

PRESIDENT'S MESSAGE

April was an exciting month as NWA Broadcast Seal of Approval Committee chair, Alan Sealls, and I had the chance to attend the Radio and Television News Directors Association (RTNDA) annual convention held in Las Vegas in conjunction with the huge National Association of Broadcaster's gathering. The presentation session on "Weather Seals of Approval" marked the first time the NWA was involved directly with the RTNDA. This "breakout session" ended up being attended by more job seekers than news managers, but it did provide us with the opportunity to hoist the NWA flag and encourage new weather broadcasters to actively pursue our Seal of Approval. I also had the opportunity to meet directly with dozens of news directors from around the country and make a case for why a station's weather staff needs to attend continuing education opportunities, such as that offered by the NWA Annual Meetings. A common issue in the broadcast world is having a station spend more than a half-million dollars on a Doppler radar system, only to balk at sending their weathercasters to conferences where they can glean the latest knowledge on severe weather and radar meteorology.

In the broadcast industry, it has been said, *when it comes to severe weather coverage, one event can make or break a station (and its weather staff)*. I recently heard of a station that did not provide its viewers with coverage of an overnight severe event, and another station where management refused to run severe weather warnings during certain programs. After more than 15 years of on-air weathercasting, I can assure you the complaints about program interruptions will be far fewer than the cry from the public when severe weather devastates the area and the local TV station and its weathercasters did not provide adequate coverage. **You never know when your defining moment will occur, whether in broadcasting or other segments of operational meteorology. We must remain constantly vigilant and maintain an acute sense of situational awareness regarding severe weather.** If your weather office doesn't have a plan covering breaking severe weather on any day, at any hour, start working on it now. Silence can be deadly!

At the Central Iowa NWA Chapter's Severe Storms and Doppler Radar Conference in March, it was good to see a large number of college students in attendance, many traveling more than 500 miles to attend. Unfortunately, not all college meteorology programs are aware of the NWA and its varied educational outreaches. Membership Committee chair, Alan Johnson, has worked with his committee members to develop a sharp new color NWA brochure. These will soon be off the press and we encourage you to get some into the hands of the meteorology program students near you. Are your college interns NWA members? Are you asked to occasionally speak to a meteorology class? These are both great opportunities to introduce the next generation of meteorologists to this fine organization.

As we head toward the October NWA Annual Meeting, I encourage you to attend and participate fully in a great learning experience. I am continually proud to hear of NWA broadcaster attendees putting new knowledge into action — doing outstanding jobs in keeping the public informed with timely and site-specific information and working closely with their local NWS Forecast Offices.

And finally, please spend some time thinking about the NWA annual awards nominations. A complete description of the awards and the list of past winners are available on the NWA Web site. Certainly we all know someone or some group worthy of being recognized. Until next time,

- John McLaughlin
johnmc49@ecity.net

IMPORTANT DATES AND EVENTS

1 July — NWA Annual Award nominations due. See last Newsletter or NWA Web site (www.nwas.org)

1 August — Sol Hirsch NWA Education Fund Grant nominations for K-12 teachers due. See last Newsletter or NWA Web site.

9 – 11 October -- Sixth High Plains Conference, Dodge City, KS, <http://www.crh.noaa.gov/lbf/hpams/main.htm>. See page 5.

19 - 24 October — 27th Annual NWA Meeting, Radisson Plaza Hotel, Fort Worth, Texas. See page 7.

See meetings page 5 for more important dates.

NWA BROADCAST COMMITTEE

Preparing for Severe Weather

No matter what time of year it is, severe weather can strike and we need to have a plan in place to cover it at home, at the office, while traveling, and for on-air.

Every day we go through our normal routine...looking at model guidance, updating Web sites, preparing computer graphics, putting on make-up, etc... and after a while it's generally a smooth running operation. We get in to the TV station by a certain time, get the show ready, go on-air, and head home. However, all of that changes when severe weather threatens.

This past April and early May, the central and eastern United States suffered through four unusual severe weather events. Severe thunderstorms, including numerous supercell storms and one F4 tornado in Maryland occurred. The severe storms developed in the evenings on those days, but continued overnight and into the early morning hours — the most dangerous time for severe weather to hit.

These severe weather outbreaks created big challenges at television stations covering the storms, especially during the overnight periods when many stations have no on-duty meteorologist...and often no TV staff at all. However, an error in judgment at a Midwestern TV station in late April should be a lesson for everyone. In that case, the meteorologist decided to go home after the late news, assuming things would quiet down, but if things got nasty, he would have time to get back to work. That didn't happen. Fast-moving severe thunderstorms hit the area with damaging winds and hail, and there were even some tornado reports. By the time the meteorologist got to the station, the storms were gone and the damage done...to the community and to the station's credibility. The other evening meteorologists in town decided to stay after the late news and "baby-sit" the situation, which meant they were ready when the severe weather hit. What's worse, the "unprepared" station bases its promotions on being the best for severe weather coverage...and they serve local radio as well.

Your weather department must have preset routines for severe weather coverage, especially at times when staff is not normally scheduled, or when severe weather is possible, but not yet occurring. Come in early on days when there is a severe weather risk, and be ready to stay until the threat is definitely over. Inform other TV staff (Production, Engineering, and Management) about the severe weather threat so they can have people ready to help. With today's communications technology, there should be no time when our workplaces are empty and our viewers are wondering where we are during severe weather. Send your thoughts to me at skyeeye@fuse.net.

- Rich Apuzzo, Broadcast Meteorology Committee Chair

A Good Time To Repeat THE DO'S AND DON'TS FOR WEATHERCASTERS in Severe Weather Situations

Bruce Thomas gave a presentation at the 1997 NWA Annual Meeting in Reno on his experiences during the Killer Tornado in Jarrell, Texas. He was at KCEN-TV in Waco at the time and was able to view the tornadoes out-the-window and via Skycam. He developed a list of Do's and Don'ts and presented them at the Reno meeting. (Bruce is now with KCTV in Kansas City). After the Oklahoma City tornadoes in early May 1999, Dan Threlkeld of KFOR-TV in OKC was asked to comment and add to the list based on his experiences.

Bruce's List:

Do's

- Participate in Skywarn Spotters training yearly.
- Become a licensed Ham Radio Operator and join a local Ham Club.
- Cellular phones or weather pagers for staff.
- "Be There When IT Happens!!!"
- Skycam! Skycam! Skycam!
- Stay with the situation without breaking!!!
- Get staff to call to towns in the storm path for live phone reports.
- Know your community Emergency Manager, Fire Chiefs and Law Enforcement.
- Try to stay calm when all hell is breaking loose.
- Have good insurance on your car, home and life!!!

Don'ts

- Don't think it won't happen in your own backyard.
- Don't ignore your gut instincts.
- Don't completely trust your own staff to be there!
- Don't go fishing on a day when the CAPE is 7500.
- Don't return to afternoon soaps when a tornado is on the ground and expect to be the "Weather Authority."
- Don't pose as a State Emergency official to gain access to the disaster area.
- Don't rush to the scene of disaster to tape promotions on how great your coverage was before the bodies are buried.
- Don't trust your local NEXRAD Site as your only option for data during severe storm situations.
- Don't ever think it won't happen again!!!

Dan's additions:

DO

- Prepare before the storm happens.
- Have a plan of action, and go over it with EVERYONE. Involve all of your station resources: news folks, sales, and production.
- Be as street specific as possible in reporting. Give local landmarks like: near Baptist Hospital or the University.
- Tell viewers where your information is coming from: ham radio spotter, damage report phoned in from a viewer, NWS, information from one of your staff, etc.
- Remind viewers to stay away from the storm area.
- Remember that children are watching, some by themselves.
- Talk in a calm, reassuring, confident tone. ➤

DO NOT

- Panic. If you freak out, so will those watching and listening.
- Assume everyone knows what to do. Give safety instructions over and over and ... over.

Repeating from the President's Message, "**You never know when your defining moment will occur, whether in broadcasting or other segments of operational meteorology. We must remain constantly vigilant and maintain an acute sense of situational awareness regarding severe weather.**"

Ed. If any members have do's and don'ts to add, please send them in. This is your newsletter to share ideas, forecasting techniques, news and comments.

NWS IMPLEMENTS RUC20

Taking advantage of increased computer power, improved physical parameterizations, better terrain and soil-moisture modeling, and improved analysis to include improved cloud analysis, tests on improving the Rapid Update Cycle (RUC) model began over a year ago. The new RUC20 model was developed at NOAA's Forecast Systems Laboratory (FSL) in Boulder, Colorado, and funded by NOAA and the Federal Aviation Administration Aviation Weather Research Program. Called the RUC20 because of its 20-km resolution, it features increased horizontal resolution (from 40 km to 20 km) and more vertical levels (from 40 to 50). The major improvements of the RUC20 over its predecessor are better cloud and precipitation forecasts, better wind and temperature forecasts near the surface and improved forecasts of icing and turbulence conditions for aviation.

The new model was implemented operationally at 1200 UTC 17 April 2002 at the NOAA/NWS National Centers for Environmental Prediction (NCEP) in Camp Springs, Maryland. Using the latest observations from commercial aircraft, wind profilers, satellites, radars, rawinsondes, and surface stations, the RUC20 produces new analyses and short-range (3-h) forecasts every hour, with forecasts out to 12 hours every three hours, the highest-frequency updating of any forecast model at NCEP. Work on a RUC10 Rapid Refresh Model for possible implementation in 2005 continues at FSL. For more information see Web sites: ruc.fsl.noaa.gov and www.noaanews.noaa.gov/stories/s918.htm

NEW SUPERCOMPUTER FOR NWS

NOAA announced on 31 May 2002 that it has awarded a contract to lease a new supercomputer from International Business Machines (IBM) Corp. The supercomputer's increased processing capabilities will enable NOAA/NWS to continue to significantly improve weather, flood, ocean, and climate analysis and predictions for many years to come.

The nine-year, \$224.4 million contract, awarded to IBM Corporation is contingent on the availability of funding. The nine-year contract contains a three-year base period and two three-year options, plus options for a backup system.

The new high-performance computing system will use a highly parallel computer architecture with 2,752 processors. This improved performance will allow the NWS National Centers for Environmental Prediction (NCEP) in Camp Springs, Maryland to operate more sophisticated models.

Over the first three years of the contract, the new IBM supercomputer will, on average, provide 4.9 times the computational power of the current system (an IBM supercomputer that is now 29 times faster than the Cray-C90 it replaced in late 1999). The new supercomputer will undergo incremental upgrades reaching 48 times the computational power of the current one by October 2009.

The installation of the new supercomputer, which will be housed at IBM's Gaithersburg, Maryland facility, will be completed by 30 September 2002, and will be integrated into routine operations beginning in the Spring of 2003. The transition of operations to the new system will be completed by the end of July 2003.

The contract with IBM will deliver a complete system to NOAA, including a full range of hardware (storage devices, communications interfaces, and other peripherals), software, system maintenance and support, facility services and support, and consulting services. The contract is the result of a streamlined, competitive procurement process initiated by the Department of Commerce and conducted on a full and open basis.

- info from NOAA and IBM press releases

NWA SCHOLARSHIP awarded

The Arthur C. Pike NWA Scholarship in Meteorology for the year 2002 is awarded to **Edward P. Argenta Jr.** of Oakville, Connecticut. The \$1,000 scholarship will assist Mr. Argenta as he enters his senior year this fall at Lyndon State College in Lyndonville, Vermont.

Mr. Argenta has been on the Dean's list for three years, is the Vice President of the LSC AMS/NWA chapter, served as an intern at the Mount Washington Observatory, been inducted into the national science and math honorary society Sigma Zeta and has excelled in the National Forecast contest for the past three years. Ed aspires to earn a Ph.D. in Meteorology and help improve the science.

The NWA Education committee received 13 applications from individuals at nine colleges/universities and the competition was tough. Thanks and Best Wishes to all individuals that applied. Congratulations again to Edward P. Argenta Jr.!

Applications for the annual \$1,000 Arthur C. Pike NWA Scholarship in Meteorology are due to the NWA education committee by 15 April each year.

LOCAL CHAPTER NEWS

The High Plains NWA Chapter held a meeting on 23 April 2002, starting with a lunch at the Town and Country Kitchen in Norton, KS. A regular business meeting followed lunch. Vice President Jim Johnson led the meeting in the absence of President John Stoppkotte. Only 11 members were present, with staff shortages and other conflicts across the membership area competing with the meeting. On a brighter note, our current chapter membership is at 48 - an all time high! A report was given updating the mailing of AMS Minority Scholarship notifications. To date, our chapter has mailed out over 237 letters across the high plains notifying high school principals and counselors of the available AMS Minority Scholarship. All mailings were sent by 4 February. Plans for the chapter's 6th High Plains Conference in Dodge City, KS were also discussed. The High Plains NWA chapter now has the following new web address:
<http://www.highplains-amsnwa.org>.

- *Tim Burke, Corresponding Secretary*

AVIATION NEWS

The Front is an aviation outreach online newsletter produced every other month by the NWS Central Region Aviation Team. The mission is to promote aviation safety by offering thorough, technical, graphic explanations of aviation weather and National Weather Service products. The Aviation Weather Center and other operational units of the National Weather Service and NOAA provide technical support and advice. Editors Craig Sanders and Sally Pavlow invite your suggestions for future articles.

The Front is available at Web site:
www.crh.noaa.gov/crh/aviation/thefront.html

MEMBER NEWS

Welcome new Corporate Members!

SSESCO Incorporated

(Software Solutions & Environmental Services Company)
1217 Bandana Boulevard North
Saint Paul, Minnesota 55108
Internet: www.wxportal.com
Point of Contact: Lee Alnes
Tel: 651-842-4264; Fax: 651-842-4256
e-mail: lee@ssesco.com

HAMPTON ROADS SANITATION DISTRICT

1432 Air Rail Avenue
Virginia Beach, Virginia 23455
Internet: www.hrsd.state.va.us/
Point of Contact: Mark Feltner
Tel: 757-460-4254; Fax: 757-363-0727
e-mail: mfeltner@hrs.dst.va.us

Beth L. B. McNulty of the NWS Forecast Office in Glasgow, Montana received the Air Force Weather *Spengler Award* as the Most Outstanding Air Force Weather Individual Mobilization Augmentee for 2001. She is a Lieutenant Colonel in the US Air Force Reserve. The award is named after Brig. Gen. (Retired) Kenneth C. Spengler USAFR, the secretary-treasurer and executive director emeritus of the AMS.

Michael Squires, Captain Jeffrey Budai, and First Lieutenant Edward Amrhein of the Air Force Combat Climatology Center in Asheville, NC received the Air Force Weather *Zimmerman Award* for the Best Application of Climatology for 2001.

WEATHER SATELLITE NEWS

NOAA-M is scheduled for launch from Vandenberg Air Force Base, California at 11:22 PDT 24 June 2002. This Polar-orbiting Operational Environmental Satellite (POES) will be renamed NOAA-17 after achieving orbit. This is the third in a series of five polar-orbiting weather satellites that are expected to operate over the next 10 years. NOAA-16 was launched in September 2000 and NOAA-15 was launched in May 1998.

The United States has agreed to lend Japan a geostationary environmental satellite to ensure weather data from the Western Pacific are available continuously should a weakening Japanese satellite fail. The loan of this satellite sets the stage for long-term mutual backup arrangements between the United States and Japan. **GOES-9**, will ensure continuous geostationary meteorological coverage in the Western Pacific, including U.S. territories, U.S. military facilities, and U.S. military and commercial vessels in the region. GOES-9 will be readied to back up the Geostationary Meteorological Satellite-5 (GMS-5), operated by the Japan Meteorological Agency. GMS-5, launched in 1995, is past its useful life and is encountering imaging problems and fuel shortages. GOES-9, also launched in 1995 and currently in storage mode, does not meet U.S. weather forecasting requirements, but does have sounding and limited imaging capabilities which will supply data comparable to that of the GMS-5. Japan's Multifunctional Transportation Satellite (MTSAT-1) was planned as a replacement for GMS-5, but experienced a launch failure in 1999. The replacement follow-on, MTSAT-1R, is planned for launch in the summer of 2003.

In addition to continuous weather coverage from the Western Pacific, the United States will receive additional benefits from this agreement. NOAA's Command and Data Acquisition Station in Fairbanks, Alaska, will be upgraded to allow the United States to control a GOES Satellite over the Western Pacific. This would be needed if weather or another disaster were to disable the prime GOES station at Wallops, Virginia.

The Japan Meteorological Agency will pay for all upgrades and operations costs. The agreement also lays the groundwork for a separate long-term mutual backup agreement, which would enable the United States to call on Japan if the United States had problems with one of its geostationary satellites.

This agreement is an important step toward ensuring global coverage for environmental observations through exemplary international cooperation. - NOAA Press Release

MEETINGS OF INTEREST

- **The 2002 Southwest Weather Symposium will be held at the Monte Carlo Hotel and Casino in Las Vegas, Nevada on 4-5 September 2002.** The purpose of the Southwest Weather Symposium is to bring together operational forecasters, academic professors, researchers and climatologists interested in the weather and climate of the southwestern U. S. and northwestern Mexico. Symposium sessions will include presentations on the following topics:
 - Applications of Multiscale Numerical Models to Forecasting
 - Climatology of the North American Monsoon Circulation
 - Quantitative Precipitation Monitoring and Forecasting
 - Low-Level Moisture Surges from the Gulf of California
 - Severe Thunderstorm and/or Flash Flood Forecasting
 - Hydrological Applications to Forecasting
 - Remote Sensing Applications
 - Winter Weather Forecasting
 - Fire Weather Forecasting

Abstracts for poster or oral presentation should be submitted no later than 1 July 2002 via the symposium web page at: www.wrh.noaa.gov/lasvegas/swws.shtml

- **The Sixth Annual Great Divide Workshop will be held 10-12 September 2002 in Great Falls, Montana,** hosted by the National Weather Service in Great Falls, Montana. The workshop will begin at 1 pm on 10 September and conclude at 11 am on 12 September. The workshop provides a forum for participants to share information and to discuss ideas involving new tools and techniques for providing weather forecasts for the Inter-mountain West and Western High Plains, across the U.S. and Canada. In addition to formal presentations, time will be reserved for poster sessions. A distinguished group of invited speakers will be participating, and there will be an evening banquet. This year's workshop will be held at the Town House Inn (telephone 1-800-442-4667). Town House Inn offers a shuttle service to and from the airport and is located within walking distance of a variety of restaurants and a shopping mall. Please mention the National Weather Service when making your room reservation. Additional information and registration forms are available on Web site:
<http://www.wrh.noaa.gov/Greatfalls/tfx.php?SPECIAL+gdregister.html>. **All participants are asked to provide a presentation topic no later than 1 July 2002 and a short abstract no later than 1 August 2002 for inclusion into a workshop preprint.** Topics and abstracts may be e-mailed to gina.loss@noaa.gov. They may be mailed to: Weather Forecast Office, 5324 Tri-Hill Frontage RD, Great Falls, MT 59404-4933, Attn: Gina Loss. For questions, please contact Gina Loss: Telephone: 406-453-2081; Fax: 406-453-3812

- **Air Weather Association Reunion will be held in Dayton, Ohio, 18-22 September 2002** along with the Air Weather Reconnaissance Association and other Air Force Weather alumni associations. The reunion hotel will be the Dayton Marriott Hotel. Activities will include tours of the Air Force Museum at Wright-Patterson AFB and banquets. It will conclude with Brunch at the hotel on Sunday morning, 22 September. For more information see Web site: <http://www.airweaassn.org> or e-mail: AirWeaAssn@aol.com.

- **GOES Users' Conference II, 1-3 October 2002, Boulder, Colorado at the NIST Auditorium.** This conference will focus on the third generation of the Geostationary Operational Environmental Satellites (GOES R Series) which will provide a burst of new operational data in the next decade unlike anything seen before in the history of earth observations. With first launch scheduled for 2012, these new GOES will be a sophisticated, data-rich series of satellites.

The conference will highlight the following four themes: 1) informing users of future capabilities and potential applications, 2) determining user needs, 3) assessing user and societal benefits of future systems, and 4) developing methods to improve communications between NESDIS (National Environmental Satellite, Data, and Information Service) and GOES users. For more information visit Web site: <http://www.osd.noaa.gov/announcement/index.htm> For online registration visit: www.boulder.nist.gov/blconf.htm For other information, contact the Program Chairman: Jim Gurka, at NOAA/NESDIS James.Gurka@noaa.gov

- **Mid-Atlantic States Winter Storms Regional Conference 3-5 October 2002.** The AMS Board for Operational Government Meteorologists, D-C AMS Chapter, AMS Board of Private Sector Meteorology, and the NWA Weather Analysis and Forecasting Committee are co-sponsoring an operations- and community-focused regional conference on Mid-Atlantic States Winter Storms to be held in the NOAA Auditorium and Science Center, Silver Spring, Maryland adjacent to the National Weather Service Headquarters. The theme of the conference is *"Improving Mid-Atlantic Winter Storm Forecasts, Warnings and Decision Making."* Invited papers will be presented on: Operational Forecasting Techniques and Procedures; Emerging Research and Operational Applications; Communicating and Using Uncertainty; Community Interaction; and Public Awareness and Education. For more information or to provide suggestions to enhance this conference, please contact Major Ken Carey, Air Force Studies and Analyses Agency, 1570 Air Force Pentagon, Washington DC 20330-1570; Kenneth.Carey@pentagon.af.mil or see Web site: www.dc-ams.org.

- **Sixth Annual High Plains Conference will be held in Dodge City, Kansas, 9-11 October 2002** sponsored by the High Plains Chapters of the NWA and AMS. The conference is scheduled to take place in the recently restored historic Santa Fe depot and theater in downtown Dodge City. Some meals will be included in the very modest conference registration fee. A banquet is planned the evening of the 10th.

Sessions will begin the morning of the 10th and run through early afternoon on the 11th. The main theme of the conference will be high plains severe convective storms. Papers are solicited on all aspects of severe convection in the high plains. Keynote speakers will be Dr. Charles A. Doswell III, Senior Research Scientist at CIMMS and noted author, and Dr. Eve Grunfest, professor of Geography from the University of Colorado/Colorado Springs. A panel discussion will be conducted regarding aviation weather concerns, with guest panelists from the FAA and the aviation community at large.

Authors should submit abstracts of one page or less to Jim Johnson at jim.Johnson@noaa.gov. Abstracts may also be mailed to the National Weather Service, 104 Airport Road,

Dodge City, KS 67801. **Deadline for abstracts is 15 August 2002.** For additional information on the conference, online abstract submission, registration and preregistration please visit the chapter Web site at: <http://www.highplains-amsnwa.org>.

For the second year in a row, the High Plains Chapter also announces a **student paper competition** geared toward graduate and undergraduate students in meteorology. There will be a scholarship awarded for first and second place in the student competition. Provisions are also available for vendors and/or vendor displays. We anticipate little or no charge for vendor space. Those interested should contact Jim Johnson at jim.johnson@noaa.gov.

- **27th NWA Annual Meeting Update.** The meeting period will now be from 19-24 October 2002. The Friday morning sessions have not been well attended over the last couple of years so the meeting is now scheduled to adjourn late on Thursday afternoon. Please see more complete information and the preregistration form on page 7.

JOB CORNER

The NWA posts jobs from equal opportunity employers at no cost for the benefit of NWA members. Please see the Job section on the NWA Web site (www.nwas.org) for complete announcements and job links. Members who do not have Internet capability may request announcements from the NWA office at (434) 296-9966.

SURFACE SYSTEMS, INC. (SSI) is one of the country's largest commercial operational meteorological services and the world's largest pavement weather forecasting service. SSI provides accurate forecast services to a wide variety of clients in industry, government, media, and aviation. **We have immediate openings for both experienced and entry-level operational meteorologists.** Qualifications must include a Bachelor's degree in Meteorology, strong written and verbal communication skills, North American forecasting experience and basic computer skills. Applicants must be able to work well in a team environment and be willing to work nights, weekends, and holidays. SSI provides each forecaster with the latest state-of-the-art tools for forecasting. SSI offers a competitive salary and an extensive benefit package. SSI is an Equal Opportunity Employer. If interested, please send your resume along with cover letter to: Ray Cathcart, Weather Center Manager, Surface Systems, Inc., 11612 Lilburn Park Road, Saint Louis, MO 63146. FAX (314) 569-3567 or e-mail to rac@surface.com. (<http://www.ssiweather.com>)

PALMDALE CALIFORNIA CWSU (NOAA/NWS) has a vacancy for a GS-12 meteorologist at the Los Angeles ARTCC. This unit, located on the ARTCC control room floor, consists of four meteorologists that support aviation weather interests and concerns of FAA personnel. Two shifts per day cover duty hours from 05:30 am to 9:00 pm local time. Palmdale and the Antelope Valley are located in Northern Los Angeles county about a one-hour drive from the greater LA area. This CWSU benefits by being in the higher cost LA county locality pay adjustment area, yet housing prices are quite modest for Southern California. See the announcement on the Web site (<http://www.jobs.doc.gov>) for additional requirements and information on how to apply. Job closes 21 June 2002.

THE WEATHER CHANNEL

Storm Analyst - On Camera Meteorologist

All qualified applicants, please apply for this position online at: www.weather.com/jobs. **OVERALL RESPONSIBILITIES** for this position include the ability to track active weather, provide on-air analysis, diagnosis and identification of threatening weather conditions, including severe thunderstorms, heavy to excessive rainfall, winter storms, drought, and wildfires. Coordinate forecasts, and on-air graphical products pertaining to threatening weather with meteorology for presentation during "Your Weather Today" and other The Weather Channel programming as needed. Provide information on a broad spectrum of weather related phenomena when called upon, including recommendations for live video coverage. Work as a team with the on-air staff, Meteorology, Producers, Executive Producers, and Broadcast Operations of "Your Weather Today." **SPECIFIC RESPONSIBILITIES** are construct essential analyses of current surface, and upper-air fields for the purpose of diagnosing present weather conditions, utilize applicable satellite and radar imagery to identify critical components of the large scale circulation, and locations of the most active weather, while remaining cognizant of any watches, warnings, or advisories pertaining to threatening weather conditions. Prepare a list of appropriate graphics for on-air presentation during "Your Weather Today" and other The Weather Channel programming initiatives as needed. Confer with meteorology division to ensure consistency and accuracy of the on-air products. Develop a daily summary of current and threatening weather conditions, which may be accessed via TWC intranet.

QUALIFICATIONS - Knowledge: Masters Degree in Meteorology/Atmospheric Science preferred. Advanced understanding of meteorological principles contained within the fields of atmospheric dynamics, physical meteorology, and synoptic meteorology. Understanding of data sampling procedures, and ability to acquire key forecast products from government and academic Web sites. Familiar with current suite of numerical forecast products and their biases. - Skills: Interpretation of multi-spectral satellite imagery, analysis of Doppler radar data and the identification of severe weather signatures; ability to analyze upper-air data, and surface maps, particularly the identification of mesoscale features critical for nowcasting severe weather; application of numerical weather prediction to short-term forecasting, and proficiency in interpreting numerical model forecast products. Communication of critical information to The Weather Channel viewers with an easy-to-understand, energetic and passionate delivery. - Behavior: Ability to work well with people in a fast-paced and high stress 24-hour TV environment. Authoritative and mature, yet exhibit sensitivity and understanding. Work in a team environment.

Go to Web site <http://www.weather.com/jobs> for other job openings at The Weather Channel in Atlanta, Georgia.

SCIENTIFIC RESEARCH CORPORATION needs Weather Observers and Weather Forecasters. See Web site: <http://www.scires.com> for more information and job locations. Qualified candidates can e-mail their resumes to Michele L. Hughes, Human Resources, Applied Technology Division, Scientific Research Corporation at jobs@scires.com.

More jobs on page 8

The original page 7 was the Annual Meeting Preregistration form. It was deleted from this archived copy. - Editor

jobs continued from page 6

UNIVERSITY OF NORTH DAKOTA

Position: Research Associate, Regional Weather Information Center, Odegard School of Aerospace Sciences, University of North Dakota, Grand Forks, ND 58202-9007

Starting Date: As soon as a suitable candidate is found.

Qualifications: Master's degree in Atmospheric Science, Computer Science or relevant scientific or technical field required, although substantial experience may be substituted for the advanced degree. Knowledge of high-performance computing, weather data elements, data management and data analysis technologies is desired. Programming skills and experience with FORTRAN, C, and UNIX are desired in the development and implementation of data acquisition, archive, and distribution systems for large datasets.

Duties: This position will be a support element to faculty researchers and as such will be expected to participate in the support of developing new research funding opportunities. This position will assist in research efforts in atmospheric modeling involving land-surface effects. Activities include research on data management/assimilation, model validation and report preparation. Department: Described activities are in support of a joint program between the UND Atmospheric Sciences Department and the UND Regional Weather Information Center. Logistics: This is a 12-month research faculty appointment renewable annually with a starting date as soon as a suitable candidate is found. Salary is competitive and commensurate with experience and qualifications, with the full benefits of a position at UND. The position will remain open until filled. Send a letter of application, current resume, three references, and a narrative of relevant experience to:

Gary Ebel, Personnel Manager
Odegard School of Aerospace Sciences
University of North Dakota
Grand Forks, ND 58202-90007
Fax: (701)-777-3016;
e-mail: personnel_manager@aero.und.edu

National Weather Association - Supporting and Promoting Excellence in Operational Meteorology and Related Activities since 1975

NATIONAL WEATHER ASSOCIATION

1697 CAPRI WAY
CHARLOTTESVILLE VA 22911-3534

UBS Warburg is the investment banking and securities business of UBS AG. It has recently launched its new Energy trading business after it obtained from Enron an exclusive license to the technology to operate North American natural gas and power operations. UBS Warburg Energy is looking for meteorologists to join this exciting new venture and provide our trading groups with weather forecast preparation and support.

The Meteorology Team would be focused on: near term U.S. forecasting with more emphasis on 6-10 day and 11-15 day forecasts, tropical weather forecasting and consultation, management of a heating and cooling degree-day energy demand database, maintaining and building a climate history for the U.S., daily weather briefings on both a continental and regional scale, preparation of temperature forecasts out to 6 days for selected cities, special regional projects as requested, hydrological forecasting, especially in the Pacific Northwest, snow cover analysis and forecasting, medium to long-term global scale forecasting. **Tropical Storm Specialist** with an MS or PhD degree is also desired. If interested in these positions please e-mail resume to neil.davies@ubswenergy.com or call Neil Davies at (713) 584-7229.

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