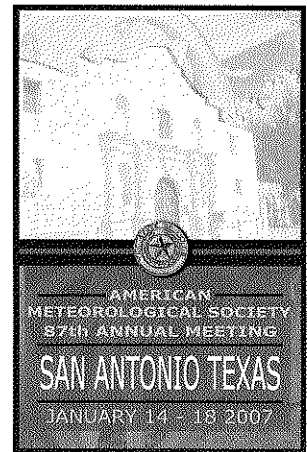




Preview Issue
2007 Annual Meeting

DAILY BAMS



An Annual Meeting with Big Themes: Bridging the Weather and Climate Communities

Once again, the AMS Annual Meeting will offer a vast array of presentations, short courses, and other sessions. The selection is far from random, however; *BAMS* asked the people shaping our upcoming week in San Antonio in January to explain some of the principal themes in this year's meeting. Here's what AMS President Franco Einaudi, and Annual Meeting Organizing Committee Chairpersons Dian Seidel and Mary Cairns told us.

How did "Bridging the Studies of Weather and Climate" emerge as the theme for the 2007 Annual Meeting?

Advances in modeling, observations, and more place us in the position where we must challenge the traditional assumptions that have divided weather and climate studies.

There is an ongoing debate on the need for observational systems designed for both weather and climate applications. Similarly, we can extend the debate to modeling. Rather than striving to model the mean conditions of the atmosphere, climate models need to represent the variety and variability of geophysical mechanisms. The meeting should expose the elements that integrate weather and climate and set the foundation for an effective two-way bridge between the studies of weather and climate.

What differences between climate and weather science do you feel are easiest to bridge? And which are the hardest?

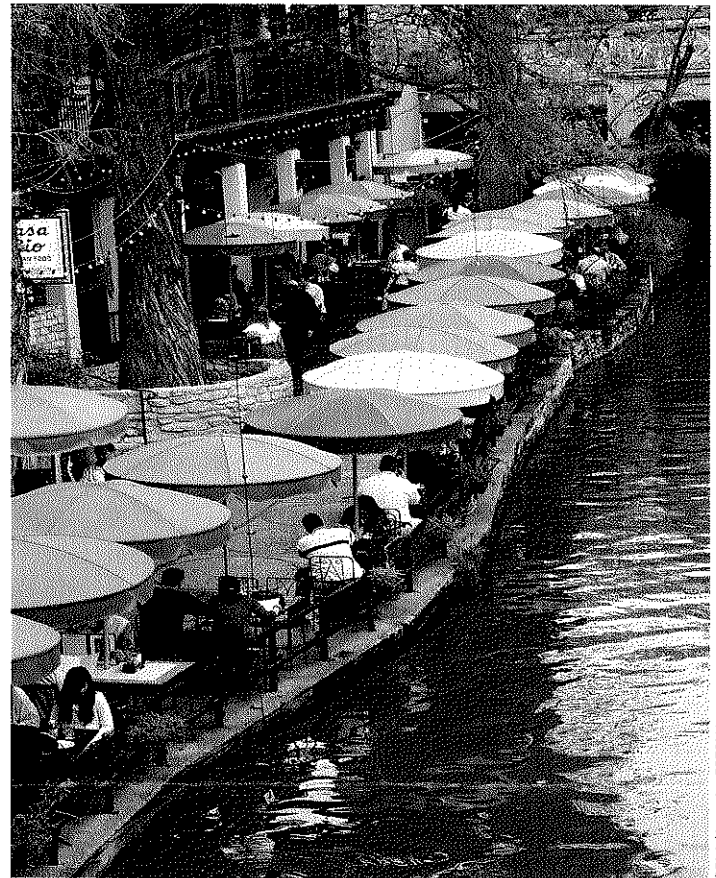
People have often approached the problem from predictive studies. What is currently emerging is an appreciation

of other approaches, many of which focus on the representation of the "physics" of the atmosphere and the climate system. It has proven remarkably difficult to improve the parameterizations and the robustness of our climate predictions. This is one of the major challenges. Perhaps what is easiest is the recognition that weather and climate do need to be studied in an integrated fashion, and hence, there is an increasing recognition that weather data stand at the foundation of climate data records.

What has the effect of the theme been on the programming of the meeting?

This theme is particularly exciting for many AMS committees and members. As a

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San Antonio Riverwalk

"Impacts of 2006's Weather" Reviews the Year's Top Stories

Impacts of 2006's Weather, a one-day program highlighting the top weather and climate stories during 2006, is meant for anyone with an interest in learning more about the what's and why's of important meteorological events. In past years the session has attracted considerable media attention, and understandably the agenda is finalized only by the time of the meeting, to accommodate the latest developments. Nonetheless, *BAMS* asked NOAA's Chris Landsea, one of the chairs of the event, for a sneak preview:

What topics do you expect to feature?

The first session will focus upon international weather, such as the strong Australian tropical cyclones that struck this year. Then there will be a panel discussion on "Weather Impacts on Sports and Enter-

tainment Venues" including the 2006 Busch Stadium (St. Louis) Microburst. We'll finish up with a session on the top U.S. events, including the winter storms in 2005/06 and tornadoes and hurricanes.

What connection might one draw between this weather-centered session and the general themes of climate-weather linkages in the meeting as a whole?

The linkage to the general theme of the AMS Annual Meeting is very direct in the early afternoon panel session, which we will be co-sponsoring with the "Forum on Climate Variations and Change as Manifested by Changes in the Weather" and we'll discuss the drought and fires in the western United States, the floods in the eastern United States, and the summer heat wave.

Growing Student Conference Keeps Adapting to Attendees' Career, Educational Needs

Nothing is growing faster at the AMS Annual Meeting than the Student Conference, now in its sixth year. While the number of students attending the conference has grown from 175 to over 350, the increase in Career Fair exhibitors has nearly kept pace, doubling to the 50 expected this year.

Some students attend two and sometimes three years in a row, and in turn conference organizers have been taking their feedback into account in formulating the agenda.

This year's conference will feature more breakout sessions, allowing more opportunities to interact in smaller groups and talk about subjects of shared interest. "Conversations with Profes-

sionals," a big success last year, will be expanded this year. Separate sessions for undergraduate and graduate students will allow attendees to choose topics, that is, how to select a graduate program, or how to apply for a job. In addition, at the luncheon, instead of having one speaker, guests from the atmospheric community will sit with the students and participate in roundtable discussions.

Changes or no, the reasons to attend, organizers say, are the same as always, such as meeting their future colleagues, networking for jobs, and being exposed to career possibilities.

The highlight for many attendees is the Career Fair, a comfortable setting for

approaching representatives from schools, companies, and government agencies. Organizers advise students to bring resumes and ask questions specific to organizations or programs in which they are interested. They suggest asking the representatives how they reached their current positions.

"Students should try and gather information on the differences of working for the private, academic, or government sector, and which would suit them best," says Stephanie Armstrong, AMS director of development. "Undergraduates should prepare questions about graduate programs and what departments can offer them, including financial support."

Exhibitors of the 87th AMS Annual Meeting

The AMS Annual Meeting is the host to the largest exhibit in the atmospheric, oceanic, and related sciences anywhere. Exhibitors come from the United States and abroad with over 100 organizations showcasing a wide range of products, publications, and services. Listed below are exhibitors who are confirmed for the 87th Annual Meeting of the AMS.

ABB, Analytical
AccuWeather
Advanced Designs Corporation
Aerostar International
Air Force Weather Agency
All Weather, Inc.
American Geophysical Union
ARINC
Association of Hydro-Meteorological
Equipment Industry
AER, Inc.
Atmospheric Systems Corporation
Avtec Systems, Inc.
AXYS Technologies Inc.
BAE Systems
Ball Aerospace & Technologies Corp.
Baron Advanced Meteorological Systems
Belfort Instrument Company
BIRAL
The Boeing Company
Brooks/Cole, Thompson
Cambridge University Press
Campbell Scientific, Inc.
Climatronics Corp.
Coastal Environmental Systems
Computer Sciences Corporation
Davis Instruments
DOE/ARM Program
EKO Instruments Co., Ltd.
ENSCO, Inc.
Enterprise Electronics Corporation
Environmental Research Services

ESRI
EuMetSys c/o Ernst Basler + Partner GmbH
Geonor Inc.
Gill Instruments Ltd.
Global Imaging, Inc.
Global Science & Technology, Inc.
GRAW Radiosondes GmbH & Co.
Harris Corporation
InterMet Systems
International Environmental Data Rescue
Organization
ITT Industries
Japan Meteorological
Kaymont Consolidated Industries
Kendall/Hunt Publishing
Kipp & Zonen
Leosphere
LI-COR Inc.
Lockheed Martin
Logotronic Inc.
Met One Instruments, Inc.
METEK-GmbH
Midland Radio Corporation
MODEM
NASA Science Mission Directorate
NOAA
National Research Council
of the National Academies
National Science Foundation
National Suborbital Education &
Research Center/University of North Da-
kota

Naval Meteorology and Oceanography
Command
Northern Video Graphics, Inc.
Northrop Grumman
Novalynx Corporation
NPOSSE/Northrop Grumman
PAWAN EXPORTS
R. M. Young Company
Raytheon Company
Remtech Inc.
RS Information Systems, Inc.
Sasaki Institute/University of Oklahoma
SAIC
SCINTEC AG
SeaSpace Corporation
SETRA Systems, Inc.
Sonalysts, Inc.
Spectrum Electronics, Inc.
Sutron Corporation
UCAR
Unisys Corporation
University of Oklahoma/Weather and Climate
Programs
Space Science & Engineering Center/Space
Science Center
Vaisala Inc.
Weather Central
Weather Metrics, Inc.
Weathernews Americas Inc.
WSI
Yankee Environmental Systems

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Weather and Climate Interactions Drive Meeting Program

*Meeting Themes
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result, many of the specialty conferences are holding sessions that directly address the theme.

Two integrating themes—"Climate Variations and Change Manifested by Changes in Weather" and "Climate Aspects of Hydro-meteorology"—will be addressed throughout the week. Special joint sessions will explore questions such as: How do climate variations affect weather phenomena? How do weather phenomena affect climate variations? And what are key phenomena and processes that bridge the time scales between synoptic-scale weather and climate varia-

tions of a season or longer? So while addressing the scientific bridges between weather and climate, the meeting is creating bridges within AMS and among subdisciplines.

What has made these issues so compelling to meeting organizers this year?

Some of the recent climate change studies have stated that we are seeing changes in weather related to global warming. Some social scientists suggest that within 20 years water will replace petroleum as a main cause of strategic tension.

That societal context is dealt with directly in the Presi-

dential Forum. How is the Forum tailored to the Annual Meeting theme this year?

In addition to keynote addresses on broad societal perspectives, the Forum showcases the intersection between weather and climate. Invited talks from leading experts will provide unifying perspectives covering a wide range of scientific issues, including the impacts of aerosols, water cycle variability, connections between weather forecasting and climate modeling, improving model parameterizations with targeted observations, climate and extreme weather events such as hurricanes, and detection

and attribution of regional climate change.

What do you hope attendees will learn from the Forum?

Our hope is that the Forum will lead to new ideas and a broader appreciation of the many links between weather and climate. Our hope is that attendees will see the beginning of a change in the way researchers are looking at the observations and building theory and models. By bringing together AMS members from different subdisciplines, we hope for intellectual "cross-fertilization" and increased relevance and robustness of weather and climate science.

**Register for the 87th AMS Annual Meeting
online at www.ametsoc.org**