

PRESIDENT'S MESSAGE

As I write this, recovery efforts are underway across the east central and southeastern United States after devastating tornadoes struck that region on the weekend of 10 November 2002 killing at least 35 people. The tornadoes were spawned from a 1,000-mile line of thunderstorms that started Saturday night, 9 November, and brought heavy rains, strong winds and golf-ball-size hail to 17 states. The National Weather Service (NWS) said more than 70 tornadoes touched down in eight states, the most since November 1992, when 94 twisters hit 13 states. The weekend's outbreak of tornadoes was the deadliest since 3 May 1999, when 43 people were killed in Oklahoma and Kansas. Our thoughts and prayers go out to the victims and families impacted by this disaster. Early reports indicate the NWS offices and local media handled the event well with up to 39 minutes lead-time on the strongest tornadoes. I am sure we will hear many success stories on how the media and local NWS offices worked closely together to save lives and protect property.

I enjoyed visiting with many of you during the successful NWA Annual Meeting in Fort Worth. Mike Vescio and his program committee of Chris Buonanno, Greg Carbin, Jeff Craven, Alan Johnson, William Roeder, Keith Stellman and Dan Threlkeld put together an outstanding conference. Thanks also to Jeff Ray, Hugh O'Neil and members of the local chapter: Dan Dixon, Janice Bunting, Skip Ely, Bob Carle, Ben Fogt and Bernie Wadsworth who helped out at the registration table. Exhibits by AccuWeather, Inc., Advanced Designs Corp., Baron Services, National Weather Service, National Severe Storms Lab, Science Applications International Corp. (SAIC), US Navy Fleet Numerical Meteorology & Oceanography Center, Weather Central, Inc., WSI Corporation and the Mississippi State University chapter brought us up to date with current and planned products and services and were very much appreciated by all.

Special thanks to all the presenters and their coauthors and to workshop leaders for making the 27th Annual Meeting a great learning experience. We also appreciated the presentations by invited speakers. Dr. James R. Mahoney, NOAA Deputy Administrator and Director of the US Climate Change Science Program gave the keynote address detailing the NOAA priorities and briefing on the

climate change science program initiatives. The Strategic Plan for the US Climate Change Science Program is available for review/comment online until 13 January 2003 (a hot topic on the NWA Web site: www.nwas.org).

The NWA Council met twice during the annual meeting and approved the Strategic Plan developed by the committee chaired by Frank Brody. The Council identified some key issues to focus attention on during the next year as Bill Read of the Houston-Galveston NWS office takes over the presidency. These include increasing the number and diversity of NWA members, continuing to be the leader in promoting operational meteorology and related activities, updating and improving NWA publications, and developing leadership and succession planning. An ad hoc committee was appointed to help get the *National Weather Digest* back on schedule and to upgrade its appearance.

Congratulations also go out to all our award winners for this year. You will find their names with a description of their award in this newsletter. It is never too early to start writing up nominations on outstanding individuals and groups in your area for next year's awards. Details are posted on the NWA Web site (www.nwas.org).

Next October's NWA Annual Meeting will be held at the Adam's Mark Hotel in Jacksonville, Florida. Local Jacksonville broadcaster and NWA membership committee member Betsy Kling assures us that the second annual NWA golf tournament and raffle will be held in conjunction with the meeting. The Fort Worth golf tournament raised more than \$300, and the sale of raffle tickets for prizes given away at the awards luncheon brought the total to \$1,204.92. This will be used to begin a NWA minority scholarship fund. Look for details on this new award soon. Thanks to the many NWA Corporate Members that provided prizes for the raffle and the First Annual Golf Tournament!

The annual mailing of membership renewal invoices and election ballots was made in late November to all individual regular and student members. Please send in your renewals early and save a little money through the discount for signing up a new member. Don't forget to send your ballots in by the end of December.

On behalf of the NWA Officers, Councilors and staff, I wish all readers a safe and very happy Holiday Season!

- John McLaughlin
johnmc49@ecity.net

NWA BROADCAST COMMITTEE

They Just Keep Getting Better...

Maybe it's my bias after attending many NWA Annual Meetings, but it seems like each year they keep getting better. This past October, over 300 members gathered in Fort Worth for five busy days of educational sessions, poster displays, vendor demonstrations and even a few coffee breaks. Between the daily sessions and getting together with friends each evening, it's a week that provides memories for years to come.

Each year we hold the NWA Annual Meeting in late October. To choose a site we have divided the country into three regions, East, Central and West, and we rotate through those areas from west to east. Since we were in a central location this year, next year we will be heading east to Jacksonville, Florida! In 2004 we'll be heading west again, and some great cities have been suggested so stay tuned for more on that.

Broadcasters usually arrive on Saturday since the Broadcasters' Session begins early on Sunday morning. This year, however, we started something new...a Saturday golf outing to raise money for more NWA Scholarships. It was a great success, even after 3 to 5 inches of rain fell in the area the day before. Thanks to broadcast meteorologist Betsy Kling of First Coast News in Jacksonville, Florida for arranging the golf outing and putting together a raffle to raise scholarship money.

Along with excellent presentations on many meteorological topics, this year we had a Lightning Symposium, which started Tuesday afternoon and went into Wednesday morning. It was well received and extremely informative. For example, the 30 / 30 rule for lightning safety generated discussion as new studies indicated that lightning could strike much further from a thunderstorm than previously thought. One 3-D simulation of actual lightning data showed a single bolt 60 km long in the Fort Worth area!

On Wednesday, the annual Awards Luncheon is held, and it's more than just good food shared with friends. We recognize groups and individuals who have worked hard to improve the world of meteorology either through research or community involvement. After the awards we sat back with a cup of coffee and listened to our invited speaker, meteorologist Joseph D'Aleo, who gave an excellent presentation explaining his theories behind Global Warming. He showed that it's part of a much more complex climate change system, much more natural than reported and can be tied to land use, ocean and solar cycles and not just greenhouse gases. Mr. D'Aleo was the first Director of Meteorology for The Weather Channel and is currently the senior meteorologist at WSI. You can find his knowledge online under the name of his alter-ego Dr. Dewpoint at www.intellicast.com.

The thing that draws me back each October is the growing number of friends I have made and kept in touch with through the years and the wonderful atmosphere that surrounds the NWA Annual Meeting...see you in Jacksonville in October 2003! Happy Holidays!

Send your thoughts to me at skyeeye@fuse.net.

- Rich Apuzzo

Chair, Broadcast Meteorology Committee

NWA COUNCIL APPROVES STRATEGIC PLAN

The NWA Council approved the updated Vision and Strategic Plan in October 2002:

NWA VISION

A premier professional organization that is indispensable to the operational meteorology community.

NWA STRATEGIC PLAN

1. INCREASE SIZE AND DIVERSITY OF MEMBERSHIP BY IMPROVING RECRUITMENT AND RETENTION.
2. FORGE A LEADERSHIP ROLE IN TECHNICAL TRAINING FOR PROFESSIONAL FORECASTERS AND THE COMMUNITIES THEY SERVE.
3. BECOME A LEADER IN DEVELOPMENT OF POLICY STATEMENTS RELATING TO OPERATIONAL METEOROLOGY.
4. MAINTAIN ORGANIZATIONAL FOCUS ON PROMOTING NEW FORECASTING TECHNIQUES AND TECHNOLOGY.
5. CONTINUE TO BE A LEADER IN FACILITATING PUBLIC / PRIVATE METEOROLOGY INTERACTIONS.
6. MAKE ANNUAL MEETINGS THE PREMIER FORUM FOR OPERATIONAL METEOROLOGY.
7. FOSTER INCREASED COOPERATION BETWEEN THE OPERATIONAL METEOROLOGICAL COMMUNITY AND THE ACADEMIC / RESEARCH COMMUNITIES.
8. IMPROVE THE ORGANIZATION INFRASTRUCTURE.
9. ENHANCE THE QUALITY AND READERSHIP OF NWA PUBLICATIONS.
10. ENSURE FINANCIAL STABILITY AND PLANNING.
11. DEVELOP LEADERSHIP AND SUCCESSION PLANNING.

The next step is to develop a detailed Implementation Plan. Strategic Plan goals **1, 4, 9, and 11** will be given priority. The NWA Strategic Planning Committee will work closely with the NWA Council on developing this Implementation Plan.

- Frank Brody

Chair, Strategic Planning Committee

NWA ANNUAL AWARDS 2002

The awards were presented by President John McLaughlin at the 27th Annual NWA Meeting Awards Luncheon on 23 October 2002 at the Radisson Plaza Hotel in Fort Worth, Texas. Special thanks are due to the NWA Awards Committee, chaired by Andy Horvitz. He announced each winner and their accomplishments. A summary follows:

Individual Operational Achievement Award:

Patrick T. Welsh, NWS Forecast Office, Science and Operations Officer, Jacksonville, FL.

For leadership in applied research, technology development and collaboration with local agencies to enhance the quality of NWS products and services to emergency managers, water management districts and the public.

Group Operational Achievement Award:

Patrick Murphy and John Taylor, NWS Forecast Office, Syracuse, IN.

For outstanding radar analyses and timely and accurate warnings for the citizens of Northern Indiana on October 24, 2001 during a rare severe weather outbreak that included ten tornadoes.

Broadcaster of the Year Award:

Lori Pinson, Chief Meteorologist, WBFF-TV, FOX 45, Baltimore, MD.

Through outstanding weathercasting, outreach teaching and "Signed Weather" she has distinguished herself informing and educating television viewers and students on the science of meteorology and how it affects their daily lives.

T. Theodore Fujita Research Achievement Award:

Norman W. "Wes" Junker, NWS/NCEP Hydro-meteorological Prediction Center, Camp Springs, MD.

For outstanding applied research in heavy precipitation analysis and forecasting and for providing significant contributions to operational meteorology through his examples in daily forecasting duties, authoring many professional papers and in leading numerous training workshops within the NWS and in regional, national and international professional meetings.

The Walter J. Bennett Public Service Award:

The South Plains Storm Spotting Team of Lubbock, Texas
In recognition of the team's hard work and dedication in assisting the Lubbock NWS Forecasting Office for over 20 years in providing life-saving severe weather warning services to the citizens of the Texas Panhandle. The Award was accepted by Dan Smith, Chief Scientific Services Division, NWS Southern Region for later presentation in Lubbock, Texas.

NWA Member of the Year Award:

G. Alan Johnson, NWS Forecast Office, Slidell, LA.

For his outstanding contributions to the NWA as an exemplary charter member and for his great work on many committees, for continually recruiting new members, and for his positive impacts to operational meteorology as a mentor in training numerous operational forecasters.

Public Education Award:

Lori Painter, Teacher, Monroe Elementary School, Enid, OK.

For her dedication to teaching and her innovative uses of real-time weather data in teaching students to solve problems, think critically and communicate effectively, empowering them to become effective and contributing members of our information-based world.

Aviation Meteorology Award:

The Federal Aviation Administration's Aviation Weather Research Program (AWRP), Washington, D.C.

For funding research, development and phased implementation of convective weather and icing potential forecast displays, a user-friendly dissemination system and an improved prediction model, with many partner organizations, for the safe and efficient flow of air traffic well into the future. Gloria Kulesa, Team Leader for the Aviation Weather Research Program accepted the award.

The Larry R. Johnson Special Award:

Iowa Environmental Mesonet at Iowa State University, KCCI-TV and NWS Forecast Office, Des Moines, IA.

For development and implementation of a real-time data collection and dissemination, weather observing, network partnership to improve educational resources, forecasts, warnings and climatological services for the citizens of central Iowa.

Local Chapter Award:

The Southern New England NWA Chapter

For significant educational and research contributions to the local community, greatly enhancing communication among all people interested through meetings addressing challenging operational meteorological and hydrological issues impacting southern New England. Eleanor Vallier-Talbot, the chapter Vice-President, accepted the award.

A Special Lifetime Achievement Award:

Vernon F. Dvorak, retired from NOAA/NESDIS and now resides in Ojai, CA.

For pioneering research in satellite meteorology and for the development of the "Dvorak Technique" used throughout the world for determining the location and intensity of tropical cyclones from satellite imagery. Gary Ellrod accepted the award on behalf of Vern.

Congratulations again to all annual award winners and thanks to the people who took the time to send in a nomination. Nominations are due by 30 June each year. See more awards on page 4.

– John McLaughlin

SOL HIRSCH NWA EDUCATION FUND GRANTS AWARDED

At the 27th Annual Meeting, the Education Committee Chairperson, Sol Hirsch, announced the recipients of the year 2002 Education Fund Grants named in his honor. The \$500 Grants were awarded to:

Mary W. Altus, Brennan Elementary School, Columbia, South Carolina. Ms. Altus has found that weather topics help her to be very successful in teaching English as a Second Language each year to a group of at least 35 students in grades K-5. Students have first-hand experience with weather and enjoy relating the weather in South Carolina to the weather in their home countries. The Education Fund grant will help purchase basic meteorological equipment for the students to learn additional skills and knowledge as they make observations, analyze the data, make short predictions and present their findings to the entire school and over the Internet to e-pals in their home countries.

Barbara A. Doughty, Saint Mary Elementary School, Norwalk, Ohio. This small school has difficulty in acquiring resources and needs help in completing plans for an outdoor learning center. The Education Fund grant will help Ms. Doughty purchase weather equipment and associated classroom materials to enhance science, math and language arts curriculum. The project will reach all K-8 students bringing a greater awareness of atmospheric science and how weather affects our lives. A desired outcome is an increase in the number of students receiving top ratings in Science Fair projects. An added benefit is expected to be an increase of students taking upper-level science and math courses as they advance to high school.

James F. Dowling, Reading Muhlenberg Area Vocational School, Reading, Pennsylvania. As an electronics instructor, Mr. Dowling proposes to have his students and those in related courses plan and construct a remote weather station. The Education Fund grant will be used to purchase weather equipment not practical for the students to manufacture. Students will later use the remote weather station and its data in a wide range of vocational learning activities and also acquire professional skills of teamwork, project management, research and presentation.

Shannon Kleweno, Cedar Creek Elementary School, Olathe, Kansas. Cedar Creek Elementary is a new school in its fifth year of operation and many instructional resources are still needed. The school also uses the DASH (Developmental Approaches in Science and Health) program and is in need of resources for the second area of learning, Time, Weather and Sky. Ms. Kleweno and her associates will use the Education Fund grant to build a weather station in an outdoor learning center for the use of students in grades K-6. The weather station and related materials will help increase students' awareness of weather and to develop their math and science skills.

Rebecca J. Petrey, Kairos Academy, Newark, Ohio. Kairos Academy serves dyslexic children in grades K-8. A hands-on, multisensory approach to learning is used throughout the entire curriculum. The Education Fund grant will be used to build a weather station and purchase associated classroom materials to offer hands-on experiences for children in all grades. This will allow the science program to be enhanced and will also help children build self-esteem in a challenging unit program on weather. The Old Town West Community Park adjacent to the school will house the weather station and other learning activity components. Local foundation donations and PTA fundraising will help complete the park as an outdoor learning center.

OHIO STATE UNIVERSITY STUDENT WINS THE NWA METEOROLOGICAL SATELLITE APPLICATIONS AWARD

Stephanie Bergman, an undergraduate student in the Atmospheric Sciences program at The Ohio State University in Columbus, Ohio, was selected as the winner of the NWA Meteorological Satellite Applications Award for 2002. Her superb work was well described in an excellent undergraduate paper, "*Deriving Precipitation Fields from IR Observations of Cloud Temperatures and Comparing Them to Radar and Station Data.*" She authored the paper while participating in the NASA-Goddard Space Flight Center Institute for Hydrological and Atmospheric Sciences. Stephanie received a plaque and a check for \$500 for winning this award, which was sponsored by Frances C. Parmenter-Holt, a proponent of the use of meteorological satellite data in applied research and in operational weather analysis and forecasting.

NCEP and AVIATION WEATHER CENTER EARN FAA AWARD

The NWS National Centers for Environmental Prediction (NCEP) in Camp Springs, Md., and its Aviation Weather Center (AWC) in Kansas City, Mo, are recipients of the Federal Aviation Administration's (FAA) **Excellence in Aviation Award** for 2002. The AWC was cited for its contribution to the FAA's Aviation Weather Research Program, which was organized to generate more accurate and accessible aviation weather observations, warnings and forecasts. Other 2002 recipients include: NOAA's Forecast Systems Laboratory and National Severe Storms Laboratory; the National Center for Atmospheric Research; MIT Lincoln Laboratories; Naval Research Laboratory; University of Quebec at Montreal; University of Alaska at Fairbanks; San Jose State University; and Oklahoma State University. The Excellence in Aviation designation is a competitive, non-monetary award presented each year to individuals and/or institutions that show how their past research benefits the aviation community today. The FAA employs the award to recognize significant accomplishments in aviation-related research and to highlight the benefits of research activities.

- NOAA Public Affairs

MEETINGS OF INTEREST

• **SECOND ANNUAL SOUTHEAST SEVERE STORMS SYMPOSIUM** will be held 17-19 January 2003 at the Mississippi State University in Starkville. It is sponsored by the East Mississippi Chapters of the NWA and AMS and the Mississippi State University Department of Geosciences. This symposium will deal with the current challenges of forecasting all types of severe weather in the Southeastern United States.

Registration and general information is on the Web site: <http://www.msstate.edu/org/nwa/symposium.htm>. Meeting presentations on all aspects of severe weather in the Southeast, including winter weather, severe and tornadic thunderstorms, tropical systems and hurricanes, mesoscale systems, severe weather climatology, storm spotting, and broadcasting coverage of severe weather events are encouraged. **Abstracts are due by 31 December 2002.** For further information, please contact one of the following: David Nussbaum: tel: 662-325-8417, e-mail: davidjnussbaum@hotmail.com; Dr. Michael Brown: tel: 662-325-2906, e-mail: mebrown@ra.msstate.edu; or Dr. Mark Binkley: tel: 662-325-0939, e-mail: binkley@geosci.msstate.edu

• **The American Meteorological Society's 83rd Annual Meeting and Exposition will be held in Long Beach, California, 9-13 February 2003.** The NWA is cosponsoring conferences and symposiums at this meeting related to operational meteorology: The Symposium on the Fujita Scale and Severe-Weather Damage Assessment, Symposium on Observing and Understanding the Variability of Water in Weather and Climate, Symposium on Impacts of Water Variability: Benefits and Challenges, 19th International Conference on Interactive Information and Processing Systems for Meteorology, Oceanography and Hydrology, 17th Conference on Hydrology, 12th Conference on Satellite Meteorology and Oceanography, Coastal Environments Symposium on Developments in Operational and Research Coastal Oceanography and Meteorology. The complete program and registration information are online at Web site: <http://www.ametsoc.org/AMS>.

• **THE AMERICAN METEOROLOGICAL SOCIETY'S 83RD ANNUAL MEETING AND EXPOSITION** will be held in Long Beach, California, 9-13 February 2003. The NWA is cosponsoring conferences and symposiums at this meeting related to operational meteorology: The Symposium on the Fujita Scale and Severe-Weather Damage Assessment, Symposium on Observing and Understanding the Variability of Water in Weather and Climate, Symposium on Impacts of Water Variability: Benefits and Challenges, 19th International Conference on Interactive Information and Processing Systems for Meteorology, Oceanography and Hydrology, 17th Conference on Hydrology, 12th Conference on Satellite Meteorology and Oceanography, Coastal Environments Symposium on Developments in Operational and Research Coastal Oceanography and Meteorology. The complete program and registration information are online at Web site: <http://www.ametsoc.org/AMS>.

• **THIRD ANNUAL NATIONAL SEVERE WEATHER WORKSHOP** will be held 27 February - 1 March 2003 in Norman, OK. The event is sponsored by the National Weather Service, the Central Oklahoma AMS/NWA Chapter, and the Oklahoma Emergency Managers Association. Severe weather experts from across the nation will present the latest techniques for severe weather preparedness and response. Speakers will include NOAA and NWS leadership, broadcast meteorologists and emergency managers, as well as forecasters and researchers from NWS offices, the NOAA Weather Partners in Norman, including the Storm Prediction Center, NWS Norman Forecast Office, National Severe Storms Laboratory, Radar Operations Center, Warning Decision Training Branch, and the University of Oklahoma. The workshop will be held at the National Center for Employee Development Marriott Conference Center in Norman, OK. Sponsor and vendor opportunities are available for businesses to promote their products and services during the event. For more information, please call (405) 579-0771 or visit the Web site <http://www.nssl.noaa.gov/nsww/2003>.

• **THE 28TH ANNUAL NORTHEASTERN STORM CONFERENCE** will be held 7-9 March 2003 at the Holiday Inn in Saratoga Springs, New York. It is sponsored by the Lyndon State College AMS/NWA Chapter. **If you are presenting a paper or poster, be sure to send in a one page abstract or summary before 15 January 2003.** Registration deadline for the conference is 15 February 2003. See more information on Web site: <http://apollo.lsc.vsc.edu/ams> or contact Chapter President, Cegeon J. Chan, at Lyndon State College, LSC Box 7408, Lyndonville, VT 05851; e-mail: Cegeon.Chan@lyndonstate.edu; Tel: (802) 626-6642; or Fax: (802) 626-9770 ATTN: LSC-AMS/NWA.

• **SEVENTH ANNUAL SEVERE STORMS AND DOPPLER RADAR CONFERENCE** will commence at 4:00 PM on Thursday, 27 March 2003, and adjourn Saturday, 29 March at 6:00 PM in Des Moines, Iowa. It is sponsored by the Central Iowa Chapter of the NWA. The Embassy Suites in downtown Des Moines will host the event; call (515) 244-1700 for room reservations. **All persons wishing to present materials of relevance should send a 200-word abstract by Friday, 14 February 2003 to:** Central Iowa Chapter-NWA, P.O. Box 7512, Urbandale, IA 50322. E-mail entries will also be accepted at: bkarrick@hearst.com. For further information and to register online, please visit Web site: www.iowa-nwa.com.

• **SEVENTH ANNUAL HIGH PLAINS CONFERENCE** will be held in Hastings, Nebraska in October 2003. It is sponsored by the High Plains AMS/NWA Chapter. Please visit Web site <http://www.highplains-amsnwa.org/> for more information as conference plans develop.

• **THE NWA'S 28TH ANNUAL MEETING** will be held at the Adam's Mark Hotel in Jacksonville, Florida during the period 18-23 October 2003. The Call for Abstracts and registration information will be published in the NWA Newsletter and on the NWA Web site (www.nwas.org) in early 2003. Information can also be obtained from the NWA Executive Director's office at (434) 296-9966 or NatWeaAsoc@aol.com.

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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.

MEMBER NEWS

The following two NOAA career Senior Executives were selected for the 2002 Presidential Rank Awards in the Meritorious Category.

JOHN J. KELLY Jr., Director of the NWS, has molded the NWS into a customer-focused, employee-empowered, results-driven organization. The 2001 Government Performance Report, evaluating 27 federal agencies over three years, gave the NWS straight "As" in every category — the only organization to receive this top rating. In guiding the NWS modernization initiative, he provided the mid-course direction required to get to the point of operational delivery. Realizing that emerging research would extend forecasts to seasonal and inter-annual time scales, Jack secured the required resources and implemented the cultural, policy and procedural changes needed to transition NWS to a weather and climate service.

DR. JAMES E. HOKE, chief of the NWS/NCEP, Meteorological Division in Camp Springs, MD., is honored for developing and implementing a state-of-the-art model of the atmosphere that, for over 10 years, served as a basis for every U.S. weather forecast. He transformed his organization into a more efficient, science-based provider of an increasing number of high-impact weather products and services. As a result, NOAA now produces more accurate weather forecasts that are more accessible to government agencies, the media, private sector, academia, and the public. Jim has been a major force in improving weather support to NASA, mitigating airline weather delays, and providing effective response during national and international disasters.

NWA E-JOURNAL

The *Electronic Journal of Operational Meteorology* is sponsored by the NWA Weather and Forecasting Committee. The e-journal goal is to provide a Web-based venue for the speedy publication of operational meteorology and related topics with an emphasis on forms of media that are best shown via the Web (e.g., image loops and color images). The scope and peer review of "e-papers" will be similar to that of "Technical Notes" in the NWA *National Weather Digest* and may encompass any topic relevant to operational hydrometeorology.

Papers submitted to the *Electronic Journal* should be sent to editor Jeffrey Craven at jeffrey.craven@noaa.gov. Submissions can be on 3.5" disks, e-mail, or e-mail attachments. A URL may be sent instead if the article is already coded in HTML on a Web server. Images should be in either .jpg or .gif format. Other electronic file transfer (e.g., ftp) instructions are available upon request. Further instructions for authors are online at <http://www.nwas.org/ej/inst.html>

Here is a listing of NWA *E-Journal* articles currently available at <http://www.nwas.org/ej>

2002 Articles

- Red Boiling Springs Flood of June 23, 1969
By Mark A. Rose (12-9-2002)
- Unusual Tornadoes Associated with Hurricane Michelle
By Russell L. Pfost (9-23-2002)
- 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
By David G. Biggar (7-26-2002)
- Convective Downburst Potential Using GOES Sounder Derived Products
By K. L. Pryor, G. P. Ellrod, and A. A. Bailey (4-16-2002)

2001 Articles

- WSR-88D Review of a Downburst-Producing Thunderstorm Induced by a Westward-Moving Outflow Boundary
By M. A. Rose and B. Boyd
- Convective Initiation Within a Warm Sector Cloud Band
By P.S. Market, S. N. Allen, C. E. Halcomb, M. D. Chambers, C. W. Ratley, B. Bailey, N. Mikulas, L. Pacini, M. Stueve, S. Parsons and A. Kunz
- Extended Forecast Verification at the Weather Forecast Office at Nashville, Tennessee
By M. A. Rose, S. Dickson and D. Massie
- A Comprehensive Heavy Precipitation Climatology for Middle Tennessee
By T. W. Troutman, M. A. Rose, L. M. Trapasso and S. A. Foster

2001 Forecasting Tools and Techniques

- Comparing Numerical Model's Days 3, 4, 5, and 6
By J. A. La Rue
- A Quick Reference Guide for Operational Forecasting Papers
By J. D. Gordon

2000 Articles

- An Overview of a Cool Season Tornadoic Supercell Over Central Mississippi
By A. E. Gerard, G. R. Garrett and C. Morgan
- An F3 tornado in Heidelberg, South Africa on 21 October 1999
By E. de Coning, B. F. Adam, A. M. Goliger and T. van Wyk

2000 Forecasting Tools and Techniques

- Determining WSR-88D Precipitation Algorithm Performance Using the Stage III Precipitation Processing System
By G. J. Story
- Model Comparison For 60 Hours to 6 Days
By J. A. La Rue

Send in local chapter news at anytime to NewsletterNWA@aol.com See chapter Web sites on www.nwas.org

LOCAL CHAPTER NEWS

The **Arkansas NWA Chapter** met on 27 September 2002. Chapter President George Wilken presented the first part of a two-part series of discussions on "Global Change (Global Warming)." George spoke about the main causes of what is perceived to be a global warming scenario for the globe. He talked about how clouds control the heat budget of the Earth and how important that is to the overall temperature processes. He then spoke of the "Greenhouse Effect" and of the various greenhouse gases that are produced by the Earth's population. Since the Industrial Revolution, the use of fossil fuels has dramatically increased, along with the carbon dioxide produced from these fuels. Other gases such as methane and chemicals such as the CFCs have also added to the problems. Processes generated by nature, such as forest fires and volcanic eruptions, were also mentioned. The proof of global warming has been illustrated from data taken from ice cores, sea bottom cores, tree rings and regularly gathered climatic information. All signs point to a continuing increase in the level of carbon dioxide and, therefore, the continued global warming process.

At the 17 October 2002 meeting, George Wilken continued the discussion, offering the "Effects and Remedies" for global warming. He described the effects on wildlife and their habitat, agriculture, glaciers, and mankind, among other things. A discussion occurred on remedies that could be considered and enacted at the government, business and individual levels to help mitigate global warming. Solutions identified included reduced use of fossil fuels, the purchase of energy-saving appliances, recycling and a myriad of others.

- Newton Skiles, *Corresponding Secretary*

The **Three Rivers Chapter** at the California University of Pennsylvania had the pleasure of hosting Richard Kane, the Warning Coordination Meteorologist for the NWS Forecast Office in Pittsburgh, on 30 October 2002. Two other lead NWS forecasters accompanied Rich. Rich gave a presentation on the 31 May 2002 severe weather event, which occurred in Southwest Pennsylvania. The hardest hit area was West Mifflin where Kennywood Park is located. The event wreaked havoc at the park, caused a death and multiple injuries when an amusement ride collapsed due to the strong winds. At the time, there were competing views between the public and the NWS as to whether or not the storm produced an actual tornado. Rich showed evidence to support the NWS' original assertion that it was indeed a macroburst.

Rich Kane's discussion and presentation allowed all in attendance to gain an understanding of the storm's dynamics and to see why it was classified as a macroburst, rather than a tornado. He also showed pictures of the damage path and explained why the debris pattern did not represent a tornadic situation. A total of sixty faculty, students, members of the public and media were in attendance for this meeting.

The Three Rivers Chapter was energized by the event, is preparing for other guest speakers in the spring semester and planning the Third Annual Symposium for the Atmospheric Sciences. The Symposium will take place at the California University of Pennsylvania on 4 April 2003.

- Kevin Colaizzi, *Corresponding Secretary*

JOB CORNER

The NWA posts jobs from equal opportunity employers at no cost for the benefit of NWA members. Please see the Job section on the NWA Web site (www.nwas.org) for complete announcements and job links. Members who do not have Internet capability may request announcements from the NWA office at (434) 296-9966.

The U.S. Nuclear Regulatory Commission, which is responsible for safeguarding the civilian use of nuclear power and materials, has an opportunity available in Rockville, Maryland: Physical Scientist (GS-13); Salary Range: \$66,229 - \$86,095 Vacancy Announcement: #NRR/DSSA-2003-0019. Candidate selected will be responsible for performing evaluations and making recommendations regarding the acceptability of atmospheric sciences portions of applications for permits, licenses, license amendments, and other regulatory matters; representing the NRC in public meetings with licensees and in peer scientific meetings on atmospheric sciences and its interface with radiation dose, toxic gases, engineering, and environmental issues. Will also be responsible for evaluating and providing advice and guidance on the adequacy of, identifying the need for, and participating in the development and revision, as necessary, of analytical models, assumptions, acceptance criteria, guidance, standards, and calculational methods for determinations and evaluations of effects on the public, facility personnel, and the environment resulting from postulated accidents, operational events, and normal operation due to possible interactions between atmospheric processes and facilities, and facility operation and the atmosphere. Applicants should possess a Bachelor's degree in Atmospheric Sciences, a general physical science discipline with emphasis in atmospheric sciences, or an equivalent combination of education, training, and experience that includes knowledge of the theories, principles, and practices in the field of atmospheric sciences, including atmospheric processes involved in modeling atmospheric dispersion and transport characteristics of airborne effluents; meteorological instrumentation and data collection procedures needed for evaluation of atmospheric dispersion characteristics, air quality, and environmental effects; local meteorology related to normal, extreme, and severe weather; and regional climatology. Recent experience associated with a regulatory program focused on safety is preferred. Experience with nuclear facility meteorological applications is a plus. For a detailed job description and to apply on-line, please visit our Web site at: www.nrc.gov/who-we-are/employment.html and refer to the corresponding Vacancy Announcement #. To enter your resume into the system, simply prepare it using WordPerfect, Word, or another commonly used program (please reference Dept. A-2418 in your resume), then copy and paste your resume into NRCareers. On-line applications will be accepted through 17 February 2003. U.S. Nuclear Regulatory Commission EOE. U.S. Citizenship Required.

METEORLOGIX, LLC, has an immediate opening in its Meteorological Operations Division in Lexington, Massachusetts, a northwestern suburb of Boston. Met Ops is a 24 x 7, state of the art forecasting team that utilizes its own pioneering, in-house technology to create custom forecasts for its clients. The meteorologists have access to the most advanced equipment and the most complete data sets available. Meteorlogix can offer those with the proper credentials the opportunity to be part of the best forecasting team in the business. A Bachelor's degree in Meteorology or Atmospheric Sciences is the essential first step in applying. Members of the forecast operations staff must display keen synoptic analysis and forecasting skills. Excellent computer skills are essential. Rotating shift-work is a requirement for this position. Meteorlogix offers excellent benefits including: health/dental insurance plan, life and disability insurance, flexible spending account, and a 401(k) plan. To be considered for this position, please send your detailed resume to: Meteorlogix, LLC Attn: Human Resources, 11400 Rupp Drive, Burnsville, MN 55337-1279; Fax: (952) 882-4500; e-mail: careers@meteorlogix.com See Web site: www.meteorlogix.com for more information.

3D RESEARCH CORPORATION is looking for weather observers for full-time and part-time positions at Eglin AFB, Florida. Observing operations are on a 24/7 basis at Eglin AFB. Qualified candidates must have a minimum of 2 years of operational observing experience using both automated and manual observing equipment. Candidates must also have a minimum of 1 year experience using either AMIS or NTFS and be a graduate of a military weather school. 3D Research offers competitive salaries, an excellent 401k plan, bonus potential, and a company benefits plan. Candidates should be able to start immediately, if hired. Please send a resume of qualifications to: Rocco Calaci, 923 Holbrook Circle, Fort Walton Beach, FL 32547 Tel: 850-315-1021; e-mail: rjasm99@cox.net

HOMETOWN FORECAST SERVICES, INC. Position Available: Part time broadcast meteorologist for weekend and vacation shift coverage. Company: Hometown Forecast Services, Inc. Location: Nashua, New Hampshire. Position requires a degree in Meteorology as well as at least 6 months on-air experience. Position requires early morning, holiday and weekend work. Work required includes preparing and presenting forecasts for HFS' clients in written, recorded and live form. Stations are located across the continental U.S. and in the Caribbean. Please e-mail or mail your demo and resume to: Rob Carolan, Hometown Forecast Services, Inc., 1 Chestnut Street, Suite 3 N, Nashua, NH 03060. E-mail: rcarolan@hometownforecastservice.com

ACCURATE ENVIRONMENTAL FORECASTING, INC. is now seeking an atmospheric scientist experienced in numerical weather modeling and prediction to begin immediately. The successful candidate should have a solid background in atmospheric dynamics and experience in numerical weather modeling. A Ph.D. in the atmospheric or a related science, or an M.S. with 2 - 4 years of additional experience working with weather models and a demonstrated ability to perform independent research and model development is required. Candidates with experience in model development and applications, numerical techniques, medium-range weather prediction and climate modeling are strongly encouraged to apply. Desirable qualifications include good communication skills, excellent problem solving skills, experience with FORTRAN programming, and a working knowledge of UNIX. AEF offers a competitive salary, health and dental benefits, life insurance, disability insurance, bonuses, a 401(k) retirement plan, and a coastal office setting along the shores of beautiful Narragansett Bay in Rhode Island. Salary and employment opportunities will be commensurate with the candidate's education and experience. For more information, please visit Web site: www.accufore.com. Please send resumes to info@accufore.com, by fax to 401-788-9034, or by mail to: Accurate Environmental Forecasting, Attn: Human Resources, 165 Dean Knauss Drive, Narragansett, RI 02882.

NATIONAL WEATHER ASSOCIATION
1697 CAPRI WAY
CHARLOTTESVILLE VA 22911-3534

THE WEATHER CHANNEL® is seeking outstanding candidates to fill potential future openings for behind-the-scenes meteorologist positions. Proficiency in weather analysis and forecasting is a necessity. Optimum qualifications include a Bachelor's degree in Meteorology or equivalent educational background plus at least 3 years full-time operational experience, or a Master's degree plus at least one year of operational forecasting experience. Other necessary attributes include strong communication skills (written, oral, and listening), leadership ability, computer expertise, and experience with TV weather graphics. All of the following are also essential: working well in a team environment, strong interpersonal skills, being open to change, creative thinking, self-initiative, attentiveness to detail, flexibility, and the ability to focus on customer needs and meet critical deadlines. Weekend, night and/or early morning work may be required to help support our 24 hour a day, 7 day a week operation. The Weather Channel's forecasts and other weather information are now received by consumers via numerous distribution platforms. The meteorological staff now numbers well over 100 including several top experts in the field. If you'd like to join our team, please send your resume to Kathy Strebe, Director, Operational Weather Graphics, The Weather Channel®, 300 Interstate North Parkway, Atlanta, GA 30339. No phone calls please. EOE.

IMPORTANT DATES AND EVENTS

31 December 2002 – Ballots for election of officers/councilors are due back to the NWA office. Members who did not receive dues invoices and ballots by 1 December should contact the NWA office at (434) 296-9966 or NatWeaAsoc@aol.com

17-19 January 2003 – Second Annual Southeast Severe Storms Symposium at Mississippi State University

9-13 February 2003 – The American Meteorological Society's 83rd Annual Meeting in Long Beach, California

Please see MEETINGS on page 5 for further information.

**National Weather Association –
Supporting and Promoting Excellence in
Operational Meteorology and Related
Activities since 1975**