

New AFGE Contract Is Negotiated

The Finance Division and AFGE Local 2703 recently completed negotiations on their fourth agreement. This is the first agreement negotiated in NOAA by two women serving as chief negotiators. Chief negotiator for AFGE was Marie Britt of the District 14 office. Dorothy Fortson, President, Local 2703, Thelma Horton, and Aubrey Bladen completed the union team. The Finance Division was represented by Polly Shanker of LMR Branch of Personnel as chief negotiator. Jack L. Holt, Deputy Chief, Finance Division, and Alison Barrett, Operations Branch, Personnel Division, were the members of the management team.

Gold and Silver Medals Awarded

NOAA employees from a wide cross-section of NOAA agencies were winners this year of Department of Commerce Gold and Silver Medals, presented October 26 in a ceremony in Washington, D.C. Seven were Gold Medal winners and 22

won Silver Medals.

Department of Commerce Gold Medals—the highest award given by the Department—are for contributions of major significance to the Department, the Nation, or the world. Department of Commerce Silver

Medals—Commerce's second highest award—are given for contributions of unusual value, including unusual courage or competence in an emergency.

(Pictures and stories on Gold and Silver Medal winners on pages 4 and 5.)

New Remote Sensor for Sea Currents Developed by ERL

ERL's Wave Propagation Laboratory in Boulder, Colo., in a research effort headed by Dr. Donald Barrick, recently developed a radar capable of sensing sea currents up to 50 miles, enabling production of current-movement computer maps over 750 square miles every half hour.

The current-sensing radar may become a major tool for monitoring sea pollutants and setting environmental baselines

where petroleum and other exploration are planned. It could provide an effective alternative to surface drifters, drogues, and other ocean current determination methods now in use.

The ocean remote sensing effort by Barrick and his co-workers was conducted from southern Florida's east coast with the aid of Nova University, and was reported in a recent issue of *Science* magazine.

Subsequent tests this summer in Alaska's Cook Inlet, noted for its large tidal currents, and the proposed site of offshore petroleum development, largely confirmed the Florida results.

According to Barrick, the Alaska results showed that "...we can produce a single current-vector map covering thousands of square kilometers after only 15 minutes of operation; we can gather at least a thousand times more data in a given twelve-hour period than any alternative technique; and our system error is at worst half a knot of current velocity, and probably much better."

The experimental system is a pair of transportable, high-frequency pulsed radars, each controlled by a minicomputer. Echoes from the sea surface at points about two miles (three kilometers) apart on an imaginary grid are received by two sets of antennae.

(Continued on p. 2)

NOAA Plans Management Of Bowheads

Formulation of an expanded NOAA research program on bowhead whales, and initiation of the development of a management and conservation regime of the bowhead whale stock were announced this week by Richard A. Frank.

These actions are in response to a decision last week by the State Department that the U.S. Government had decided not to present an objection at this time to the June action of the International Whaling Commission (IWC) removing the Alaskan Eskimo exemption for subsistence hunting for bowhead whales.

In addition, the Department of State stated that at a special meeting of the IWC in December the United States would work for Commission approval of a subsistence hunt by the Eskimos.

The major objective now is rapid development of a sound management and conservation regime in cooperation with the Eskimo communities involved in hunting for bowheads. Mr. Frank voiced deep concern for the welfare and culture of the Eskimos and pledged that he would personally work for IWC approval of a reasonable subsistence hunt. He added that the

(Continued on p. 2)



Signing the newest AFGE contract: (left to right) T. P. Gleiter, Assistant Administrator for Administration; Dorothy Fortson, President, AFGE Local 2703; Donald MacIntyre, National Vice President, AFGE District 14. (Standing) Ralph C. Reeder, Chief, NOAA Personnel Division, and Ben L. Brown, Finance Division Chief.

Librarians Meet to Discuss Ocean Information Services

EDS, in collaboration with OCZM, was host agency for the third annual conference of East Coast Marine Science Librarians held Sept. 15-16. The theme of the conference was "Ocean Issues—the Decade Ahead: Impact on Information Services." Attendees included information specialists and librarians from governmental, academic, and other scientific institutions along the East/Gulf Coasts of the United States and Canada.

The first morning covered current ocean policy, and highlighted probable trends and future issues in the marine field. Associate Administrator for Coastal Zone Management Robert W. Knecht, gave the keynote address. Featured speakers were R. Adm. Edward Snyder, Jr., Oceanographer of the Navy; Dr. Frederick Monroe, Department of State; Robert Niblock, Office of Technology Assessment; and James Curlin of Commerce's Committee on Ocean Policy.

The first afternoon session was devoted to discussion of information products and services available from NOAA. From EDS, Elizabeth J. Yeates and James Churgin described ser-

vices available from the Library and Information Services Division, Environmental Science Information Center, and the Data Services Division, National Oceanographic Data Center. Dr. Dale Sortland, Office of Information Systems, National Marine Fisheries Service, and Charles Ellis, Physical Science Services Branch, National Ocean Survey, reported on information resources within NMFS and NOS.

Workshops on information resources and services in the discipline of marine science were held the second day. A demonstration of on-line information retrieval was given by EDS employees, Ida Lewis and Robert N. Ting of the Library and Information Services Division's Georgetown and Miami/Coral Gables Center respectively. Lawrence Berry of EDS' Satellite Data Service Branch gave a workshop on satellite pictures and data.

Frances Swim, Library and Information Services Division, Environmental Science Information Center, was the Conference Coordinator. Michele Tetley, Office of Coastal Zone Management, was Program Chairperson.

Ocean Color is Timely Clue

Two oceanographic research vessels and four aircraft are scanning the Gulf of Mexico this month to confirm that determining water color with satellite-borne instruments is a realistic way to measure sediment, temperature, and other properties of the ocean.

Dr. Warren A. Hovis, Director of the NESS Satellite Experiment Laboratory, said the effort is preliminary to the launch next year of the NIMBUS-G satellite.

Among instruments that spacecraft will carry will be a coastal zone color scanner which, it is expected, will give scientists a far-superior method of determining ocean properties.

A joint NOAA-NASA study, the Gulf project is using the

NOAA Ship Researcher, the Texas A & M University research vessel Gyre, and four NASA aircraft, including a U-2 high altitude jet.

Both the U-2 and a NASA Lear jet are equipped with laboratory models of the coastal zone color scanner. As they overfly a section of the Gulf recording measurements, the two research ships beneath take actual water samples for analysis, thus providing surface truth measurements.

Dr. Hovis, who developed the scanner several years ago while employed at NASA, said results of the Gulf program will let formulas be tested for use in deriving ocean information from the scanner once it is in orbit aboard NIMBUS-G.

Current Radar (From p. 1)

The antenna frames are emplaced on the beach near the waterline, where wet sand grounds them, and helps push their signals out beyond the horizon over the ocean's electrically conductive surface. Conventional over-the-horizon radar requires a signal-relaying bounce off the ionosphere to move the pulses out beyond a line of sight.

The radar-controlling mini-computer processes the signals and current data while the system is operating, and draws a map of the surface current velocity at each grid point, clearly showing the speed and direction of surface currents over the area scanned.

NOAA's new radar system deduces ocean current velocity by sensing the scattering of radar echoes by ocean waves. The underlying principle of the system was first demonstrated experimentally by Dr. Douglass Crombie, now director of the

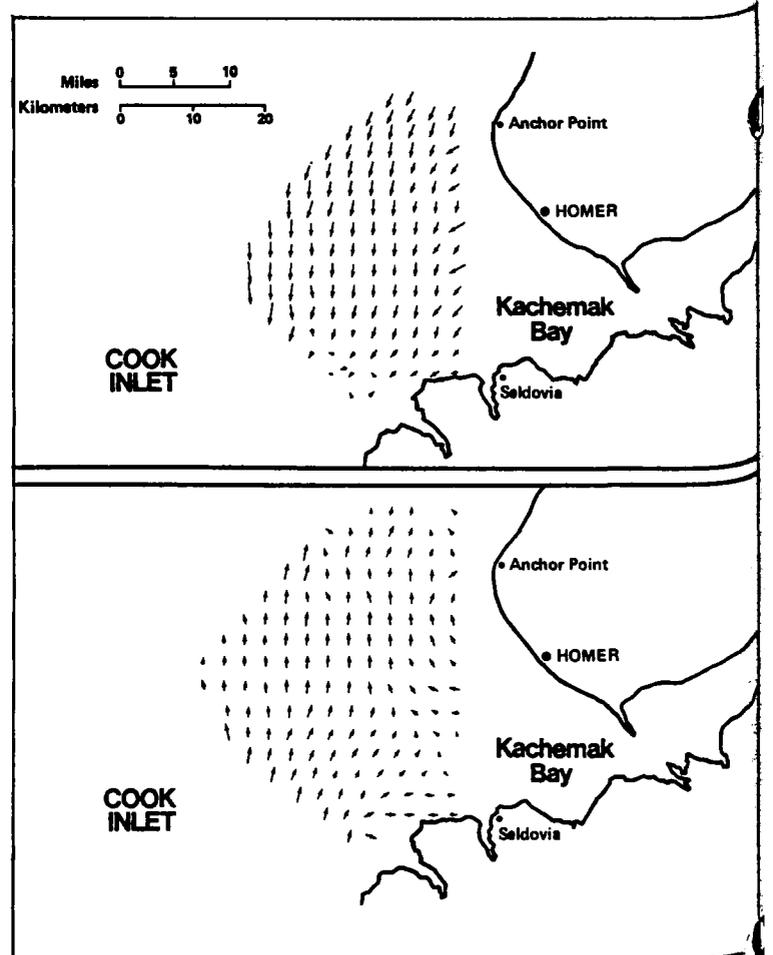
Commerce Department's Institute for Telecommunications Science in Boulder. Nearly a decade later, in the mid-1960's, the observed phenomenon was confirmed theoretically by Barrick, in what is considered a breakthrough in wave propagation theory.

Bowhead (From p. 1)

development of an adequate management and conservation regime would require the cooperation and efforts of other interested and affected parties—the Eskimos, the environmental community, and state governments.

Development of that regime will be essential, he said, if the U.S. is to be successful at the December IWC meeting.

NOAA already has initiated contacts with the Alaska Eskimo Whaling Commission to begin discussions on the elements to be included in a management regime.



A novel radar system developed by scientists with the National Oceanic and Atmospheric Administration produced these maps of water movements in Alaska's Cook Inlet at two different times on July 1.

Marine Fisheries Advisory Council

Eleven New Members Named

Commerce Secretary Juanita M. Kreps has announced 11 appointments to the Marine Fisheries Advisory Committee.

Members of the Committee are chosen for recognized competence and proven interest in the marine fishery resources of the United States and are appointed by the Secretary for a term of three years. Approximately one-third of the Committee members are also selected to achieve both balanced geographical representation as well as a broad view of the U.S. commercial fishing industry, marine recreational fishing, the academic community, conservation interests, State governments and the consumer.

The new members are:

Henry J. Cofer, Jr., President, Rich-Sea Pak Corporation, St. Simons Island, Ga.; Dr. Charles H. W. Foster, Dean, School of Forestry and Environmental Studies, Yale University, New Haven Conn.; William C. Lunsford, Jr., Assistant Secretary, Zapata Haynie Corp., Towson, Md.; Fred Maly, Outdoor Editor, San Antonio Light, San Antonio, Tex.; Edward P. Manary, Manager, Washington State Commercial Passenger Fishing Vessel Association, Olympia, Wash.

NOAA NEWS

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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

Also, Dr. Stephen B. Mathews, Associate Professor, College of Fisheries, University of Washington, Seattle, Wash.; Ann McDuffie, Food Editor, the Tampa Tribune, Tampa, Fla.; Kathryn E. Poland, State Senator, Juneau, Alaska; Dr. Haakon Ragde, Seattle, Wash., a practicing physician; Dr. Dorothy F. Soule, Director, Harbors Environmental Project, Allan Hancock Foundation, University of Southern California, Los Angeles, Calif.; Christopher M. Weld, Sullivan & Worcester, attorneys, Boston, Mass.

NGSDC Now Has Earthquake "Globe" Ready

The EDS National Geophysical and Solar-Terrestrial Data Center, in Boulder, Colo., has prepared an icosahedron (20-sided) "globe" showing the distribution of earthquake epicenters of magnitude 4.5 and greater for the years 1963-74.

This four-color representation of the Earth is printed on heavy paper and can be folded to construct a useful desk device or ceiling hanging.

It has been received favorably by individual scientists and the national meetings of the Seismological Society of America and the American Geophysical Union.

Cartographers have used polyhedrons to represent the globe for hundreds of years. In the 1940's Irving Fischer designed a 20-sided globe made of equilateral triangles, and exhibited it at the Metropolitan Museum of Art in New York. In the particular projection he used, all great circles are straight lines on the facets. John Ward, a computer specialist at NGSDC programmed Fischer's construction, including also the code to plot geophysical data.

For further information on the icosahedron globe, contact: Solid Earth Data Services Division, National Geophysical and Solar-Terrestrial Data Center, Boulder, Colo. 80302. Telephone: 323-6591.

Allbritton New Commander Of NOS's Miller Freeman

Cdr. Richard H. Allbritton, of Charleston, S.C., is the new commanding officer of the NOAA Ship Miller Freeman.

The 214-foot, 1782-ton Commerce Department research

Tallahassee, Fla.

Allbritton's sea duty has included service aboard the NOAA ships Explorer, Surveyor, Pathfinder, and as Operations Officer and Executive Officer of the Discoverer. His most recent assignment was Project Director for the Environmental Research Laboratories/ National Weather Service Joint Storm Surge Research Project in Miami, Fla.



Cdr. Richard H. Allbritton vessel, based in Seattle, Wash., is one of the largest stern trawlers in the United States. Currently, the vessel is conducting a major field research effort in the outer continental shelf areas off Alaska to define the probable ecological impact of oil exploration, production, storage, and shipment. She carries a normal complement of 40 officers and crew with quarters for 11 scientists and technicians.

Allbritton joined the U.S. Coast and Geodetic Survey in 1962 following graduation from the University of South Carolina with a degree in civil engineering. In 1970, he received an M.S. degree in meteorology from Florida State University,

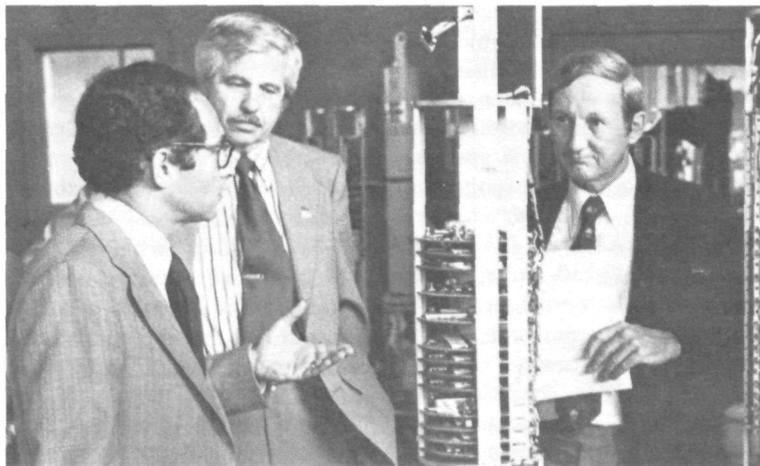
Coastal Zone Grant Given To Guam

The Guam Bureau of Planning has received two grants totaling \$226,600 from the Office of Coastal Zone Management, to help the U.S. Pacific island territory develop a coastal zone management program.

Guam will provide more than \$56,000 in matching funds for the program.

The majority of the funds will be used to continue the territory's third year of Federally supported work aimed at designing a program to manage its 110 miles of coastline.

The remainder of the Federal grant will be used to study the social, economic, and environmental effects from any new or expanded energy facilities in the territory.



Richard A. Frank, NOAA Administrator, discusses the calibration and functioning of scientific equipment with Dr. John Apel, director of the Pacific Marine Environmental Laboratory, during Frank's recent visit to NOAA facilities in Seattle, Washington. Dale C. Gough, director of the Northwest Administrative Service Office is in the center.

Department of Commerce



Dr. Daniel L. Albritton

This year's Gold Medal winners from NOAA are:

Dr. Daniel L. Albritton, physicist with ERL's Aeronomy Laboratory in Boulder, Colo., for his pioneering contribution to theoretical techniques and unique measurements of ion-molecule reaction rates in the ionosphere, 50 to 650 miles above the earth's surface. His work led to the first successful analysis of a quartet molecular band system and an experimental capability for measuring ion-molecule reaction rate constants over the ionospheric temperature range, the only such technique presently available.

Born in Selma, Ala., Albritton joined Environmental Research Laboratories in 1967 after completing his Ph.D. in physics at Georgia Institute of Technology. He previously had received a B.S. degree in electrical engineering and an M.S. degree in physics from the same institution.

Byron B. Phillips, chief of ERL's Instrumentation Task Force, Weather Modification Program Office, Boulder, Colo., for his work in advancing the technology needed for studying atmospheric and oceanographic phenomena. Through his efforts, NOAA's two P-3 Orions and one C-130—large, long-range aircraft—were equipped to study hurricanes and severe convective storms, enabling ERL's Research Facilities Center in Miami, Fla., to have the most advanced atmospheric research aircraft capability in the world.

Phillips, a native of Kansas, joined the National Weather Service in 1949 as an observatory briefer. In 1967, he was



Dr. Robert L. Edwards

appointed assistant director of ERL's Atmospheric Physics and Chemistry Laboratory. He holds a B.S. degree in mathematics and an M.S. degree in physics from Kansas State University. Later, he did graduate work in physics and meteorology.

Dr. Robert L. Edwards, National Marine Fisheries Service Director of the Northeast Fisheries Center, Woods Hole, Mass., for his part in a successful management/scientific team that contributed to the shaping of national and international policies and programs in fisheries research and management. Together with Richard C. Hennemuth, also a Gold Medal winner, he was responsible for promoting an understanding of the marine ecosystems, including joint, cooperative research with foreign countries.

A native of Philadelphia, Pa., Dr. Edwards earned his A.B. degree at Colgate University in 1947 and his master's degree and Ph.D. at Harvard University, by 1951. He entered Federal service in 1954.

Richard C. Hennemuth, National Marine Fisheries Service Director of the Woods Hole Laboratory, Northeast Fisheries Center, Woods Hole, Mass., was honored along with Dr. Edwards for work in marine ecosystems. The citation calls the research "...the finest examples of joint and useful studies in the world."

Born in Grand Forks, N.D., Hennemuth earned his B.S. in 1952 at Gustavus Adolphus College, St. Peter, Minn., and his M.S. in 1954 at State University of Iowa, Ames, Iowa. He has done graduate work at Harvard University, at the Uni-

versity of California-LaJolla, and at San Diego State College. He entered the Federal service in 1960.

Dr. John B. Hovermale, chief of the Atmospheric Modeling Branch of NWS's National Meteorological Center, Camp Springs, Md., for spearheading development of a numerical (computer) model of hurricanes, making earlier protective response possible when U.S. coastlines are threatened by the massive storms.

A native of West Virginia, Hovermale was born in Martinsburg. He attended Pennsylvania State University, University Park, Pa., where he received his B.S., M.S., and Ph.D. He entered Federal service in 1959, then from 1967 to 1973 was a Professor in the Department of Meteorology at Penn State. He joined NOAA in 1973.

Richard L. McNeely, supervisory research electronic engineer at NMFS's Northwest and Alaska Fisheries Center, Seattle, Wash., for leadership and contributions to fishing gear technology, sampling system development, and conservation engineering. One of his contributions is conservation of porpoises by introduction of new technology into the U.S. tropical tuna fishery.

A native of Huntington, W. Va., McNeely attended the University of Miami, Fla., and the University of Tennessee, Knoxville, Tenn. He entered Federal service in 1955.

Jack H. Puerner, chief of National Environmental Satellite Service's Special Projects Group, Camp Springs, Md., for his leadership in the creation of a system for collecting and re-

Richard C. Hennemuth

laying environmental data via satellite. Puerner is credited with the concept of using the GOES satellite to collect information sensed in remote areas by buoys, ships, river gauges, aircraft and other observing platforms and to relay the data to ground stations, a system which not only collects measurements but also gives early warning of conditions leading to natural disasters such as severe storms or flash floods.

Born in Washington, D.C., Puerner was educated at the University of Virginia, receiving his Bachelor's in Electrical Engineering in 1960. All of his 27 years' Federal service has been with the Department of Commerce: six years with the National Bureau of Standards; the rest, beginning with the Weather Bureau, in NOAA.

Silver Medals were awarded to the following:

Ellis B. Burton, Meteorologist-in-Charge of WSFO Denver, Colo., for his work as head of the Bismarck, N.D., WSFO from 1973 to mid-1977. During that time, he led the effort that provided the citizens of North Dakota with lifesaving warnings, in the major flooding of the Souris River in 1975 and again in 1976, as well as during other major weather events.

Robert K. DeLawder, manager of NOS's Chart Planning and Technology Group, Rockville, Md., for his work in planning the production of the first national metric nautical chart, the first five international nautical charts and the depiction of the U.S. territorial sea, contiguous zones and Fishery Conservation Zone limits on NOS charts.

and Silver Medal Winners



Dr. John B. Hovermale

Roland A. Finch, of NOAA's Office of Living Resources in Rockville, Md., for his work in the creation of a national plan to rehabilitate the domestic fishing industry, meeting with leaders, developing goals, and preparing an "outline draft" which ultimately appeared as the National Plan for Fisheries in the U.S.

Frank V. Garcia, chief of NOS's Radio Facility Chart Branch, Rockville, Md., for his managerial abilities in the production and maintenance of aeronautical charts, and also for his many community-oriented activities which have brought credit to NOAA and the Department of Commerce.

Richard Haas, a computer expert at NWS's National Meteorological Center, Camp Springs, Md., for his work in designing key computer components which convert facsimile signals to computer data and vice versa

Dr. Harry F. Hawkins, Jr., a meteorologist with ERL's National Hurricane and Experimental Meteorology Laboratory, Coral Gables, Fla., for his leadership in research on natural and experimentally modified hurricanes.

Stacey D. Hicks, physical oceanographer with NOS's Office of Marine Maps and Surveys, Rockville, Md., for his research on long period sea level fluctuations on a national scale and regional tidal characteristics, which included tidal datum problems in the Gulf of Mexico.

David W. Holmes and Robert W. Miller, of National Weather Service Headquarters, Silver Spring, Md., for their management of NWS's Local Warning



Richard L. McNeely

Radar Program, planning, analyzing, preparing design specifications, and establishing a plan for the procurement and installation of 61 new radars—the first to meet new stringent radiation requirements set by the Office of Telecommunications Policy.

Jean T. Lee, ERL's National Severe Storms Laboratory, Norman, Okla., for life-saving contributions to an essential part of the literature on flight safety—his papers, extending over a 26-year period, are considered a cornerstone of established criteria on how to fly safely around thunderstorms. Lee received a Commerce Silver Medal in 1966.

Barbara McLaughlin, chief of NOAA's Procurement, Grant and Loan Branch, Rockville, Md., for the management of a multimillion dollar program she has guided since 1973, when the function was transferred from Department of Commerce to NOAA. The volume of grants has more than quadrupled since that time and is expected to exceed \$200 million in 1978.

Maxwell M. Rogers, chief of NOS's Nautical Chart Branch, Rockville, Md., for his administration and advancement of the nautical chart compiling program, during the period the program was in the process of being converted from a manual operation to an automated system. Rogers has numerous awards for his preparation of plans and specifications for new charts and their reconstruction.

Robert B. Rollins, NOS's Associate Director of Program Development and Management, Rockville, Md., for his leadership in ensuring the moderniza-



Byron B. Phillips

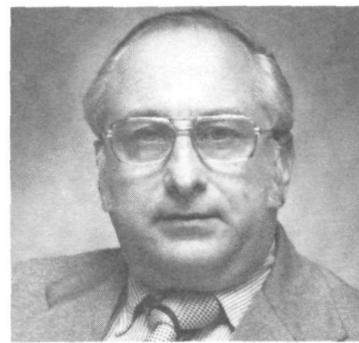
tion of aeronautical charts, navigational charts, geodetic network operations, and tidal observations and predictions.

Howard S. Sears, a fishery research biologist of the NMFS's Northwest and Alaska Fisheries Center Auke Bay Fisheries Laboratory, Auke Bay, Alaska, for aerial surveys of the biological and geological features of the Alaskan coast between the Bering Strait and Yakutat, a vital phase of the NOAA Outer Continental Shelf Energy Research Program in Alaska.

Dale Sirmans, a scientist with ERL's National Severe Storms Laboratory, Norman, Okla., for his work as the principal architect of the NSSL's Doppler radar facility, designing and developing a dual Doppler radar system—a major tool for determining the birth and growth of severe local storms and tornadoes which promises more timely and accurate storm warnings to the public.

Thomas J. Sokolowski, a geophysicist at NWS's Pacific Tsunami Warning Center, for his work in speeding warnings of the dangerous seismic sea waves to the public. He designed and developed a specialized and extensive automation system that reduces preparation of tsunami warnings from one hour to only 15 minutes.

Kendall L. Svendsen, EDS's National Geophysical and Solar Terrestrial Data Center, Boulder, Colo., for his work as a major unifying force in the worldwide programs for survey and observatory measurements of the earth's geomagnetic field, making available a large and high-quality data bank, and



Jack H. Puermer

arranging for training and equipment for scientists in developing countries.

Raymond R. Waldman, Meteorologist-in-Charge of NWS's Chicago Weather Service Forecast Office, Chicago, Ill., for his work in setting up effective forecast operations at both Milwaukee and Chicago, developing a disaster preparedness program in Illinois, and for his sensitivity to employee needs resulting in high morale and increased productivity.

Harold M. Woolf, NESS's Meteorological Satellite Laboratory, Camp Springs, Md., for pioneering work in the development of computer programming to derive temperature data from sensing equipment on board earth-orbiting environmental satellites, designing and implementing a complex system for processing remote temperature soundings to be used by numerical predictions groups preparing for experimental weather predictions on a global scale during the next five years.

Three Weather Service meteorologists—Ronald E. Drummond, WSO Beckley, W. Va., Russell L. Durham, WSFO Louisville, Ky., and Philip C. Zinn, WSFO Charleston, W. Va.—for their life-saving work during the Appalachian flood of April 4 and 5. Through the nearly continuous flow of bulletins, statements and hourly advisories from early on April 4 through April 5, under the direction of Drummond, Durham, and Zinn, the public in the threatened counties and communities had time to take protective action, evacuate the threatened areas, and save lives and property.

NOAA Employees Receive Suggestion Awards, Apr. 1-June 30

Name	Amount	Suggestion
Welsh, Armond F. and Daughterty, Eugene L. Verdone, Patrick H.	\$ 25.00 \$ 25.00 \$ 70.00	Report on Work Performed by the Imagery Processing Laboratory Protective Shield for Computer Board Pins
Kemp, Sharon Amacher, LaRue F.	\$125.00 \$110.00	Subscriber Number Card Time Save (Man Hours) No Realignment
Mackey, Shirley B.	\$100.00	Quick Reference of Building Addresses in the Washington Area
Mudd, Lawrence K. Mudd, Lawrence K.	\$ 50.00 \$100.00	Employee Locator Modification Revision of Employees Withholding Allowance Certificate Request
Nicholson, Margaret M. Harlan, Kenneth T.	\$ 25.00 \$ 50.00	No Solicitation Rotating Sequential Satellite Display System
Post, M.J.	\$ 50.00	Reuse the Backside of Computer Printouts Before Recycling
Lillie, David	\$ 50.00	Turn Off and Turn Down Hallway Heaters to Conserve Energy
Nelson, George R.	\$ 50.00	Power Supply Adjustment on Log Receivers
Frederick, Donn M. Wertman, Joel R.	\$ 65.00 \$ 25.00	Reduction in Size of WS-F-11 Conversion Table-Nautical/ Kilometers to Statute Miles
Kunkel, Charles J. Fremlin, William A. Martin, William P.	\$ 25.00 \$ 50.00 \$100.00	Deicer Top Heater Indicator Lamp Station Maintenance Manual Files Combined Mailing-Radar and Surface Observations Forms
Henry, Donald E.	\$ 50.00	Local Climate Program for Upper Air Minicomputer
Sawyer, Linda M.	\$ 75.00	Cost/Time Saving Mailing Procedure
Burke, Everett J. Clipper, George	\$ 30.00 \$ 50.00	Soldering Clamp Adapter for Viewing Reels of 35mm Film
Winslow, Rodney C. and Glovinsky, Monte	\$ 50.00 \$ 50.00	Gridding ½ Mile Resolution Satellite Picture and Corre- sponding Map Bases
Meyer, Richard H.	\$ 50.00	Advertising of Price-Supplemental Tide Tables
Schaeffer, LoHama W.	\$125.00	Revised Method for Mailing Cruise Results
Gill, Floyd M. West, Ray S. Jennings, Thomas R.	\$ 25.00 \$ 50.00 \$100.00	Foot Exposure Switch for OP-59 Telephone Cost Savings Designating Marine Wind Observations

NOAA Personnel Division Lists Current Vacancies

Announce- ment No.	Position Title	Grade	MLC	Location	Issue Date	Closing Date
37-78	Clerk (Typing)	GS-05	NWS	Silver Spring, Md.	10-19-77	11-3-77
39-78	Meteorologist	GS-11	NWS	Silver Spring, Md.	10-19-77	11-3-77
40-78	Program Analyst	GS-12	NWS	Silver Spring, Md.	10-19-77	11-3-77
41-78	Operations Research Analyst	GS-9	NWS	Silver Spring, Md.	10-19-77	11-3-77
42-78	Hydrologist	GS-9	NWS	Silver Spring, Md.	10-19-77	11-3-77
859-77	Hydrologic Technician (Reissue)	GS-8	NWS	Silver Spring, Md.	10-12-77	11-3-77
43-78	Meteorologist (Intern)	GS-5&7	NWS	Fort Worth, Texas	10-25-77	11-8-77
44-78	Meteorologist (Forecaster/Focal Point Agriculture)	GS-12	NWS	Salt Lake City, Utah	10-25-77	11-8-77
45-78	Electronics Engineer	GS-12	NMFS	Pascagoula, Miss.	10-25-77	11-8-77
46-73	Fishery Biologist	GS-13	NMFS	Washington, D.C.	10-25-77	11-8-77

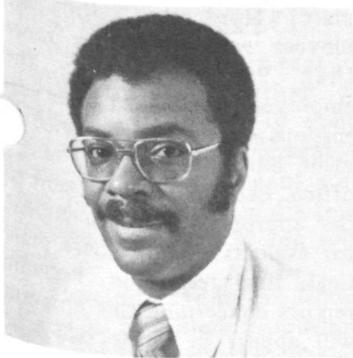
NOTES ABOUT PEOPLE

Ms. Hillary M. Davis has been appointed chief of the Program Planning Unit, Plans and Resources Staff, National Geodetic Survey, Rockville, Md.

Before she joined the NGS staff in August, Ms. Davis was Budget and Planning Officer for the U.S. Customs Service for two years. From 1975-1977, she was a management analyst with the Facilities Management Division, Internal Revenue Service. She was a National Office Administrative Intern (IRS) from 1973-1974, and an IRS tax auditor, 1971-1973.

Ms. Davis received a B.A. degree in Liberal Arts (1969), and a B.S. degree in Accounting (1977) from the University of Maryland.

David W. Bishop is the new Official-in-Charge at the WSO New York (J.F. Kennedy Airport). He began his Weather Service career in 1967, at the



David W. Bishop

WSFO in New York City, after a 30-month tour of duty with the Air Force as a civilian employee at Manchester, N.H. Bishop currently is serving as Chairperson of the Eastern Region EEO Committee.

Dr. Donald C. Malins, director of NMFS's Northwest and Alaska Fisheries Center Environmental Conservation Division, is the editor of two volumes, *Effects of Petroleum on Arctic and Subarctic Marine Environments and Organisms*, published by Academic Press, New York, in August. The articles included are mostly by specialists from Environmental Conservation Division, but some are contributions from outside researchers.

Volume I deals with the nature and fate of petroleum in

the marine environment. Volume II covers biological effects—alterations in life processes and in community structures. The books are intended for research workers, environmentalists, petroleum industry managers and executives, and public officials concerned with the many aspects of petroleum pollution of marine waters.

Preparation of the books was encouraged and partially supported by the ERL's Outer Continental Shelf Environmental Assessment Program (OSCEAP), with funding furnished by the Bureau of Land Management, U.S. Department of the Interior.

Edward Yandrich, Jr., is the new Meteorologist-in-Charge at the WSO Trenton (N.J.). A native of New York, he received his B.S. degree from City



Edward Yandrich, Jr.

College of New York, and his Master's from New York University. He came to work for Weather Service in 1970 at WSO LaGuardia, and also worked at WSO J.F. Kennedy and WSFO New York, as observer briefer, radar meteorologist and met intern.

OBITUARY

C. Doyle Innis

C. Doyle Innis, retired in 1973 as Executive Officer of the National Marine Fisheries Service, died of cancer September 14 at Georgetown University Hospital. He is survived by his wife, Dorothy; a son, Dr. Michael A. Innis of Nutley, N.J.; two daughters, Elizabeth Garber of Madison, Va., and Susan Collins of Bluemont, Va.; a sister, Virginia Woods of Kansas City, Mo.; and three grandchildren.



The NOAA Unit Citation awarded to Pacific Marine Center's Processing Division was received on behalf of the Division by Division Chief Cdr. Donald E. Nortrup. Left to right: PMC Director R. Adm. Eugene A. Taylor, Verification Branch Chief James Green, EDP Branch Chief Lt. Cdr. Dean R. Seidel, Lt. Cdr. Nortrup, and Larry Mordock, general engineer.

Seattle Directory Ready For Public Distribution

NOAA Products and Services, a 38-page pamphlet prepared jointly by personnel of EDS' Environmental Science Information Center (ESIC) and NOAA's Marine Ecosystems Analysis Program Office, was recently issued for public distribution in the Seattle area. The pamphlet lists NOAA marine and atmospheric products and services available in the Puget Sound region.

The publication is divided into five sections, which correspond roughly to the NOAA components offering the services. After each entry, there are access numbers which represent the principal source for the product or service, and a local

source where the product (or related information) can be obtained, including current price. These numbers are keyed to an appendix where complete mailing and telephone information is listed.

Primary distribution of the publication will be made from the MESA office in Seattle. Requests should be directed to MESA Puget Sound Project, ERL/NOAA, 7600 Sand Point Way, N.E., Seattle, Wash. 98115. Telephone: 206-442-5590; FTS 399-5590. A limited number of copies are available from ESIC, User Services Branch (D822), WSC 4, Rockville, Md. 20852. Telephone: 301-443-8330; FTS 443-8330.



A flash flood workshop was held in Boulder, Sept. 26-30, at ERL. About 45 representatives attended from various NOAA units—NWS (including Headquarters, Regions, WSFO's WSO's, River Forecast Centers and National Meteorological Center); NESS; Environmental Monitoring; National Severe Storms Laboratory and other ERL offices.



Oyster-Mushroom Stew

- | | |
|---|--------------------------------|
| 2 cans (12 each) oysters,
fresh or frozen | ¼ cup butter or margarine |
| 1 can (10 ½ ounces) cream
of mushroom soup | ½ teaspoon salt |
| 2 cups oyster liquor and
milk | 1 tablespoon sherry
Paprika |

Thaw oysters if frozen. Drain oysters and reserve liquor. Combine all ingredients except oysters and sherry in a 3-quart saucepan. Heat, stirring occasionally. Add oysters. Heat 3 to 5 minutes longer or until edges of oysters begin to curl. Add sherry. Sprinkle with paprika. 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 pollock fillets and canned Maine sardines along the Northeast Seaboard; fresh whole croaker and bluefish in the Middle Atlantic States, including the D.C. area; fresh rock shrimp and fresh whole mullet in the Southeast and along the Gulf Coast; frozen pan ready whiting and ocean perch fillets in the Midwest; fresh oysters and fresh Pacific red snapper fillets in the Northwest; and frozen butterfish fillets and fresh Pacific red snapper in the Southwest.

FALL BACK

Daylight Saving Time officially ends the last Sunday in October, according to the U.S. Naval Observatory Almanac Office. That's when you get back the hour you lost last Spring.

The Only Time to Change Plans

“Open Season” Starts Nov. 14

The U.S. Civil Service Commission has announced that the 1977 Health Benefits “Open Season” will be held November 14 through December 9.

During “Open Season,” all employees will receive the following 1978 brochures:

- Service Benefit Plan (BC/BS) - BR1 41-25
- Indemnity Benefit Plan (AETNA) - BR1 41-24
- Open Season Instructions - BR1 44-117
- Biweekly Health Benefits Rates - BR1 41-212

Every eligible employee in an area serviced by a group or individual practice plan will receive a brochure for each plan in that area.

Servicing Personnel Offices will have on hand sufficient copies of Employee Organization plans to meet requests. These will not be distributed individually but will be available to employees. The Employee Organization plans which are open to certain employees of all Federal agencies are:

- AFGE Health Benefit Plan
- Alliance Plan
- American Postal Workers Union Plan
- Government Employees Hospital Assn. Plan
- Mail Handlers Benefit Plan
- NALC Plan

—Postmasters Benefit Plan
During the “Open Season” employees and annuitants already enrolled may change plans, options or type of enrollment. Employees not enrolled may enroll; however nonenrolled annuitants may not.

All changes to enrollments made in the “Open Season” will be effective the first day of the first pay period in January 1978 (Jan. 1, 1978).

“Humanizing Work Place” Under Study

Shortly after coming to NOAA as Administrator, Richard Frank requested NOAA employees to submit suggestions for humanizing the work place. More than 400 employees responded with more than 900 suggestions. The employees who signed their suggestions were sent acknowledgment letters from Mr. Frank's office. Each idea will be sent to the appropriate unit in NOAA for evaluation and, where practical, final resolution. Periodic reports concerning this program will appear in future issues of NOAA News.



Presentation of NWS John Campanius Holm Awards to two South Carolina Cooperative Observers on Sept. 16, was highlighted when South Carolina Governor James B. Edwards attended the ceremony. Participating in the ceremony were: (Left to Right) Cooperative Observer Ollie L. Moore, Darlington, S. C.; Governor Edwards; Cooperative Observer Luther H. Rickenbacker Jr., Orangeburg, S.C.; William I. Pogerman, NWSH Substation Program Manager; and John C. Purvis, MIC, Columbia, S.C.

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National Oceanic and Atmospheric Administration

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Beltsville, MD 20704-1387
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