Fundamentals of Dispersion Modeling. Trinity Consultants Incorporated of Dallas, Texas, is conducting specialized training in dispersion modeling throughout 1996. Participants will learn the role of meteorology, why dispersion modeling is performed, and the basis for estimating pollutant concentrations produced by various source types. Training sessions will convene 13–14 August in New Orleans, Louisiana; 16–17 September in Chicago, Illinois; 15–16 October in Philadelphia, Pennsylvania; 12–13 November in Los Angeles, California; and 9–10 December in Dallas, Texas. For information about tuition and registration, call the course registrar at 214-661-8100.

Heavy Precipitation Workshop. The National Weather Service will sponsor the Fifth National Heavy Precipitation Workshop in State College, Pennsylvania, from 9–16 September 1996. The focus of the workshop will be on observing and forecasting precipitation and its application to flash flood and river forecasting. The structure of the workshop is designed to address the end-to-end forecast process and its individual components. For further information, contact Ward Seguin at 301-713-1768 or e-mail wseguin@smtpgate.ssmc.noaa.gov.

Climate Diagnostics and Prediction. The 21st Annual Climate Diagnostics and Prediction Workshop will be held 28 October–1 November 1996 in Huntsville, Alabama, at the Marriott Hotel, in cooperation with the Earth System Science Laboratory of the University of Alabama in Huntsville. The agenda will focus on 1) prediction of climate on seasonal time scales, 2) interannual and interdecadal variability, 3) modulation of high frequency variability by climate scale phenomena, 4) use of satellite data in climate monitoring and diagnostics, 5) application of global models for the new NWS Week Two forecast and monthly Climate Outlook, and 6) experimental long-lead climate predictions. In addition, a separate session on the application of climate diagnostics and prediction for agriculture and industry may be held if enough participants express interest. For additional information, contact James D. Laver, Acting Director of the Climate Prediction Center, e-mail: cdwshop@sgi37.wwb.noaa.gov; fax: 301-763-8395.

Wind Shear and Wind Shear Alert Systems. A three-day workshop will be held in mid-November 1996 in Oklahoma City, Oklahoma. The workshop will be sponsored by AMS’s Committee on Aviation, Range, and Aerospace Meteorology and by the Federal Aviation Administration (FAA). The workshop will feature briefings by FAA personnel, technical presentations, panel discussions, invited presentations, and open discussion sessions. Papers are solicited for the technical sessions on all aspects of wind shear and wind shear alert systems, including research, meteorological observations, generation and dissemination of alerts, system performance, and benefits to users. For additional information, contract Dave Sankey; telephone: 202-488-3086; fax: 202-554-5636; e-mail: dsankey@mail.hq.faa.gov, or Lynn Sherretz; telephone: 303-497-5580; fax: 303-497-6301; e-mail: sherretz@fsl.noaa.gov.

Temporal Data. A short course on Time Series Analysis Methods and Applications in the Atmospheric Sciences will be held 1–2 February 1997 in conjunction with AMS’s 77th Annual Meeting in Long Beach, California. The workshop is designed for graduate students and researchers who work with temporal data and who wish to obtain an overview on the methodology and use of various time series analysis techniques relevant in the atmospheric sciences and related fields. The two-day workshop will feature 90-min lectures on topics relevant to the subject. The format will be flexible and interactive, allowing ample time for questions and discussion. For further information, contact Timothy Brown, Desert Research Institute, P.O. Box 60220, Reno, NV 80506-0220; telephone: 702-677-3341; fax: 702-677-3243; e-mail: tbwrcc@sage.dri.edu.

Forecast Models. The Short Course on New Data Sources in Numerical Model Analysis is designed for
Campbell Scientific Dataloggers

Superior Instrumentation for Meteorological Measurement

Rugged.
-55°C to +85°C extended operating range.

Low Power Usage.
Six to eight month operation on eight alkaline D cells.

Intelligent.
Extensive processing, decision, and control capabilities.

Reliable.
98.3% probability that a CR10 datalogger will function without failure over its 3-year warranty period.

Versatile.
Measurement and processing for air quality, turbulent diffusion, surface flux, alternative energy, and climatological applications. Data retrieval via RF, telephone, short haul, and GOES telecommunication links. Programming and data retrieval functions fully supported with PC208 Software.

Research Precision, Operational Reliability.

CAMPBELL SCIENTIFIC, INC.
815 W. 1800 N. • Logan, Utah 84321-1784 • (801) 753-2342 • FAX (801) 752-3268
end users of modern forecast models on both the meso- and global scales. The short course will be held before the 77th AMS Annual Meeting in Long Beach, California, at the conference facilities. The impacts of improved model results due to integration of non-traditional data into the analysis or assimilation cycle of the model initialization will be highlighted. Innovative use of numerical models and standard data to improved climatologies of rainfall also will be covered. The course outline includes a review of new satellite data products, uses of satellite data in improved model analyses, validation of tropical cyclone forecasts with satellite data input, and a combination of satellite, raingauge, and model data to form consistent precipitation analysis datasets. For additional information, contact AMS Headquarters, 45 Beacon St., Boston, MA 02108; telephone: 617-227-2425; e-mail: amsmtgs@ametsoc.org.

**Hydrological Applications.** The AMS Committee on Hydrology will sponsor the Short Course on WSR-88D Precipitation Estimation for Hydrological Applications on 2 February 1997 as part of the 77th AMS Annual Meeting in Long Beach, California. The purpose of the short course is to provide an overview of precipitation estimation using the WSR-88D radar network. This short course will consider how the WSR-88D precipitation estimation algorithm works, how the products can be accessed, what the error characteristics and biases of the products are, and how the products are used in operational hydrologic forecasting. For additional information, contact Jay P. Breidenback, Hydrologic Research Laboratory, W/OH3, Office of Hydrology, NWS, 1325 E–W Highway, Silver Spring, MD 20910; telephone: 301-713-0640, ext. 129; e-mail: jpb@skipper.nws.noaa.gov.

**Human Factors.** A Short Course on the role of Human Factors in Graphical User Interface (GUI) Design in the development process will be held on 2 February 1997 as part of the 77th Annual Meeting at the Long Beach Convention Center, Long Beach, California. The course will be aimed at sensitizing the meteorologist to the importance of applying human factor principles to GUI design. The course will define human factors, present human factors principles for GUI design, describe several of the standards and tools used to ensure usability, offer insight into good design processes, and show the current human factors applications in a meteorological context. References, Internet addresses, and a comprehensive bibliography will also be provided. For additional information, contact Randy Steadham, Applications Branch, Human Factors Group, NEXRAD Operational Support Facility, 1200 Westheimer Dr., Norman, OK 73069; telephone: 405-366-6530, ext. 2299; fax: 405-366-2901; e-mail: rsteadham@nexrad.osf.uoknor.edu.

**Passive Microwave Radiometry.** The AMS will conduct a Short Course on Passive Microwave Satellite Radiometry on 2 February 1997, preceding the 77th Annual Meeting in Long Beach, California. The course will present a detailed one-day training on the principles of passive microwave radiometry. Lectures and an interactive computer session will be used in the course. The course is suitable for all students and professionals interested in remote sensing of the earth and atmosphere. For additional information, contact AMS Headquarters, 45 Beacon St., Boston, MA 02108; fax: 617-742-8718; e-mail: amsmtgs@ametsoc.org.

**NIDS Training.** Two-day training sessions on NEXRAD Information Dissemination Service (NIDS) products are being offered regionally around the country by Unisys Weather Information Services. Training subjects include radar theory, NIDS products, and applications. For more information, contact the Unisys NIDS Training Coordinator at 610-444-2400.

**Submission Information.** All organizations are invited to submit programs for inclusion in the Continuing Education column. Please send submissions to Bulletin News Editor, AMS, 45 Beacon St., Boston, MA 02108; fax: 617-742-8718; e-mail: jburba@ametsoc.org. Please include the following information: program title, brief description, and contact information.
TM12-R
Humidity-
Temperature
Transmitter

Complete Flexibility For Meteorological Installations Having Commercial Power

Features
• C94 Hygrometer Sensor
• Pt 100 Temperature Sensor
• ± 2% RH Accuracy
• ± .3°C Accuracy
• Temperature Compensated
• 0-5V Linear Output (2)
• 4-20mA Linear Output (2)
• 115VAC/24VAC Operation
• ±1%RH Stability
• Field Calibration
• 3 Year Warranty

For further information contact
Meteorological Applications Extension 13

160 E. MAIN STREET, HUNTINGTON, NY 11743
516-427-3898 • FAX 516-427-3902 • 1-800-628-7101
The theme of this meeting will encompass and expand on two important elements of the AMS community activities. The primary theme is a focus on interdisciplinary science, with a special emphasis on hydrology. The complex environmental problems of today are increasingly requiring an interdisciplinary approach to improve our understanding of the total earth system. The atmosphere must be well coupled with the land surface, as well as the ocean, with improved understanding of chemical/biogeochemical and radiation influences to ensure our predictive models continue to point us in the right direction. The second major theme is one of outreach to the diverse membership of our Society. The growing private and educational sectors have needs that may vary somewhat from other sectors, yet as a growing professional society we must find ways to meet these needs while strengthening our support to our strong academic research and government sectors.

**Conferences/Symposia**

- Symposium on the Land-Atmosphere System: An Interdisciplinary Approach
- 13th International Conference on Interactive Information and Processing Systems (IIPS) for Meteorology, Oceanography, and Hydrology
- 13th Conference on Hydrology
- Ninth Conference on Atmospheric Radiation
- Eighth Symposium on Global Change Studies
- Seventh Conference on Aviation, Range, and Aerospace Meteorology
- Seventh Conference on Climate Variations
- Sixth Symposium on Education
- Third Conference on Atmospheric Chemistry
- First Symposium on Integrated Observing Systems
- Special Symposium on Boundary Layer and Turbulence

**Short Courses**

- Passive Microwave Satellite Radiometry
- WSR-88D Precipitation Estimation for Hydrological Applications
- Time Series Analysis Methods and Applications in the Atmospheric Sciences
- New Data Sources in Numerical Model Analyses
- Human Factors Applied to Graphical User Interface Design

Refer to the Continuing Education column in this and future *Bulletins* for short course syllabi.
Also Scheduled

77th Annual Business Meeting  
Awards Banquet  
Conference Luncheon  
Technical and Social Evening Activities  
Electronic Theater '97  
Commercial Exhibition  
Combined Book/CD-ROM Exhibit  
First-Time Attendee Briefing  
Spouse/Guest Program  
Daily Weather Briefing

About Long Beach

Just 22 miles from Los Angeles, Long Beach is located in Los Angeles County, just north of Orange County, and is linked to Southern California by five major freeways. Los Angeles is under an hour’s ride aboard the Metro Blue Line, a light transit rail system that joins Long Beach with downtown Los Angeles. Long Beach has convenient access to three major airports: Los Angeles International, Long Beach Municipal, and John Wayne/Orange County.

Whether it’s a day trip to scenic Santa Catalina Island, a stroll along Shoreline Aquatic Park, or a romantic gondola ride through the canals of Long Beach’s Naples Island, there is always something to explore. Long Beach is a natural springboard for visits to Southern California’s major attractions—Disneyland Park, Knotts Berry Farm, and Universal Studios Hollywood. A tour of this city would not be complete without a visit to the Queen Mary, the largest ocean liner afloat.

Further Information

Information on hotels, travel, and registration will be published in future issues of the Bulletin. The preliminary program will be published in the October 1996 issue.