

PRESIDENT'S MESSAGE

by Alan Gerard

Last month I mentioned the NWA Council would discuss if the NWA should play a role in advocating some key issues facing the operational meteorological community. President Elect John Scala and Past President David Knapp have drafted an article that provides an overview of the NWA Advocacy Program. I have decided to run that article as the President's Message this month.

- Alan Gerard, president@nwas.org

The mission of the National Weather Association is "to support and promote excellence in operational meteorology and related activities." This includes, but is not limited to the objective of providing a forum for the "publishing of letters, pamphlets, periodicals, papers, and Web pages" in meteorology and associated fields. The NWA also acts on behalf of its membership to raise awareness of important issues relevant to the mission of the organization.

The NWA Council recently formalized a set of advocacy guidelines directing an organizational response to unsolicited comments, positions, or opinions on a wide variety of issues, including but not limited to the mission of the NWA. Requests for advocacy may originate from outside the meteorological community or within the membership of the NWA. For example, the NWA was recently asked to endorse and approve for distribution a statement in support of the GPS-Meteorology network. The letter of support was developed by the NWA Remote Sensing Committee, approved by the NWA Council and distributed by the Executive Director. The NWA's advocacy in this regard was acknowledged by several high ranking officials within NOAA adding significant weight to what many in our discipline feel is a critical and necessary improvement to the remote sensing of the atmospheric column.

The advocacy protocol determines whether: 1) a response from the NWA is warranted, 2) who should issue the response, and 3) in what form that response should be disseminated. The process of preparing a response would also consider its purpose (e.g., raising public awareness, issuing a position statement, etc). The protocol also provides an avenue for the NWA to issue a statement of its own in service to the operational community or within the context of the general public. For example, the NWA may decide to raise lightning awareness in conjunction with an NWS severe weather awareness week, advocate a position or policy concerning an issue of public or professional interest or issue a seasonal reminder of a safety guideline.

The necessity for a set of advocacy guidelines has never been more pertinent than at present with climate change at the forefront of both scientific and public policy debate. The NWA President and Council will utilize this protocol to issue position statements or respond to inquiries which are in the best interest of its membership and which conform to the ideals of its mission.

The advocacy guidelines are posted on the NWA Web site in the How the NWA Works section at www.nwas.org/nwa-works.html.

- John Scala, NWA President Elect

- David Knapp, NWA Past President

NWA Midyear Council Meeting

The NWA Council held their Midyear Meeting May 18-19 at the new NWA National Headquarters located in Raleigh, North Carolina, and took this photo in front of NWA Headquarters. Those pictured are; back row (*l to r*) Bruce Thomas, Cynthia Nelson, Lans Rothfusz, Dr. Patrick Market, Ruth Aiken, Elizabeth Page and Alan Gerard. Bottom row; (*l to r*) Kevin Lavin, Ralph Ferraro, Steve Zubrick, Steve Harned, Dr. Greg Byrd, Dave Knapp, Dr. John Scala, Rich Okulski and Byran Karrick.



NWA Weathercaster Seals Awarded

Thirteen members were awarded the NWA Weathercaster Seal of Approval between October 1, 2006 and May 31 of this year. The names of those awarded the Seal are listed below. Congratulations to each of you!

The Seal certification number format (yymm####) includes the last two digits of the approval year and two digits for the approval month followed by a successive number (numbers began with 101). To view the entire list NWA Weathercaster Sealholders, or to learn more about applying for the NWA Weathercasters Seal of Approval, go to nwas.org/seal-holders.html.

Seal Holder & Number	Station & City
Shane Charlton Holinde 0611931	WBKO-TV Bowling Green, KY
Travis Koshko 0611932	FOX 8 / ABC 23 / Peak Media, LLC Johnstown, PA
Michael C. Morrissey 0611933	Fort Wayne Metals Fort Wayne, IN
Ray Petelin 0611934	WSEE-TV Erie, PA
Vivian Brown 0611935	The Weather Channel Atlanta, GA
Morgan Palmer 0612936	KLTV (ABC) Tyler, TX
Ivan Cabrera 0612937	WESH 2 / Hearst Argyle TV Group. Winter Park, FL
Andrea Romero Higgins 0702938	WNJU-47 Telemundo Pomona, NY
Andrea Rich 0702939	KDRV-TV Medford, OR
Wesley A. Wyatt 0703940	WVUA-TV7 Tuscaloosa, AL
Derek Beasley 0705941	WLWT-TV5 Cincinnati, OH
Scott Lighty 0705942	WKYT CH27 TV Lexington, KY
Brian Davis 0705943 (Radio)	WPMR 95.7 FM- Radio Russellville, AL

Local Chapter News

The new Southeast Wyoming, Western Nebraska and Northern Colorado Chapter of the NWA, known as WYNECO, has elected officers and started holding meetings. The officers are President Andy Mercer, Vice President Dale Karl and Secretary/Treasurer Judy Fossum. The new chapter is based in Cheyenne, Wyoming.

- Judy Fossum, Secretary and Treasurer

A Must See Storm Review

The NOAA/NWS Office in Green Bay, Wisconsin, has placed a detailed review of a severe weather event that affected central and northeast Wisconsin on June 7, 2007, on their Web page. Excerpts from that review are included here, but there are images on the Web page that are incredible. The images include the long-track tornado damage path as captured by the Aqua MODIS satellite, a gigantic hail stone, aerial views of the damage as well as radar loops, other satellite images and tornado pictures. To see the entire report and the images, go to <http://www.crh.noaa.gov/grb/?n=070607>.

Here are excerpts the NOAA/NWS Green Bay report.

Fast moving supercell thunderstorms with damaging winds, hail larger than 5 inches in diameter, and tornadoes ripped across central and northeast Wisconsin on June 7, 2007. Five tornadoes touched down in central and northeast Wisconsin.

A long-track tornado touched down at 4:31 p.m. east of Mattoon in Shawano County and continued northeast to the Oconto-Marinette County line. The tornado was on the ground for at least 40 miles and was over 1/2 mile wide at times. Over 14000 acres of trees were snapped or flattened and many dozens of buildings were damaged or destroyed. The twister was rated an EF-3 on the Enhanced Fujita scale, with estimated winds of 140 to 160 mph. Damage by this tornado alone will likely exceed \$3 million.

Hailstones of 4 to 5+ inches in diameter fell across Port Edwards and Wisconsin Rapids in Wood County around 4:30 p.m. An unconfirmed report of a 5.75" hailstone in Port Edwards is being investigated. That would be the largest hailstone in Wisconsin's recorded weather history. A 5.5" stone has been confirmed in Port Edwards.

Barry Brings Record Rainfall

The 2007 Atlantic Hurricane Season started on June 1 with the formation of Tropical Storm Barry. Subtropical Storm Andrea got a head start on the season, forming on May 9, but it was Barry who brought much needed rain to drought-stricken areas of the Southeast U.S.

Over three inches of rain fell in West Palm Beach, FL on June 1, and a new record rainfall amount for the day was set on June 2 when 3.73" fell. Jacksonville, FL also broke a record on June 2 after receiving 3.64" to surpass the old record of 2.53" set in 1976. Other June 2 record rainfall amounts included 4.01" in Alma, GA, 3.64" in Brunswick, GA, and 5.28" in Melbourne, FL where the old record was 1.43" set in 1967, and the 5.28" set a new daily maximum for the month breaking the old record of 5.00" set on June 23, 1984.

Rains would be welcome in Alabama and nearby states where "Exceptional Drought" conditions exist. See drought maps at www.drought.unl.edu/dm/monitor.html.

New Probabilistic Excessive Rainfall Products Unveiled

On June 5, 2007, the Hydrometeorological Prediction Center (HPC) started issuing Day 2 (98e) and Day 3 (99e) probabilistic excessive rainfall forecasts. These products were requested by the NWS WFO (Weather Forecast Office) Tropical Hazards and the NWS QPF (Quantitative Precipitation Forecast) Improvement Teams. They are available on the HPC Excessive Rainfall Web page www.hpc.ncep.noaa.gov/qpf/excess_rain.shtml, and made part of the Tropical Cyclone Hazard Graphics (TCHG) that will be posted on a WFO Web page when an HLS (Hurricane Local Statement) is issued by the WFO.

These products are similar to the Day 1 (94e) gridded (5 km) probabilistic excessive rainfall forecast, and compliment the Day 2 (98q) and Day 3 (99q) 24-hour QPFs issued by HPC. Due to more uncertainty at longer time periods, HPC will not use the High Risk category. Also, there is no discussion associated with the graphic.

Issuance times are 0630UTC/1830UTC for Day 2 and 0830UTC/2030UTC for Day 3. The products are distributed on the AWIPS/SBN datastream. The WMO headers are MENS98 KWNH for Day 2 and MENU98 KWNH for Day 3.

Probabilistic excessive rainfall forecasts are dependent on forecast rainfall rates and NWS River Forecast Center provided Flash Flood Guidance (FFG). As of this writing, there is no FFG for Day 2 and Day 3 so HPC will use the Day 1 FFG as initial guidance for these products until a better method becomes available.

- Mike Eckert, Hydrometeorological Prediction Center

Member News at the NWS

Brigadier General David L. Johnson, USAF (Ret.), and a NWA member, will be retiring as NOAA Assistant Administrator for Weather Services and Director of the National Weather Service (NWS) effective June 30, 2007, a position he has held since January 2004. Under his leadership, the NWS performed exceptionally well during significant weather events that include but are not limited to the record setting 2005 Hurricane Season and the recent tornado outbreak in Kansas. He was also instrumental in standing up the national and international Tsunami Warning System and bringing it to initial operating capability ahead of projected milestones. General Johnson served for 30 years as a United States Air Force officer prior to joining NOAA and the NWS.

John Jones, the Deputy Assistant Administrator for Weather Services and Deputy Director of the NWS will be retiring from Federal service on June 30, 2007, after almost 35 years of Federal Service - with almost 34 of those years at NOAA. He has been a key member of the NOAA leadership team and a top contributor for many years. A NWA charter and current member, John served as a Councilor for the NWA in 1992 and 1993.

Dr. John L. "Jack" Hayes will assume the position of NOAA Assistant Administrator for Weather Services and Director of the NWS beginning September 2, 2007.

Jack received his Ph.D. and M.S. in Meteorology from the U.S. Navy Postgraduate School in Monterey, California. He holds an undergraduate degree in mathematics from Bowling Green State University.

Jack rejoins NOAA having served the past 1 ½ years as the Director of the World Weather Watch Department, World Meteorological Organization (WMO). In this position, he was responsible for the Global Observing System, Global Telecommunications System, and Global Data Processing and Forecasting System, which provide the foundation for operational weather forecasting and warning services in WMO Member countries worldwide.

Prior to leaving NOAA, Jack served in a number of Senior Executive positions. He served as the Deputy Assistant Administrator, Office of Oceanic and Atmospheric Research and as the Deputy Assistant Administrator, NOAA's Ocean Service. In addition, Jack served at NWS as the Director, Office of Science and Technology. He is a NWA member and served as a NWA Councilor from 1996 to 1997.

Mary Glackin will serve as acting Assistant Administrator for Weather Services and Director, NWS from June 11, 2007 until Jack returns. She is currently the NOAA Assistant Administrator for Program Planning and Integration.

Vickie Nadolski, Director of the NWS Western Region, will serve as the Acting Deputy Assistant Administrator for the Weather Services until a permanent replacement is appointed for this position. -NOAA

NWA Sol Hirsch Education Fund Grants

The NWA awards \$500 grants to seven or more K-12 teachers to help them improve their meteorology education programs. The grants honor Sol Hirsch, who retired in 1992 after being the NWA Executive Director for 11 years.

Applications are due by 1 August 2007

Send completed applications to the NWA Office

NWA Education Committee
P.O. Box 15011
Baltimore, MD 21282-5011

Visit the NWA Web site www.nwas.org/solhirsch.html for application instructions, or contact the NWA Office at exdir@nwas.org or Tel/Fax: (919) 845-1546.

What can I do?

Notify teachers in your area of these grants and encourage them to apply!

Professional Development Opportunities

- **The Annual Hazards Research and Applications Workshop will be held 8-11 July 2007 at The Millennium Harvest House Hotel in Boulder, Colorado.** It is sponsored by the Natural Hazards Center at the University of Colorado at Boulder. The Annual Hazards Research and Applications Workshop is designed to bring members of the hazards research and applications communities together for face-to-face networking and discussion about current issues and trends that affect how society deals with hazards and disasters. It will provide a dynamic, provocative, and challenging forum for the diverse opinions and perspectives of the hazards multidisciplinary community. For more information on this conference, go to the following Web site, or contact Diane Smith at (303) 492-6818. <http://www.colorado.edu/hazards/workshop/current.html>
- **The Third National Surface Transportation Weather Symposium will be held 25-27 July 2007 at the Sheraton Premiere at Tysons Corner in Vienna, Virginia.** The theme of the symposium is "Improving commerce and reducing deaths and injuries through innovative, weather-related R&D and applications for the surface transportation system." This symposium is sponsored by the Office of the Federal Coordinator for Meteorological Services and Supporting Research and the Federal Highway Administration. Details on symposium logistics, a tentative agenda, and additional symposium materials are available at <http://www.ofcm.gov/wist/wist.htm>.
- **The 11th Annual High Plains Conference will be held 16-17 August 2007 at the Wilson Center on the campus of Hastings College in Hastings, Nebraska.** The conference is sponsored by the High Plains Chapter of the NWA/AMS. The theme centers on weather that affects the U.S. Central and High plains. Abstracts, Word documents one page or less, are due 20 July and may be sent to rick.ewald@noaa.gov. Authors will be notified of acceptance of abstracts via e-mail by 27 July. University students are encouraged to submit abstracts for the conference, and a cash award will be presented for the top presentation in both the graduate and undergraduate divisions. Preliminary program, registration, hotel and general information will be posted on the High Plains Chapter Web site www.highplains-amsnwa.org. You may also contact one of the committee members listed below, at 402-462-2127. Committee members are Rick Ewald, Aaron Johnson, Mike Moritz and Jeremy Wesely
- **The 16th U.S.-Canadian Great Lakes Operational Meteorology (GLOM) Workshop will be held 5-7 September 2007 at the University of Wisconsin-Milwaukee School of Continuing Education Conference Center in Milwaukee, Wisconsin.** Hosts for the workshop are the NOAA/NWS Milwaukee/Sullivan and Green Bay offices in Wisconsin. Please submit abstracts by 23 July to w-grb.webmaster@noaa.gov. The deadline to register for the workshop is 23 July. More workshop information, including on-line registration forms, is available at the Web site www.crh.noaa.gov/grb/?n=GLOM.

Contacts are Gene Brusky at gene.brusky@noaa.gov or (920) 494-5845 ext. 766, or Ken Rizzo at Kenneth.rizzo@noaa.gov.

- **The Fourth Symposium on Southwest Hydrometeorology will be held 20-21 September 2007, at the Tucson Hilton East Hotel in Tucson, Arizona.** The symposium is co-sponsored by COMET, The National Weather Service, Vaisala, Inc., The University of Arizona Department of Atmospheric Sciences, The University of Arizona Department of Hydrology, Climate Assessment for the Southwest (CLIMAS), and the Institute for the Study of Planet Earth. The symposium will provide a forum to discuss and present research issues associated with mid-latitude, subtropical, and tropical weather systems that affect the Southwest United States, and discuss the resulting impact on hydrologic systems. Because of the wide range of climatic zones in the region (i.e. deserts, savannah, alpine), the breadth of relevant topics is large. Session topics will include hydrometeorology integration, climate science and annual prediction, monsoon forecasting, extreme water and weather events in the Southwest U.S., ensemble and probabilistic forecasting, and quantitative precipitation estimation (QPE). The two-day symposium will include both oral and poster presentations. Presentations from undergraduate and graduate students are highly desired and welcome. Since the last symposium in 2002, there have been considerable advances in both hydrologic and meteorological science – so much so that the two have become increasingly interrelated. Extensive, ongoing research is underway through the North American Monsoon Experiment. Deterministic, ensemble and probabilistic forecasting has advanced. Close working relationships across academic, government and private sectors have opened new areas of investigation, and challenge us with new questions on how to add value to both weather and water forecasts. This symposium seeks to strengthen these relationships and continue to advance our understanding of the complex weather and hydrologic forecast issues in the Southwest U.S. Detailed information about the symposium can be found at <http://www.atmo.arizona.edu/swhs/>. Abstracts should be submitted electronically via the symposium Web page no later than 15 July 2007. The conference fee is only \$25, which will be collected at the conference. We will not be able to process credit cards.
- **The 32nd NWA Annual Meeting will be held 13-18 October 2007 at Circus Circus Reno in Reno, Nevada.** See the NWA Web site www.nwas.org and page 7 of this Newsletter for preregistration and meeting information.
- **The Eighth Annual Southern New England Weather Conference will be held 27 October 2007 at the Dexter/Southfield Schools in Brookline, MA.** The conference is co-sponsored by the National Weather Service Forecast Office-Taunton, MA, the Blue Hill Observatory Science Center, the National Weather Association Southern New England Chapter, the Greater Boston Chapter of the AMS, and the University of Massachusetts-Lowell Student (continued on page 5)

Professional Development Opportunities Continued

Chapter of the AMS. Monitor the following Web page for more information <http://www.sneweatherconf.org/>, and to review presentations from the 2006 conference.

• **The Fifth GOES Users' Conference will be held 23-24 January 2008, as part of the 88th AMS Annual Meeting in New Orleans, Louisiana.** The conference is co-organized by the National Oceanic and Atmospheric Administration (NOAA) and the American Meteorological Society (AMS), with support from the National Weather Association. The GOES Users' conference objectives are to: seek ways/define methodologies to ensure user readiness, continue to improve communication between NOAA and the GOES user communities, inform users on the status of the GOES-R constellation, instruments, and operations, and promote understanding for the various applications of data and products from the GOES-R series. The conference will consist of speaker presentations, poster sessions, and an opportunity for user feedback. GOES-R, slated to be launch-ready in late 2014, will provide critical atmospheric, oceanic, climatic, solar, and space data. These new satellites will provide the user community (television meteorologists, private weather companies, aviation and agriculture communities, and national and international government agencies) with significantly more data, containing noteworthy improvements in temporal and spatial resolutions over data currently provided. Abstracts and corresponding posters are solicited for this conference on both current and future GOES. This includes topics pertaining to instruments, heritage instruments, products and applications. Of special interest are posters describing examples of the link between research and operations (or between operations and research). Please submit your poster abstract electronically via the Web by August 1, 2007. Refer to the AMS Web page at www.ametsoc.org/meet/online_submit.html. An abstract fee of \$90 (payable by credit card or purchase order) is charged at the time of submission (refundable only if abstract is not accepted). Authors of accepted posters will be notified (via e-mail) by mid-September 2007. All extended abstracts (up to 3MB) are to be submitted electronically by the revised date of January 15, 2008. Instructions for formatting extended abstracts will be posted on the AMS Web site. All abstracts and extended abstracts will be available on the AMS Web site at no cost. For additional information please contact the program committee co-chair, Dick Reynolds, NOAA/NESDIS, telephone: 410-268-5630, email: Dick.Reynolds@noaa.gov.

Registration is Now Open!

It is time to start planning your trip to Reno for the **32nd NWA Annual Meeting.**

Meeting information and a preregistration form are located in this Newsletter.

See page 7 for details.

Phased-Array Radar Evaluations

Researchers at the National Severe Storms Laboratory (NSSL) have been evaluating the capabilities of Phased-Array Radar (PAR) to provide more timely and accurate critical information on developing hazardous weather than can be obtained from conventional weather radars. During the summer of 2006, data were collected by PAR, the WSR-88D, and the Terminal Doppler Weather Radar (TDWR) on several storms in central Oklahoma. NSSL researchers compared the data and confirmed the PAR-detected rotation, hail, microbursts, and gust fronts well ahead of the other radars primarily, because PAR has the capability for rapid volume scans. Earlier detection of hazardous severe weather using PAR has strong potential to aid forecasters in the warning decision process, helping to protect the aviation community and the public.

Phased-Array Radars transmit multiple beams from a stationary antenna and the beams can be steered electronically so forecasters can target areas of interest. PAR can execute a complete volume scan in less than 30 seconds. By comparison, the surveillance capabilities of the WSR-88D are limited by the maximum mechanical rotation speed of the pedestal and the inclination of the antenna. Rapid and significant storm development can occur while the WSR-88D radar is completing its conventional volume scan that takes about 4.1 minutes. A comparison between the PAR and TDWR in capturing a microburst event can be viewed at <http://nwas.org/committees/rs/rs.html>.

Real-time data from the NOAA National Weather Radar Testbed phased-array radar was introduced to National Weather Service operational forecasters for the first time during the spring 2007 National Weather Radar Testbed Demonstration, which was conducted at the NOAA Hazardous Weather Testbed in Norman, Oklahoma. During the experiments, forecasters performed their usual warning decision-making duties while the research team collected data from the PAR. Capitalizing on the PAR's adaptive scanning capability, the teams targeted rapidly evolving severe weather phenomena including hail, straight-line winds, microbursts, and tornadoes, and examined and interpreted the data using NSSL's Warning Decision Support System – Integrated Information (WDSSII) display. If conditions warranted, a simulated warning decision was issued. Following each demonstration period, operational benefits and challenges of using rapid update data from the PAR were evaluated by the team.

More detailed information about PAR and comparisons among PAR, WSR-88D, and TDWR observations of severe storms can be found at the NSSL Web site <http://www.nssl.noaa.gov/projects/pardemo/>.

- Jian Zhang, NWA Remote Sensing Committee

NWA June History

In June 1976, the NWA National Weather Digest was defined and the local chapter concept was adopted. Dues in 1976 were \$5.

The Hourly GOES Sounder Total Column Ozone Derived Product

Ozone is a crucial atmospheric gas, and not just because of the “ozone hole.” Ozone data are increasingly part of the forecast process. Assimilation of ozone observations into forecast models can benefit forecasts of ultraviolet indices and air quality. Because ozone is a tracer of stratospheric air, ozone data can also be used to diagnose regions of stratosphere-troposphere transport associated with mid-latitude cyclones and clear-air turbulence.

Since 1998, an experimental derived total column ozone (TCO) product has been derived from GOES sounder hourly radiances. This approach initially produced a large bias, however, and as such use of this product in numerical models has been limited. Li et al. (2007) reported on recent improvements to the GOES TCO product. Resolution was improved to approximately 10 km by 10 km from 30 km by 30 km, and the bias was virtually eliminated by applying a correction function based on time of year and latitude.

An example of the improved GOES TCO product from 12 February 2006 is shown below. On this day, a deep upper-level trough over the central United States was well resolved by the GOES TCO product. The tightest gradients of total column ozone are typically co-located with tropopause folds. These folds, in turn, are sometimes associated with high surface winds and/or extraordinarily low surface relative humidities (<http://cimss.ssec.wisc.edu/goes/misc/990329.html>). For this particular storm system, good agreement was found between the GOES TCO and ozone observations from the hyperspectral Ozone Monitoring Instrument (OMI) onboard the Earth Observing System Aura platform. The advantage of the GOES product is that it provides high resolution geostationary coverage during both day and night, whereas OMI circles the globe and senses ozone only during the day.

As a new and improved remote sensing tool, the GOES TCO product’s operational uses are not yet fully explored. Its hourly updates and mesoscale resolution encourage new forecast applications on short time and space scales. This product is available in real time at: http://cimss.ssec.wisc.edu/goes/rt/viewdata.php?product=o3_us. For comparison, OMI ozone products can be found at http://jwocky.gsfc.nasa.gov/ozone/ozone_v8.html.

John Knox – NWA Remote Sensing Committee

Li, J., J. Li, C.C. Schmidt, J.P. Nelson III, and T.J. Schmit, 2007: High temporal resolution GOES sounder single field of view ozone improvements. *Geophysical Research Letters*, 34, L01804, doi:10.1029/2006GL028172

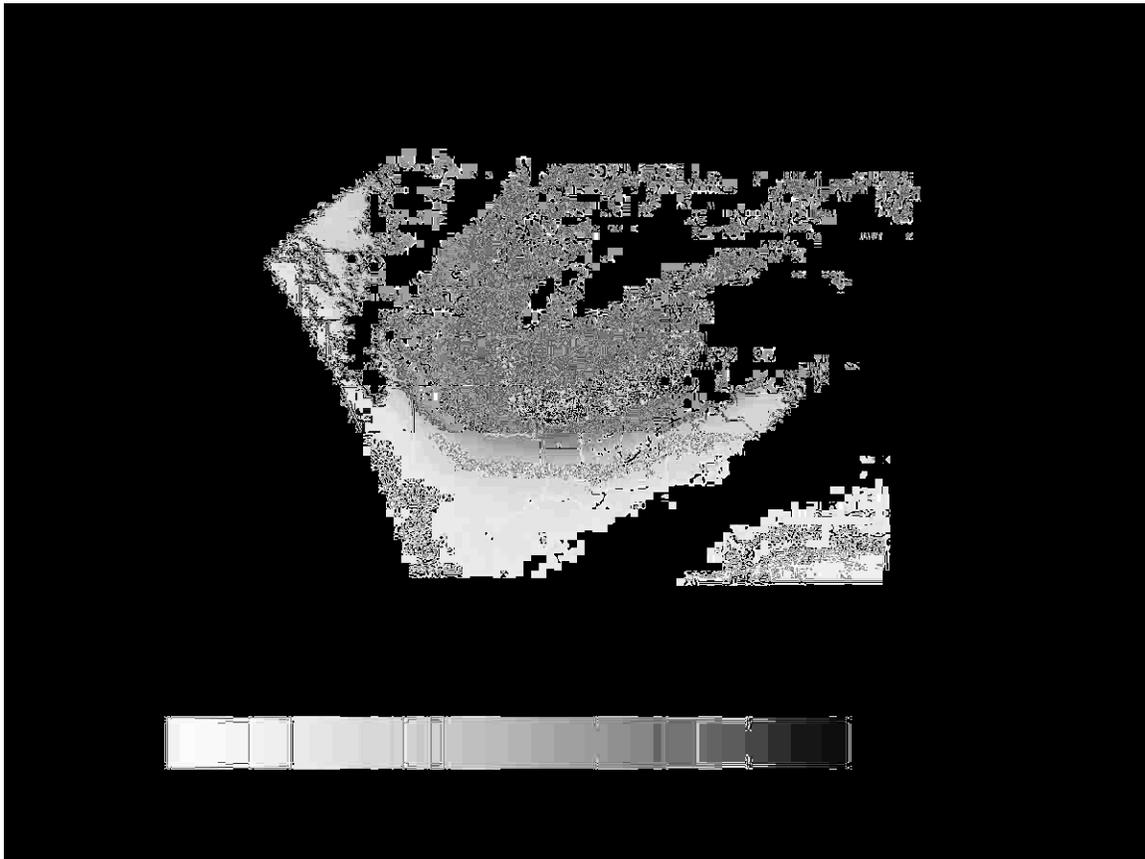


Image courtesy of Chris Schmidt, Cooperative Institute for Meteorological Satellite Studies, Space Science Engineering Center, University of Wisconsin-Madison.

NWA 32nd ANNUAL MEETING UPDATE and PREREGISTRATION FORM

The National Weather Association's 32nd Annual Meeting will be held from 13 – 18 October 2007 at the Circus Circus-Reno Hotel, Reno, Nevada.

Theme: Building the Bridge from Best Forecast to Best Response

- **13 October: Sixth Annual Golf Outing** to benefit the NWA Scholarship Fund will be held on Saturday afternoon at a Golf Course in Reno. On site registration begins at the NWA Information/Registration desk at the meeting hotel. Exhibits will setup and some corporations may offer training for clients.
- **14 October: BROADCAST METEOROLOGY WORKSHOP** will include special presentations and workshops appropriate to continuing education for weathercasters, but open to all interested. **EXHIBITS OPEN** in the room adjacent to the meeting presentation room. **Tape Swap Sunday evening** -- bring a vhs tape of one recent weathercast for discussion.
- **15-18 October: ANNUAL MEETING GENERAL SESSIONS** from Monday morning through Thursday afternoon will include a wide variety of topics relating to OPERATIONAL meteorology, climatology, hydrology, weather broadcasting, new research applications, and related activities. **The Annual Awards Luncheon will be on Wednesday, 17 October.**

The Annual Meeting Program Committee Chairperson is: Randy Graham, the Science and Operations Officer at the NOAA/NWS Forecast Office, 2242 West North Temple, Salt Lake City, Utah 84116; (801) 524-5141; annualmeeting@nwas.org. The Broadcast Meteorology Workshop Program Chair is **Bryan C. Karrick**, NWA Councilor and KCCI-TV meteorologist, 888 Ninth Street, Des Moines, IA 50309-1288; bkarrick@hearst.com. For information on exhibits, accommodations, registration and the overall meeting program, please contact the NWA Office at Tel/FAX: (919) 845-1546 or e-mail: exdir@nwas.org. See the NWA Web site (www.nwas.org) for the latest information.

HOTEL INFORMATION: Circus Circus Reno is at 500 North Sierra Street, Reno, Nevada 89503. It is a full-service resort hotel, convention center and casino. Complimentary airport shuttles to/from the Reno/Tahoe International Airport are available for all Circus Circus-Reno guests. More hotel information can be viewed at Web site: www.circusreno.com. **NWA discount room rates are for North Tower Standard rooms: Friday and Saturday** -- \$89.00 per day plus tax for a single or double room; **Sunday through Thursday** -- \$55.00 per day plus tax for a single or double room. If more than two persons occupy a room, an additional \$10.00 per person, per night, plus tax will be added to the room rate. Guestrooms must be occupied and registered to at least one adult who is 21 years of age or older. **To reserve a room for the Annual Meeting**, please call the Circus Circus-Reno Room Reservation Department at **1-800-648-5010** and request the **NWA 2007** group rate. Reservation clerks will inform you of the deposit due date at time of call. A credit card used for deposit purposes will be charged for one night immediately after the transaction has been made. Advance deposits will be refunded if reservations are canceled 24 hours prior to expected arrival. **Please reserve your hotel room NO LATER THAN 12 September 2007 to be able to obtain the NWA discount rates.**

ANNUAL MEETING PREREGISTRATION: The NWA Annual Meeting preregistration fee includes a preprint volume with program and abstracts. For the period of days registered for, it also includes: admission to all presentation, workshop and exhibit sessions and coffee/refreshment breaks. Full registration for the period 15-18 October includes the Awards Luncheon on Wednesday.

THE PREREGISTRATION FEES payable to the NWA by 5 OCTOBER 2007 are:

- **For 14 October, Broadcast Meteorology Workshop:** \$75 for NWA members and presenters (student and retired members \$45); \$100 for non-members (student and retired non-members \$70). This includes exhibits & Tape Swap.
- **For 15-18 October, Annual Meeting sessions/activities:** \$175 for NWA members and presenters (student and retired members \$100); \$215 for non-members (student and retired non-members \$135). This fee includes the Awards Luncheon on Wednesday.

Special one-day rates for each day during the period 15-18 October (for those that cannot attend the entire conference) are: \$60 for NWA members and presenters (student and retired members \$40); \$85 for non-members (student and retired non-members \$60). Day rates do not include the Awards Luncheon. Extra tickets for the Awards Luncheon are available at \$30 each.

To preregister, please copy this form and mail it with full payment of fees by 5 October 2007 to: NWA Meeting, 228 West Millbrook Road, Raleigh NC 27609-4304 USA. Make payment to "NWA" in US funds by a US bank check, money order or government/institution purchase order. Preregistration by credit card is available on the NWA Web site at: www.nwas.org/meetings/nwa07mtg.html

Name (for nametag): _____

Employer, School or other Affiliation (for nametag): _____

City/State (for nametag): _____

Telephone number and e-mail address: _____

Arrival Date at meeting: _____ Departure Date from meeting: _____

Preregistration fees: \$ _____ Number of extra Awards Luncheon tickets (\$30 each): _____ Total Funds enclosed: \$ _____

Please Circle all applicable phrases listed here: NWA member NWA local chapter member non-member Student

Retired Session Chair Presenter Program committee member Local Arrangements committee member

I will bring a tape to the Tape Swap I'll attend the Tape Swap but not bring a tape I'm interested in the 6th Annual Golf Outing

Time is Running Out!

NWA Annual Awards

Have you submitted a nomination for the 2007 NWA Annual Awards?

Time is running out so mail all nominations as soon as possible! Mail nominations to:

**NWA Awards Committee
Daniel McCarthy, Chairperson
228 West Millbrook Road
Raleigh, NC 27609-4304**

Instructions for submitting nominations, and details of each award, are located in previous 2007 NWA Newsletter issues, or on the NWA Web site.

nwas.org/award.html

The awards will be presented at the NWA Awards Luncheon held at the Annual Meeting in Reno.

2007 NWA Membership Dues

Time is also running out to renew your NWA Membership for 2007.

To renew your membership, use the NWA on-line renewal option at:

www.nwa-registration.org,

print and mail the renewal form and dues to the NWA Office or contact the NWA Office.

Those who are not currently NWA individual or corporate members may join on-line at the address listed above. To learn what a NWA membership includes, go to nwas.org/membership.html.

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Web site: www.nwas.org

Submit newsletter items directly to: Editor NWA Newsletter, at nwanewsletter@nwas.org or to the NWA office. Material received by the 23rd will be considered for the following month's issue.

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.

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IMPORTANT DATES AND EVENTS

1 July – 2007 NWA Annual Award nominations due to the NWA Office (page 8)

8-11 July – Annual Hazards Research and Applications Workshop, Boulder, CO (page 4)

25-27 July – Third National Surface Transportation Weather Symposium, Vienna, VA (page 4)

1 August – Sol Hirsch Education Fund Grants applications due to the NWA Office (page 2)

16-17 August – 11th Annual High Plains Conference Hastings, NE (page 4)

5-7 September – 16th U.S.-Canadian Great Lakes Operational Meteorology Workshop, Milwaukee, WI (page 4)

20-21 September – Fourth Symposium on Southwest Hydrometeorology, Tucson, AZ (page 4)

13-18 October – 32nd NWA Annual Meeting, Reno, NV (p. 7)

Please see *Professional Development Opportunities* on pages 4-5 for additional dates

Also check the Web site: www.nwas.org/meetings/meetings.html

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