

## New NOAA Reorganization Plan Approved

Secretary of Commerce Juanita M. Kreps has approved a plan to reorganize NOAA.

The plan, recommended by NOAA Administrator Richard A. Frank, is designed to equip the agency to meet new and growing responsibilities for ocean use and resource management, and climate and weather modification.

The plan has been submitted to the President's Reorganization Project and to the House and Senate Appropriations Committees for review. It would go into effect October 1, 1977.

The new structure reduces the number of key line officers from nine career managers to four policy-level Assistant Administrators, for:

- Fisheries, responsible for fisheries policy and National Marine Fisheries Service.

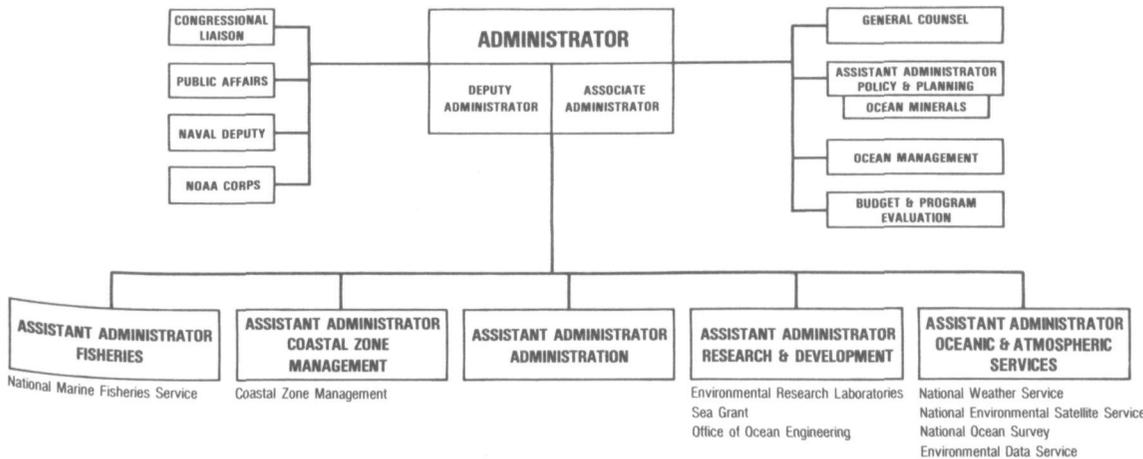
- Coastal Zone Management, responsible for the coastal zone and Coastal Energy Impact Fund Programs.

- Research and Development, responsible for NOAA Environmental Research Laboratories, National Sea Grant Program, Office of Ocean Engineering, and coordination of NOAA research activities with the rest of the Federal Government and scientific community.

- Oceanic and Atmospheric Services, responsible for National Weather Service, National Environmental Satellite Service, National Ocean Survey, and Environmental Data Service.

The existing staff offices of Associate Administrator for Marine Resources and Associate Administrator for Environmental Monitoring and Prediction are abolished. Their responsibilities go in part to the Assistant Administrators above, and their policy development functions are transferred to a new Assistant Administrator for Policy and Planning.

Special attention will be given  
*(Continued on p. 2)*



## Shifting Sand Subject Of New Sea Grant Study

In the first effort of its type, the NOAA Sea Grant Program has launched a long-range research project into the national problem of shoreline preservation.

Dr. Ned A. Ostenso, Director, Office of Sea Grant, has appointed Dr. Richard J. Seymour, staff oceanographer with the California Department of Navigation and Ocean Development,

as project leader. There also will be a steering committee of representatives from industry, government, and the academic community to provide guidance and assistance.

Under three grants, scientists and engineers at the Universities of California, Delaware and Washington will begin the investigation into the movement of  
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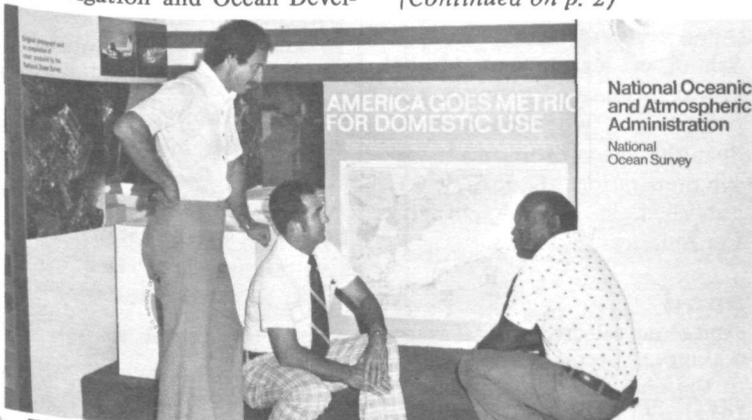
## DOMES Tests Slated for Ocean Mining

The first operational tests of systems for gathering manganese nodules from the floor of the ocean will begin late this year in the central Pacific Ocean, with NOAA scientists observing the "cost" to the marine environment of deep sea mining.

The project is managed by ERL's Marine Ecosystems Analysis program office, through the Pacific Marine Environmental Laboratory (PMEL), Seattle, Wash. Monitoring will be done by the Deep Ocean Mining Environmental Study (DOMES) scientists, under Project Director Dr. Robert Burns.

The mining tests and the environmental study represent the second step in harvesting the roundish lumps of rock containing high concentrations of iron, manganese, copper, and nickel.

While industry has been working  
*(Continued on p. 2)*



The National Ocean Survey's exhibit featuring the use of metric units of measurement on NOS nautical charts was seen by more than 40,000 Boy Scouts at the 1977 National Scout Jamboree, Aug. 3-9, at Moraine State Park in western Pennsylvania. Accompanying the NOS exhibit were (left to right) Roger J. Durosko, Charles B. Ellis, and Harold V. Howard. *(More on pages 4 and 5.)*

## Reorganize *(From p. 1)*

to four areas of growing concern:

—An Office of Ocean Management, reporting to the Administrator, will be created to develop plans for the wise and productive use of ocean areas and to evaluate proposals by others for ocean projects—the marine analogue to land use planning.

—A new Office of National Climate Policy will be created, reporting to the Assistant Administrator for Research and Development, to provide leadership and focus for the developing national concern over such issues as drought, weather modification, and ocean-atmosphere weather interface.

—The Office of Marine Mammals will be upgraded to report directly to the Assistant Administrator for Fisheries.

—An Office of Ocean Minerals, reporting to the Assistant Administrator for Policy and Planning, will be established to work with Congress, the Executive Branch, industry, and environmental and other concerned organizations to manage a national program for deep ocean mineral resources development.

—The plan was formulated after extensive consultation with members of Congress, other parts of the Executive Branch, NOAA personnel and constituency groups, including the scientific community.

## DOMES

*(From p. 1)*

ing to develop techniques for collecting this wealth, DOMES researchers have been engaged in baseline studies of the state of the waters, life forms, and sea bed, prior to mining.

These studies have focused on three sites in the central Pacific judged to be representative of the range of environmental regimes that mining might affect.

The tests will be of hydraulic systems for mining the nodules. A collector, or dredgehead, will travel along the sea floor, drawing in water, nodules, and whatever else lies in its path. The system will separate the nodules from other material, discharging the excess near the sea floor while pumping the nodules up-



Howard Friedman, NWS National Hurricane Center tropical weather analyst, and Dr. William Woodley (right), Chief, Cumulus Group of ERL's National Hurricane & Experimental Meteorology Laboratory, hold the "MAE" Awards presented by the Miami Chapter of Federal Employed Women (FEW).

## Woodley and Friedman Presented FEW Awards

Dr. William Woodley, Chief, Cumulus Group, NHEML, and Howard Friedman, Tropical Weather Analyst, National Hurricane Center, were presented with the "MAE" Award at the Federally Employed Women's Award and Installation Banquet on June 24, in Miami.

The award, which honors the FEW National President, Mae Walterhouse, was given for the first time this year. It is awarded to Federal employees who have provided outstanding service to community, minority, and women's groups.

Woodley was cited for imple-

ward through a pipe to a ship. The remainder of the excess material will be discharged at the sea surface.

From the Oceanographer, DOMES scientists will track the surface plume as it leaves the mining ship. They will collect water samples and analyze them for telltale traces of effluent material, make measurements of the clarity of the water at different places, and probe the water with sonar. They hope to supplement their observations with satellite images.

After the mining test has ended, the DOMES researchers will watch the site to see how it recovers, and how long the process takes.

menting EEO goals through the employment of persons in the Scientific Upward Mobility, 20/20 Work Study and Junior Fellowship Programs, and the Dade County Laboratory Research Program designed for high school students.

Friedman was honored for his work as Chairperson of the NHC EEO Committee. Among the Committee programs: The NOAA display at the Dade County Youth Fair in March 1976, attended by half a million people; and seminars at more than 25 public and private schools in Dade and Broward Counties with a high percentage of minorities.

Recently, with the help of NHC Forecaster Frederick Gonzales, and Jose Partagas, University of Miami, Rosensteil School of Marine and Atmospheric Science, Friedman prepared a "working-man's" Spanish version of hurricane season preparations. The article was published in Spanish, "Diario Las Americas," in June.

## Sand

*(From p. 1)*

sand along selected coastal areas, seeking a better understanding of the phenomenon. The grants, totaling \$223,500, will be matched by nearly \$29,000 in non-Federal funds.

The research represents the first multi-discipline effort to carry out coordinated research over a four- to five-year period,

## Homeowners Ignore Plea To Save Gas

Homeowners using natural gas apparently are ignoring national pleas to conserve the valuable resource, according to a study by Dr. Richard Lehman, NOAA Office of Ecology and Environmental Conservation, and Henry Warren, EDS's Center for Climatic and Environmental Assessment (CCEA).

The rate of natural gas use has not changed significantly over the past three years, analysis of the 12 quarters from 1974 through 1976 shows—indicating that the average gas-heating customer has not appreciably changed heating habits in spite of conservation pleas from government and industry and sharply rising prices.

Using heating degree day statistics, as well as American Gas Association residential sales data, the scientists found that the per-customer consumption of gas for heating is determined almost entirely by the heating degree days occurring in a quarter.

The regions studied included states which together use about half of the nation's residential space heating natural gas—Illinois, Indiana, Michigan, Ohio, Wisconsin, North and South Dakota, Minnesota, Nebraska, Iowa, Missouri, Kansas, Texas, Oklahoma, Louisiana, and Arkansas.

Lehman and Warren developed a new, short-term natural gas consumption model and tested it against the American Gas Association's sales data and the heating degree day statistics.

with heavy emphasis on field experiments.

Shoreline preservation is increasingly significant because coastal urbanization, as well as the construction of jetties, breakwaters, and other structures along the coast, has caused shoreline changes sometimes harmful to existing property.



Change of Command: Capt. George M. Poor assumes command of the National Ocean Survey research ship Oceanographer. Left to right: Pacific Marine Center Director R. Adm. E.A. Taylor, PMEL DOMES Project Director Dr. Robert Burns, Capt. Poor, Capt. Taggart, and Electronic Technician Dan Durham. (Photo: Lt.(jg) Larry Parson.)

## Capt. Poor New Commander Of the Oceanographer

Capt George M. Poor, Seattle, Wash., was appointed commanding officer of the NOAA Ship Oceanographer. Command of the Oceanographer officially changed hands August 5 with the departure of Capt. Kelly Taggart and the arrival of Capt. Poor.

Poor has been with the Pacific Marine Environmental Laboratory since January 1974, working with the Puget Sound MESA (Marine EcoSystem Analysis) program. His sixth ship assign-

ment since he joined the NOAA Corps in 1958, he commanded the USC&GS Ship Marmer in 1964-65 and the McArthur in 1972-74. Poor also served for three years at the Pacific Marine Center, Seattle, Wash.

The 303-foot, 3800-ton Oceanographer is one of the world's best-equipped floating laboratories, commissioned in 1966. The NOS ship combines a full marine environmental research capability with automated engine room control and data acquisition systems; radio, radar and satellite navigation equipment; and a research-oriented arrangement of living quarters, laboratories and oceanographic work areas.

### NOAA NEWS

Published biweekly at Rockville, Md., by the Office of Public Affairs for the information of employees of the Commerce Department's National Oceanic and Atmospheric Administration.

Articles to be considered for publication should be submitted at least 10 days in advance to NOAA News, Room 221, WSC5, 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.

Nancy Pridgeon, Editor  
Warren W. Buck, Jr., Art Director

### HISPANIC HERITAGE

A luncheon honoring Hispanic Heritage Week, Sept. 12-16, will be held in Rockville on September 16 and will feature delicious and exotic Spanish dishes, such as Papas a la Huancaína, Paella, and Flan de Pina. The time is 11:30 a.m. The place is Waters' Caterers, on Nebel St., just off Randolph Rd. Tickets are \$6.00 per person. Order yours from your building representative or call 443-8247. Entertainment will be by the Mexican Embassy Mariachi Band.

## Seventh Annual Open House Scheduled for October

NOAA's Seventh Annual Open House is scheduled to take place in early October this year, and NOAA facilities are making plans for this year's observance.

In the Washington, D.C., area, National Weather Service and the National Environmental Satellite Service plan to hold Open House at the World Weather Building, in Camp Springs, Md.

NOAA field facilities that have indicated an intention to hold an Open House to celebrate

the anniversary are the Atlantic Marine Center in Norfolk, Va.; the NOAA Ship Townsend Cromwell in Honolulu, Hawaii; and the National Climatic Center in Asheville, N.C.

Other facilities planning observances should contact the Office of Public Affairs as soon as possible after scheduling the event. Coordinators will receive sample news releases, radio spots, posters, check lists, and other helpful material.

## New EDS Bibliography on Weather Modification Ready

A new computer-produced bibliography, Weather Modification - Packaged Literature Search 77-1, has been published by the Library and Information Services Division of EDS' Environmental Science Information Center. The fourth in a series of packaged searches on high-interest topics, it contains almost 1,000 references to technical literature on topics such as cloud seeding, fog dissipation, lightning suppression, snow augmentation, and other aspects of weather modification and control.

Available free, the bibliography may be ordered from: the Library and Information Services Division, User Services Branch, Attn: R.R. Walter, D822, WSC-4, 6009 Executive Blvd., Rockville, Md., 20852, or by calling (301) 443-8330.



Robert R. Walter

Weather Modification includes abstracts for many citations. It was produced from the Meteorological and Geostrophical Abstracts data base, which is automated with EDS support.

Packaged literature searches are prepared by LISD Technical Information Specialist Robert

R. Walter. Work is currently underway on searches dealing with oil spills and heavy metals.

Specialized bibliographies also are prepared on request to meet individual needs. Data bases dealing with ongoing research as well as those dealing with published literature are available. Searches are free to NOAA personnel.

## Summer Employees Spend Profitable Time in Washington

This summer, NOAA employed more than 160 summer employees in the Washington Metropolitan Area. The employees represented every educational level from juniors in high school, college students, and graduate students to law students. They represented colleges and universities from all over the U.S.

Pat Barr-Harrison and Chuck Dorsey, Personnel Division, serve as counselors to summer employees and Junior Fellows.

Wallace Blackwell, George Murphy, Clarence Beale and Sylvester Walker of NOAA, FOB4, conducted a seminar for the summer employees interested in computer sciences; and Dr. Duane Cooley, chief, Technical Procedures Branch, NWS, conducted a seminar for aspiring meteorologists. Other seminars were held and more than thirty counseling sessions were conducted.

# 1977 National Scout Jamboree...NOAA Was There



Scouts are loyal, trustworthy, ...and hungry.



Harold Howard, NOS Bathymetric Mapping, tells his son, Jon, what it's all about. Harold is also a District Chairman with the National Capital Area Council.



Mr. & Mrs. Carl M. D'Epiro, NMFS, Gloucester, Mass., appear dwarfed by the carved wooden jaws.



NWS weather station recorded 3½ inches of rain during one 24-hour period (7:30 a.m., Sat., 8/6 to 7:30 a.m., Sun., 8/7).

The 1977 National Scout Jamboree got off to a rousing start at Pennsylvania's Moraine State Park August 3 when a 105-mm howitzer fired two rounds of shot to signal the raising of the American flag and 50 state flags.

Hundreds of red, white and blue balloons, and a flock of doves were released from cages surrounding the area, and souvenir American flags were shot from the cannon into the waiting hands of the 28,500 Scouts who had moved en masse to the park for the six-day Jamboree. The theme for the meeting was "Forward Together, Scouting/USA."

Also moved into the park were exhibits from NOAA's National Ocean Survey, National Weather Service, National Environmental Satellite Service, National Marine Fisheries Service, and Coastal Zone Management.

In addition, exhibits were set up by the Soil Conservation Service, the U.S. Department of Interior's Office of the Secretary, Environmental Protection Agency, National Wildlife Federation, and the U.S. Army Corps of Engineers. The U.S. Air Force had a fly-over of jet aircraft, and the U.S. Navy held parachute jumps for two days. Folk singer Burl Ives and Miss Teenage America also were on the scene.

Then the rains came.

And the rains continued each day until the Jamboree was capped by a magnificent fireworks display over a sea of mud.

Charles B. Ellis, coordinator of the Jamboree Exhibit for NOAA, said that in addition to the 28,500 scouts and 8,500 scout leaders from the U.S. and 24 other countries, there were more than 5,000 exhibitors and staff, and in excess of 70,000 visitors.



Not for 40 days and nights, but it did rain.



This was difficult to miss from Interstate 79.

"The show went on despite the rain," said Ellis, "but we were more cautious of the lightning after a 16-year old Eagle Scout was struck by lightning."

As a demonstration, the National Geodetic Survey stamped a triangulation station disc "BSA Jamboree City 1977"

and set it in concrete in front of the NOAA exhibiting area. The disc later was presented to representatives from the Boy Scout Museum in New Brunswick, N.J., where it will be displayed as a permanent memento of the Ninth National Boy Scout Jamboree.



Ralph Poust, an NGS mark maintenance man for the Pennsylvania area, holds the triangulation station disc stamped Boy Scout Jamboree 1977. He and Vince Stapleton of NOS/NGS set the mark as a demonstration.



(Left to Rt.) Chuck Ellis, NOS Exhibit Coordinator, Harold Howard and Roger Durosco manned the tent exhibit.



Smokey the Bear went to see the Number one exhibit.



These Scouts were really interested in the details on the nautical chart.



The VIP's also enjoyed the exhibits.

## Who is Covered Under Self and Family Health Benefits?

If you are enrolled in a Self and Family Enrollment under the Federal Employees Health Benefits Program (FEHBP), here are your benefits:

**Eligible Family Members:** For enrollment purposes, your family is your spouse and your unmarried children under age 22, including legally adopted children. Unmarried stepchildren, foster children, and recognized natural (illegitimate) children under 22 are also included if they live with you in a regular parent-child relationship.

A foster child for health benefits purposes is a child you are raising as your own, who lives with you, and for whom you have assumed full parental responsibility and control. The child may or may not be related to you but there must exist the expectation that you will continue to rear the child into adulthood. A child temporarily living with you is not your foster child even if you are the sole support; neither is one placed in your

home by a welfare or social service agency that retains control of the child. Similarly, a child whose natural parent is in a position to exercise or share parental responsibility and control is not your foster child. An unmarried child age 22 or over who is incapable of self-support because of a physical or mental incapacity existing before the child's 22nd birthday also is included as an eligible family member.

Ask your servicing Personnel Office about the medical certificate required for a child age 22 or over. If the child is not yet 22, you should submit the medical certificate at least 30 days before the child's 22nd birthday. The medical certificate should include the following information: The child's name; nature of the disability; period of time the disability has existed; the probable future course and duration of the disability; and the doctor's name and address.

If you elect a family enroll-

ment, all eligible family members are covered. You cannot, however, cover your parents or others who are not "eligible family members" even if they live with you or are dependent on you.

**New Family Members:** A new member of your family (such as a newborn child or a new spouse) is automatically covered if you have a family enrollment. You need take no action to include the person in your enrollment but your plan may ask you for information regarding the new family member. If you have a Self Only enrollment and marry or otherwise acquire a new family member, you must change to a Self and Family enrollment within 60 days after your change in family status if you wish to cover the new family member. If you marry, you may register the change 31 days prior to the marriage or up to 60 days after the marriage.

**Loss of Eligibility by Family Members:** Family members lose

eligibility for coverage when the following events occur:

Your wife or husband divorces or annulment of marriage.

A disabled child age 22 or over—marriage or recovery of ability for self-support.

A child under 22—marriage or attainment of age 22.

A child whose marriage ends because of divorce or death before age 22 does not again become an eligible family member.

**Please Note:** You need not notify your employing office when a family member loses eligibility so long as at least two persons (including you) remain covered by your enrollment. However, when you become the only person covered by the Family enrollment, you should immediately change to a less expensive Self Only enrollment. More specific information about FEHBP may be obtained from your servicing Personnel Office.

## NOAA Personnel Division Lists Current Vacancies

Announcement No.	Position Title	Grade	MLC	Location	Issue Date	Closing Date
857-77	Electronics Technician	GS-11	NWS	Salt Lake City, Utah	8-23-77	9-7-77
	Senior Electronics Technician (2 positions)			San Francisco, Calif.	8-23-77	9-7-77
848-77	Meteorologist	GS-11	ERL	Norman, Okla.	8-24-77	9-8-77
849-77	Geologist or Oceanographer (1 position)	GS-11	ERL	Juneau, Alaska	8-24-77	9-8-77
851-77	Meteorologist (Leading Forecaster)	GS-13	NWS	Atlanta, Ga.	8-24-77	9-8-77
852-77	Industry Economist	GS-11	NMFS	Washington, D.C.	8-24-77	9-8-77
853-77	Meteorologist (Lead Forecaster)	GS-12	NWS	Omaha, Nebr.	8-24-77	9-8-77
854-77	Engineering Technician	GS-7/9	NMFS	Auke Bay, Alaska	8-24-77	9-8-77
855-77	Operations Research Analyst	GS-12	NMFS	Miami, Fla.	8-24-77	9-8-77
856-77	Contract Negotiator	GS-13	NMFS	St. Petersburg, Fla.	8-24-77	9-8-77
452-77	Program Analyst	GS-13	NMFS	Terminal Island, Calif.	8-29-77	9-13-77
843-77	Public Information Officer	GS-14	HDQS	Washington, D.C.	8-22-77	9-13-77
858-77	Meteorologist	GS-13	ERL	Miami, Fla.	8-29-77	9-13-77
859-77	Hydrologic Technician	GS-8	NWS	Silver Spring, Md.	8-29-77	9-13-77
860-77	Fisheries Management Specialist (Regulations)	GS-13	NMFS	Washington, D.C.	8-29-77	9-13-77
861-77	Communications Management Specialist (2 positions)	GS-11	HDQS	Rockville, Md.	8-29-77	9-13-77
862-77	Administrative Officer	GS-12	NMFS	Los Angeles, Calif.	8-29-77	9-13-77
863-77	Electronics Technician (Senior Electronics Technician)	GS-11	NWS	San Francisco, Calif.	8-29-77	9-13-77
864-77	Electronics Technician	GS-11	NWS	Salt Lake City, Utah	8-29-77	9-13-77
847-77	Personnel Management Specialist	GS-11	ERL	Boulder, Colo.	8-24-77	9-15-77
850-77	Oceanographer	GS-14	ERL	Princeton, N.J.	8-24-77	9-15-77

## NOTES ABOUT PEOPLE

S. Bronwyn Hurd is the new assistant to the director for communications at the Oregon State University Sea Grant College program.

Hurd joined the Oregon staff from the Massachusetts Institute of Technology where she had been Sea Grant Program com-



**S. Bronwyn Hurd**

communications officer-editor for the past three years. From 1971-1974, she was librarian for a firm of hospital architects in Massachusetts; during 1968-71, she was a library assistant at Harvard University.

She holds degrees from Swarthmore (Pa.) College and Simmons College, Boston, Mass.

Dr. Harris B. Stewart, Jr., director of the Environmental Research Laboratories' Atlantic Oceanographic and Meteorological Laboratories in Miami, Fla., was elected President of the Florida Academy of Sciences for 1978. Stewart, head of the laboratories since their inception eight years ago, is the author of three books about the sea. He is a fellow of the Geological Society of America and of the International Oceanographic Foundation.

Cecil M. Palmer of Nashville, Tenn., is the new head of the Houston Area Weather Service Office. He replaces E. A. Volbrecht who has accepted a position as head of a newly created office to provide meteorological support to the Corps of Engineers at Vicksburg, Miss.

Palmer is a veteran of more than 30 years of meteorological work which began in the Navy. He earned his Masters Degree in Public Administration at Texas Christian University in 1970 and received a Bachelor of Science Degree at Memphis State University.

Cdr. Glen R. Schaefer, of Palmyra, Wis., has been appointed chief of the Processing Division at the Pacific Marine Center, Seattle, Wash.

An officer in the NOAA Corps, Cdr. Schaefer most recently was executive officer on NOAA's hydrographic ship Rainer based at Seattle. Commissioned in 1965, he has served aboard five NOAA ships, with various geodetic field parties, and as Officer-in-Charge of a high-speed nautical charting survey launch.

Cdr. Schaefer attended the University of Wisconsin, where he received a B.S. in Civil Engineering in 1965, and an M.S. in 1974.

Gary M. Carter is the new Chief, Computer Systems Branch, of Systems Development Office's Techniques Development Laboratory, NWS, at

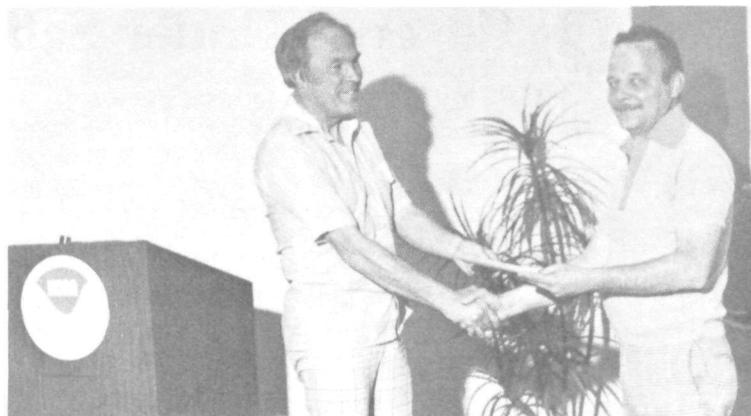


**Gary M. Carter**

Camp Springs, Md. He has been with the Branch since 1972 when he graduated from San Jose State University with an M.S. degree in meteorology. Prior to his new assignment, Carter specialized in developing automated systems for predicting surface winds and cloudiness, sent via facsimile and teletype twice daily to more than 230 stations.

Dr. William Aron, director of NOAA's Office of Ecology and Environmental Conservation, and Dr. Richard Lehman, EE deputy director, were featured lecturers this summer at the 1977 National Youth Science Camp, held at Bartow, W. Va.

The camp, founded in 1963, is sponsored by the State of West Virginia. Each year it hosts the two top, recently graduated, high school science students from each state for three weeks of lectures by prominent speakers. There also are rigorous



**Robert S. Gallagher** (left), mechanical engineering technician with the Facilities Branch of National Ocean Survey's Testing and Evaluation Laboratory, recently received a Special Achievement Award for his work on fabricating a sensor test fixture and modification of a salinometer. The award was presented by T&EL Acting Director, M.E. Ringenbach.

outdoor activities.

Aron spoke to the assembled students on "Environmental Problems and NOAA." Lehman's topic was "Residential Natural Gas Consumption: Evidence that Conservation Efforts to Date Have Failed."

Philip M. Cohen, National Ocean Survey, has been appointed by the Secretary of the Interior to the Advisory Committee on Undersea Features of the U.S. Board on Geographic Names.

Cohen presently is serving as special assistant for Marine Environmental Assessment Programs in NOS's Office of Marine Surveys and Maps.

Previous NOAA members of the Committee have included H. B. Stewart, Jr., director of NOAA's Atlantic Oceanographic and Meteorological Laborato-

ries; Adm. H. D. Nygren, director of the NOAA Corps; and Capt. J. O. Boyer, formerly an international charting adviser for NOS Marine Surveys and Maps.

Dr. Donald T. Acheson is the new Chief, Equipment Design and Development Branch, Equipment Development Laboratory (EDL) of the Systems Development Office, NWS. He previously was a lead analyst for processing GATE rawinsonde data with the Center for Experimental Design and Data Analysis (CEDDA) in EDS. Prior to that, Dr. Acheson was a staff member of EDL and its predecessor organization in the Weather Bureau, the Instrumental Engineering Division. In 1974, he received a Ph.D. in meteorology from the University of Maryland.



**Edwin J. Lowery** (left) is shown being presented his Certificate of Completion for the Yeoman Administrative Trainee Program by R. Adm. R. C. Munson. Lowery, who joined NOAA as an Ordinary Seaman in 1975, was selected under NOAA's Upward Mobility Program. Upon completion of the required study, Lowery was promoted to Yeoman Assistant aboard the NOAA Ship Peirce.

## FROM THE GALLEY



### HADDOCK AND CREAMY HERB VEGETABLES

- |   |   |
|---|---|
| <p>2 pounds haddock or other fish fillets, fresh or frozen</p> <p>2 cups boiling water</p> <p>¼ cup lemon juice</p> <p>1 small onion, sliced</p> <p>2 teaspoons salt</p> <p>2 cups julienne carrot strips, 3-inch long</p> <p>1 cup julienne celery strips, about 3-inch long</p> | <p>2 tablespoons margarine or cooking oil</p> <p>1 package (10 ounce) frozen peas, partially defrosted</p> <p>1 cup green onion cut in 1-inch lengths</p> <p>1 teaspoon flour</p> <p>½ teaspoon fines herbes</p> <p>1 cup half and half (half milk, half cream)</p> |
|---|---|

Thaw frozen fish. Combine water, lemon juice, onion, and 1 teaspoon salt. Add fillets; cover and simmer about 10 minutes or until fish flakes easily when tested with a fork. Place carrot and celery strips and margarine or cooking oil in 10-inch skillet; stir to coat vegetables well. Cover and cook over low heat about 10 minutes or until almost tender. Add peas and green onion; cover and cook just until tender. Sprinkle with flour, remaining 1 teaspoon salt, and herbs; mix. Add half and half; mix carefully and heat until sauce is slightly thickened. Serve with well-drained, hot, poached fish. Makes 6 servings.

## 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 fresh haddock and cod fillets along the Northeast Seaboard; fresh whole croaker and gray sea-trout in the Middle Atlantic States, including the D.C. area; fresh whole mullet and redfish in the Southeast and along the Gulf Coast; frozen ocean perch fillets and smelt in the Midwest; fresh Pacific red snapper fillets and turbot fillets in the Northwest; and fresh butterfish fillets and frozen turbot fillets in the Southwest.

# NOAA Units Praised for Scientist-in-the-Sea Work

NOAA Unit Citations recently were awarded to the eight NOAA offices involved in the first international saturation study of herring and hydro-acoustics—undertaken to demonstrate the concept and practice of complex manned undersea research.

Receiving the awards were

laboratories; the NOAA Corps; and the Office of Ocean Engineering's Manned Undersea Science and Technology Office.

Said NMFS Director Robert W. Schoning: "The overall results of the study represent a major step forward in advancement of the scientist-in-the-sea concept."



Office of Ocean Engineering Director Steven N. Anastasion presents NOAA Unit Citation to MUS&T Director Dr. Donald Beaumariage. (Left to right) Joseph Valduis (now with OOE's Ocean Instrumentation Engineering Office); Anastasion, Dr. Beaumariage; Dr. J. Morgan Wells, and Lt. David Peterson, NOAA Corps. Included in the citation but not shown: Sue Froeschle, now with OCZM, and Elliott A. Finkle.

National Marine Fisheries Service's Northeast Fisheries Center, Woods Hole Laboratory, Narragansett Laboratory, and Northwest & Alaska Fisheries Center; Environmental Research Laboratories' Atlantic Oceanographic & Meteorological Labo-

Employees who are subject to state tax withholdings for the State of Kansas may notice a minor change in their state tax for salary checks dated on or after Sept. 9, 1977.



Attendees of the Operations and Maintenance of Substations Course held at the National Weather Service's Technical Training Center in Kansas City, Mo., Mar. 1-10, 1977, were: Seated, left to right: Vernon Hudson, WSFO Lubbock, Tex.; Mark Takata, PRH Honolulu, Hawaii; Alan Ringo, WSFO Cleveland, Oh.; Ray Shuey, WRH Salt Lake City, Ut.; Doris Randles, SRH Fort Worth, Tex.; Jeanette Dallin, WRH Salt Lake City, Ut.; John Loveless, WSO Goodland, Kans.

Standing, left to right: Ralph Tice, Instructor; Jack Brown, WSMO Nashville, Tenn.; Dee Reese, WRH Salt Lake City, Ut.; Hohn Lambert, WSO Waco, Tex.; Pat Durrett, WSFO Cheyenne, Wyo.; James Schroeder, WSFO Denver, Colo.; John Harrison, WSFO Oklahoma City, Okla.; Leo Behrens, WSO Fargo, N.D.

# **National Oceanic and Atmospheric Administration**

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