

PRESIDENT'S MESSAGE

by Bill Read

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It is my pleasure to begin serving the Association as your President for 2003. If the efforts of last year's Council are a measure of what is to follow, we will have a rewarding year building the legacy of the NWA. My thanks to John McLaughlin for his leadership, and to the Council for their excellent work in 2002.

I have served on the Council as Vice President, Councilor and President-Elect and have witnessed a number of changes, both in growth and maturing of our Association. *I view — keeping pace with the rapid changes sweeping our profession as operational meteorologists and becoming leaders in advancing positive changes — our top challenges.* My professional background has been as a government meteorologist, first on active duty with the U.S. Navy then primarily in various positions in Forecast Offices with the National Weather Service. I've been a "storm junkie" since elementary school and that continues to be my scientific emphasis.

Given my background, I felt it would be useful to spend considerable time during the past year as President-Elect talking with those of you in areas of our profession different from mine. One of the things I learned is that while the technology changes that are occurring are similar in all aspects of the profession, the cultural/economic/political aspects are often quite different. As my predecessor pointed out on many occasions last year, it is vitally important for us to develop and maintain ongoing communication, coordination and partnerships across the spectrum of public, private and academic pursuits of operational meteorology and related activities. In support of better communication, I will be asking leaders from all segments of operational meteorology to write articles for our Newsletter expressing their vision for the future. I hope the membership will find this an interesting and thought provoking way to further the growth of our Association.

The newly elected officers and councilors will bring fresh energy and ideas to our Association. Please see page 3 for a listing of officers and councilors for 2003. All

of us have e-mail addresses and I encourage the membership to contact us with ideas and questions you may have regarding our work as your elected leaders. We recently approved a new Strategic Plan for the NWA. Now the challenging part begins...implementing it! The Plan helps provide a focus for our work this year. We plan to address progress on the top priority items in the newsletter and on our Web page as we get further into the year.

It is not too early to begin planning for our 28th Annual Meeting set for 18-23 October in Jacksonville, Florida. Now is the time to formulate ideas for presentations, to volunteer to help organize the event, or encourage others to participate that have not had the opportunity to do so. The exchange of ideas at these meetings and the opportunities to develop new friendships within our profession have always been highlights of membership for me. See articles in this and future newsletters for details on the meeting.

Again, I look forward to the challenge of serving our Association. *Here's to a great 2003!*

IMPORTANT DATES AND EVENTS

Have you renewed your membership for 2003?

Have you mentioned NWA membership to a colleague?

27 February – 1 March 2003 – Third Annual National Severe Weather Workshop in Norman, Oklahoma.

7–9 March 2003 – 28th Annual Northeastern Storm Conference in Saratoga Springs, New York.

27–29 March 2003 – Seventh Annual Severe Storms and Doppler Radar Conference in Des Moines, Iowa.

4–5 April 2003 – Third Conference on Isentropic Analysis and Forecasting on the campus of Millersville University.

5 April 2003 – Great Lakes Meteorology Conference at Valparaiso University, Indiana.

15 April 2003 – NWA Scholarship applications due (pg. 5).

18–23 October 2003 – NWA 28th Annual Meeting in Jacksonville, Florida.

Please see **MEETINGS** on pages 6-7 for additional dates.

NWA BROADCAST COMMITTEE

Are You Ready for Severe Weather?

One of the great tenets of the NWA Weathercaster Seal of Approval program is the requirement for continuing education, and I say that primarily because of the enrichment I have enjoyed over the past decade.

We have many demands on our time as broadcasters: making reliable forecasts and exciting and informative graphics to attract viewers, extended hours at the TV station during periods of severe weather, regular public appearances for promotional purposes or for weather presentations at schools, and trying to have a social / family life on top of everything else. So requiring continuing education -- which involves time off and travel -- may seem like a lot to ask on top of family and career, but it's something that can enhance both with a small investment on your part.

You have read my discussions about the NWA Annual Meeting each year. However, if taking 4 or 5 days off is a problem, or if someone else at the TV station already goes to the conference and you're stuck filling in, then I have an excellent alternative, which counts toward the "continuing education" requirement when recertifying the NWA Seal. Check out the [NWA Severe Storms and Doppler Radar Conference](#) held each March in Des Moines, Iowa. It is a shorter get-together than the NWA Annual Meeting and because of that it's less expensive as well. You can get more information and register for the conference at: www.iowa-nwa.com/conferenceinfo.htm.

One thing that is hard to put into words is the experience of attending these meetings. We all face challenges in this business and there's nothing better than spending time with friends and colleagues to lift your spirits while learning about the latest techniques for analyzing and forecasting severe weather, and you're not just talking to other television weathercasters. There are folks from the National Weather Service, Emergency Management representatives, vendors and plenty of college students who will be the meteorologists of the future. If you want to learn about severe weather outbreaks from the past, or look at some great tornado chase videos, it's all part of the 3-day event. Then, after trying to absorb tons of new data and new techniques, you can go back to work ready to create new graphics and look for that first severe weather event so you can test your new skills.

I have attended the Severe Storms and Doppler Radar Conference for the past 4 years and it works wonderfully as a supplement to the NWA Annual Meeting, or as a stand-alone conference. The speakers are top notch and the operation is run smoothly by the members of the Central Iowa chapter of the NWA. NWA President for 2002, John McLaughlin, is a founder of that chapter and he can always be counted on to share his recent studies. I

will be there again this year and I hope to see many of you there too!

It is great to see the Meetings list in the Newsletter and on the Web site especially now that more NWA chapters and other local groups are sponsoring regional meetings. It also challenges our Seal recertification committee to determine which meetings will account for all or what percentage of the continuing education requirement. We are looking into a better system of accounting continuing education units and if you have suggestions, please send your thoughts to me at skyeeye@fuse.net.

- Rich Apuzzo

Chair, Broadcast Meteorology Committee

MEMBER NEWS

Dr. Kenneth C. Crawford, beginning on 1 February 2003, will serve for six months as a Senior Visiting Scientist at the NWS Office of Science and Technology (OST) to help develop a concept for improving the nation's observing system. He will lead the development of a vision and strategy for improving the national observing system that supports climate, hydrology and weather analysis and forecasting. He will also help in developing concepts for a mesonet and cooperative observing system, and focus on improving and creating new partnerships between NOAA and public/private weather observing systems.

"We are extremely pleased to have a person of Professor Crawford's stature helping us develop an improved national observing system," said OST Director Jack Hayes. "His experience with developing observing networks will be very valuable as we look to strengthen the existing observing network as well as partnering with other public and private organizations. More accurate and timely surface observation data will ultimately contribute to improved weather forecast models and short-term forecasts and warnings. One energy study has shown a one-degree improvement in daily temperature forecast accuracy could potentially save consumers one billion dollars per year. Ken's expertise in these areas will be a huge asset to NWS."

Dr. Crawford is Regents' Professor of Meteorology at the University of Oklahoma (OU) and serves as director of the Oklahoma Climatological Survey. He has been a member of the OU faculty and Oklahoma State Climatologist since 1989 where he led the development of the Oklahoma MESONET. Previously, he had a 30-year career with the National Weather Service. He last served as Area Manager for Oklahoma. He was a member of the National Research Council (NRC) NWS Modernization Committee that studied and reported on the Future of the NWS Cooperative Observer Network. He is an AMS Fellow and a NWA past-president (1988). His honors include a Commerce Silver Medal, the AMS Cleveland Abbe Award and NWA Member of the Year 1991.

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LIGHTNING STRIKE PATTERNS REVEALED IN NASA STUDY

NASA-funded scientists have learned that cloud-to-ground lightning frequently strikes the ground in two or more places and that the chances of being struck are about 45 percent higher than what people commonly assume. Recently, William C. Valine and E. Philip Krider at the Institute of Atmospheric Physics at the University of Arizona, co-authors of the study, took to the field using video and other technology to study lightning, which is one of the biggest weather-related killers in the United States, superseded only by extreme heat and flooding. They recorded 386 cloud-to-ground (CG) lightning flashes on videotape during the summer of 1997 in Tucson, Arizona. They found that within their sample of 386 flashes, 136 flashes (35 percent) struck the ground in two or more places that were separated by tens of meters or more. There were a total of 558 different strike points; therefore, on average, each cloud-to-ground flash struck the ground in 1.45 places.

"Most people assume that lightning strikes in only one place. In this research, we've documented that lightning definitely strikes more than one place about a third of the time," Krider said. "If you want to quantify the chances of being struck by lightning, they are about 45 percent higher than the number of flashes because, on average, there are about 1.45 strike points per CG flash."

The researchers found that if any subsequent stroke is going to strike a place different from the first stroke, it is usually the second stroke that does so. The third and fourth strokes usually follow the same path as the second stroke. The article formally documenting this research appears in the latest issue of the American Geophysical Union's *Journal of Geophysical Research - Atmospheres*, and publication of the results was funded by NASA.

- NASA Public Affairs

Lightning Awareness Week will be 22-28 June 2003. For more info on lightning see our Web site page: www.nwas.org/links/lightning.html

200 Years Ago -

On 18 January 1803, President Thomas Jefferson wrote a letter to Congress asking for, "... *The appropriation of two thousand five hundred dollars, for the purpose of extending the external commerce of the United States, while understood and considered by the Executive as giving the legislative sanction, would cover the undertaking from notice, and prevent the obstructions which interested individuals might otherwise previously prepare in its way.*" — So began the formal planning for the Lewis and Clark expedition northwest to the Pacific.

NOS NEWS

The Coastal Marine Demonstration Project (CMDP) was recently selected by the Interagency Working Group of the National Oceanographic Partnership Program (NOPP) for the **2002 NOPP Award for Excellence in Partnering**.

The CMDP was led by the NOS Coast Survey Development Laboratory, the NWS/NCEP Environmental Modeling Center and the University of Maryland Horn Point Laboratory. CMDP forged a broad alliance of operational and research meteorologists and oceanographers to connect government, university and industry efforts. All five line offices of NOAA, the U.S. Coast Guard and Navy, Northrop Grumman's TASC Inc., and WSI Corporation worked with researchers from Princeton University and the University of Rhode Island's Graduate School of Oceanography to make high-resolution forecasts of surface winds, fog, visibility, currents, wave heights, water levels, water temperatures and salinity. The forecast demonstration area stretched from New England to the Carolinas and the forecasts were available to everyone. The demonstration focused on the Chesapeake Bay and contiguous coastal regions. Two of the experimental models demonstrated in the CMDP are now operational: the NOS Chesapeake Bay Operational Forecast System (<http://www.co-ops.nos.noaa.gov/CBOFS/index.shtml>) and NWS Regional Ocean Forecast System (<http://polar.wwb.noaa.gov/cofs/Welcome.html>).

An objective of the NOPP is to support partnerships among Federal agencies, academia, industry and other members of the ocean sciences community in areas of data, resources, education and communication. NOPP proposals are selected based on a number of criteria including both the strength of the science and that of the proposed partnerships. Of completed NOPP-supported projects, the CMDP was identified for the 2002 award based on the diversity, level of effort/involvement and matching contributions among the partners, as well as the long-term commitment of the partners beyond the NOPP funding period, the success of the partnership in meeting its project objectives, and the impact of the effort to the ocean research community. Additional information on the NOPP can be seen at <http://www.nopp.org>.

The NOPP award was presented to project leaders on 9 January 2003 at the White House Conference Center in Washington, DC. Representatives from NOAA included Dr. Frank Aikman, NOS/CSDL; Dr. Desiraju Rao, NCEP/EMC; and, Mr. Jeff McQueen, formerly of the Air Resources Laboratory of the Office of Oceanic and Atmospheric Research.

- John G. W. Kelley

GOT ISSUES? HAVE AN OPINION?
TRY THE NWA "SOUND OFF" WEB SITE:
<http://www.nwas.org/soundoff.html>

◀ IN MEMORIAM ▶

William H. Klein, Ph.D., (1919-2002) a charter member of the NWA died on Thursday, 26 December 2002 of complications related to Alzheimer's disease. He was a former director of the National Weather Service Systems Development Office (SDO) and renowned in the field of meteorology for his work in developing weather forecasting techniques and improving long-range forecasting.

A graduate of City College in New York, Dr. Klein was teaching high school biology when World War II broke out. To help in the war effort, the United States Armed Forces sent Dr. Klein to MIT where he achieved his Masters in meteorology and graduated number two in his class in 1944. He worked during the war as a Weather Officer in the Army Air Corps and continued his distinguished 37-year career in federal service at the U.S. Weather Bureau and National Weather Service. In 1959, he was named Chief of the Extended Forecast Division's Development and Testing Section and worked under the tutelage of Jerome Namias, one of the pioneers of long-range forecasting. In 1964, after receiving his Ph.D. from New York University, Dr. Klein became the first director of the Techniques Development Laboratory [now MDL]. It was during his tenure at TDL that he popularized the "Perfect Prog," statistical technique used to interpret the output of numerical weather prediction models in terms of practical day-to-day and extended weather forecasting. As one colleague recalled, "Klein endeavored to make weather forecasting a science more than an art."

His colleagues and family remember "Bill" as an extremely humble man, though his many contributions to the science of meteorology were recognized numerous times through the years. In 1964 he received the Department of Commerce (DOC) Silver Medal for "valuable contributions to science through original research and distinguished authorship in the fields of extended forecasting and dynamic climatology" and in 1974, the DOC Gold Medal for "his leadership in improving techniques of weather forecasting and analysis." In 1975, he received the American Meteorological Society's (AMS) Award for Outstanding Contributions to the Advance of Applied Meteorology. He was a Fellow of the AMS, served as an AMS Councilor and earned the Certified Consulting Meteorologist (CCM) designation.

Dr. Klein published more than 100 papers during his career on topics such as automated temperature and precipitation forecasting, statistical meteorology, synoptic climatology, extended forecasting, meteorological systems and the relation of weather to circulation. He retired in 1980 as director of the National Weather Service Systems Development Office located in Silver Spring, Maryland.

In 1980, he founded Intercon Weather Consultants, Inc., with James Andrews, Stuart Brown and Sol Hirsch.

They provided meteorological consulting services for over ten years from their office in Suitland, MD. Dr. Klein was also a research associate at the University of Maryland.

As devoted a scientist as Dr. Klein was, he was also a devoted family man. He loved theater, chamber music and travel and was a formidable doubles tennis player. He was married to the former Jenni Witkowski, who resides in Bethesda, Maryland. Dr. Klein passed away on the day of the couple's 60th wedding anniversary.

He is also survived by two sons, daughters-in-law, and six grandchildren: Richard Klein, M.D., Debra and Rachel, Samantha and Noah of Pittsburgh, Pennsylvania; and David Klein, Ph.D., Angela and Daniel, Margaret, and Michael of Ann Arbor, Michigan.

The family gratefully requests that any remembrances be made in the form of donations to the Alzheimer's Association.

– Thanks to members Bob Glahn and Sol Hirsch for providing information on Dr. Klein from friends and family. Bob (Dr. Harry R. Glahn), director of the NWS Meteorological Development Laboratory, worked for Dr. Klein when he was director of the TDL and succeeded him. (Exec. Dir.)

ANNOUNCING: The Arthur C. Pike Scholarship in Meteorology

Thanks to a generous donation from the estate of the late Dr. Arthur C. Pike, your elected NWA Council members developed a college scholarship fund in 2000. This is the third year it is being offered.

Offering: 1 scholarship per year in the amount of \$1000.

Administration: The NWA Education Committee will administer the scholarship selection. Applications close 15 April 2003 and the scholarship designee will be notified by mid-May.

Eligibility: Undergraduate and/or Graduate students. Undergraduates must be classified at least as a junior for the semester beginning in September 2003. This will allow second semester sophomores to apply for the scholarship. If the student is classified as a senior they must either have one more fall (Sep. - Dec.) semester to complete after the scholarship is awarded or document that they have been accepted into graduate school.

Award Criteria: The scholarship will be based on:
a) official college transcripts (academic achievement),
b) two letters of recommendation (at least one from a current or former meteorology professor),
c) a letter (not longer than one page) from applicant describing their involvement/interest in meteorology.

Logistics: Scholarship money will be transferred following the financial guidelines of the college or university involved. Applications for the NWA Arthur C. Pike scholarship to be awarded in 2003 must be returned to the NWA office by 15 April 2003. The office address is on the application form. The application form is online at: http://www.nwas.org/scholarship_app.html

MEETINGS OF INTEREST

• **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. 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. 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 on the agenda, discount room rates and to register online, visit Web site: <http://www.iowa-nwa.com>.

• **The Third Conference on Isentropic Analysis and Forecasting will be held 4-5 April 2003 on the campus of Millersville University of Pennsylvania.** This conference is sponsored in part by the NWA's Weather Analysis and Forecasting Committee. The theme of this gathering will be "Isentropic Meteorology in the 21st Century: Opportunities and Challenges." The Saturday (April 5) sessions will be preceded by a Friday (April 4) Short Course on Isentropic Analysis and Forecasting Methods conducted by Dr. James T. Moore of Saint Louis University. This course will be especially beneficial for those whose exposure to an isentropic approach to meteorological analysis may have been limited. The Saturday conference will conclude with a late afternoon workshop on "Visualization Tools for Isentropic Analysis: Using VIS-5D and Numerical Models." Papers on isentropic topics are invited from all sectors of the discipline: government service, broadcasters, the military, private concerns, and academia. Registration fees, including breaks, the Friday Short Course, Friday evening ice breaker, and the luncheon on Saturday are set at \$90.00 (\$55.00 for students). Make checks payable to **Millersville University**. Registration forms, fees, and paper abstracts (not to exceed 300 words) should be sent to: Dr. Sepideh Yalda, Millersville University of Pennsylvania, Dept. of Earth Sciences, Millersville, PA 17551; Sepi.Yalda@millersville.edu. **The deadline for abstracts and registration is 28 February 2003.** Additional conference information will be made available at Web site: <http://www.atmos.millersville.edu>.

• **The Great Lakes Meteorology Conference will be held on 5 April 2003 in Valparaiso, IN,** sponsored by the Northwest Indiana Chapter of the NWA. The program will comprise several speakers covering a broad range of topics, as well as a poster session. The topics will include several Great Lakes phenomena, ranging from lake-effect snow to severe weather. The conference will begin at 10:30 AM with lunch and dinner included in the conference fee of \$35. The keynote speaker will be Bob Johns (NWA Councilor). Additional speakers will include David Kristovich from the University of Illinois and Brian Hornbuckle from the University of Michigan. **Abstract deadline is 31 January 2003.** Send abstract to Northwest Indiana NWA, Valparaiso University, 16 Mueller Hall, Valparaiso, IN 46383-6493. Contact Steve Jackman at Steve.Jackman@valpo.edu to submit your interest in attending

• **The 25th Annual National Hurricane Conference will be held 14-18 April 2003 at the Hyatt Regency in New Orleans, LA.** Conference highlights include 40 Comprehensive Workshops, 27 Training Sessions, six RAP Sessions, FEMA Director Joe Allbaugh, Bill Gray's 2003 Season Forecast, National Hurricane Center Director Max Mayfield's recap of the 2002 Season, and a roundtable discussion featuring the past six National Hurricane Center Directors. For more information, please visit Web site: <http://www.HurricaneMeeting.com>.

• **Mid-Atlantic Regional Conference on the Inland Effects of Tropical Weather Systems will be held 11-13 May 2003 at the Holiday Inn Brownstone, Raleigh, NC.** The Central North Carolina AMS Chapter is sponsoring this operational and emergency management focused regional conference. It begins on Sunday evening, 11 May, with a reception and presentation from Dr. Steve Lyons of The Weather Channel. More information on the conference may be found at Web site: <http://www.nc-climate.ncsu.edu/ams/conference>

• **NESDIS Data Users Workshop on 11-12 June 2003 in Boulder, Colorado.** Workshop goals are to solicit users' opinions on current NESDIS data and information products and services (e.g., How can we improve?); inform users of future capabilities, plans, and data sets; review & update user needs for new products, data archiving and access to stored data; assess users' needs and societal benefits; improve communications and rapport with users. More information is available at Web site: <http://www.osd.noaa.gov/datausers>.

• **INTERNATIONAL CONFERENCE ON LIGHTNING AND STATIC ELECTRICITY (ICOLSE 2003) will be held 16-18 September 2003 in Blackpool, England.** For the first time at any international meeting, the ICOLSE conference will have a track on Keraunomedicine, the medical aspects of lightning injuries. The sessions will include tutorials, lecture/keynote addresses, research reports, panel discussions, and case reports. The conference organizers, Dr. Chris Andrews (Australia) and Dr. Mary Ann Cooper (USA), encourage anyone with an interest in the medical aspects of lightning, personal lightning safety, or injury prevention to attend. Registrants for the Keraunomedicine track will be admitted to the regular ICOLSE meeting sessions as well. For more information, please contact Dr. Mary Ann Cooper at macooper@uic.edu or visit Web site: <http://www.icolse.org>

• **SEVENTH ANNUAL HIGH PLAINS CONFERENCE will be held in Hastings, Nebraska, 8-10 October 2003.** It is sponsored by the High Plains AMS/NWA Chapter. Oral presentations are currently being solicited for the conference, with an emphasis on the weather of the High Plains region. **One page abstracts may be submitted until the 15 August 2003 deadline.** The conference will be of interest to not only public and private meteorologists, but broadcast meteorologists, meteorology students, emergency managers, storm chasers, and other weather enthusiasts as well. Keynote speakers will be announced at a later date. The High Plains Chapter is proud to once again sponsor a student paper competition for both undergraduate and graduate students. Two monetary scholarships will be awarded, with the top finisher receiving \$500 and a free one-year membership to the chapter. Registration for the conference is \$50, while student registration is only \$25. Conference fees will include lunch and refreshments. The banquet dinner on Thursday evening (October 9) is an extra nominal fee. Provisions for vendors will be made available at little or no extra charge. The latest conference information, including local lodging and pre-registration, can be found at the High Plains Chapter website: <http://www.highplains-amsnwa.org>. Any questions or abstract submissions may be sent to the conference co-chairs: Michael.Moritz@noaa.gov and Jared.Guyer@noaa.gov or by regular mail to 7HPC c/o National Weather Service, 6365 Osborne Drive West, Hastings, Nebraska 68901; Phone: 402-462-2127; Fax: 402-462-2746

You can help keep the Newsletter on schedule by contributing news items, meeting summaries, book reviews, comments on current and future needs to promote and support operational meteorology, and any other items you would like to share with other members. Send submissions to the Editors or the NWA office by e-mail, fax or regular mail. See the Newsletter information box on last page.

• **NWA 28th ANNUAL MEETING will be held at the Adam's Mark Hotel in Jacksonville, Florida, 18-23 October 2003.** The Call for Abstracts will be published in the NWA February Newsletter and on the NWA Web site (www.nwas.org). Abstracts will be expected to be received by 1 June 2003. A golf tournament is being planned for 18 October.

Hotel Information: The Adam's Mark Hotel is at 225 Coastline Drive, Jacksonville, FL 32202. It is a full-service hotel located downtown along the St John's Riverfront. The NWA discount room rates are \$81 for a single room and \$101 for a double room. Please call the Adam's Mark Hotel at 904-633-9095 (reservations department) between 8 AM to 5 PM Monday-Friday or call their Central Reservation Department at 1-800-444-ADAM at anytime and request the National Weather Association 28th Annual Meeting group rate. Please reserve rooms by 18 September to be able to obtain the discount rate.

For further information, please contact the NWA office at (434) 296-9966 or NatWeaAsoc@aol.com.

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.

FRAMEWORK INVESTMENT GROUP is seeking a Weather Analyst to support trading activities. The Analyst will work with traders in the fund monitoring weather risk and current market sentiment regarding weather forecasts and long-term trends. The analyst will monitor main short and long term weather forecasts in the market; analyze and evaluate these forecasts; produce in-house weather forecasts; track weather models' performance; follow weather patterns; build up and manage in-house weather database; and extract analog weather years. Job Requirements include meteorological training and experience with management of weather data. About 80% of the work week will be spent compiling data and analysis in support of trading strategies. Experience with international weather is a plus. Experience working in the financial industry is a plus but not a requirement. **Framework Investment Group** is located in New York City with more than \$600 million in assets under management. Framework specializes in commodity investment strategies on a global basis. The position offers an opportunity to join a unique investment company with a very successful track record of annual returns well in excess of 15%. This is an outstanding opportunity to become involved in financial markets, and it is a position with exceptional long-term financial and intellectual opportunities. **Contact:** Brison Bickerton, Framework Investment Group, 767 3rd Avenue, 21st Floor, New York, NY 10017; (212) 446-5433; BBickerton@frameworkinvest.com.

FEDEX EXPRESS is now accepting resumes for an upcoming opening in the Weather Department at Fedex Express, located in Memphis, TN. A degree in Meteorology or appropriate training as well as four years experience in aviation forecasting/support is required. Knowledge of weather effects on aircraft is also desired as is excellence at briefing aviation users of current and forecast weather. Forecasters must be able to work rotating shifts, weekends and holidays. Benefits include: excellent

starting salary with progression and raises based on performance, health insurance, dental and vision care at a nominal fee as well as other excellent benefits. Please send resumes to: wpwoveris@fedex.com or mail to: W. Woveris, 3796 Lamar Ave. 2nd Floor, Memphis, TN 38118.

UNIVERSAL WEATHER AND AVIATION, INC., an international aviation services company, has an immediate opening for an aviation meteorologist. The Meteorology department is located at Universal's world headquarters in Houston, Texas. Necessary Knowledge/Experience: A Bachelors of Science degree in Meteorology or the completion of military forecaster's school (DD-214 entry required). Ability to work rotating shift work is required. Windows / PC knowledge and efficient in touch-typing, at least 30 wpm, is essential. Unix workstation knowledge is a plus. Good oral communications and phone etiquette skills are a must. Three years of practical experience in aviation forecasting is preferred. The position includes competitive salary and benefits package. Qualified candidates (principals only) may send a resume and cover letter to: e-mail: jreed@univ-wea.com or Fax: (713) 943-4651 or via US mail: Universal Weather and Aviation, Inc. Attention: Jim Reed, 8787 Tallyho, Houston, Texas 77061. To find out more about Universal Weather and Aviation, Inc., visit us on the web at: www.univ-wea.com.

Considered mentoring?

January is National Mentoring Month.

Be a mentor -- and change a child's life for the good. For more information, see Web site: www.mentoring.org

Job shadowing is an academically motivating activity designed to give kids an up-close look at the world of work and to answer the question, "Why do I have to learn this?" February 2nd, Groundhog Day, is a natural day for the shadow program, but since the 2nd is on a Sunday this year, many companies are beginning the program on 31 January 2003, and continuing throughout the school year. (www.jobshadow.org) (Ex. Dir.)

NWA Newsletter (ISSN 0271-1044)

Editors: Frank Brody, Larry Burch and Eli Jacks

Publisher: Kevin Lavin, Executive Director

Published monthly by the National Weather Association, 1697 Capri Way, Charlottesville, VA (USA) 22911-3534
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Web site: www.nwas.org

Submit newsletter items directly to: Editor NWA Newsletter, Frank Brody at NewsletterNWA@aol.com; Eli Jacks at Elliott.Jacks@noaa.gov; Larry Burch at Larry.Burch@noaa.gov or to the NWA office. Material received by the 5th will be considered for that month's issue. If submissions are not received, the Newsletter may be delayed.

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.

NOAA'S NEW STRATEGIC PLAN DRAFT READY FOR COMMENTS

The Undersecretary of Commerce for Oceans and Atmosphere and NOAA Administrator, Conrad C. Lautenbacher, Jr., Vice Admiral, U.S. Navy (Ret) thanks all those who contributed to the new NOAA Strategic Plan (2003-2008 and beyond).

He now invites all to review the draft plan at Web site: <http://www.osp.noaa.gov> and to send comments directly from that Web site or via e-mail to strategic.planning@noaa.gov by **14 February 2003**.

NATIONAL WEATHER ASSOCIATION

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