

## **PRESIDENT'S MESSAGE**

In keeping with tradition, we begin the New Year with a letter from the incoming President of this association. I find myself feeling a little like I did when I boarded a plane on "Dragon Air Airline" flying from Beijing to ChungDue, China understanding no one and eating who knows what, and again when I found myself as a banquet speaker for the First (and last) WSR-88D User's Conference. In both these instances I asked myself, "What am I doing here?!" Why do I feel this way as the new NWA President, you ask? First, I am a radar and research meteorologist. Albeit, one who has spent time as an operational severe storms forecaster with what is now the Storm Prediction Center. The majority of my career has been spent as a research rather than operational meteorologist. I am one of the few who began his career as a GS-1, step 1 and remained so for a year! Both basic and applications research endeavors have characterized my work, but predominantly it has concentrated in the area of radar applications research. I have always supported professional associations related to my career field, but I never really thought I would end up here. Obviously, I now find myself as the NWA President.

But then, being an organization's president does not mean acting independently. Quite the contrary, it means acting in concert with many others. I have heard it said that a successful leader is one who surrounds himself with capable, competent, and qualified people. I believe that we have done that. We have a superb executive director and very capable officers and councilors (pg 5). Moreover, I now follow an outstanding president, Rod Scofield. He and the other 24 past presidents set great examples.

Along with these fine men and women, officers and councilors, I hope to accomplish several reachable goals during my tenure. First, It would seem that our membership roles have not grown at the rate we all would like to see. We still have not yet reached the 3000 mark. Let's do so this year! I do not wish to increase the size of the organization, simply for numbers sake. Rather, the more operational (and research) meteorologists we add, the greater their collective voices will be heard and the greater the pool of talent we will have to call on for both input and assistance. The larger our organization becomes, the more significant our efforts can be and the greater

impact we can achieve as an organization. Thus, lets **TARGET THE 3,000 MEMBERSHIP MARK** for 2001.

Second, I hope to be able to **FOSTER MORE TEAMWORK** between the National Weather Service and the media and our other private-sector members. If we can more efficiently and effectively work together, we all gain, especially the consumer of all our efforts, the public. If we do not cooperate and join together as a team, the weaker will our organization and our public service become. The messages we convey, and especially the warning information we communicate will be diminished in effectiveness to those we serve. Let's purpose to work together and let's promote the ways we might do so.

Third, I hope to at least begin an effort to get weather radar and perhaps other valuable private sources of information into the hands (offices) of the NWS. A rapidly growing number of television stations within the United States are adding C-band weather radar to their arsenal of tools to serve the public and to be more effective in discriminating themselves from their competitors. No, these radars are not WSR-88Ds, but many are very effective in remotely observing storms. In fact, some have scientifically designed algorithms for the identification of severe weather. Getting the algorithm output into the NWS offices is not priority, rather, simply getting the reflectivity and perhaps mean radial velocity into the NWS offices are. Owing to the numbers of these radars, they will at times be significantly closer to severe storms in the area or closer to important portions of those storms. Additionally, these radars might form ready backup in the event the local WSR-88D fails.

Fourth, in addition to getting television station radar data into the NWS offices I would like to work to get televisions themselves into more local NWS offices. Why? During the devastating outbreak of tornadoes on May 3rd, 1999 in Oklahoma, the fact that the Oklahoma City/Norman NWS office had a television available provided real-time verification that warnings were indeed needed, even when the telephone system ceased to function and no reports were received. Further, sometimes television stations receive public reports and air them prior to the NWS office receiving them. Again, the goal here is to get potentially crucial information into the hands of the warning meteorologist that may tip the scales in the warning process and ultimately save lives.

In addition, I hope to sponsor and develop a national program to encourage outdoor activity managers to adopt plans for the protection of life in the event of impending severe weather. There may be several ways to accomplish this including a national conference. As Tom Grazulus, the tornado historian has said, it is not if, but when a large, densely populated outdoor activity is struck by a tornado or some other severe weather phenomena. Once this happens, fatalities could actually number in the thousands and injuries into the tens of thousands considering that some outdoor stadiums hold over 100,000 people. We need to be proactive not simply reactive after a tragedy of this magnitude actually occurs.

In the coming months I hope to report progress in each of these areas. I also hope the NWA Council and committees with your help can develop plans and programs to see these goals through.

I count it a privilege to serve in the capacity of President of this fine organization. Being President does not mean being the seat of wisdom or knowledge, rather it means serving the membership in a manner such that the membership's desires may be accomplished. Please let me know your concerns. - Les Lemon

## MEMBER NEWS

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*Welcome to new Corporate Members!*

### Yankee Environmental Systems

101 Industrial Boulevard

Turners Falls, MA 01376-1611

Point of Contact: Mark Beaubien

Tel: (413) 868-0200; Fax: (413) 863-0255

E-mail: info@yesinc.com

Internet: www.yesinc.com

### Regional Weather Information Center

University of North Dakota

P.O. Box 9007

Grand Forks, ND 58202-9007

Point of Contact: Leon F. Osborne, Jr.

Tel: (701) 777-2479; Fax: (701) 777-3888

E-mail: leono@rwc.und.edu

Internet: www.rwic.und.edu

Colonel Robert H. Allen assumed command of the Air Force Weather Agency (AFWA) from Colonel Charles W. French in a change-of-command ceremony at Offutt Air Force Base, Nebraska on 13 November 2000. Brig. Gen. David L. Johnson, Air Force Director of Weather presided over the ceremony. Col. Allen began his operational meteorology career after graduating from the US Air Force Academy in 1973 and completing the special USAF meteorology studies program at North Carolina State University in 1974. He is a charter member of the NWA and served as vice president in 1993. He completed a Master's Degree in Meteorology at the University of Oklahoma in 1980 with research at the

NOAA National Severe Storms Laboratory participating in the Joint Doppler Operational Program. His military service included a wide variety of weather officer duties providing forecasting and warning services for military bases, flights and military missions. He also flew nearly 800 hours as a WC-130 mission director while assigned to the 54th WRS "Typhoon Chasers" on Guam. He held many leadership positions including commanding the 15th and 375th weather squadrons. For the past two years, Col. Allen was chief of weather operations, Headquarters Pacific Air Forces, Hickam Air Force Base, Hawaii.

Col. French retired after a 27-year career in the Air Force which started in 1973 with his first assignment to Offutt Air force Base in the Air Force Global Weather Central. His interest in weather began in elementary school in the suburbs of Philadelphia. In the 6th grade, he volunteered to be the daily weather forecaster and gave a news/weather show each school-day morning for the year. On career day in 9th grade, he interviewed a renowned television meteorologist, Wally Kinan, and became even more convinced of a career in weather. After earning a Master's Degree in Meteorology from The Pennsylvania State University, he joined the Air Force. He also served in a wide variety of operational meteorology and leadership positions in providing worldwide military weather support culminating in commanding the Air Force Weather Agency for the past two years. Col. French is now employed at Raytheon in Omaha, Nebraska.

## ◀ IN MEMORIAM ▶

**Thomas Julian Lockhart** (1925-2001), a long-term member of the National Weather Association, died at his home on Fox Island, Washington on January 17, 2001. A 1949 graduate of UCLA, Tom worked for the old Meteorological Research, Inc. for over 20 years and moved to Fox Island in 1983 starting a second career as a self-employed consulting meteorologist. He was a mainstay at many NWA Annual Meetings sharing his expertise in meteorological measurement standards, quality assurance of observations, and continuity of data measurements for climate studies.

A Eulogy by Janet Lockhart

Tom Lockhart was a truly honorable gentleman of spirit and action. There were rarely times where a harsh word or loud voice was used. Yet, he was known and loved around the world for his dedication, ethics, and his ability to gently persuade others along the path of quality and excellence. His professional field was Meteorology, specifically the measurement of the variables of wind, temperature, precipitation and humidity. However, wind was his thing. In addition, he wrote technical papers and guidelines on the subject of the quality assurance of meteorological measurements. He taught, organized standards committees and mentored many younger

meteorologists, environmental scientists and technicians. The level of education, academic and professional standing or material possessions were "transparent" to him since he treated everyone with grace, gentle manners, and understanding. This was true all the time, not just in one area of his life. He enjoyed family, friends, good food, travel, art, gentle white wine and Bombay Sapphire Gin. He especially enjoyed the quilting friends of his wife, Janet who would bring their most recent works to be shared and commented upon. He and Janet adored each other and the energy of their love and devotion was obvious for all to see and enjoy. Tom could be absent-minded about trivial things like going to the Fox Island Post Office in his slippers with ruffled hair and wearing the same red plaid shirt too often. During the months prior to his death of a malignant brain tumor, he was still kind, loving and appreciative of all that came to visit or help with his care. He never complained or demanded undue attention. Most of his friends left in tears, but knowing that they were still cared for by his gentle, loving spirit. Tom was born in Los Angeles, CA on July 13, 1925. He and Janet moved to Fox Island in 1983, shortly after they were married. He left behind his wife, Janet, her sons Roy & Shawn O'Mary and grandchildren Sierra, Cameron and Cadhan, his Rempel, Deal and Murphy cousins in California and Virginia as well as all of Janet's Kennedy relatives who have accepted him as their brother. He will be with us always.

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Donations or pledges in Tom's memory can be made in support of The Thomas Julian Lockhart Scholarship in Meteorological Measurements and Observing Systems in the School of Meteorology at the University of Oklahoma. This scholarship, in the amount of \$500, will be awarded annually to a student in the School of Meteorology who has attained at least junior status and who has demonstrated an interest in meteorological measurements and observing systems, and in the development and use of standards for such purposes. Please make contributions payable to "OU Foundation-Lockhart Scholarship" and mail to: Dr. John T. Snow, Dean, College of Geosciences, The University of Oklahoma, 100 E. Boyd St, Suite 710, Norman, Oklahoma 73019.

## LOCAL CHAPTER NEWS

**Congratulations** to the **Lyndon State College AMS/NWA chapter**. The Chapter was recognized by the American Meteorological Society as the Student Chapter of the Year "for exceptional interaction with the professional community, their local community, and outstanding service to their members and the society." The award was presented at the AMS Annual Meeting in January in Albuquerque. Chapter President Dina Freedman, Vice President Justin Arnott, Treasurer Cegeon Chan, Secretary Tracy McCormick, Public Relations

Officer Edward Argenta, and all chapter members are congratulated on their great work. They are currently busy finalizing the program and arrangements for the 26th Annual Northeastern Storm Conference to be held in Saratoga Springs, New York, 9-11 March 2001. For more information browse to the chapter's Web site at: [apollo.lsc.vsc.edu/ams.ams.html](http://apollo.lsc.vsc.edu/ams.ams.html)

**The Arkansas Chapter** of the NWA held its first meeting of 2001 on 30 January at the National Weather Service Warning & Forecast Office in North Little Rock. The meeting was convened by Chapter President George Wilken at 7:05 PM with 17 members and guests present. President Wilken discussed topics from his recent trip to the AMS Annual Meeting in Albuquerque, NM. He attended the local chapter breakfast and met members from several other AMS chapters. Member Joey Langston, a member of the election committee, gave the results of the 2001 chapter election. President Wilken briefed that newly elected Vice President Ashley Kells had just accepted a position at NWS Headquarters in Silver Spring, MD. This left the Vice President position open. George mentioned that he had talked with member Jerry Reynolds about possibly taking over as Vice President for 2001. Jerry was nominated for Vice President and was voted in by acclamation. Member Eric Walker presented the program for the evening. The presentation was on the Emergency Manager's Weather Information Network (EMWIN). Eric showed slides on EMWIN's beginnings and on how the system works. The NWS office has an EMWIN system that assists forecasters in making sure that weather products are being properly transmitted to users. The presentation was very interesting and generated numerous questions. President Wilken told the group that the next meeting would be on February 15th and a program on storm chasing would be presented by member Scott Blair. Drawings were held for door prizes and refreshments were served. The meeting was adjourned at 8:20 PM. - Newton Skiles, Corresponding Secretary

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Submit newsletter items directly to: Editor NWA Newsletter, Eli Jacks, NWS HQ W/OS6, 1325 East West Hwy Room 13314, Silver Spring MD 20910-3283; e-mail: [Elliott.Jacks@noaa.gov](mailto:Elliott.Jacks@noaa.gov) or to: Larry Burch, 1527 South Wasatch Drive, Salt Lake City UT 84108 e-mail: [Larry.Burch@noaa.gov](mailto:Larry.Burch@noaa.gov) Material received by the 5th will be considered for that month's issue.

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 Internet 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 office with address changes.

## TRAINING CORNER

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The 2001 severe weather season is here! To mark its arrival, this month's Training Corner focuses on two Web sites that will help meteorologists prepare for severe weather operations and making warning decisions. The first highlighted site was developed by Ted Funk, Science and Operations Officer (SOO) at the Louisville, KY, National Weather Service office. Contained within Ted's training pages is a review of the structure and dynamics of supercell thunderstorms. This section provides an overview of the various storm types, the environmental characteristics conducive to supercell development, and a summary of the mechanisms that lead to tornado development. Also discussed are radar signatures of supercells and their corresponding mesocyclones. This very useful refresher can be found at Web site:

[www.crh.noaa.gov/lmk/soo/docu/supercell.htm](http://www.crh.noaa.gov/lmk/soo/docu/supercell.htm) .

Second is an online NOAA Technical Memorandum from the NWS Southern Region, written by Kenneth Falk of the National Weather Service office in Shreveport, LA. "Techniques for Issuing Severe Thunderstorm and Tornado Warnings with the WSR-88D", is located at Web site: [www.srh.noaa.gov/ftproot/ssd/techmemo/sr185.htm](http://www.srh.noaa.gov/ftproot/ssd/techmemo/sr185.htm). The article compiles warning decision guidelines and radar signatures extracted from recent research and publications, along with tried-and-true storm diagnostics. Techniques for determining the threat of hail, straight-line winds, microbursts, and supercell and non-supercell tornadoes using radar products are discussed.

These valuable Web sites can be accessed through the NWA Home Page ([www.nwas.org](http://www.nwas.org)) by clicking on "NWA Committees", then "Training Committee", then "Featured Links". - *Gail Hartfield, NWA Training Committee Chairperson*

**SHORT COURSE: Studies in Weather Analysis and Forecasting, 18-28 June 2001.** The Science center for Teaching, Outreach, and Research on Meteorology (the STORM Project) at the University of Northern Iowa (UNI) is sponsoring an applied weather analysis and forecasting course for undergraduate atmospheric science students and pre-college science teachers. STORM is a cooperative program between NOAA and UNI. The course will explore the forecast process through the use of case studies and hands-on forecasting. Participants will gain experience with FX-Net, a software package developed at NOAA's Forecast Systems Laboratory that emulates the Advanced Weather Interactive Processing System (AWIPS) used in NWS forecast offices. An added focus of the course will be on how end users (e.g., emergency managers, school superintendents) use weather forecasts in their decision making process. The STORM Project will provide housing, meals, course materials, and 3 hours of academic credit (undergraduate or graduate) from the University of Northern Iowa at **no charge**. Participants are responsible for their own travel to Cedar Falls, Iowa. To apply, see Web site: [www.uni.edu/storm/swaf1.htm](http://www.uni.edu/storm/swaf1.htm). Applications have to be in by 30 April 2001. For more information contact Associate Professor Alan Czarnetzki at: [Alan.Czarnetzki@uni.edu](mailto:Alan.Czarnetzki@uni.edu)

## Southern Louisiana CLIMATE 2000 WORKSHOP Summary

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This Workshop was a timely, well conceived, joint effort teaming the NWS Forecast Offices of New Orleans and Baton Rouge with the Southern Regional Climatic Center/Louisiana State University. The event was held at the Department of Louisiana Agriculture and Forestry Auditorium and Conference Center in Baton Rouge on Wednesday, 29 November 2000. The purpose of the workshop was to gather information, put faces with names, and to **assess the state of the area's climate impact**. There were over 38 attendees representing 15 different agencies. Vital quantitative and qualitative economic information was shared. The results surpassed expectations with thanks to NWS New Orleans, Forecasters-in-Charge Robert Ricks and Alan Johnson (two of the key workshop players). A summary of impacts follows:

**Agriculture impact summary:** 110 thousand acres affected by drought, 17 thousand acres severely affected; \$1.25 billion loss in past 3 years (\$560 mil in 2000); sugar cane - \$135 million loss (\$400 mil/5 yr); sugar content down 15-20 % [one positive note - drought killed bores in sugar cane]; aerial applicators lost ½ of their normal annual revenue; cotton - \$66 million loss; yield down 10 %; soybeans - \$54 million loss - 25 % less than normal; rice - \$22 million loss; price dropped ½; price / yield dependent; rice/cotton impacted internationally; bad price/bad yield; crawfish - lost \$25 million in Atchafalaya basin - normally \$60 million profit; 60 % from ponds and 40 % from Atchafalaya; \$2 million loss in pond raised catfish; hay - \$20 million; wheat - \$1.5 million; corn - \$14 million; pasture - \$2.4 million; grain sorghum \$2.2 million; gator egg production about ½ normal due to such low water levels in the marshes; salt water intrusion into drinking water in portions of Terrebonne Parish - houma; waterfowl diminished considerably; in some sections of the state the depletion of the watertable caused concrete slabs to break as well as damage to roads and highways; unknown losses in the dairy and cattle business

**Forestry impact summary:** Normal loss is 10 acres per year to fire - this year 60 acres; higher temperatures and lower humidity caused firefighters to become more dehydrated; many more underground fires; increase in beetles in pine trees has weakened and killed numerous trees; increased tree limb loss; 1 to 2 year seedlings died at the rate of 20 - 30 %/year; lost 1 ½ million hardwood trees; 6 million pine seedlings lost; large losses in a Deridder Nursery due to 7 - 14 days of 114 degs despite irrigation; \$3 billion loss in funds.

**Environmental impacts summary:** air quality - ozone problems - numerous health issues - Baton Rouge area had 11 days in 2000 of high levels - consequences of ozone violations and non-compliance federal sanctions...loss of highway funds and higher fuel bills. Wildlife Fisheries: reduced sediment inflow resulting in habitat loss/modification; reduction in amount of water available to marshes and estuaries resulted in eutrophication, pathogen contamination, increase in toxic substances and dying marshes - thousands of acres where there is nothing living. Billions of dollars needed to fight problems.

**Water resources and climatology were also reviewed providing all attendees with a more comprehensive view of the drought situation to tackle future problems/concerns in a team effort. Climate Workshop was a good example for others to follow.** (Exec. Dir. summary from meeting slides.)

## 2001 NWA COUNCIL

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The ballots have been counted and the new slate of NWA Officers and Councilors took effect in January 2001. Congratulations to those elected and thanks to all nominees for showing extraordinary support of the NWA by volunteering for office.

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See the NWA Web site at: [www.nwas.org](http://www.nwas.org) for *How the NWA Works* - a list of Officers and Councilors since 1975, NWA bylaws and much more.

## MEETING NEWS

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• **5th Annual Severe Storms and Doppler Radar Conference**

sponsored by The Central Iowa Chapter of the National Weather Association will commence at **5:00 PM on Thursday, 29 March 2001 and adjourn Saturday, 31 March at 10:00 PM**. The University Park Holiday Inn in West Des Moines (515-223-1800) will once again be our host. A Warning Decision-Making Workshop will be one of the highlighted sessions. Meteorologists, hydrologists, climatologists, emergency management personnel, SKYWARN members, amateur radio operators, storm chasers and students are all encouraged to attend. The deadline for abstracts has passed. For more information and to register, check out the Central Iowa NWA Web site: [www.iowa-nwa.com](http://www.iowa-nwa.com)

• The National Oceanic and Atmospheric Administration (NOAA), in cooperation with Jackson State University (JSU), is organizing the **3rd Expanding Opportunities in Oceanic and Atmospheric Sciences Conference, 1-3 April 2001**, to strengthen linkages between the educational and occupational sectors in marine and atmospheric fields. The focus is on building sustainable alliances with the Historically Black and other Minority Serving Colleges and Universities. This conference continues the unwavering effort by NOAA and its partners over the past six years to: Build institutional capacity, Sustain partnerships between the public and private sectors, Assess progress, share best practices, and create new opportunities, Develop collegial relationships among diverse sectors. The mission of the conference is to encourage participation of: students, faculty, researchers, and administrators, leaders in higher education, advocates in public and private sectors, congressional and federal policy makers, corporate and foundation representatives. Over an intense two days, you will make personal contacts, learn about successful models, hear about impediments and challenges, and share your innovations in these areas. Conference participants will formulate strategic actions designed to enhance diversity and opportunities for individuals from traditionally under-represented groups in marine and environmental sciences. This Conference, Business, Technology and Career Trade Fair will be held 1-3 April 2001 at Jackson State University, Lee E. Williams Athletics and Assembly Center, 1400 John R. Lynch Street, Jackson, Mississippi. For more information and registration see Web site: [ccaix.jsums.edu/noaa/](http://ccaix.jsums.edu/noaa/)

• **23rd Annual National Hurricane Conference** will be held **9-13 April 2001** at the Omni Shoreham Hotel in Washington, DC. For more information visit Web site: [www.HurricaneMeeting.com](http://www.HurricaneMeeting.com) Teri Besse is the conference coordinator and can be contacted for more information or to discuss exhibit space, advertising or sponsorships at (850) 906-9224 or [mail@hurricanemeeting.com](mailto:mail@hurricanemeeting.com)

• **5th Annual Ohio Severe Weather Symposium** sponsored by the Ohio State University Meteorology Club will be held on **Friday, 27 April 2001** at The Fawcett Center, 2400 Olentangy River Road, Columbus, Ohio. Information is at Web site: [twister.sbs.ohio-state.edu/](http://twister.sbs.ohio-state.edu/) NWA members Greg Elsaesser and Eric Wilhelm are Co-Head Coordinators. E-mail your name and affiliation to [elsaesser.2@osu.edu](mailto:elsaesser.2@osu.edu) or [wilhelm.51@osu.edu](mailto:wilhelm.51@osu.edu) to let them know you will be attending. Symposium is open to all.

• **GOES Users Conference** will be held **22-25 May 2001** in the NIST Auditorium in Boulder, Colorado. The conference is aimed to: Inform users of future capabilities and potential applications; Determine user needs for: new products, distribution of GOES data, data archiving and access to stored data, instruments of opportunity, access to sample data prior to launch of next series, and future training; Assess user and societal benefits of future systems; and, Develop methods to improve communication between NOAA's National Environmental Satellite, Data, and Information Service (NESDIS) and the GOES user community. Jim Gurka of NESDIS is program chairperson. For more information see Web site: [www.osd.noaa.gov/conference](http://www.osd.noaa.gov/conference).

• **International Conference on Disaster Management** will be held **6-10 August 2001** at the Rosen Centre Hotel in Orlando, Florida. For more information call: (850) 906-9221 or visit Web site: [www.DisasterMeeting.com](http://www.DisasterMeeting.com)

• **2001 NWA ANNUAL MEETING 13-19 October 2001**, see page 7 for *Call for Papers*.

• **Weather Analysis and Forecasting Issues in the Central United States**. The NWA Weather Analysis and Forecasting Committee, the Department of Soil and Atmospheric Sciences at the University of Missouri-Columbia, and the Missouri Climate Center announce their first conference on Weather Analysis and Forecasting Issues in the Central United States. **The conference will be held at the University of Missouri-Columbia, 30 November – 2 December 2001** to address all topics relating to operational meteorology in the Midwest (emphasis on heavy precipitation forecasting, winter weather phenomena, and interannual variations in Midwestern climate); oral presentations are encouraged, although space will be allotted for poster exhibitions. Registration information is at Web site: [solberg.snd.missouri.edu/WAFICUS/](http://solberg.snd.missouri.edu/WAFICUS/)

**Abstracts are due by 31 July 2001** and should be mailed to: Sharon Burnham, University of Missouri-Columbia, Department of Soil and Atmospheric Sciences, 116 Gentry Hall, Columbia, MO 65211 (With abstract, please provide contact information and specify oral or poster presentation.) Conference organizers are: Drs. Anthony R. Lupo and Patrick S. Market, Assistant Professors of Atmospheric Science at University of Missouri - Columbia.

**National Weather Association's  
26th Annual Meeting  
13-19 October 2001 in Spokane, Washington**

**Call for Papers**

The National Weather Association's 26th Annual Meeting will be held at the WestCoast Ridpath Hotel, 515 W. Sprague Avenue, Spokane, Washington 99201 from Saturday, 13 October 2001 through Friday noon, 19 October 2001.

**The Annual Meeting will include:**

**13-14 October:** WEATHER BROADCASTER WORKSHOPS beginning late Saturday and continuing all-day Sunday will include special presentations, exhibits and hands-on workshops appropriate to continuing education for weathercasters, but open to all interested. The annual TAPE SWAP will be on Sunday evening. A separate TAPE SWAP for mentoring students is being considered. The Aviation Meteorology Committee is also planning a training workshop for 14 October 2001.

**15-19 October:** ANNUAL MEETING GENERAL SESSIONS from Monday morning through noon on Friday will include a mix of formal presentations, poster sessions, training workshops, and exhibits on a wide variety of topics relating to OPERATIONAL meteorology, hydrology, weather broadcasting, new research applications, and related activities. A special workshop on Downbursts is also being planned. The Annual Awards Banquet will be on Wednesday evening.

The Annual Meeting Program Chairperson is John Livingston, National Weather Service Forecast Office, Spokane, WA, (509) 244-0110x222, E-mail: John.Livingston@noaa.gov.

The Broadcaster Workshop Chairperson is Kristine Kahaneck of WFAA-TV, Dallas, TX, (214) 977-6508; kkahaneck@wfaa.com

**ABSTRACT SUBMISSION: The deadline for submission of abstracts is June 1st, 2001.** Abstracts can be sent via e-mail to the Program Chairperson at John.Livingston@noaa.gov. Please write "NWA Abstract" in the subject box. The abstract may be included within the body of the e-mail or as an attachment. Please include the following information in the e-mail message: full abstract title, author(s) name(s) and affiliation(s)/address(es) [designate which author(s) will be giving the presentation and whether poster or oral presentation is preferred], audio/visual requirements including software (e.g., PowerPoint, Corel, Internet access) and equipment (e.g., laptop PC, overhead projector), and list the primary contact with their phone number and e-mail address.

**ABSTRACTS may also be sent via an Internet online form on the NWA Web site: [www.nwas.org/2001abstracts.html](http://www.nwas.org/2001abstracts.html).** Simply fill out the form in its entirety (you may cut-and-paste your abstract from your word processor into the form), and click on the "Submit Query" button at the bottom of the form.

If you are unable to submit your abstract via e-mail or the online form, please contact John Livingston or the NWA office.

For information on exhibits, accommodations, registration and the overall meeting program, please contact the NWA office at Tel/FAX: (334) 213-0388 or e-mail: NatWeaAsoc@aol.com. Meeting registration fees will be similar to last year and will be published by June 2001 in the Newsletter and on the NWA Web site ([www.nwas.org](http://www.nwas.org)). The meeting agenda will be posted on the NWA Web site and printed in the Newsletter in August 2001.

**NWA ANNUAL MEETING HOTEL INFORMATION:** The WestCoast Ridpath Hotel is in downtown Spokane, Washington. The NWA discount hotel rates are: \$63 for single and \$73 for double/triple/quad. Please call 1-800-325-4000 for reservations and request National Weather Association's special conference rates.

**JOB CORNER**

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*(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](http://www.nwas.org) for more complete details on the following jobs, short notice listings and job links.)*

**DTN/KAVOURAS WEATHER SERVICES** has an immediate job opening for an Operational Meteorologist working in our Meteorological Operations Division at our home office in Burnsville, MN. Applicants should have a B.S. degree in meteorology or atmospheric science and possess keen synoptic meteorology skills enabling the successful candidate to make time critical risk assessment judgements. Excellent computer skills are a plus. The Meteorological Operations Division is a state-of-the-art (24/7) forecast operation located several miles south of Minneapolis, MN. Benefits include health and dental coverage, paid time-off, flexible spending account, and an excellent 401(k) savings plan. If you are interested in joining one of the largest and fastest growing weather and climate forecast teams serving media, aviation, energy, and agriculture industries please send a resume to: DTN/Kavouras, Human Resources, 11400 Rupp Drive, Burnsville, MN 55337-1279; Fax: (952) 882-4500; E-mail: [employee.recruiting@dtn.com](mailto:employee.recruiting@dtn.com) Visit our Web sites for more information: [www.kavouras.com](http://www.kavouras.com), [wx.com](http://wx.com), [dtn.com](http://dtn.com)

**DECISION SYSTEMS TECHNOLOGIES, INC.** is seeking individuals for work in Earth Sciences related positions. DSTI provides scientific and engineering support to NASA, NOAA, USDA and other federal agencies and aerospace companies. We are a small growing company with a heritage of over 20 years of top quality scientific support. **Atmospheric Scientist** needed to support the operation and development for NOAA's Climate Prediction Center/NCEP in the area of soil moisture monitoring and prediction. Applications are towards monthly and seasonal forecast. You should have knowledge and interest in land-surface processing, data analysis and diagnosis involve general statistics and others such as EOFS. Also required is skill in oral and written communication. Required Qualifications: MS or Ph.D. in Earth Sciences with 3-5 years experience in developing applications software in land-surface processing and numerical modeling. Required skills included C, FORTRAN, HTML, GrADS, Meteorology experience, modeling and/or forecasting on UNIX platforms. US Citizen or Visa status eligible for immediate hire is needed. Interested individuals should send/fax/e-mail their resumes and salary requirements to: Decision Systems Technologies, Inc., Attn: Angie Martz, 1700 Research Boulevard, Rockville, MD 20850; Fax: (301) 610-0147; E-mail: [amartz@dsti.com](mailto:amartz@dsti.com). See Web site: [www.rdsc.com](http://www.rdsc.com).

**KENTUCKY Air National Guard** currently has openings for a Weather Officer and some weather specialists. Successful candidates would be eligible to become members of the Kentucky Air National Guard. Enlisted members may be eligible for incentives to include 100% State Tuition Assistance. Individuals would be required to complete appropriate training

and attend one weekend training assembly a month and fifteen days of annual training each year. Officers: Performs, manages, and directs weather operations for Air Force and Army activities. Qualifications: Must have a Bachelors degree with a completion of 24 semester hours of college-level courses in meteorology, including 6 semester hours of dynamic meteorology, 6 semester hours of analysis and prediction of weather systems. Also, undergraduate academic specialization in meteorology or atmospheric science is desirable. Specialists (Enlisted): Performs and manages the collection, analysis, and forecast of atmospheric and space weather conditions, and the tailoring and communication of weather data. Qualifications: Completion of high school with courses in physics, chemistry, earth science, geography, computer sciences, and mathematics is desirable. For more information see Web site: [www.kyloui.ang.af.mil](http://www.kyloui.ang.af.mil) or contact SMSgt Rose Farquhar, Kentucky Air National Guard, (502) 364-9645 or e-mail: [Rose.Farquhar@kyloui.ang.af.mil](mailto:Rose.Farquhar@kyloui.ang.af.mil)

**WEATHERBANK, INC.** has immediate openings for meteorologists at various levels. Successful candidates will be responsible for forecasting a variety of weather parameters and issuing alert statements for industrial and commercial clientele across North America. Each applicant should have at least a B.S. in Meteorology or a related field. Pending degrees are reviewed on an individual basis. Professional forecasting experience, a strong and positive work ethic, and working knowledge of Microsoft® dos, Windows® 98/2000/NT, and Microsoft Excel® are desirable. Most openings are full-time, salaried positions and include WeatherBank's full compliment of benefits including: life, disability, dental and health insurance packages; Cafeteria 125 and 401K plans; paid sick leave, vacations and holidays. Send your resume via fax or E-mail to the attention of: Mr. Steven Root, CCM, President & CEO WeatherBank, Inc., 1015 Waterwood Pkwy., Suite J, Edmond OK 73034; Fax: (405) 341-0115; E-mail: [sroot@weatherbank.com](mailto:sroot@weatherbank.com)

**THE FLEETWEATHER GROUP** continues to expand and is hiring full-time operations and sales professionals for our domestic forecasting and international ship-routing division. Applicants may be experienced or recent graduates who possess strong communication and forecasting skills. Knowledge of state-of-the-art forecast models and radar/satellite imagery a must. Some broadcast and computer experience helpful. If quality of life is an important consideration in your future career, along with the ability to further develop your individual interests and skills, then the Fleetweather Group is for you! We service thousands of weather-sensitive land-based and marine customers worldwide. Fleetweather was founded in 1969 and operates 24 hours a day from its state-of-the-art global forecast center in the safe and scenic Hudson Valley of southeast New York State. Our employees' average commute is 15 minutes! Fleetweather offers a highly competitive package of salary, life-insurance, fully-paid medical benefits, 401K retirement plan, along with profit-sharing and flexible scheduling. Join a company that values its professionals highly and rewards those willing to "go the extra mile." Send a letter, resume, transcript (if recent graduate), and a conventional size audio cassette of 2 sample weather broadcasts (each 30-60 seconds long) to the attention of: John Papp, Vice President, The Fleetweather Group, 2566 Route 52, Hopewell Junction, New York 12533; Fax: (845) 227-7763. E-mail: [fwi@fleetweather.com](mailto:fwi@fleetweather.com)

**Please refer to the last Newsletter and the NWA Web site at [www.nwas.org](http://www.nwas.org) for many other jobs announced earlier that we did not have room for in this issue.**

### **IMPORTANT DATES**

15 April 2001	- Arthur C. Pike Scholarship Applications due
1 June 2001	- Abstracts due for NWA Annual Meeting
13 -19 October 2001	- NWA 26th Annual Meeting

**NATIONAL WEATHER ASSOCIATION**  
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