

PRESIDENT'S MESSAGE

by Steve Weiss

Over the last few weeks of February, hazardous weather events have had major impacts on many sections of the country. A series of storms moving in from the Pacific Ocean had dramatic effects on Southern California producing heavy rains that triggered fatal mudslides and rock falls. Strong winds and even isolated tornadoes produced additional damage. In the east, several winter storms produced substantial amounts of snow from the mid-Atlantic states into New England, while severe thunderstorms across parts of the southern tier of states from California to Georgia reminded us that the upcoming Spring tornado and severe weather season is close at hand. Unfortunately, these types of newsworthy weather events occur with sufficient regularity to have a major effect on the well being of our nation's citizens, impacting not only public safety, but also resulting in major economic costs. According to the *Extreme Weather Sourcebook* (Pielke, Jr., Roger A., and Roberta Klein 2001; <http://sciencepolicy.colorado.edu/sourcebook>) hurricanes, tornadoes, and floods cost the U. S. economy on average more than \$11 billion per year. Of course, in some years, the costs are much higher as evidenced by the 2004 damages estimated by NOAA to be over \$42 billion from the record number of hurricanes and tropical storms. Overall, NOAA states in its Strategic Plan that fully one-third of the national economy, or more than \$3 trillion per year, is sensitive to weather and climate events. So if anyone ever asks you why you are studying or working in weather, aside from the fascination you may have with various types of atmospheric phenomena, you can rightfully say that weather has major impacts on the economy, public safety and even national security — and your efforts can contribute to a better society.

Although Charles Dudley Warner, Mark Twain's collaborator wrote, "Everybody talks about the weather, but nobody does anything about it", that statement is not true today. **We are proud of the wide range of contributions our members make within the growing umbrella of weather and climate services,** such as government, private, and military forecasters who are on the forefront of extending and refining forecasts and warnings of significant events; radio and television weathercasters who serve as the primary source of direct

weather information to the general public; emergency managers working to improve public safety and mitigate natural disaster effects; and, educators at all levels who discover new knowledge and share their insights with students. More and more, the field of operational meteorology is requiring closer collaboration not only between our traditional segments of research, forecasting, and information delivery, but we now must also consider closer interactions with those in the social science community if we are to interact more effectively with the public and specialized groups who depend on our services. For example, since the time of the first official forecasts and storm warnings produced by the U. S. Army Signal Service in the 1870s, it has been known that a forecast is not truly successful unless you get the information to the right people ahead of time, and they know how to respond to it. In many ways, operational meteorology has been working since that time to gradually improve aspects of basic science, applications, and communications.

Those working in the sciences know that the discovery of new knowledge, though exciting and important, is not considered the end result by itself. **There is also an obligation to share new knowledge with colleagues so the value and merits of the discoveries can be discussed and debated.** This is traditionally accomplished using verbal and written communication methods, and these remain a cornerstone of services provided by the NWA. By now you have received the latest issue of the *National Weather Digest* containing a large number of articles related to forecasting topics. The Publications Committee and editors are working hard to remedy recent challenges faced by the *Digest* and we are optimistic it is on the right track. In addition, the *Electronic Journal*, linked through the NWA Home Page, provides another source of operationally relevant research papers, and is especially suited to those containing color images and animations. Of course, the Newsletter has been a regular staple for many years providing a wide variety of timely news about the Association, including committee and local chapter activities, upcoming meetings and conferences, and employment information.

Speaking of upcoming meetings, please note the initial Call for Abstracts for the 30th Annual Meeting on page 2. The Meeting will be held 15-20 October in downtown Saint Louis at the Adam's Mark Hotel, and we are most fortunate to have Professors Jim Moore and

Chuck Graves of Saint Louis University serving as co-chairs of the program committee. The meeting location is immediately adjacent to the famous Gateway Arch, which symbolizes the pioneering exploration by adventurers Lewis and Clark that led to the westward expansion in this country 200 years ago. Lewis and Clark practiced a strong scientific methodology during their journey, taking voluminous notes and sharing their newfound discoveries with many others. Our Saint Louis meeting will embrace their spirit of discovery and sharing of knowledge, and we encourage you to "**Meet us in Saint Louis**" in October.

*Sincerely, Steve Weiss
president@nwas.org*

NWA 30th ANNUAL MEETING

Call for Abstracts

The National Weather Association's 30th Annual Meeting will be held at the Adam's Mark Hotel, Saint Louis, Missouri, from 15-20 October 2005.

The Annual Meeting will include:

15 October, Saturday: Training will be offered by corporate members, exhibits will set up, and the fourth annual golf outing will occur.

16 October, Sunday: WEATHER BROADCASTER WORKSHOPS -- 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 and a portion on Saturday evening if necessary.

17 - 20 October, Monday - Thursday: ANNUAL MEETING GENERAL SESSIONS 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.

The Annual Meeting Program Committee Co-Chairs are: **James Moore**, Saint Louis University, 3507 Laclede Ave., Saint Louis, MO 63103; moore@eas.slu.edu, and **Charles Graves**, Saint Louis University, 3507 Laclede Ave., Saint. Louis, MO 63103; graves@eas.slu.edu. The Broadcaster Workshop Program Chair is **Bryan C. Karrick**, KCCI-TV, 888 Ninth Street, Des Moines, IA 50309-1288; bkarrick@hearst.com. Contact them with your suggestions and to volunteer to help with the program.

ABSTRACT SUBMISSION: **The deadline for submission of abstracts is 1 June 2005.** Abstracts may be sent via an Internet online form on the NWA Web site at: <http://www.nwas.org/2005abstracts.html>. Simply fill out the form in its entirety (you may cut-and-paste your

abstract from your word processing program into the form), and click on the Submit Query button at the bottom of the form. Abstracts can also be sent via e-mail to moore@eas.slu.edu. Please write NWA Abstract in the subject box. The abstract may be included within the body of the e-mail or as a WordPerfect or Microsoft Word 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.

If you are unable to submit your abstract via e-mail or the online form, please contact the NWA office at Tel/Fax: (434) 296-9966.

Presenters will be notified regarding the disposition of their abstracts by 15 August 2005. Prior to the meeting an FTP site will be established for authors to upload their presentations so that they can be run on NWA computers. This will facilitate a smooth transition from one speaker to the next during the Annual Meeting sessions.

ANNUAL MEETING HOTEL INFORMATION:

The Adam's Mark Hotel is at 4th and Chestnut Streets, Saint Louis, Missouri 63102. It is a full-service hotel and just across the street from the Gateway Arch. The NWA discount room rates are \$99 plus tax for a single, double, triple or quad room. The discount rate will be honored three days before Group arrival through three days after Group departure.

To reserve a room, please call the Adam's Mark Hotel at 1-800-444-2326 and request the group rate for National Weather Association.

Please reserve your hotel room NO LATER THAN 15 September 2005 to be able to obtain the NWA discount rate.

Thanks to Betsy Kling, the Fourth Annual Golf Outing is being scheduled for Saturday, 15 October to benefit the NWA Scholarship Fund.

The NWA Annual Awards Luncheon will be at the Adam's Mark Hotel on Wednesday, 19 October.

The preliminary agenda is expected to be published in early August in the Newsletter and on the NWA Web site (www.nwas.org). Registration information and forms will be available on the Web site and Newsletter by June.

For more information on exhibits, special accommodations, registration and the overall meeting program, please contact the NWA office at Tel/FAX: (434) 296-9966 or e-mail: NatWeaAsoc@aol.com.

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James Moore (moore@eas.slu.edu) and **Charles Graves** (graves@eas.slu.edu) (see page 2)

Publications committee is looking for
ideas for new designs
for the Newsletter and *Digest*.

If you have any, please e-mail them in to
natweasoc@aol.com

BROADCAST COMMITTEE NEWS

Weather Team Etiquette...

I have been very fortunate and I will never deny it. I got my first full-time job as Chief Meteorologist for WKJG TV (now it's WISE 33) in Fort Wayne, Indiana, back in 1986, and I have been lucky enough to be the chief meteorologist in Austin, Texas, Johnstown, Pennsylvania, and at my current home in Cincinnati, Ohio. For those people reading this that are not in television, the job of chief is the most coveted in broadcast meteorology. Many people work mornings and weekends for years hoping to be a chief somewhere. The chief gets the best salary, the best hours and the most promotion on the weather team, but the chief has the most responsibility and is the most visible in the local community. However, just because I have had the same position during my career doesn't mean that I don't understand the challenges of the other shifts, or respect the other members of my team.

Quite often, I will hear stories of unprofessional behavior, poor communication or bad feelings in a weather team, and I just don't get it. There is always competition, and I understand the desire of morning and weekend people to move up, but it is incumbent on all the team members to work together. I have been lucky in another way. I have had people around me over the past 5 years who have been phenomenal. They did their jobs professionally, with a smile and you would never know they wanted anything more than what they were doing until they left for a better job. My current team is no different, and while I know they want better hours and more money, they genuinely enjoy doing what they do right now.

So what is my secret to happiness? Teamwork. I know, it sounds like a cliché, but it works. Everyone on the team is responsible for a smooth operation and it starts with you. You must be positive even when those around you are not. You must be a professional even in an atmosphere that seems to breed discontent. You must do your best to keep the lines of communication open with the rest of your team, even if that means being a little more persistent. If you do those things and there are still problems, then know that you have done your best and consider moving on when your contract nears its end. My job as the chief adds one more level of responsibility to the team. I am the one who sets the tone for the weather department. I will create the weather philosophy or strengthen an existing one. Some chiefs are involved in hiring new weather people, purchasing new equipment and setting schedules. Most of all, the chief meteorologist is the team leader and must set a good example for the rest. Sadly, I see too many chiefs who let their ego decide how they treat others or make department decisions. Then I hear from the unhappy folks under them who just want to get out or see the chief get fired. That's too bad, but it's part of this business. The best way to handle a bad situation is to be above it – to do your best every day and work toward greater things down the road. Don't get

dragged down by negative influences around you. Treat those around you with respect and encourage creativity. Remember, you're part of a team, and if you shine, others may follow your example.

Send your thoughts to me at rapuzzo@fuse.net

- Rich Apuzzo, Broadcast Meteorology Committee Chair

LOCAL CHAPTER NEWS

The High Plains NWA/AMS Chapter met on 24 February 2005 and President Entwistle gave a very good overview of the Aviation Weather Center (AWC) in north Kansas City. He recently accepted the position of Science and Operations Officer at the AWC and will be leaving the NWS Forecast Office in Goodland to start his new AWC job around 20 March.

A report was given from the North Platte members on the status of the Ninth Annual High Plains conference, scheduled for 5-7 October 2005 in North Platte, NE. Member Tom Wachs, meteorologist with KNOP-TV/North Platte is trying to allure broadcast meteorologists to this conference by suggesting a media panel discussion for smaller market broadcasters. A call for papers will go out soon.

Rick Ewald, NWS Hastings, NE, told us of upcoming plans for the 25-year anniversary of the famed Grand Island tornado (6/3/80). There may be a meteorological consortium the evening of 2 June, and a more public commemoration on 3 June.

Following the AWC presentation by President Entwistle, the chapter thanked Bruce for his many hours and dedication to the chapter and helping to lift it to award winning status.

- Tim Burke, Vice President

ON-LINE COASTAL DATA VIEWER

The Coast Survey Development Laboratory (CSDL) of NOAA's National Ocean Service released version 2.0 of its web mapping portal called *nowCOAST*. The Web portal allows the nation's coastal community to quickly display on-line, real-time coastal observations, and NOAA forecasts for any coastal region in the U.S. The new version features several enhancements including: 1) a new map viewer, 2) a separate 'Databrowser' window, 3) an accompanying informational Web page, and 4) new links to additional observations and NOAA forecasts. The new version is available at <http://nowcoast.noaa.gov>.

The new version also includes links to observations from surface current radars commonly referred to as CODARs, NOAA's new Climate Reference Network stations and DCNet/URBANET. In terms of NOAA forecast products, the portal now includes links to 121 coastal locations with NWS Marine Model Output Statistics (MOS) forecast guidance and NWS surf zone forecasts. The marine MOS consist of three-hourly forecasts of wind direction, wind speed, air temperature, and dewpoint temperature out to 84 hours.

- John G. W. Kelley, NOS

MEETINGS OF INTEREST

• **The Ninth Annual Severe Storms and Doppler Radar Conference will be held 31 March – 2 April 2005 in West Des Moines, Iowa at the Marriott Hotel.** The Central Iowa NWA chapter sponsors it. Speakers this year include Paul Markowski, Professor, Penn State University; Paul Kocin, Meteorologist, The Weather Channel; Tim Samaras, Storm Chaser; and, Allen Strum of WEAR-TV3, Pensacola, FL, who will talk about Hurricane Ivan, John MacLaughlin, from KCCI-TV and Daryl Herzmann from Iowa State will conduct a radar workshop, and Brian Smith from the NWS office in Omaha will discuss the Hallam, NE tornado. Information and registration details can be found at Web site: www.iowa-nwa.com.

• **The Third Annual Great Lakes Meteorology Conference will be held on 9 April 2005 at the Heston Hills Banquet Center in LaPorte, Indiana.** The conference is being organized by the Northwest Indiana NWA Chapter at Valparaiso University. Registration, abstract submission forms and other conference information are at Web site: www.valpo.edu/geomet/met/nwa/conference.html. Questions should be directed to the chapter president Adam French at adam.french@valpo.edu.

• **AIR-MASS 2005 Mid-America Storm Symposium will be held 14 – 15 April 2005 in Wichita, Kansas.** The Wichita AMS & NWA Chapter sponsors it. The conference will be held at the historic Radisson Broadview Hotel. In addition to the science-sharing presentations, a couple of special events are planned including a commemoration of the 50th anniversary of the Udall, Kansas, tornado. The invited guest speakers are Don Burgess, renowned radar expert and retired assistant director of NOAA/NSSL; Dr. Hugh Christian, lightning research team head at the Global Hydrology and Climate Center; Mike Looney, chief, Meteorological Services Division at NOAA/NWS Central Region Headquarters; Mike Smith, CEO, WeatherData, Inc.; Dave Freeman, chief meteorologist at KSNW-TV; and Steve Weiss, science and operations officer at the NOAA/NWS/NCEP Storm Prediction Center and NWA President. See Web site: wichita-amsnwa.org/index.php for more details.

• **The Ninth Annual Ohio Severe Weather Symposium will be held on 15 April 2005 at the Fawcett Center Auditorium on the Ohio State University (OSU) campus in Columbus, Ohio.** It is hosted by The OSU Department of Geography, in conjunction with the National Weather Service Forecast Office and Ohio River Forecast Center in Wilmington, Ohio. It will run from 8 AM - 4 PM, and will feature speakers that deal with various aspects of meteorology, especially those related to severe weather. Speakers expected include Dr. Louis Uccellini (Director of NOAA/NWS/National Centers for Environmental Prediction), Dr. Josh Wurman (Center for Severe Weather Research), Dan McCarthy, Dr. Harold Brooks and Tim Vasquez. Tim will hold the first-ever *Forecast School* at this year's symposium. An up-to-date listing of speakers, the schedule of events, and directions to the Fawcett Center can be found on the Meteorology Club's Web site: geog-www.sbs.ohio-state.edu/metclub. The event is free and open to the public. Those interested in attending can RSVP with their name, affiliation, address, phone number and e-mail address to: jrb_storm@yahoo.com

ANNOUNCING:

The AccuWeather Undergraduate Scholarship in Meteorology

Thanks to the generosity of AccuWeather, Inc., this scholarship opportunity is available from the NWA.

Offering: One \$1000 scholarship per year.

Starting Date: This year (2005) will be the second time the scholarship has been offered.

Administration: The scholarship selection will be administered by the NWA Education Committee. The NWA office announces the call for applications in March, applications close 15 May and the scholarship designee will be notified by mid-June.

Eligibility: Undergraduate students going into their sophomore year or higher grade and majoring in operational meteorology (forecasting, broadcasting or consulting) may apply. If the undergraduate student is classified as a senior they must have one more fall (Sep. – Dec.) semester to complete after the scholarship is awarded.

Award Criteria: The scholarship will be awarded based on:

- official college transcripts (academic achievement),
- two letters of recommendation (at least one from a current or former meteorology professor),
- a letter (not longer than one page) from applicant describing their involvement/interest in operational meteorology.

Logistics: Scholarship money will be transferred following the financial guidelines of the college or university involved. If there aren't any financial guidelines from the school, NWA will make the \$1,000 check payable to both the student and the educational institution at the beginning of the September - December semester or quarter.

Applications for the NWA AccuWeather Undergraduate Scholarship in Meteorology to be awarded in 2005 must be submitted to the NWA office by 15 May 2005. The office address is on the application form. The application form is available to copy from the NWA Web site at: www.nwas.org/accuweatherscholarship_app.html or it can be obtained from the NWA office at Tel/Fax: (434) 296-9966.

NWA 2004 MEMBERSHIP SURVEY RESULTS

Compiled by Cynthia A. Nelson, NWA Asst. Exec. Director

This is a continuation of the NWA 2004 Membership Survey results and provides the responses for questions 4. D, F and G. The results for 4. A, B, C and E were included in the January 2005 newsletter.

To reiterate, by mid 2004, the total number of members responding to the NWA Survey was 1,546. This represents about 50% of the membership. The Survey questionnaire was included as part of the 2004 annual dues statement that was mailed near the end of 2003. Not all participants provided responses to all of the survey questions. The survey question is *in italics* and is followed by the compilation of the responses, which may include a figure. The actual number of responses on a question, or part of a question, is included in parentheses as appropriate.

4. What issues should NWA members be concerned with over the next two years?

D. ___ Training and education ___ for members ___ for the public and/or ___ for children

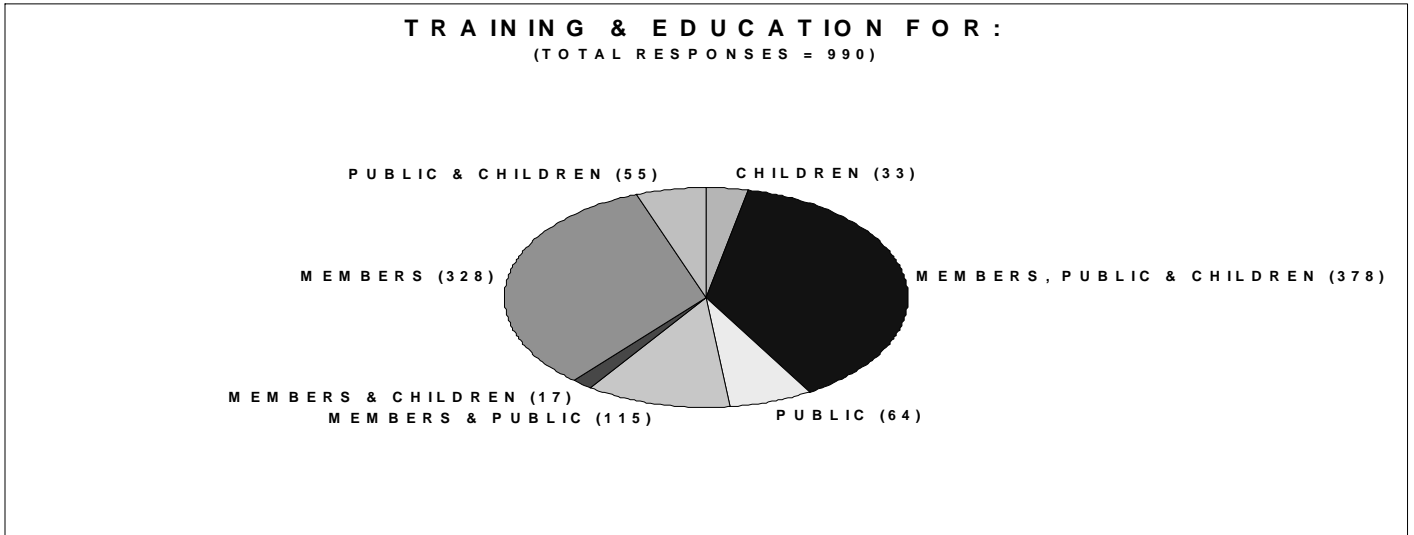


Figure 3 c. This chart shows that the majority of responders indicated they were concerned about the issue of education for all sectors (members, public and children), with training and education for just members a close second in importance.

F. ___ The need for more comprehensive weather information getting to the public through ___ TV, ___ Internet, and/or ___ radio

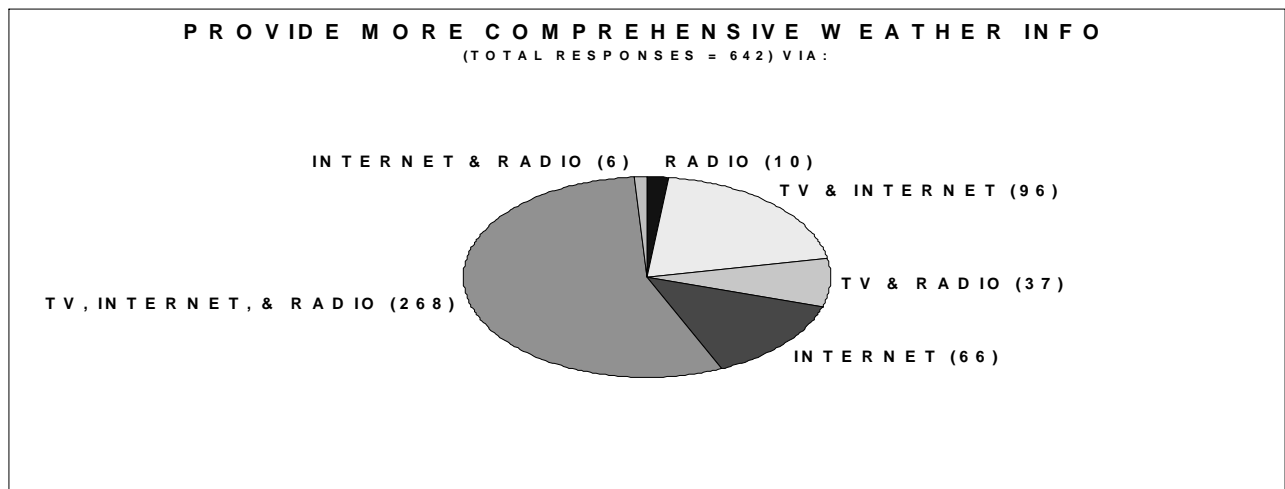


Figure 3 d. This chart shows that most responders supported all methods (TV, Internet, and radio) of providing more comprehensive weather information.

The following are specific comments from survey participants for question **4. G Other suggested issues**, grouped by similarity of response (**bold type**) with comments included. The number of same or similar comments is listed in parentheses, if appropriate.

NWA policies/programs (34) - fight NWS plans to eliminate offices and forecasters; better advertisement of Electronic Journal; encourage submissions to the Digest, etc; chat service among members - bring members closer; charge more to give group benefits/educational credits & financial benefits; continue to include NWS changes; get publications out in timely manner; greater support for science-sharing conference hosted by local chapters; address concerns of aviation community - general and commercial; increase communication between members through panel discussions at meetings; form a position on forecast automation and future role of humans in forecasting; what is the future role of forecast/meteorology; insist on distinguishing testable scientific vs. consensus opinions - climate change; observations, make public aware of the importance of our work/rigorous training we undergo - for little pay; join with AMS and lobby Congress for support of NOAA/NWS budget; disparaging remarks should be challenged and reprimanded by NWA; press for better NOAA Weather Radio coverage; initiate programs for young women to gain insight into field, like Sally Ride Program; promote of use of weather information by commerce & industry; promote better standards & qualifications for professional title of meteorologist; promote more research applicable to all; realistic outlook of the need for meteorologists in future - not need operational forecaster of today, begin to get message to educators and restructure education for interested meteorologists; recruiting; reduce annual dues for retired people (*done, dues is one-half of regular*); set standard for meteorologist; services/education for minority groups - special needs groups; strong pressure for more funding - pub/private; synoptic emphasis lacking; need climate journal; work to avoid scale down of NWS on all fronts;

Pubic/Private (18) - active promotion of public sector weather services delivered from NWS Forecast Offices; better understanding of private sector meteorologists by government & academia; continue public education that all forecasts on TV/commercial are not NWS Products; cooperation between NWS & private weather companies & customers; cooperative partners fund future meteorologists; improve partnership-public/private; increase wages and working conditions in private sector - unions?; operational partnerships for operational data/analysis /applications/prediction; better interaction of US weather services; outreach between NWS & military; overcome negative attitudes toward NOAA meteorologists by private side; mandating off-site produced weathercasts are identified to public as such; NWS expansion is not increased competition with commercial weather industry in violation of policy; need new markets/opportunities, more publicity on role of NWS as basic supplier of weather information; inform public about where forecast is from, ensure credit given;

National Policies (16) - Center Weather Service Units may be changed by FAA; easier access to original weather maps, fronts, isobars, etc.; have UKMET model data shared - more than present; cell phones and weather dissemination in networking of current weather data; increase aviation outreach to area of pilot training; increase meteorological data spatially; increase observations for both land & ocean; improve quality & quantity of data & technology, observational equipment & coding; more interaction with emergency management communities; usage of digital data and forecast information; digital services forum; standards for digital data fields; weather hazard education & safety; weather research been neglected - without investment in basic research, operational forecast improvements will be slow or stop;

Broadcast/media concerns (13) - some broadcast meteorologists confuse viewers and listeners with too many facts; broadcast seal program should require applicants to be meteorologists; educate those in TV business about current capabilities; ensuring quality broadcast seal program & holders; expanding employment opportunities for meteorologists; educating TV news directors; effective partnerships between various sectors and end-users; monitor future broadcast trends in business such as centralization in broadcast TV; help with attaining seal; more stringent grading of tapes submitted in application for broadcast seal, more broadcaster workshop devoted to business and on air challenges; need less hype for severe weather - get less response - desensitized; staying competitive in TV business; take advantage of opportunity to expand /highlight broadcast seal/participation; treat NWA Seal with more authority;

Education (12) - continuing education to keep meteorologists up-to date with new technology & customer needs; better information training; aviation weather training to pilots/dispatchers, directors & general managers about weather importance; half day training for kids at conferences; increase communication skills for meteorologists dealing with public; increase skill & local knowledge of need for NWP - in harmony with rest; more educational opportunity for students, more education to incoming meteorology students as to current state of the industry; increase quality of education among TV meteorologists; school outreach programs; schools should integrate severe weather preparedness in early years; increase training and education for teachers; use of online classes to refresh;

Forecasting (10) - accurate forecasts are more important than pretty pictures; need active spotters for all-season weather events; air quality; increase verification and innovative uses of National Digital Forecast Database (NDFD); medium range forecasting, more discussion of tropical meteorology, long-range forecasting; probabilistic forecasts; role of humans/value of local knowledge/mesoscale expertise; techniques for weather/climate modification;

Technology (7) integration of weather data & geospatial information through co-registration of weather with hi-resolution digital terrain; more graphical data presentations; most important to infuse new technology into mainstream operations and communication systems; tie together data management, products & services, forecast tools and intra-agency research via Internet; wireless advances; wireless palm computers; satellite TV; and

Global Weather/Climate (2) - balanced views on global warming and extended forecasts, and global environmental issues clarification.

Members are welcome to expand on these issues in suggestions to NWA Council members, letters to the editors, articles for the Newsletter and Digest, or remarks for the Sound Off section of the NWA Web site.

AVIATION COMMITTEE NEWS – FLIGHT SERVICE STN CHANGES

The U. S. Department of Transportation's Federal Aviation Administration (FAA) has selected a team headed by Lockheed Martin to provide services now offered by the agency's automated flight service stations. These services include flight weather briefings for pilots. The Flight Service Station products will continue to be available as a free government service.

A competition was conducted under the Office of Management and Budget's guidelines for competitive sourcing of government services. According to the FAA's public affairs release, the FAA reached its decision after evaluating proposals from several potential service providers including the "incumbent government organization." While the Lockheed-Martin team will be the contract service provider, the services have not been privatized; the government still retains the ultimate responsibility for the providing these services. The Lockheed Martin contract will begin in October of this year and continue for five years. The FAA has the option of extending the contract for up to five additional years. The Lockheed-Martin plan is expected to reduce the number of flight service stations from the current 58 sites to approximately 20 sites by March 2007.

Additional information can be found at the following Web sites:

FAA: http://www.faa.gov/newsroom/A_76.cfm

Lockheed-Martin: <http://www.lmafsshr.com/>

- Tim Oram, Aviation Weather Committee Chair

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 the complete announcements and job links. Members who do not have Internet capability may request announcements from the NWA office at (434) 296-9966. Employers should send job announcements via e-mail to NatWeaAsoc@aol.com.

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Submit newsletter items directly to: Editor NWA Newsletter, at nwanewsletter@nwas.org 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 *National Weather Digest* as part of their regular, student or corporate membership privileges. 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.

IMPORTANT DATES AND EVENTS

23 March – World Meteorological Day

31 March – 2 April – Ninth Severe Storms & Doppler Radar Conference, West Des Moines, Iowa

9 April – Third Great Lakes Meteorology Conference
LaPorte, Indiana

14 – 15 April – AIR-MASS 2005 Wichita, Kansas

15 April – Ninth Ohio Severe Weather Symposium
Columbus, Ohio

15 April – NWA Scholarship applications due (Jan Newsletter)

15 May – Applications due for NWA AccuWeather Undergraduate Scholarship (pg 5)

1 June – Abstracts due for NWA Annual Meeting (pg 2)

15-20 October – NWA Annual Meeting, Saint Louis (pg 2)

Please see **MEETINGS** on page 5 for additional dates

Also check www.nwas.org/meetings/meetings.html

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