

Johnson Gets Pecora Award

David S. Johnson, director of the National Environmental Satellite Service, was awarded the 1978 William T. Pecora Award Wednesday, Oct. 11, for his work in applying satellite remote sensing to monitoring the weather and the environment.

The award has been presented annually since 1974 by the Department of the Interior and the National Aeronautics and Space Administration to honor outstanding contributions by individuals and organizations in the field of remote sensing.



David S. Johnson

Johnson was presented the 1978 award at the Fourth Annual William T. Pecora Memorial Symposium on remote sensing in Sioux Falls, S.D.

Dr. Pecora, who died in 1972, was undersecretary of the Interior and earlier was director of the U.S. Geological Survey. He was a motivating force in the development of NASA's Landsat Earth resources survey satellite program and in the establishment of the Interior Department's EROS (Earth Resources Observation Systems) program managed by USGS.

The 1978 award citation says Johnson "has devoted a major

(Continued on p. 2)

TIROS-N Launched

TIROS-N was successfully launched on Friday, Oct. 13, 7:23 a.m., EST. Problems with tape recorders had delayed the launch originally set for Sept. 14.

NOAA Aids Solar Program

NOAA's Air Resources Laboratories in Silver Spring, Md., will provide technical monitoring for a Department of Energy Solar Meteorological Research and Training program at eight universities throughout the United States according to an agreement made recently between NOAA and the DOE.

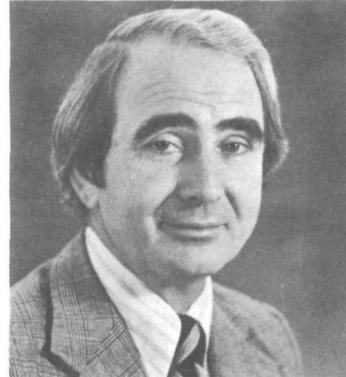
Work at the universities will center on developing economical and reliable methods of radiometric and related meteorological instrumentation, studying regional effects of weather and climate on the performance of solar energy heating systems, and in training teachers.

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OCZM Merges With Ocean Management

The Offices of Coastal Zone Management and Ocean Management have merged, according to NOAA Administrator Richard A. Frank. The merger, which had been anticipated for some time, became effective October 1 on an interim basis until formal documentation is prepared and approved.

Robert Knecht, Assistant Administrator for Coastal Zone

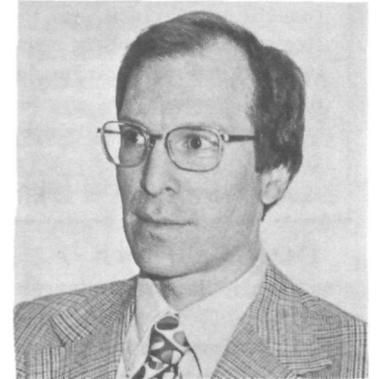


Robert Knecht

Management, becomes the Assistant Administrator for the new office, and Samuel Bleicher, Director of the Office of Ocean

Management, becomes the Deputy Assistant Administrator.

Since the Office of Coastal Zone Management is a legisla-



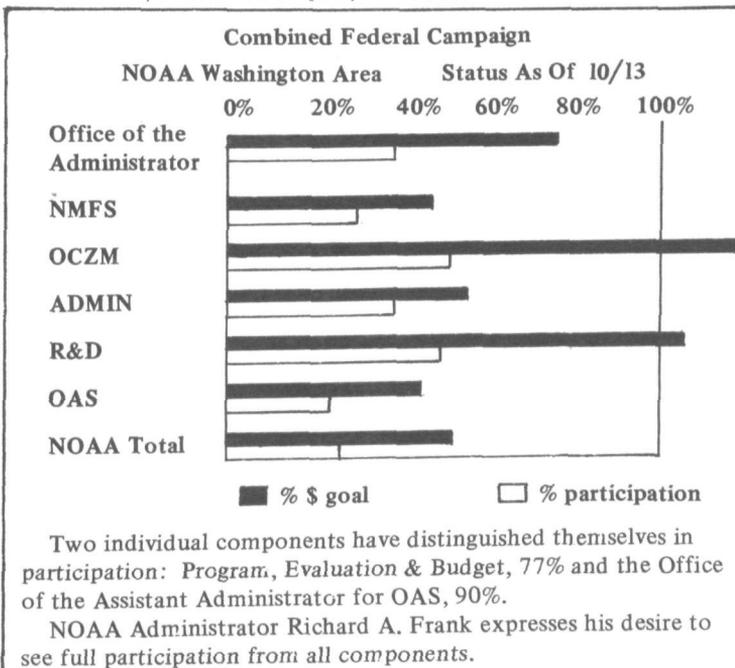
Samuel Bleicher

tively mandated name, the new office will still be called Office of Coastal Zone Management, although a revised name is expected when the Coastal Zone Management Act is reviewed by the Congress this fiscal year.

According to Frank, the merger was partly a result of the similarity of the activities of the two offices.

"As these offices perform their functions," he said, "they found that interactions between them were frequent and important."

Some programs, he said, like the marine sanctuary and estuarine sanctuary programs, were already working closely together. Finally, Frank added, the recent passage of the Outer Continental Shelf Lands Amendments, which give NOAA new responsibilities, led many to conclude that "now is the right time to establish a closer relationship between these two programs."



"A.M. WEATHER" hits the airwaves with the team of Bryan, Mogil & Warren. See pages 4 - 5.

ERL Employees Rewarded

Nine members of Publications Services, part of the Environmental Research Laboratories' Research Support Services in Boulder, Colo., received awards for publication of the Amoco Cadiz oil spill report, a 300-page document containing 116 color photographs, in record time. The oil spill occurred March 16, 1978. On June 2, forty bound working copies of the report were ready for the International Council on the Exploration of the Seas meeting held in France on June 5. A final version was printed and ready for distribution by July 14.

Lindsay Murdock, editor

of the group received a \$350 special achievement award for her responsibility in coordinating the publication of the preliminary scientific results of the oil spill. Working with Dr. Wilmot Hess, director of ERL, Murdock organized the gathering of materials and supervised editorial and manuscript preparation.

Eight other members of Publications Services--Dorothy Burdick, Faye Canova, Harry Covey, Eulalia French, Shirley Guiraud, Eugene McAdoo, Marjorie Nielsen, and Thomas Theotokatas-- received a \$600 group award for their parts in publishing the report.



Seven members of ERL's Publications Services are shown receiving their awards for publication of the Amoco Cadiz oil spill report. Shown are: (l to r) Lindsay Murdock; Shirley Guiraud; Marjorie Neilson; Eulalia French; Dr. Wilmot Hess, ERL Director; Dorothy Burdick; Harry Covey; and Faye Canova. Also sharing in the awards were Thomas Theotokatas and Eugene McAdoo who were not available for the picture.

Solar (From p. 1)

engineers, architects, meteorologists, and others in the science and technology of solar energy.

One of the early goals of the program is to develop a general solar "index"--a number that, like the familiar air quality index, would represent a group of inter-related meteorological factors in a single quantity.

An experimental solar index has been made available daily by NOAA and DOE to press, TV and radio since last May's "Sun Day." That index represents the percentage of the average household hot water requirements for a typical family of four that could have been obtained from a typical commercial solar hot water heater on the given day. National Weather Service offices in a dozen cities are providing the data for the calculation of the index to the DOE contractor, Solar Environmental Engineering Company of Ft. Collins, Colo. The experimental index has been popular with the media and the public, and work is now underway to develop a system for deriving the index from conventional weather data sources rather than the telephone collection methods now in use.

Target groups for the training programs range from secondary school physical science teachers to energy engineers, architects, and meteorologists.

Seminar

Dr. James W. Miller, Deputy Director of NOAA's Manned Undersea Science and Technology Office, Research and Development, will head a seminar, "Boundaries of Creation," at the 7th annual Inward to the Sea program at Lisner Auditorium, Washington, D.C. on November 4. Other topics on the program include: "Chesapeake Bay Oyster Diving," "Psychological Factors in Diving," "Drugs in Diving," "Decompression Theory," and others. For more information on the program call (202) 347-0206.

The universities participating are: Georgia Institute of Technology at Atlanta; the University of California at Davis; the State University of New York at Albany; Trinity University in San Antonio, Texas; the University of Michigan at Ann Arbor; the University of Alaska at Fairbanks; and the University of Hawaii at Manoa in Honolulu.

Contract monitors for the university program are Monte F. Poindexter of the Air Resources Laboratories and Dr. Ronald Holstorm at the Solar Energy Research Institute in Golden, Colo.

For further information about the program, contact Poindexter at FTS 427-7645 in Silver Spring, Md.

Johnson Receives Award (From p. 1)

portion of his scientific and managerial life to the development and implementation of remote sensing systems designed to observe weather patterns, impacts of weather and man on our environment, the climatological trends of the Earth, and in the process eliminated or alleviated loss of property and life as a result of natural disasters.

"In so doing, he has displayed extraordinary talents as a scientist-manager and has performed his role in these activities in a manner that is a credit to the

United States by implementing capabilities that are of great importance to the peoples of the world," the citation adds. "In addition to his accomplishments in the field of remote sensing, Mr. Johnson continues to provide vigorous leadership, has created a managerial model for operational systems that will guide other programs as they advance from research stages, and has demonstrated his breadth of interest by fostering programs aimed at assessment of the Earth's resources."

Coastal Zone Issues FY 78 Program Status

Over 28 percent of the U.S. coast, including Alaska, and 49 percent of the coastal population are now being protected under coastal planning and management. Close to \$33 million in Federal grants have gone into coastal management programs, both development and administration, during FY 78. This amount includes assistance for urban waterfront projects in 14 states and fisheries management in 13 states. Of the 35 states and territories eligible for coastal zone management funding, 13 have approved CZM programs (37%).

NOAA NEWS

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Articles to be considered for publication should be submitted at least 10 days in advance to NOAA News, Room 108, Rock-Wall Bldg., Office of Public Affairs, National Oceanic and Atmospheric Administration, Rockville, Md., 20852.

NOAA News reserves the right to make corrections, changes or deletions in submitted copy in conformity with the policies of the paper or the Administration.

Norma V. Reyes, Editor
Warren W. Buck, Jr., Art Director

NWS Advice For Winter

Last winter's record storms, with heavy snow and bone-chilling temperatures, made life miserable for millions. For many it was the worst winter; for many it was the last winter.

Even as the death toll from a late January blizzard in the Midwest climbed toward 100, bitterly cold weather continued over much of the area and icy blasts invaded as far south as the Gulf Coast. With this in mind, it's time to look ahead to this winter—and be prepared for the worst.

Safety experts say auto accidents kill more people in the winter than falls on ice, freezing, or even heart attacks from shoveling snow.

There is, however, solid advice available to the winter driver. NOAA's National Weather Service forecasts are used by millions in planning daily activities, but the Weather Service also has accumulated years of experience on how people can deal with winter's cold and snow, both at home and on the road.

Car winterizing

Before you venture out on a trip, take your car to a garage for "winterizing." This isn't as formidable as it sounds and could mean just a few inexpensive checks which at least will help your peace of mind.

"Winterizing" should include an engine tune-up, if necessary. An untuned car is undependable and in an emergency your life could depend on a sure starting and smooth running engine.

While your car is being serviced, have them check the battery. Even a fully charged battery has only about 65 percent of its original starting power when the temperature goes down to freezing.

Have the antifreeze checked and ask them to inspect all of the water hoses for tight connections and leakage. Ask them to look over the heater-defroster system, the windshield washer and wipers. Are all the lights (including the inside dome light and the emergency flasher) working and are the "beams" ad-

justed? Are the brakes (including the emergency brake) properly adjusted; is the exhaust free from leaks; is there plenty of tread on the tires? If snow covered roads occur even once in a while you should consider having snow or studded tires put on. Make sure you're using the oil recommended for winter-time.

Essential Car Kits

After your car is in good mechanical shape, there are a few more items of "winterizing" you may find worthwhile. Suggested car kits for winter driving vary in complexity from tire chains and a sack of cat gravel thrown in the trunk to camper's outfits including sleeping bags, stoves, canned food, clothing, compasses, shovels, flares, axes; in fact, something for literally any emergency one might encounter. The "best" kit probably falls somewhere in between. It should be tailored to the worst conditions you might expect. If you live in a city where your worst emergency drive might be a mile and a half to a drug store, an abbreviated kit would be sufficient. A flashlight, tire chains, some gravel, a snow shovel, and a windshield scraper would probably do.

In rural areas, the situation is much different as there is always the chance you may be marooned in your car. If you might have to make a longish drive in an emergency through sparsely populated areas, your kit should contain all of the items mentioned above, plus a tow chain, fire extinguisher, booster cables, external heater, first-aid kit, knife, compass, blankets, paper towels, matches, candles, pliers, screwdriver, and adjustable wrench.

Personal winterizing

A final bit of "winterizing" should be done on yourself before you venture outside in the cold and snow. Dress appropriately especially if it's windy. Winds increase the chilling effect of cold weather. Even if you are going from your front door directly to your car, bundle up.

NWS Facilities Engineers Meet



Attending the recent NWS Regional Facilities Engineers' Conference at NWS headquarters were: (seated l or r) John Gallivan, NWSH; Bob Doebbeling, Southern Region; Mike St. Clair, NWSH; Merritt N. Techter, NWSH; Henry Besmen, NWSH; Tom Lilly, Alaska Region; Dom Conte, Pacific Region; (standing l to r) Don Blevins, Southern Region; Bob Hedrick, NWSH; Sam McCamant, NWSH; Rick Heath, Central Region; Bill Mercanti, NWSH; Duane Pond, Western Region; Al Kerner, Eastern Region; and Joe Goldman, Eastern Region.

Facilities Engineers from the six regional offices of the National Weather Service met at the NWS Headquarters recently to discuss the work program for FY 1979.

In addition to the routine task of maintaining over 300 existing Weather Service offices and other real property, the group is responsible for the installation of weather sensing equipment and the design and construction of all new buildings and structures.

In his opening remarks, Merritt N. Techter, Associate Director, Technical Services, commended the facilities people on the work they have been doing. He noted that in the past two and a half years they had installed 65 new

radar systems, all on schedule; and of the 189 AFOS site preparation projects now under way, 169 are ahead of schedule (AFOS is the new NWS sophisticated computerized communications system that will replace the existing facsimile and teletype network.)

"We had quite a sizeable facilities program in FY 78," said Henry C. Besmen, Chief of the Facilities Engineering Branch, WSH, "and FY 79 looks even more challenging. We are fortunate that we have an unusually capable group of engineers and facilities technicians in the field who always manage to get the job done despite manpower and fund limitations."

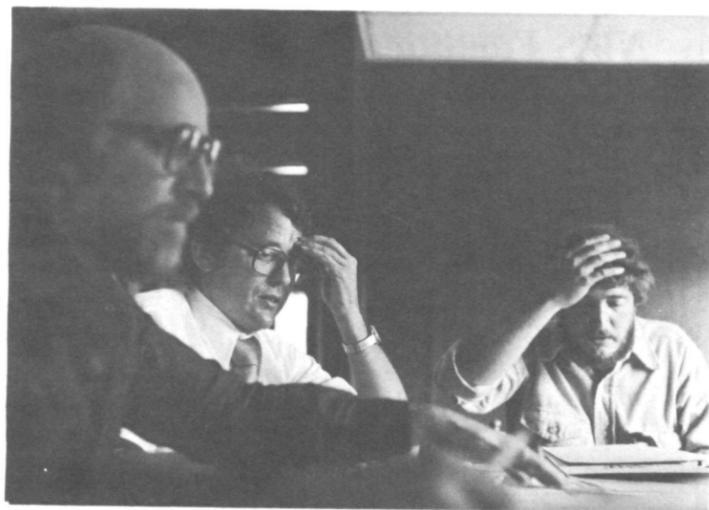
Your car is good protection from the elements but you may have to leave it. Put on several layers of loose-fitting clothes. A couple of sweaters are better than a warm-up jacket. Mittens are warmer than gloves. You'll be glad if you have a cap or scarf that covers your ears. Wear boots or overshoes.

If your car is in good mechanical shape, you have a number of the emergency winter driving kit items mentioned, and you are dressed properly, you've got a good change of surviving the

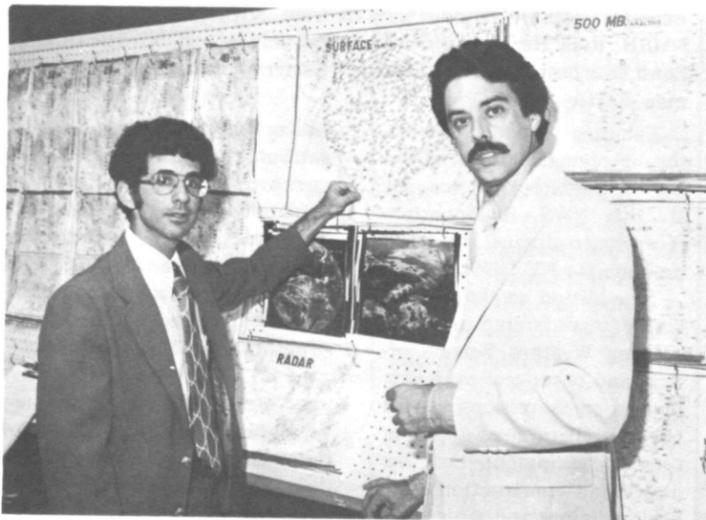
most dangerous and frightening situation that can occur to the driver in winter weather. That is being trapped in your car during a blizzard in a remote spot where help is not likely to come for some hours.

The chances are good that you will be rescued if you react calmly and use your head.

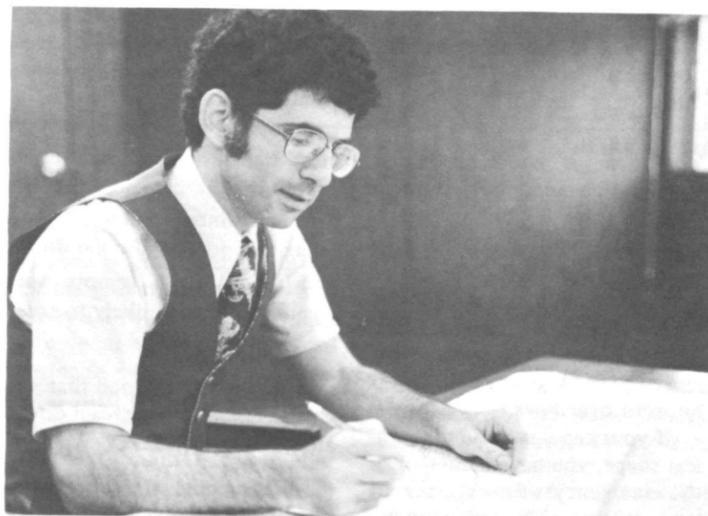
The first and simplest rule to follow when you hear a National Weather Service winter storm warning is plan to stay at home.



NOAA's Ed Gross, OA, and Dale Bryan, NESS, and Douglas G. Clark, producer/director for "A.M. WEATHER," tackle some of the headaches of putting together a TV show.



Mike Mogil and Rich Warren inspect some of their props.



Mike Mogil studies his charts.

"A.M. WEATHER"

"A.M. WEATHER," a 15-minute public television weather program goes on the air October 30, with three NOAA meteorologists, H. Michael Mogil and Richard Warren of the National Weather Service, and Dale Bryan of the National Environmental Satellite Service.

The program, produced by the Maryland Center for Public Broadcasting, will be designed primarily for private pilots and other aviators but also will have special appeal to practically anyone needing comprehensive weather information for planning purposes. It is scheduled for viewing every weekday during the breakfast hours. There will be two "live" broadcasts—at 6:45 a.m., EST, emphasizing Eastern weather, and at 8:45 a.m., EST, focusing on Western conditions—and two taped repeat broadcasts at 7:45 and 9:45 a.m., EST. Local stations carrying the shows will select their own schedules. To date, more than 130 public television stations from coast to coast will carry "A.M. WEATHER."

Each show will include an over-all look at the weather nation-wide, a description of factors expected to affect the weather for the next two days, and detailed forecasts for various regions. Along with weather maps, there will be satellite photos and other visual aids to promote easy understanding. This will make the programs valuable for science teachers to videotape and replay for their students.

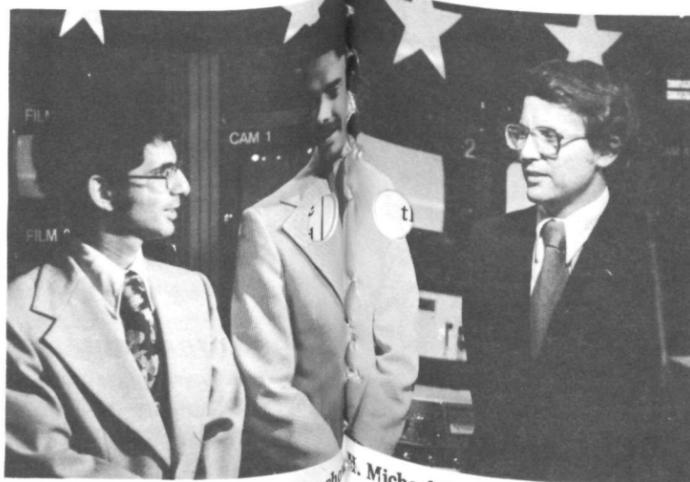
Although "A.M. WEATHER" is tailored after "Aviation Weather," a Friday evening program that ran on many PBS stations from 1972 to 76, this will be the first time professional NWS and NESS meteorologists will be on-the-air giving live forecasts.

The three meteorologists bring a broad spectrum of experience and talent to the program:

Dale F. Bryan has been an operational meteorologist for 13 years, having worked with the Air Weather Service of the

U.S.A.F., the National Weather Service, and the National Environmental Satellite Service. A graduate of San Jose State College in Calif., he also attended the University of Colorado and the Catholic University of America, Washington, D.C.

In the Air Force, Bryan was a weather forecaster at both F.E. Warren AFB, Wyo., and Tan Son Nhut AB, Vietnam. For two years he was an Aerial Reconnaissance Weather Officer at Andersen AFB, Guam, where he logged 700 hours crew member time in the WC-130 as a member of the "Typhoon Chasers." He flew into the eye of 20 fully developed typhoons and made



And now, the stars of the show, Michael Mogil, Richard A. Warren, and Dale F. Bryan.

some 45 flights into lesser developed tropical storms. For this work he was awarded the Air Medal. He was discharged with the rank of Captain.

Bryan spent his NWS career in Fresno, Calif., where he supported aviation, agriculture, and the public service meteorological programs. In 1972, he went to Washington, D.C. to work in the Synoptic Analysis Branch of NESS as a satellite meteorologist. The SAB provides satellite-derived weather data to the National Meteorological Center; it is also involved in detecting logical cyclones (hurricanes and typhoons) in all areas of the world. Bulletins describing these conditions are sent to meteorological services around the globe.

A member and national offi-

cer of the National Weather Association, he also belongs to the Aircraft Owners and Pilots Association and holds a private license.

H. Michael Mogil has been a meteorologist with the National Weather Service for more than 12 years. Prior to his assignment on "A.M. WEATHER," he worked as an emergency warning coordinator for the Disaster Preparedness Staff and as severe local storms program leader for the Public Services Branch at NWS Headquarters, Silver Spring, Md. Mogil has also worked as a research meteorologist for the Techniques Development Laboratory and as a forecaster at

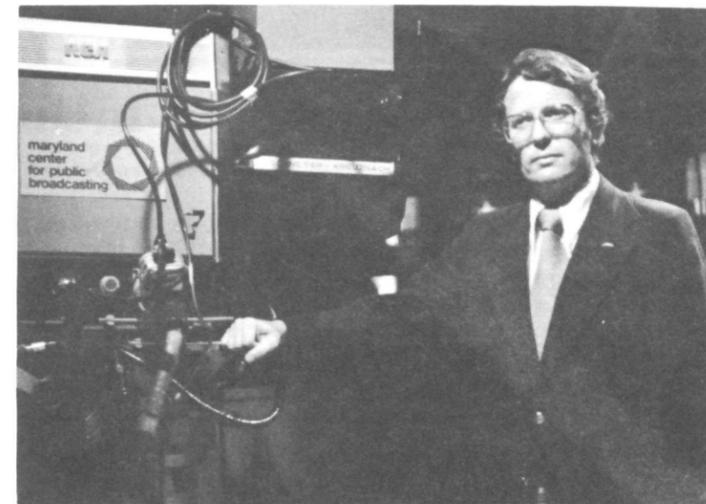
presentations to many elementary and secondary schools. During the past two years he has been interviewed by radio stations and newspapers and has appeared on the U.S. Department of Agriculture TV program, "A Better Way."

Richard A. Warren has been employed by the National Weather Service for 8 years. He comes to "A.M. WEATHER" from the Technical Procedures Branch where he was a senior instructor on the AFOS (Automation of Field Operations and Services), a new computerized data-handling system. Previously he was assigned to the Scientific Services Division, Central Region Headquarters, as satellite and video tape program leader. He also held positions as hydrologist at the River Forecast Center, Kansas City, and as a meteorologist at the Weather Forecast Office in St. Louis, Mo.

Warren graduated from Parks Aeronautical College, St. Louis University, with honors, earning the President's Honor Scholarship for academic excellence. He went to Colorado State University for his master's studies on a National Science Foundation Fellowship. A member of Pi Mu Epsilon, a national mathematics honor fraternity, he also belongs to Toastmasters International and the American Meteorological Society.

The author of scientific papers on the interpretation of satellite data, Warren has also presented weather reports on "Up on the Farm," an innovative half-hour weekly program for the agricultural community that is aired statewide on stations of the Maryland Center for Public Broadcasting.

Funding for the program has been provided by the Federal Aviation Administration and the Aircraft Owners and Pilots Association's Air Safety Foundation. The General Aviation Manufacturers Association, National Business Aircraft Association, and the National Pilots Association have contributed a separate promotion fund for the program.



Dale Bryan poses with a co-worker, the Maryland Center's TV camera.



Rich Warren tries out his smile for the camera.



"This is a very serious show. Take off that cloud costume!"

Comp Time Provision Included In Flexitime Act Signed

The Federal Employees Flexitime and Compressed Work Schedules Act has been signed into law by President Jimmy Carter. The Act provides for full flexitime, including a four day week, to be used experimentally in designated agencies.

Apart from these provisions, Title IV of the Act became effective Sept. 29, providing for time off without charge to leave for absences due to personal religious beliefs with such absences being paid through the use of compensatory time.

All of the ramifications of Title IV have not been translated into regulations yet, but generally agencies shall permit employees to work overtime as

comp time in order to offset absences due to religious beliefs, to the extent that productive work can be performed, and that such scheduling does not interfere with the mission of the organization. The comp time may be worked prior to or after the actual absence.

Title IV states that such comp time is allowable irrespective of any other law. This indicates that employees who are, in general, now prohibited by FLSA from accruing comp time can accrue comp time for this purpose. Additionally, it is probable that part-time employees will benefit although the general counsel of the Civil Service Commission is now determining if

the definition of overtime, i.e., over eight or over 40 hours is still applicable. It is also apparent that the GS-15 limitation does not apply.

It is recognized that the above are general provisions only. More specific regulations will be issued as the Commission releases them. For the interim all employees will arrange for time off through the usual official channels. Supervisors will work out repayment of the absence through overtime or by rescheduling work tours. Part-time employees, if tours cannot be rescheduled for that day, will be permitted to earn comp time irrespective of pending decisions of the Commission. Some adjust-

ment of part-time overtime may have to be made later if the CSC decides that overtime is only over eight or over 40 hours.

FREE HEALTH SCREENING FAIR

NOAA employees in the Rockville, Md., area are reminded to pre-register for the free health screening fair to be held Oct. 31 and Nov. 14 at NBOC-2 from 9:30 a.m. to 4 p.m.

For more information, and to pre-register, call the Employee Relations and Advisory Services Section on 443-8105.

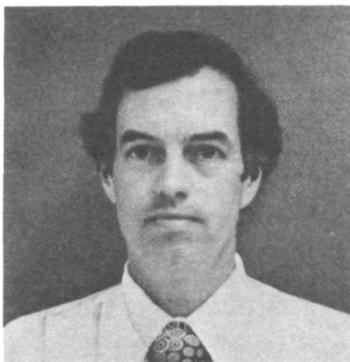
NOAA Personnel Division Lists Current Vacancies

Announcement No.	Position Title	Grade	Organization	Location	Issue Date	Closing Date
NASO 78-C22	Fishery Biologist	GS-15	NMFS	La Jolla, Calif.	10/24/78	11/24/78
NESS 78-27	Oceanographer	GS-13	NESS	Anchorage, Alaska	10/19/78	11/09/78
NESS 78-28	Supervisory Meteorologist	GS-13	NESS	Kansas City, Mo.	10/24/78	11/07/78
NESS 78-29	Physical Scientist	GS-13	NESS	Suitland, Md.	10/19/78	11/02/78
NCC 78-31	Computer Specialist	GS-11	NCC	Asheville, N.C.	10/25/78	11/08/78
CR 78-48	Electronics Technician	GS-11	NWS	Ann Arbor, Mich.	10/19/78	11/02/78
CR 78-49	Electronics Technician	GS-10	NWS	Monett, Mo.	10/19/78	11/02/78
CR 78-50	Electronics Technician	GS-10	NWS	Evansville, Ind.	10/19/78	11/02/78
CR 78-52	Electronics Technician	GS-10	NWS	Houghton Lake, Mich.	10/25/78	11/08/78
CR 78-53	Electronics Technician	GS-11	NWS	Kansas City, Mo.	10/25/78	11/08/78
CR 78-54	Electronics Technician	GS-11	NWS	Chicago, Ill.	10/25/78	11/08/78
CR 78-55	Hydrologist	GS-13	NWS	Kansas City, Mo.	10/25/78	11/08/78
CR 78-56	Meteorological Technician (2 vacancies)	GS-10	NWS	Green Bay, Wis.	10/30/78	11/14/78
CR 78-57	Meteorological Technician	GS-10	NWS	North Platte, Neb.	10/30/78	11/14/78
ER 78-59	Electronics Technician	GS-09	NWS	New York, N.Y.	10/19/78	11/02/78
ER 78-60	Electronics Technician	GS-10	NWS	Bridgeport, Conn.	10/19/78	11/02/78
ER 78-61	Meteorological Technician	GS-7/8/9	NWS	Worcester, Maine	10/19/78	11/02/78
ER 78-62	Meteorological Technician	GS-8	NWS	Charleston, S.C.	10/19/78	11/02/78
ER 78-63	Sr. Electronics Technician (3 vacancies)	GS-10	NWS	Baltimore, Md.; Norfolk, Va.; Roanoke, Va.	10/30/78	11/14/78
ER 78-64	Sr. Electronics Technician (4 vacancies)	GS-10	NWS	Wilmington, Del.; Atlantic City, N.J.; Allentown, Pa.; Wilkes Barre-Scranton, Pa.	10/30/78	11/14/78
NWS 78-65	Communications Control Technician (2 vacancies)	GS-09	NWS	Suitland, Md.	10/30/78	11/14/78
ER 78-65	Sr. Electronics Technician	GS-11	NWS	Albany, N.Y.	10/30/78	11/14/78
ER 78-66	Electronics Technician	GS-10	NWS	Asheville, N.C.	10/30/78	11/14/78
EDIS 78-69	Archives Technician	GS-04	EDIS	Washington, D.C.	10/24/78	11/07/78
HQS 78-89	Personal Services Accounting Technician	GS-06	HQS	Rockville, Md.	10/30/78	11/21/78
NOS 182-78	Geophysicist	GS-11	NOS	Rockville, Md.	10/19/78	11/09/78
ERL 78-324	Physical Scientist	GS-12	ERL	Ann Arbor, Mich.	10/25/78	1/15/79

NOTES ABOUT PEOPLE

Aubert D. Eubanks of El Paso, Texas is the new Official in Charge of the Knoxville, Tenn., office of the National Weather Service. He entered NWS in 1959 and had been in charge of the El Paso office since 1975.

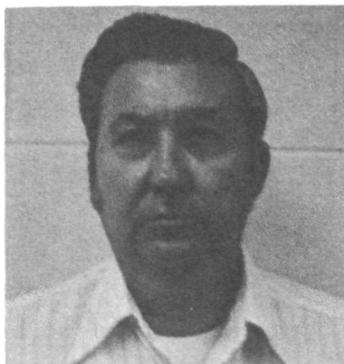
Eubanks has spent much of his Weather Service career in the southeast U.S., including assignments at Montgomery, Centreville, and Huntsville, Ala.; and Miami, Fla. His career has also taken him to Alaska and to the West Indies where he was supervisor of the Swan Island weather office. He has received formal



Aubert E. Eubanks training from Auburn University, Pennsylvania State University, and the University of Miami.

John Graff, MIC, WSFO Minneapolis, was honored at the recent 18th annual awards banquet of the Minnesota Association of Civil Defense Directors. Graff was given the annual award presented to a person outside the association "for outstanding service to the public and the association."

Wilbur R. Peterson of Lubbock, Texas has been selected the Official in Charge of the National Weather Service office at Fort Myers, Fla. A veteran of 25



Wilbur R. Peterson

years of varied weather work in the military and NWS, Peterson obtained his initial training in weather observing and forecasting in the U.S. Air Force. Be-

fore coming to NWS in Tampa in 1966, he held weather positions at Del Rio, Tex.; Swan Island; Apalachicola, Fla.; Waco, Tex.; and Anchorage, Alaska. Early in his NWS career, Peterson spent a year at Eureka, Northwest Territories, Canada, recording scientific data, and another year on Fletchers Ice Island T-3, a floating ice island in the Arctic, recording meteorological data.

Donald J. Close, former assistant regional hydrologist, has been named as the new Hydrologist in Charge at the Ohio River Forecast Center, Cincinnati, Oh. He began his weather career with the Army Air Force 11th Weather Squadron in Alaska before joining NWS in 1951. His first NWS assignment was at the Analysis Center in Washington, D.C., followed by assignments in Allentown, Pa.; Winston-Salem and Spartanburg, N.C.; Cincinnati, Oh.; Ft. Worth, Tex.; and Harrisburg, Pa. He is the recipient of a DOC Gold Medal, which he received as part of a group award for RFC Harrisburg's timely forecasts and warnings during tropical storm Agnes in June, 1972.

OBITUARIES

Francis X. Martin

Francis X. Martin, 63, retired meteorological technician from the National Weather Service in San Juan, passed away in San Juan on June 25. Martin was a native of Alton, Mass. He joined the Weather Service in 1946 after military service in the Air Force. While in the military he served mostly in Belem, Brazil and Bari, Italy. His Weather Service career was spent mostly in San Juan, where he maintained residence after retirement. He is survived by a sister and brother.

Charles C. Clark

Charles C. (Cord) Clark, weather specialist at WSO Worcester, Mass., died Aug. 22. His Weather Service career began in 1951 in Worcester with the Atlantic Weather Patrol and included service at Swan Island and Providence, R.I., before returning to Worcester. He served in the Marine Corps during W.W. II and was a Lt. Cmdr. of the U.S. Coast Guard Reserve. He is survived by his wife, Cecile; children, Jeffery and Candice; and stepchildren, Dennis and Helen Fontaine, all of Worcester, Mass. 01545.

Joseph Mirisola

Joseph Mirisola, retired NWS supervisor of Hanger 11 at J.F.

Kennedy International Airport, died Sept. 22. He began his Weather Service career at La Guardia Field immediately after serving in the U.S. Air Force in W.W. II. He served his entire career in the New York area, retiring in 1976. He is survived by his wife, Heather; children, John and Mary Ellen, all of Jackson Heights, Long Island, New York.

Paul Hannum

Paul Hannum, retired NWS employee, died Oct. 3. After 48 years of service, Hannum retired from NWS's National Hurricane Center in Miami, Fla., in 1977. His Weather Service career began in 1926 as an observer at Columbus, Oh., progressing to meteorological technician in South Bend, Ind.; Charlotte, N.C.; Mobile, Ala.; Lakeland, Fla.; Anniston, Ala.; and finally Miami, Fla. He was a recipient of the Commerce Department's Bronze Medal Award. He is survived by his wife, Clarie, who resides at 4105 Hargil Drive, Orlando, Fla., and a daughter.

Ken Baye

Ken Baye, NWS observer at Phillip, S.D. died Oct. 3. Baye was manager of the Phillip's Airport since 1973 and had been working for the Weather Service since 1964. He is survived by his wife, Darlene, and sons, Steve and Scott.

NWS South's First Co-Op Student



Karen Filloon prepares to change the chart on the rain gage.

Karen Filloon is the first meteorology student to participate in the Co-Op program in the NWS Southern Region. Filloon, a senior, worked at the Tallahassee, Fla., WSO since early June, returning to Florida State University for the fall and winter quarters

then to Tallahassee WSO for the spring quarter of 13 weeks on-the-job-training. Under the Co-Op program, she will be working at an NWS office 26 weeks a year and going to school 26 weeks a year until graduation, at which time she will enter the Intern Program at a WSFO.



CRISP TARRAGON FILLETS WITH CUCUMBER SAUCE

- 2 pounds thin fish fillets, fresh or frozen
- 1/3 cup tarragon vinegar
- 1/2 cup fine corn flake or bread crumbs
- 1/2 cup cornmeal
- 1/2 teaspoon salt
- 1/2 teaspoon paprika
- Fat for frying
- Cucumber Sauce

Thaw fillets, if frozen. Pour vinegar over fillets; cover and refrigerate 30 minutes to 1 hour. Combine crumbs, cornmeal, salt and paprika; mix well. Coat fillets with crumb mixture. Save vinegar to use in sauce. Fry in single layers in hot fat in large pan over moderate heat 5 minutes. Turn carefully. Fry second side 5 minutes longer or until fish flakes easily when tested with a fork. Serve with Cucumber Sauce. Makes 6 servings.

Cucumber Sauce

- 1/2 cup salad dressing or mayonnaise
- 1/2 cup dairy sour cream
- 2 tablespoons tarragon vinegar
- 1/4 teaspoon salt
- 3 or 4 drops hot pepper sauce
- 1 cup chopped pared cucumber
- 2 tablespoons sliced green onion

Combine salad dressing or mayonnaise, sour cream, vinegar, salt and pepper sauce; mix well. Stir in cucumber and onion. Serve over fillets. Makes about 1-1/2 cups sauce.

Over \$6 Million In Grants Awarded

Texas A&M University received \$1,395,000 for support of 30 projects in oceanic research under the Sea Grant program.

South Carolina Marine Resources Center received \$361,800 for Sea Grant projects including five universities.

Three Connecticut coastal cities—New Haven, Norwalk, and Stamford—will share \$80,000 from CZM for urban waterfront projects.

Four Louisiana coastal parishes will share in separate grants totaling more than \$357,000 from CZM's Coastal Energy Im-

pact Program. From the same program, California's Santa Barbara and Ventura districts will share a \$190,000 grant for air pollution monitoring programs.

Coastal Zone Management grants were awarded to: Puerto Rico, \$1,142,000; Maryland, \$1,400,000; and Maine, \$1,485,000.

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New Charts For Pilots Available

NOS's new Instrument Approach Procedure Charts designed for civilian aviation will be available in a bound format November 30. Walter J. Chappas, associate director of the Office of Aeronautical Charting and Cartography has announced.

The 15 bound volumes, providing complete conterminous U.S. coverage including Puerto Rico and the Virgin Islands (excluding Alaska and Hawaii), portray the aeronautical data required to execute instrument approaches to airports, replace the current looseleaf format, and will be issued every 56 days.

The 15 bound volumes may be ordered as a set, individually, or in any combination or number to meet the individual user's needs. "The regional names coincide with the NOS Airport/Facility Directory, making it a useful companion product," said Chappas.

NOS bound format Instrument Approach Procedure Charts are available as a subscription service or on a one-time issue basis. Subscriptions are

BEST FISH BUYS

According to the NMFS National Fishery Education Center in Chicago, the best fish buys for the next week or so are likely to be frozen whiting fillets and frozen smelt along the Northeast Seaboard; fresh whole bluefish and fresh whiting in the Middle Atlantic States, including the D.C. area; fresh catfish and speckled trout in the Southeast and along the Gulf Coast; frozen dressed smelt and frozen batter-fried fillets in the Midwest; frozen Greenland turbot fillets and Pacific shrimp in the Northwest; and fresh butterfish fillets and frozen turbot fillets in the Southwest.

provided to a subscriber (at a single address specified at the time of ordering) for one year.

Full U.S. subscription service costs \$140. Minimum subscription service, consisting of a subscription to any one of the 15 volumes and including the Change Notice, costs \$30, and additional volumes are \$8 each.

Additional subscription information and order forms may be obtained from Distribution Division (C44), National Ocean Survey, Riverdale, MD 20840.

New Home For "Old Queen"



South Carolina Governor James Edwards accepts an historical thermometer, "Old Queen," from John C. Purvis, Chief Meteorologist for NWS South Carolina. The Governor later presented the thermometer to the Columbia Museum of Arts and Sciences, the new home for the thermometer used by the Sease family of Little Mountain, S.C., to record local temperatures since 1893.

National Oceanic and Atmospheric Administration

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