

PRESIDENT'S MESSAGE

by *Les Lemon*

This President's letter will be my last as the current President. It has been a pleasure to serve the organization, as I have been able to. The elected position of President is not a "figurehead" job, but is one that requires attention and work. Owing to the demands of my regular occupation and its associated travel, I fear I have not been able to give to the association all that it deserves. Moreover, this year has been a real challenge to all of us as we have seen our country attacked on its own soil and thousands of our civilian population have died at the hands of terrorists. We have also been subjected to continuing terrorist threats in this country and abroad. But, despite all this and my own limitations I have been privileged to serve you to the best of my ability in these trying times. I have found the organization to be a healthy one and one that is serving its constituents and the general public under extraordinary conditions.

As you all know by now, we had a very successful annual meeting despite all the limitations to travel and even the fear of losing our own lives to terrorist attacks. The success of the 26th Annual Meeting in Spokane, Washington was due to the very hard work of the Program and Local Arrangements committees there, headed by John Livingston. I am greatly in debt to John, to our fine and hard working Executive Director, Kevin Lavin, and to the NWA Council. Special thanks to Vice President Paul Croft, Secretary Ruth Aiken and councilors Mark Binkley, Rodger Brown, John Jannuzzi and Frances Parmenter-Holt for completing terrific work as elected Council members. Their terms expire at the end of the year.

Looking back on the year, operational meteorology has had many successes much do to our members and others working together to provide the best possible support to each other, to a growing number of clients realizing the value of weather services and to a more informed public. To help promote excellence in operational meteorology and related activities, we honored many individuals and organizations through our annual awards program, education fund grants and scholarships. Lets do more of that next year! Begin now by renewing your commitment to excellence and please nominate an individual or organization for the many awards available.

In 2001, we also mourned the loss of some very talented and dedicated NWA members: Loren Crow, Tom Lockhart and Don Pittman. We also heard of others stricken with health problems that we'll remember often in our thoughts and prayers.

Please also remember two US Navy aerographer's mates that were killed in the 9/11 terrorist attack on the Pentagon: AG1 Edward Thomas Earhart, 26, of Salt Lick, KY and AG2 Matthew Flocco, 21, of Newark, DE. Two NWA members, Michael Lee and Sean Nolan, survived the terrorist attack on the World Trade Center and our best wishes go to them in their difficult work in the NY City Mayor's office of Emergency Management.

NWA committee work during 2001 was outstanding and on behalf of the NWA Council, I thank all committee members for their superb voluntary efforts. Space and time does not permit me to mention all committee work, but please browse the NWA Web site committee pages to see many of the accomplishments and future plans. Of special note — the NWA Aviation Weather Committee's online education outreach program concerning convective storms and flying, has had a marked impact on aviation training and NWA plans for future outreach efforts. NWA Web site hits increased dramatically due to this online course and it has garnered many awards as noted later in this Newsletter.

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⇒ IMPORTANT DATES ⇐

13 – 17 January 2002 Interactive Symposium on AWIPS, at the AMS Annual Meeting at the Convention Center, Orlando, FL. Co-sponsored by NWA. See July Newsletter and Web site: <http://ams.confex.com/ams/annual2002/AWIPS/program.htm>

15 – 17 February 2002 1st Southeast Severe Storms Symposium at Mississippi State University hosted by the East Mississippi NWA/AMS Chapter. See page 5

1 – 2 March 2002 2nd Annual National Severe Weather Workshop, Norman, OK. Sponsored by NWS, Central Oklahoma Chapter of the AMS/NWA. See page 5.

8 – 10 March 2002 27th Annual Northeastern Storm Conference in Saratoga Springs, NY, hosted by the Lyndon State College AMS/NWA Chapter. See page 5.

21 – 23 March 2002 6th Annual Severe Storms and Doppler Radar Conference in Des Moines, IA, hosted by the Central Iowa NWA Chapter. See page 5.

19 – 25 October 2002 27th Annual NWA Meeting, Radisson Plaza Hotel, Fort Worth, Texas. See page 5.

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Needless to say I am very proud of our Aviation Committee and those members who produced the online courses. Indeed, I know that all of our membership is very proud of these men and women who have accomplished so much in such a short time. Their names may be found on our Web site. The Weather Analysis and Forecasting committee continued to review and add articles to the *Electronic Journal of Operational Meteorology* and links to many other information sources on the Internet. They also organized a Downburst Symposium at the Annual Meeting and are working on many projects for regional and national meetings next year. The Education Committee worked overtime in 2001 reviewing a record, 66 applications for the Sol Hirsch education fund grants and the first set of applications (12) for the annual Arthur C. Pike Scholarship in Meteorology. The Broadcast Meteorology Committee continued to excel in supporting national and regional chapter meetings to provide continuing education and training opportunities for broadcasters. They also continued to increase the credibility of the Seal of Approval program and reviewed a record number of written exams and tapes from Seal applicants.

I also thank the Home Page Advisory Committee and volunteer Webmasters for spending long hours maintaining and continually updating the NWA Web site. The Membership Committee continued to send out complimentary newsletters along with applications to organizations and individuals, and both individual and corporate membership continued to increase. All committees continued to keep abreast of news and activities within their subject areas to keep the NWA Council current and to crossfeed information to all members through the Newsletter, Web site and other communication channels.

One doesn't have to be an elected officer or committee member to contribute to the NWA publications, activities or policies/procedures. I thank all who submitted news stories, articles and technical reports for the NWA publications and the attendees/participants at the Annual Meeting. Thanks also to the Local Chapter leaders and members, and congratulations on starting new endeavors in outreach education and regional weather meetings. The NWA publications are still not being published as fast as we would like, but we are working on the many problems involved and may have to increase the number of paid staff. Please continue to submit articles to our volunteer editors who are doing a great job in working the review/editing process and forwarding on the material for publication. We are also reviewing editorial policies/procedures to better handle letters/e-mails to officers and editors – more on this next year. Our new Strategic Planning Committee is also hard at work updating the long-term plans for publication/review in 2002.

It is now my pleasure to turn over the reins of NWA President on 1 January 2002 to an accomplished and talented young man with vision — John McLaughlin, the Chief Weathercaster of KCCI-TV in Des Moines, IA. John is also a private pilot and flying instructor. He is not short on awards either. Many of these were listed in his bio circulated along with the ballots in the December 2000 NWA election. I am certain beyond any doubt that his tenure as President of this organization will be one of many accomplishments. The results of the latest elections for the new additions to NWA Council membership will be posted on the Web site by mid-January and printed in the January 2002 newsletter.

Again, thank you all for your support. It has been my honor to serve you as President of this organization. I wish you all good health, happiness and prosperity in the New Year! Best wishes to the entire operational meteorology community and related fields for continued improvements in all areas of support/services in the New Year!

AVIATION TRAINING NEWS

NWA Recognized for the "Thunderstorms and Flying" Internet Course

The NWA's highly successful "Thunderstorms and Flying" course received two awards from the US Air Force Safety Center (AFSC) at Kirtland AFB, New Mexico. One of these awards was inspired by the success of the Website. The AFSC created that award specifically to recognize ground efforts that impacted flying safety now and in the future. Also, NWA received the "Coin of Excellence," a plaque given by USAF Brigadier General David L. Johnson who is the Director of Air Force Weather. This award was presented to NWA President Les Lemon on behalf of the Aviation Weather Committee at the Annual Meeting in Spokane WA in October 2001. In addition, the Board of Directors of the Allied Pilots Association (APA) issued a proclamation recognizing the NWA for its efforts to improve the weather education of pilots, which is contributing to safer flight operations.

The NWA Aviation Weather Committee launched its first-ever online training course, "Thunderstorms and Flying," on 26 March 2001. It was originally scheduled to run until the end of May 2001. However, the course was extended for an additional two months due to the fact that many more participants joined the course as the lessons progressed. By July 4th, when the interactive part of the course was terminated, more than 2,550 people worldwide had registered to take the course, with many others accessing the material without officially signing up. This was reflected in the two-fold jump in visits to the NWA Web site during the three-month period when the course was active. The course material remains accessible on the NWA web site (www.nwas.org). continued on page 3

Course participants were both civilian and military pilots, with all military services represented, both active and reserve. The participants resided in 21 different countries on 6 continents, illustrating the global reach and power of the Internet as a vehicle for training. The Directors of Training from two different airlines and from the military took the course, as did dispatchers, flight instructors and their students, as well as some forecasters.

Although the "Thunderstorms and Flying" course officially ended in early July, the training material remains available on the NWA web site. Registrations and feedback continue to trickle in, with the most recent contact coming from a pilot in Portugal.

NWA's "Winter Weather and Flying" Internet Training Course Underway

The NWA Aviation Weather Committee's next online training venture is already underway. The "Winter Weather and Flying" course was activated in early December, and will run through March 2002. Its four lessons explore winter weather hazards, beginning with an overview, then shifting to the terminal area, followed by the enroute environment, ending with weather-related accidents and lessons learned. The course material is supplemented with links to many additional sites and sources, and allows the participant to e-mail questions.

NWA Online Aviation Education Earns FAA Endorsement

Beginning with the newest education effort of the NWA Aviation Weather Committee, the online "Winter Weather and Flying" Course, the NWA will be able to hand out certificates to graduating pilots endorsed by the FAA's Aviation Safety Program. Pilots who complete the NWA Internet courses can obtain credit for the ground portion of the FAA's accident prevention "Wings Program." These pilots will be able to qualify for a "check-ride" free year with the NWA certificate and a review ride with an instructor pilot. The NWA has again shown its proactive leadership in aviation education through Internet and seminar outreach programs.

*- Tim Miner and Carolyn Kloth
NWA Aviation Weather Committee*

Submit summaries of new forecasting techniques or other good news for the NWA monthly Newsletter — just send them by e-mail at anytime to NewsletterNWA@aol.com

NWA BROADCAST COMMITTEE

FINE TUNING YOUR PRESENTATIONS

Even after 15 years on the air, I am still trying to improve my forecasting and television presentation skills. The NWA continually stresses the importance of continuing education in the field of meteorology, and while we are improving our weather forecasting skills, we should also be fine-tuning our on-air talents as well. Here are a few weak areas I have seen in the many tapes I have reviewed in recent years.

It seems like most weather anchors have the basics figured out...appropriate attire, conservative jewelry and not too much of it, properly applied make-up that suits your skin type and doesn't wash you out or allow a shine on-air, and a hair style that is neat and does not distract from the overall look. In fact, if there's one thing to remember in your hair, jewelry, clothing or make-up, it is the thought that none of these should draw the viewers' attention to the point of distraction. It's nice to reflect your personality in how you dress, but if that is all your viewers notice, you're taking the focus away from what's important — *the weather story of the day*.

Speak clearly and with a smooth pacing. Remember that you have a limited amount of time on the air, so don't try to put out so much information that you need to race through your presentation. At the other extreme, some people seem to have trouble forming sentences and throw a lot of "uhs" and "ums" in to fill the gaps. If you know your material, then just relax and talk about the day's weather. Remember, you are the weather expert and the folks at home are tuning to you for your thoughts. So just talk about that which you know...**weather!** I used to put so many graphics in a show that my pacing was much too fast. I figured that the more data I put on the air, the better. Well, I solved that by working on an hour-long newscast where I get 4 minutes for weather (insert evil laugh here). Those with a 2 or 2 ½ minute cast simply can't put as much in the show, so focus on what's important for your region while briefly discussing the major national weather features of the day. Remember, be as chronological as possible in your weather presentations, meaning that you should start with climate data, go to current conditions (temps, satellite and radar), and end with the forecast. I know some stations (consultants) think you should start with a forecast, or maybe sponsors require opening with the radar even when there's nothing on it. But, working within those constraints, structure a show that makes sense to the viewers. Even if you are required to put on a show that doesn't flow as well as it should, never give up trying to make small changes which work toward a solid, smooth, and easy to understand presentation. Have fun out there! Send your thoughts to me at skyeye@fuse.net.

- Rich Apuzzo, Broadcast Committee Chair

NWA LOCAL CHAPTER NEWS

The Central Gulf Coast Chapter met on the evening of 13 November 2001 at Ronaldo's Italian Restaurant in Mobile, AL. President Douglas Butts called the meeting to order with the adoption of the old meeting minutes from 18 September 2001. New business included: (1) an open forum on how to increase attendance in future meetings; (2) a discussion on this year's dues; (3) an upcoming vote on how to plan the day, time and location of future meetings and (4) announcement of January's meeting and the upcoming election. After the business portion of the meeting, Mr. Eric Williford of Florida State University (FSU) spoke on the topic of the FSU super-ensemble model and its performance during the 1998, 1999, 2000 and 2001 Atlantic hurricane seasons. He described the techniques used to produce the ensemble, its various output, strengths, weaknesses and future improvements. Mr. Williford closed with how modeling efforts may evolve in the future, as they are being driven by user demands. The next meeting of the NWA Central Gulf Coast Chapter will be held in January 2002. Due to the annual election, there will be no guest speaker. Instead, we will provide refreshments and say yet another farewell to one of our most dedicated local members. President Douglas Butts has accepted a Journeyman Forecaster Position at the NWS Forecast Office in Jackson, MS.

- Jeffrey M. Medlin, Corresponding Secretary

NWA E-JOURNAL

The Weather Analysis and Forecasting committee would like to remind NWA members of the opportunity to publish your research in the **NWA *Electronic Journal of Operational Meteorology***. The goal of the journal is to provide a web-based venue for the publication of operational forecast topics with an emphasis on forms of media that are best shown via the web (e.g., image loops and color images). The *NWA Electronic Journal* is intended to complement the *National Weather Digest*.

As of the end of November 2001, the e-journal has published nine operationally oriented research papers. Two recent articles are "Convective Initiation Within a Warm-sector Cloud Band," written by faculty and students of the meteorology program at the University of Missouri, and "Comparing Numerical Model's Days 3, 4, 5, and 6" by retired NWS meteorologist Jerrold A. LaRue.

The e-journal offers the opportunity to publish fully peer-reviewed papers utilizing figures that would either be cost prohibitive or impossible in traditional paper journals. Additionally, authors may submit more informal work for publication in the "Forecasting Tools and Techniques" section. Submissions should be sent to Jeffrey Craven (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. To view the *Electronic Journal* papers and obtain more information, visit the NWA Web site at www.nwas.org, and click on **The *Electronic Journal of Operational Meteorology***.

- Alan Gerard, NWA Weather Analysis and Forecasting Committee Chair

NEW NWA COMMITTEE CHAIRS

Two key NWA Committees — the **Home Page Advisory Committee** and **Membership Committee** — are changing leaders in January 2002. Both of the outgoing committee chairpersons have donated their time and talents for many years in these important leadership positions.

As Home Page Advisory Committee chairperson, Frank Brody has contributed significantly and positively to the content and appearance of information presented on the NWA Web site. He has led the efforts to advise and help other NWA committees to create Web pages for the NWA homepage. Thanks to his initiative, the NWA homepage is a great source of association information, and helps serve as a significant membership-recruiting tool.

As Membership Committee chairperson, Floyd Hauth has led the recruiting efforts of the NWA for many years. His dedicated recruitment work is reflected in a continual increase in membership growth and retention every year. He is always a positive and informational spokesperson for the NWA, and we are sure Floyd will continue to push NWA membership as he always has.

Chet Henricksen volunteered to be the new chair of the Home Page Advisory Committee. Chet retired from the National Weather Service as Meteorologist-in-Charge of the Philadelphia/Mount Holly Forecast Office and is now a private consultant. He is a charter member of the NWA and a self-professed Internet junkie. We look forward to his Internet insight on the committee.

Alan Johnson volunteered to be the new chair of the Membership Committee. Alan is a Forecaster-in-Charge at the National Weather Service New Orleans Forecast Office in Slidell, LA. He is a NWA charter member, served as a Councilor 1996-1997, worked on many committees and continually led the charge in recruitment of new members every chance he had.

We owe a huge 'thank you' to both Frank Brody and Floyd Hauth for their excellent efforts as NWA committee chairs. We welcome Chet Henricksen and Alan Johnson as new committee chairs, and look forward to their leadership.

- Dave Knapp, NWA Commissioner of Committees

Membership renewals are due for 2002 and please consider recruiting for the member - get a - new member campaign!

LOCAL CHAPTERS SPONSOR REGIONAL MEETINGS

The First Southeast Severe Storms Symposium sponsored by the East Mississippi Chapters of the NWA and AMS, as well as the Mississippi State University Department of Geosciences, will be held at Mississippi State University, Starkville, MS, 15–17 February 2002. Registration and general symposium information is at the Web site: <http://www.msstate.edu/org/nwa>. Presentations on all aspects of severe weather in the Southeast, including forecasting, research, storm spotting, and broadcasting coverage are welcome. The deadline for abstracts is 11 January 2002. Abstracts should be submitted to: Southeast Severe Storms Symposium Committee, Department of Geosciences, PO Box 5448, Mississippi State, MS 39762. For further information contact Chapter President, Ryan Wade at 662-325-8417 or e-mail: cat5hurricane@hotmail.com; Dr. Michael Brown at 662-325-2906 or e-mail: mebrown@ra.msstate.edu; or Dr. Mark Binkley at 662-325-0939 or e-mail: binkley@deanas.msstate.edu.

Second Annual National Severe Weather Workshop will be held 1–2 March 2002 in Norman, OK. The event is sponsored by the NWS, 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 NWS leadership, broadcast meteorologists and emergency managers, as well as forecasters and researchers from NWS offices and the NOAA Weather Partners in Norman, including the Storm Prediction Center, NWS Norman Forecast Office, National Severe Storms Laboratory, Radar Operations Center and Warning Decision Training Branch. 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 or services during the event. More information is available at (405) 579-0771 or at Web site <http://www.nssl.noaa.gov/nsww2002>.

27th Annual Northeastern Storm Conference sponsored by the Lyndon State College AMS/NWA Chapter will be held on the weekend of 8–10 March 2002 at the Holiday Inn in historic Saratoga Springs, New York. Registration deadline for the conference is 15 February 2002. Be on the lookout for more information about the conference on Web site: <http://apollo.lsc.vsc.edu/ams> or contact Chapter President, Jason Furtado at Fax: 802-626-9770, ATTN: LSC-AMS/NWA or by e-mail at ams@xmail.lsc.vsc.edu or jcf01220@xmail.lsc.vsc.edu

Sixth Annual Severe Storms and Doppler Radar Conference sponsored by the Central Iowa NWA Chapter will commence at 5:00 PM on Thursday, 21 March 2002, and adjourn Saturday, 23 March at 10:00 PM. This year, the Embassy Suites in downtown Des Moines, Iowa will host the event. All persons wishing to present materials of relevance should send a 200-word abstract by Friday, 18 January 2002 to: Central Iowa Chapter-NWA, P.O. Box 7512, Urbandale, IA 50322. E-mail entries will also be accepted at: candersn@iastate.edu. For further information see Web site: <http://www.iowa-nwa.com>.

Mid-Atlantic States Winter Storms Regional Conference 4-5 October 2002. The AMS Board for Operational Government Meteorologists, District of Columbia AMS Chapter, AMS Board of Private Sector Meteorology, and the NWA Weather Analysis and Forecasting Committee are co-sponsoring an operations- and community-focused regional conference on Mid-Atlantic Winter Storms to be held in the Washington DC metropolitan area on 4–5 October 2002. The theme of the conference is *"Improving Mid-Atlantic Winter Storm Forecasts, Warnings and Decision Making."* Invited papers will be presented during the conference program in the following areas: Operational Forecasting Techniques and Procedures; Emerging Research and Operational Applications; Communicating and Using Uncertainty; Community Interaction; and Public Awareness and Education. For more information or to provide suggestions to enhance this conference, please contact Major Ken Carey, Air Force Studies and Analyses Agency (AFSAA/SAFM), 1570 Air Force Pentagon, Washington DC 20330-1570; 703-588-8628; e-mail: Kenneth.Carey@pentagon.af.mil or see Web site <http://www.dc-ams.org>.

NEXT NWA ANNUAL MEETING: 19-25 OCTOBER, FORT WORTH, TX

The 27th Annual NWA Meeting will be held at the Radisson Plaza Hotel in Fort Worth, Texas, 19–25 October 2002. The program will consist of both oral and poster presentations, broadcaster and general session workshops, daily weather briefings, and tours to the local aviation facilities. An awards luncheon will be held on Wednesday, 23 October. A call for papers will be posted in the January 2002 Newsletter.

The downtown area of Fort Worth offers many amenities in a clean and safe environment. Numerous excellent restaurants and other attractions are within walking distance of the hotel. Travel to and from Fort Worth is convenient, with The Dallas/Fort Worth International Airport offering nonstop service to 130 cities nationwide. The Program and Local Arrangements Committees welcome you to Fort Worth.

- Mike Vescio, Program Committee Chair

NEW AVIATION WEATHER PRODUCT AVAILABLE

HELPS PILOTS AVOID DANGEROUS STORMS

A new graphic storm-information forecast product for commercial and private pilots is now available through the National Weather Service (NWS) and the Federal Aviation Administration (FAA). Produced by the NWS Aviation Weather Center (AWC) in Kansas City, MO, the new forecast product provides pilots with a plotted map depicting the current location of convective hazards and where they will be within the next hour.

The National Convective Weather Forecast (NCWF) combines NWS' radar mosaics and cloud-to-ground lightning data into a six-color, hazardous-weather depiction. The advanced storm information will make it easier for commercial and private pilots to avoid weather hazards over the United States. The NCWF will be used to complement on-board radar systems that detect small-scale storms that are less hazardous to aviation. Available on the Internet and on weather service information networks, the NCWF is updated every five minutes.

The AWC has been running this forecast as an experimental product during 2000 and 2001. Now operational, the NCWF is expected to provide valuable information to pilots in planning and executing their flight routes.

Sponsored by the FAA's Aviation Weather Research Program as part of the multi-agency Convective Weather Product Development Team, the product was designed and developed by the National Center for Atmospheric Research (NCAR) in Boulder, Colorado, and the National Weather Service. The team was comprised of representatives from Massachusetts Institute of Technology Lincoln Laboratories, the National Severe Storms Laboratory, the Aviation Weather Center and NCAR. The NCWF is the first product to emerge from the FAA's Aviation Weather Research Program that was generated and sanctioned by the weather service.

Pilots, federal aviation weather briefers, air traffic control specialists, and airline dispatchers who routinely make operational decisions associated with thunderstorm hazards will be primary users of the NCWF.

According to the AWC, the NCWF works very well with long-lived mature storm systems, which it was designed to detect. It will also filter out brief, small-scale storms that are not a hazard to aviation or are not likely to persist for an hour. On-board radar equipment and weather service radar images help pilots and controllers detect and avoid those small-scale storms.

The National Convective Weather Forecast may be viewed at <http://cdm.aviationweather.noaa.gov/ncwf>.

- NOAA Public Affairs

AVIATION WEATHER CENTER WEB SITE URL CHANGE

The NWS Aviation Weather Center has recently changed its Web URL from: <http://www.awc-kc.noaa.gov> to: <http://aviationweather.noaa.gov>.

The Aviation Digital Data Service (ADDS) has similarly changed its URL from: <http://adds.awc-kc.noaa.gov> to: <http://adds.aviationweather.noaa.gov>.

SNOWFALL DATA AND MAPS ONLINE

Thanks primarily to a network of more than 11,000 volunteer weather observers across the country, NOAA's National Environmental Satellite and Data Information Service (NESDIS) has placed interactive daily snowfall maps and data online.

Maps of the nation and each state show snowfall for the most recent one-, two-, three- and seven-day period, as well as current snow depth maps of the states and the nation. Users can also access maps showing snowfall for the month to date and the season to date. According to the NOAA/NESDIS National Climatic Data Center (NCDC), the Web site is designed to be very user friendly, offering a wealth of daily, monthly and season-to-date snowfall information.

The snow data are made available from Cooperative Observers across the United States who call in their observations to NWS offices each morning. The data, some dating back to the 1890s, are housed at the NCDC in Asheville, NC. The Web site is available at:

<http://lwf.ncdc.noaa.gov/oa/climate/research/snow/snow.html>

- NOAA/NESDIS Public Affairs

MEMBER NEWS

Congratulations to the following NWA members who have received recognition from the AMS:

Lance F. Bosart -- AMS Teaching Excellence Award
"for enthusiastic and skilled undergraduates and graduate teaching and mentoring of a generation of atmospheric science students."

Kenneth C. Crawford -- AMS Cleveland Abbe Award
"for nearly 40 years of visionary service as forecaster, researcher, teacher, and mentor dedicated to building bridges between operational and research meteorology."

Michael P. Foster -- AMS Award for Exceptional Specific Prediction
"for his forecast and warning of the 28 March 2000 Fort Worth, Texas, tornado which resulted in saving many lives."

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Todd S. Glickman and the Editorial Board, Glossary of Meteorology (2d ed.) – AMS Special Award “for marshalling the energies and talents of hundreds of contributors to produce a reference work of immeasurable benefit to the community.”

Christopher W. Landsea – AMS Editors Award for Weather and Forecasting “for outstanding service through original reviews and thoughtful opinions on controversial manuscripts.”

Eugene M. Weber -- AMS Charles L. Mitchell Award “for five decades of faithful and dedicated service to both the military and civilian weather communities.” Gene has worked for and with Air Force Weather for the past 50 years, starting as an Air Weather Service weather observer in 1951. He retired from Air Force active duty as a Chief Master Sergeant senior meteorologist after 31 years including duty in the Korean and Vietnam wars. Gene continued in government service as a civilian lead forecaster for 16 years at the Air Force Global Weather Central. He is currently employed by SAIC serving as a special consultant to the technical training branch at the Air Force Weather Agency, Offutt Air Force Base, Nebraska.

>> IN MEMORIAM <<

Loren W. Crow (1916-2001), a charter member of the NWA, died in Denver, Colorado on 21 March 2001. He is survived by his wife of 57 years, Frances “Penny” Pemberton; a son, Bruce; a brother, Albert; and, a sister, Velma. He began his operational meteorology career in WW II in the Army Air Forces Aviation Cadet Meteorology program at the California Institute of Technology. He remained there as an instructor for two years and then performed operational forecaster duties in Saipan and Guam for the B-29 bomber crews. In 1946, he joined Dr. Irving Krick’s International Meteorological Consulting Service and later transferred to Krick and Associates working on weather modification and other applied meteorology projects. He became an independent applied meteorology consultant in 1955. Mr. Crow was one of the first meteorologists to take the AMS exams and received the AMS Certified Consulting Meteorologist (CCM) certification #7 in 1959. He was the Special Assistant for Industrial Meteorology in the U.S. Weather Bureau in 1964-1966 defining the public/private working relationship in applied meteorology. He returned to private consulting practice in 1966 and became deeply involved with air pollution and forensic meteorology. He generated over 300 detailed technical reports dealing with applied and/or forensic meteorology. He actively supported professional associations such as the AMS and NWA and was a founder and charter member of the National Council of Industrial Meteorologists (NCIM).

JOB CORNER

(Ed: The NWA lists job openings free from equal opportunity employers for the benefit of members. See the Job section on the NWA Web site: www.nwas.org for more complete details on the following jobs, short notice listings and job links.)

American Electric Power is seeking to add a meteorologist to its Energy Services area. This area trades energy commodities such as natural gas, electric power, and coal. Weather is one of the key drivers to price and changes in the weather forecast have significant ramifications on the immediate direction of future prices. The qualified candidate must possess at least a Bachelors Degree in Meteorology, have excellent communication skills, strong background in Microsoft Office products, the ability to work well with a team, and a passion for the weather. Please send cover letter and resume to: Jeff Manna, Senior Meteorologist, American Electric Power, 14th Floor, 1 Riverside Plaza, Columbus, OH 43215. Or E-mail resume to: jdmanna@aep.com.

Meteorlogix, LLC (formally known as DTN Weather Services/Kavouras) has 2 immediate openings in their Meteorological Operation Division in Burnsville, MN, a southern suburb of the Minneapolis/St. Paul metropolitan area. Met Ops is a 24 x 7, state of the art forecasting team that uses pioneering, in-house technology. The meteorologists have access to the most advanced equipment and the most complete data sets available.

A Bachelor's degree in Meteorology or Atmospheric Sciences is the essential first step in applying. Members of the forecast operations must display keen synoptic analysis and forecasting skills. Excellent computer skills are essential. We have 2 shifts available: The first schedule covers 3rd shift and the other schedule rotates shifts (In your cover letter, please specify which schedule you are most interested in working).

Meteorlogix offers excellent benefits including: health/dental insurance plan, life insurance, flexible spending account, 401(k) plan and an on-site fitness facility. Please send your detailed resume to: Meteorlogix, LLC, Attn: Human Resources, 11400 Rupp Drive, Burnsville, MN 55337-1279; Fax: (952) 882-4500. e-mail: employee.recruiting@dtm.com; Web site: www.meteorlogix.com

California University of Pennsylvania, Department of Earth Sciences is seeking applications for a tenure-track *Assistant Professor of Meteorology* appointment beginning in the Fall semester of 2002. The approximate 9-month salary range for this rank: \$42,578.00 - \$59,911.80). A candidate with a background in the Geosciences is desired. A Ph.D. in a Geoscience related discipline is preferred. A Ph.D. is required by time

of appointment. The department of Earth Sciences seeks an outstanding faculty member to contribute to the existing concentrations in Operational Meteorology, Broadcast Meteorology, and Water Resources. The successful candidate would be asked to teach upper-division courses in meteorology such as: Mesoscale Meteorology, Severe Weather, Tropical Meteorology, Thermodynamics, & Atmospheric Instrumentation. California University of Pennsylvania is an equal opportunity/affirmative action employer. Minorities, women, and individuals with disabilities are encouraged to apply. Also, in accordance with the terms of the collective bargaining agreement between the State System of Higher Education and APSCUF, the successful candidate may be assigned to perform work at off-campus sites, in the evening/weekend college and/or provide instruction through distance education.

Please send a letter of application, full curriculum vitae, official transcripts and military discharge papers (if veteran) and the names, addresses, phone numbers and e-mail addresses of three professional references. Review of the applications begins 25 February 2002. Apply to: Chad M. Kauffman, Ph.D; Chairperson, Search Committee; Department of Earth Sciences; California University of PA; 250 University Ave Box 55; California, PA 15419; e-mail: kauffman@cup.edu.

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Happy New Year!

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