forecast Office.** Gregory J. Stumpf, Travis M. Smith, and Kevin L. Manross, CIMMS/NSSL, Norman, OK, and Peter Wolf, NWS Forecast Office, Wichita, KS

11:00 AM **Continuing Education Resources for All Meteorologists.** Gregory Byrd, Wendy Schreiber-Abshire, and Director, Timothy Spangler, UCAR/COMET, Boulder, CO

11:15 AM **Meteorology Curricula at Embry-Riddle Aeronautical University.** Chris Herbster, Embry Riddle Aeronautical University, Daytona Beach, FL

11:30 AM **The Applied Meteorology Unit as a Model for Successfully Transitioning Research to Operations.** Francis J. Merceret, NASA, Kennedy Space Center FL, John Manobianco, ENSCO, Inc., Cocoa Beach, FL

11:45 AM **Infusing NASA Technology into the NWS Local Forecast Environment: The NWS Forecast Office-Huntsville Experience.** Tom Bradshaw, Jason Burks and Chris Darden, NWS Forecast Office, Huntsville AL

12:00 noon **NWA Annual Awards Luncheon**

Guest Speaker: A member of the Professional Golfers Association – User's view on the importance of weather information. [Exhibits close at noon for tear down.]

Session IX - Numerical Weather Prediction II

Session Chair - Alan E. Gerard, NWA Treasurer, Meteorologist-in-Charge, NWS Office, Jackson, MS

02:00 PM **Validation of Operational MM5 for Cold Fronts Approaching the Gulf of Mexico.** Loren D. White and KaSair Davenport, Jackson State University, Jackson, MS

02:15 PM **Forecasting the Propagation of Thunderstorm Anvil Clouds Over Florida Using NCEP Model Data.** Mark Wheeler and David Short, ENSCO, Inc., NASA Kennedy Space Center / Applied Meteorology Unit, Cocoa Beach, FL

Wednesday, 22 October 2003 continued

02:30 PM **High Resolution Diagnostics and Short Term Prognostics in Support of Weather Forecast & Warning Operations at NWS Melbourne, FL.** Peter F. Blottman, NWS Forecast Office, Melbourne, FL

02:45 PM **AVN and Eta-Based Statistical Forecasts of Ceiling Height and Total Sky Cover.** Mitchell Weiss, RS Information Systems Inc., McLean, VA, and J. Paul Dallavalle, NWS/ Meteorological Development Laboratory, Office of Systems Development, Silver Spring, MD

03:00 PM **Model Output Statistics Guidance for Air Temperature and Dewpoint Temperature Based on the Eta Model.** Christopher M. McAloon, NWS/ Meteorological Development Laboratory, Office of Systems Development, Silver Spring, MD

03:15 PM **POSTER SESSION II** (Prefunction Area)

1. Using the Serp Analysis Program for Seamless Graphical Forecast Coordination. Les Colin, NWS Forecast Office, Boise, ID

2. CECAP - An Enhanced GOES Product For Aircraft Icing Potential and Maximum Icing Altitude. Gary P. Ellrod, NOAA/NESDIS, Camp Springs, MD, Andrew Bailey, Raytheon ITSS

3. Landing Weather for the Final Flight of Space Shuttle Columbia. G. Wayne Baggett, NWS Spaceflight Meteorology Group, Johnson Space Center, Houston, TX

4. WSR-88D Data Analysis of the Space Shuttle Columbia Accident Debris Field. Richard Lafosse and Tim Garner, NWS Spaceflight Meteorology Group, Johnson Space Center, Houston, TX

5. Stratosphere and Mesosphere Analysis in Support of the Space Shuttle Columbia Investigation. Timothy Oram and Tim Garner, NWS Spaceflight Meteorology Group, Johnson Space Center, Houston TX; Barry Roberts and Dr. Jere Justus, NASA Marshall Space Flight Center, Huntsville, AL; John Madura, NASA Kennedy Space Center Weather Office, Dr. Arlindo da Silva, NASA Goddard Spaceflight Center Data Assimilation Office, and Dr. Martin Mlynczak, NASA Langley Research Center.

6. A History of Juvenile Lightning Victims in Florida. Jim Lushine, NWS Forecast Office, Miami, FL

7. WMSI - A New Index For Forecasting Wet Microburst Severity. Kenneth L. Pryor and Gary P. Ellrod, NOAA/NESDIS/ORA/STAR, Camp Springs, MD

8. An Overview of the Record-breaking North Alabama Flooding and Tornado Event of 6 May 2003. Priscilla Bridenstine, NWS Forecast Office, Huntsville AL

9. Data Collection of Severe Weather Outbreak 5-13 May 2003. Richard Bagby (Annual Meeting Program Committee Co-chair) and Students of Embry-Riddle Aeronautical University, Daytona Beach, FL

10. The Miami Metropolitan Area Tornado of 27 March 2003: A Qualitative Assessment of Vorticity Enhancement in a Developing Supercell Interacting With an Advancing Outflow Boundary. Thomas Warner, Pablo Santos and Robert Handel, NWS Forecast Office, Miami, FL

11. Comparison Between Observed Boundary Layer Depth and Mean Layer LCL Heights. Jeffrey P. Craven, NWS Forecast Office, Jackson MS

12. A Preliminary Investigation into Derecho Families. Walker S. Ashley and Thomas L. Mote, Department of Geography, University of Georgia, Athens, GA, and Mace L. Bentley, Department of Geography, Northern Illinois University, DeKalb, IL

13. The Precipitation Efficiency of Warm-Season Mesoscale Convective Complexes in the United States. Joshua D. Durkee, Thomas L. Mote, Walker S. Ashley and Jamie L. Dyer, Department of Geography, University of Georgia, Athens, GA

05:00 PM *Dinner on your own*

06:00 PM NWA Council business meeting

Thursday, 23 October 2003 - General Sessions

Session X – Heavy Precipitation

Session Chair – Nezette Rydell, NWS Forecast Office, San Antonio, TX

08:15 AM **Analysis of Mesoscale Environments Associated With Summer Pulse Severe Thunderstorms Over the Southeastern United States.** Ashton Robinson-Cook, Russell Schneider, Steven Weiss (NWA Councilor), NWS/Storm Prediction Center, Norman, OK, and Robert Johns (NWA Councilor), Consultant Meteorologist, Norman, OK

08:30 AM **Flash Flooding From Evolving MCS Propagation Characteristics.** Patrick Market and Mesoscale Meteorology Students, University of Missouri-Columbia, Columbia, MO

08:45 AM **Historical Heavy Rain Events in Jacksonville and Saint Augustine, Florida.** Phil Peterson, NWS Forecast Office, Jacksonville, FL

09:00 AM **The Lower Mississippi River Valley Severe Weather and Excessive Rainfall Event of 6-7 April 2003.** John P. Gagan, Eric E. Carpenter, and Jeffrey P. Craven, NWS Forecast Office, Jackson, MS

09:15 AM **A Case Study of Model-Generated Heavy Rainfall.** Jaime L. Poole, Charles E. Graves and James T. Moore, Saint Louis University, Saint Louis, MO

09:30 AM **The Devastating Memphis Downburst - July 22, 2003.** Scott J. McNeil, Dan N. Valle, Jonathan L. Howell and Gregory R. Garrett, NWS Forecast Office, Memphis, TN

09:45 AM **Wet Microburst Bibliography, Annotation, Data.** Paul J. Croft, University of Louisiana at Monroe, Monroe, LA and Alan E. Gerard, NWS Forecast Office, Jackson, MS

10:00 AM *Coffee Break*

Session XI – Forecasting & Other Weather Support Services

Session Chair – Dr. Patrick Market, Dept of Atmospheric Science, University of Missouri – Columbia, Columbia, MO

10:30 AM **NWS Spaceflight Meteorology Group Support to the Columbia STS-107 Accident Investigation.** Frank Brody, Timothy Oram, Timothy Garner and Richard Lafosse, NWS Spaceflight Meteorology Group, Johnson Space Center, Houston, TX

10:45 AM **An IMET's Experience with the Space Shuttle Columbia Recovery.** Seth Nagle, NWS Forecast Office, Midland, TX

11:00 AM **A Pilot Study Examining Model Derived Precipitation Efficiency For Use in Precipitation Forecasting in the Eastern United States.** James Noel and Jeffrey C. Dobur, NWS Forecast Office, Peachtree City, GA

Thursday, 23 October 2003 continued

11:15 AM **The Impact of Atmospheric Stability on Ocean Surface Winds and Wave Production: A Forecasting Challenge.** James Clark, NWS/National Centers for Environmental Prediction/ Ocean Prediction Center

11:30 AM **On the Operational Importance of Forecasting Blocking Events: Wave – Wave Interactions in Blocking Using Potential Vorticity Diagnostics.** Anthony R. Lupo, John P. Burkhardt and Erin K. Gilliland, Department of Atmospheric Sciences, University of Missouri – Columbia

11:45 AM **Determining the Spring to Summer Transition in the Missouri Ozarks Using Synoptic Scale Atmospheric Data.** Christopher W. Ratley, Department of Atmospheric Sciences, University of Missouri – Columbia

12:00 *Lunch on your own*

Session XII - Verification

Session Chair - Jeffrey P. Craven, NWS Forecast Office, Jackson, MS

01:30 PM **The Unbiased Threat Score: A Bias Normalized Critical Success Index.** Joseph T. Schaefer, (NWA President 1998), Director NWS/Storm Prediction Center, Norman, OK

01:45 PM **Weather Investigators of Northeast-Louisiana (WIN-LA).** Paul J. Croft and Lynn LeBlanc, University of Louisiana at Monroe, Monroe, LA

02:00 PM **Marine Verification With Emphasis Using MVERIFY.** John Cannon, NWS Forecast Office, Gray, ME.

Session XIII – Remote Sensing

Session Chair - Roderick A. Scofield (NWA President 2000), NOAA/NESDIS/Office of Research and Applications, Camp Springs, MD

02:15 PM **Experimental High-Resolution WSR-88D Measurements in Tornadoic Storms.** Rodger A. Brown and Vincent Wood, NOAA/National Severe Storms Laboratory, Norman, OK, and Brad Flickinger and Eddie Forren, NOAA/National Severe Storms Laboratory and University of Oklahoma, Cooperative Institute for Mesoscale Meteorological Studies, Norman, OK

NATIONAL WEATHER ASSOCIATION

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02:30 PM **The Operational Use Of Rotation And Divergence Fields Derived From Doppler Radial Velocities.** Travis Smith, Kimberly L. Elmore, Gregory J. Stumpf, and V. Lakshmanan, OU/CIMMS and NOAA/NSSL, Norman, OK

02:45 PM **National Polar-Orbiting Operational Environmental Satellite System (NPOESS) Program Overview.** Gerard D. Wittman, NPOESS Program Manager, Raytheon Company, Aurora, CO, and John M. Haas, Aerospace Principal Director, NPOESS Integrated Program Office, Silver Spring, MD

03:00 PM **Plans For The Third GOES Users' Conference.** James J. Gurka, NOAA/ NESDIS/ Office of Systems Development, Silver Spring, MD

03:15 PM **The Status of “Operational” Products Derived from Satellite-based Passive Microwave Sensors.** Ralph Ferraro, NOAA/NESDIS/Satellite Climate Studies Branch, University of Maryland, College Park, MD

03:30 PM **CLOSING REMARKS.** NWA President, Bill Read, and NWA President-Elect, Dr. Paul Croft, University of Louisiana-Monroe

03:45 PM **The 28th Annual Meeting Adjourns**

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