AOML Keynotes

Miami, Florida

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AOML Honors Its Own

AOML staff gathered to celebrate the accomplishments of their coworkers at an awards ceremony held April 20, 1999. Among those honored were:

Robert Burpee, Sim Aberson, and James Franklin, winners of the 1998 Environmental Research Laboratories Outstanding Scientific Paper Award. Their paper, entitled "The impact of Omega dropwindsondes on operational hurricane track forecast models" (*Bull. Amer. Met. Soc.*, 77, 925-933, 1996) demonstrated that additional dropsondes deployed into a hurricane's surroundings led to reductions in forecast errors of between 16-30%.

Jules Craynock, Deputy Director of the Ocean Acoustics Division, received a certificate of recognition from the Environmental Protection Agency for his outstanding performance in recent field studies conducted in Puerto Rico.

Jannette Perez was recognized for her outstanding effort in coordinating AOML's 1998 Combined Federal Campaign (CFC) program. AOML placed in the top ten for federal agencies in Dade County contributing to the CFC.

AOML Director Kristina Katsaros presented Years in Service Awards to the following individuals:

30 years.....Hugh Willoughby

25 years.....Evan Forde
Carlisle Thacker

20 years.....Peter Dodge
Michael Farmer
Mayra Pazos

Robert Burpee, Sim Aberson, and James Franklin, winners of the 1998 ERL Outstanding Scientific Paper Award, shown with H RD Director Hugh Willoughby (second from left).

Mayra Pazos receives a service award certificate from AOML Director Kristina Katsaros commemorating 20 years of continuous federal employment.

Former Hurricane Research Director Dies

Dr. Stanley L. Rosenthal, director of AOML's Hurricane Research Division from 1977-1993, died of cancer on April 24, 1999. He was 69 years old. During his years of leadership, HRD's research program expanded from a narrow focus on weather modification to its present-day broad investigation of all aspects of tropical cyclone dynamics, forecasting, and environmental impact.

Born and raised in Brooklyn, New York, Dr. Rosenthal received a bachelor's degree from the City College of New York in 1951. In 1953, he earned a masters degree in meteorology from Florida State University in Tallahassee, Florida. Also in 1953, he married Mildred Farlow, a fellow meteorology student at FSU. Dr. Rosenthal served two years in the U.S. Army as a weather forecaster stationed in Germany and then returned to FSU to earn a doctoral degree in meteorology in 1958.

In 1960, Dr. Rosenthal and family moved to Miami to join the staff of the National Hurricane Research Project (later to become the Hurricane Research Division). During the ensuing years, his pioneering research on hurricanes helped lead to the development of the Anthes, Rosenthal, and Trout (A-R-T) three-dimensional numerical hurricane model. This first-of-its-kind computer model provided insight into how hurricanes maintain their intensity. Dr. Rosenthal was awarded a Department of Commerce gold medal in 1970 for this groundbreaking research.

In the early 1980s, HRD relocated to AOML on Virginia Key. A decade later in 1992, Dr. Rosenthal's strong leadership enabled the staff of HRD to "weather" the arrival of Hurricane Andrew, a powerful category-4 storm that devastated the local Miami/south Florida area. For their diligent efforts at tracking Andrew, providing data to forecasters at the National Hurricane Center under conditions of extreme stress and physical danger, HRD as a group was awarded the Department of Commerce's gold medal.

Among the many others awards and honors received during his professional career, Dr. Rosenthal was the recipient of the Greater Miami Federal Executive Board's Employee of the Year Award in the Professional category. He was also elected a Fellow of the American Meteorological Society (AMS) and served as a member and chairperson of the AMS Committee on Hurricanes and Tropical Meteorology.

Dr. Rosenthal retired from federal service in 1993 after a distinguished career spanning 33 years. For several years after retirement, however, he continued his meteorological studies as a Senior Research Associate at the University of Miami's Cooperative Institute of Marine and Atmospheric Studies.

"Stan was a strong personality who left his mark on the field and on the many colleagues who worked with him for such a long time," states Hugh Willoughby, current HRD Director. He is survived by Mildred (Mickey) Farlow Rosenthal, his wife of 46 years; two sons, Russell and David, both of Miami; a daughter, Sarah Lynn, of Tallahassee, Florida; and four grandchildren. A memorial service was held in his honor at the Unitarian Church of South Miami on May 1, 1999.

Federal Women's Council Workshop

June 17, 1999

9:00 a.m.-12:00 noon

Rosenstiel School of Marine and Atmospheric Science

Workshop Topics Include:

Power Point ◆ Public Speaking
Writing ◆ Stress Management

Each session will be about 1 hour

For more information contact:

Joyce Berkeley (305-361-4309 or berkeley@aoml.noaa.gov)

Memorial Day

May 31, 1999

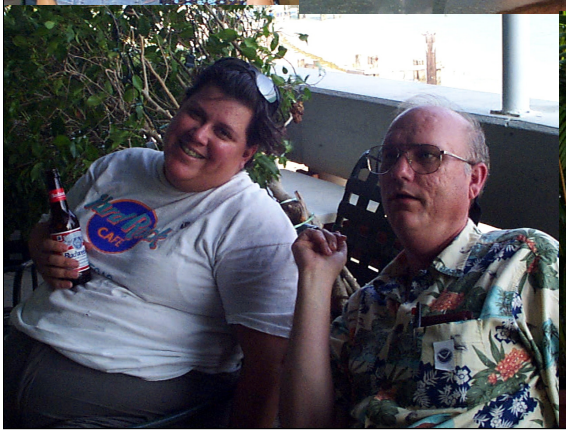
AOML Welcomes Chinese Visitors

Left to right: Mr. Zhou Changxing (SOA/IOT), Mr. Guo Jijie (SOA/IOT), Dr. Kristina Katsaros (AOML), Prof. Zhang Daoping (SOA/IOT), Dr. John Proni (AOML/OAD), Prof. Liang Jie (SOA/IOT), Dr. John Tsai (AOML/OAD), and Mr. Zang Henfgan (NMEFC).

Scientists and engineers from the State Oceanic Administration's (SOA) Institute of Ocean Technology (IOT) in Tianjin, China visited AOML on April 12, 1999. The visitors met with Ocean Acoustics Division Director John Proni and staff and presented descriptions of instrumentation developed at IOT. Research areas of mutual interest were discussed, as well as the possibility of future cooperative efforts between AOML and IOT.

Equinox Party

Thursday, April 15, 1999
Rosenstiel School of Marine and Atmospheric Science



Congratulations

Jason Masters, Oceanographer with the Ocean Chemistry Division, successfully defended his Masters Thesis at the University of Miami's Rosenstiel School of Marine and Atmospheric Science on April 1, 1999. Mr. Masters' thesis was entitled "Sea-air CO_2 fluxes in the northwest Arabian Sea."

Silvia Garzoli, Director of the Physical Oceanography Division, has been invited to become a Steinbach Scholar this summer as part of the Massachusetts Institute of Technology/Woods Hole Oceanographic Institution's Joint Program. As a Steinbach Scholar, Dr. Garzoli will make several formal presentations, as well as participate in informal activities designed to promote interaction and contact with Joint Program students.

Cathy Steward, Budget Analyst with AOML's Office of the Director, has been promoted to the position of Administrative Officer.

Welcome Aboard

Mr. Oluremi R. Fatimilehin joins the Office of the Director's Automated Data Processing (ADP) group as the new Unix system administrator.

Mr. Ivan Soares joins the staff of the Physical Oceanography Division as a CIMAS graduate student to work with Dr. Molly Baringer on analyzing high resolution XBT data in the Atlantic and other associated projects.

Volunteers Work at Nature Center

Volunteer Steve Feuer in search of "alien" species at Bear Cut Preserve.

AOML staff members participated in a volunteer workday at the Marjorie Stoneman Douglas Nature Center, Key Biscayne, on Saturday, April 3, 1999. Volunteers Peter Dodge, Neal Dorst, Craig Engler, Steven Feuer, and Erica Van Coverden assisted the Nature Center with plant restoration activities at Bear Cut Preserve (at the north end of Crandon Park). The group spent their morning searching out and removing intrusive, exotic "pest" plants such as wisteria and re-planting native species such as palms and cicads. The event was organized by Chris Landsea. A good time was had by all.

Baby Makes Three!

Congratulations to Armando Cuervo and his wife, Lourdes, on the birth of their first child, a daughter, born Tuesday, May 4, 1999 at 1:08 p.m. Michelle Lauren, healthy and beautiful, weighed in at 7 pounds, 13 ounces and instantaneously captured the hearts of both her parents.

Sail after Work

The U.S. Sailing Center in Coconut Grove is hosting "Sail After Work," informal dinghy races over short courses close to shore, every Thursday evening until July 22, 1999. Races start at 6 p.m. and are followed by refreshments. Fees are $5.00 for single-handed boats and $10.00 for two-person boats. Contact Mark Powell (305-361-4403) or Doug Wison (305-361-4352) for more information.

UPCOMING INFORMAL RESEARCH REPORTS: MAY 1999*

Date	Division	Speaker	Title of Report
May 13, 1999	HRD	Dr. Frank Marks	Recent WSR-88D observations of hurricane atmospheric boundary structure at landfall.
May 17, 1999	OCD	Dr. Shari Yvon-Lewis	Halocarbon measurements during Gas Ex-98.
May 18, 1999	HRD	Dr. Robert Rogers	Using a primitive-equation numerical model (MM5) in hurricane research.
May 27, 1999	PhOD	Dr. Claudia Schmid	Dynamics of Intermediate Water circulation in the subtropical South Atlantic.

*All reports begin at 3:00 p.m. in the first-floor conference room.

Travel

Ocean Chemistry Division scientists Thomas Carsey, Michael Farmer, Robert Castle, and Michael Shoemaker participated in various data-gathering legs of the Indian Ocean Experiment (INDOEX) aboard the *Ronald H. Brown* from January-April 1999. INDOEX seeks to understand the role of aerosols in cooling the planet and mitigating the effects of global warming.

Yeun-Ho Daneshzadeh and Mayra Pazos attended the Data Product Committee 12 Meeting and the Global Temperature, Salinity, Profile Program Meeting at Bidston Observatory, Birkenhead, United Kingdom on April 12-15, 1999.

Jason Masters traveled to Monterey, California in April to begin a two-month temporary duty station at the Monterey Bay Atmospheric Research Institute. Mr. Masters will serve as a liaison for technology transfer as part of the Ocean Chemistry Division's funded work from NOPP on autonomous chemical and bio-optical sensors and moorings.

Chris Landsea will attend the Risk Prediction Initiative Annual Workshop for Sponsored Research in Bermuda on May 12-14, 1999 and make two presentations about hurricanes. Dr. Landsea will also visit Colorado State University in Ft. Collins, Colorado, on May 16-June 6, 1999 to work with Dr. William Gray on seasonal hurricane forecasting and long-term hurricane variations.

Mark Powell will attend the U.S.-Japan Task Committee Workshop on Wind Hazards in Tsukuba, Japan on May 24-28, 1999.

Stanley Goldenberg will attend the Property Claims Services Catastrophe Meeting in Tampa, Florida, on May 3-5, 1999 and make a presentation entitled "Hurricanes: The New Century Forecast." Mr. Goldenberg will also attend the 25th Annual Fire and Life Safety Seminar in Ft. Lauderdale, Florida, on May 14, 1999 and make a presentation entitled "Hurricanes: Potential for Devastation."

AOML Hosts PIRATA and COSTA Workshops

Workshops for the PIRATA and COSTA programs were held at AOML during the week of May 3-7, 1999. Dr. Silvia Garzoli, Director of the Physical Oceanography Division (PhOD), organized the events; representatives from the U.S., Brazil, France, Germany, Morocco, and South Africa attended.

The Pilot Research Moored Array in the Tropical Atlantic (PIRATA) workshop convened to discuss the present and future status of the PIRATA buoy array. PIRATA is a pilot observational program in the tropical Atlantic maintained through the collaborative efforts of the U.S., France, and Brazil. The Climate Observing System for the Tropical Atlantic (COSTA) workshop convened to discuss and coordinate current observational and modeling efforts in the tropical Atlantic and to lay the groundwork for establishing a climate observing system. The COSTA program seeks to understand the role of the tropical Atlantic in climate variability.

For several years, scientists from PhOD have collaborated with scientists from other U.S. organizations and foreign countries to maintain operational observing programs throughout the world's oceans. Current PhOD observational programs include the expendable bathythermograph (XBT)/volunteer observing ship (VOS) system and the Drifting Buoy Data Assembly Center. These programs, together with the PIRATA array and other observing studies in place by Brazil, Germany, France, and the U.S., will form the basis for the future tropical Atlantic observational system. Data collected from this observing system will enhance knowledge of how the warm water of the tropical Atlantic affects weather and regional climate.

As a result of the workshops, the PIRATA Steering Group recommended an additional five year transitional phase towards development of a sustained climate observing system (to early 2006). This extension will allow for a full demonstration of the utility of PIRATA data, and a smoother transition to operational status, if warranted. The COSTA workshop produced a series of recommendations for additional observational sites, as well as for modeling studies, which will be published in a proceedings report. Information about the COSTA program can be found at web site www.aoml.noaa.gov/phod/COSTA.

Scouts Study Oceanography Aboard R/V *Coral Reef*

Jules Craynock, Deputy Director of the Ocean Acoustics Division, recently went to sea with 15 boy scouts from Miami Troop 300 to conduct the field portion of their Oceanography Merit Badge. The scouts enjoyed a full day offshore of Key Biscayne aboard the R/V *Coral Reef II* and were introduced to plankton collection and study, physical oceanography, and ship operation/navigation. Captain John Rothchild and his wife Jeanne provided an entertaining and informative view of how to survive at sea with scientists aboard.

Scouts from Troop 300 view live plankton through microscopes.

Keynotes can be viewed online in PDF format at the following Internet web site address:
http://www.aoml.noaa.gov/keynotes

Keynotes is published monthly by the Atlantic Oceanographic and Meteorological Laboratory. Contributions are welcome and should be submitted prior to the last week of each month to ensure inclusion in the following month's edition. Please address all correspondence to Ms. Gail Derr, Publishing Editor, 4301 Rickenbacker Causeway, Miami, FL 33149. Contributions may also be submitted by fax at (305) 361-4442 or by email (derr@aoml.noaa.gov). The deadline for submitting material for the June issue of *Keynotes* is Friday, May 21, 1999.