

noaa week

National Climatic Center

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NOAA To Aid Joint US-USSR Space Project

Five NOAA scientists have been selected as advisors for the Apollo-Soyuz Test Project (ASTP), the first Soviet-American space rendezvous planned for mid-1975.

Selected by Dr. Farouk El-Baz of the Smithsonian Institution's National Air and Space Museum, who is Principal Investigator of Earth Observations and Photography experiment on ASTP, were (from the Environmental Research Laboratories' Atlantic Oceanographic and Meteorological Laboratories in Miami, Fla.) Dr. John R. Apel, Director of the Ocean Remote Sensing Laboratory; Dr. Robert S. Dietz, a Marine Geologist in the Marine Geology and Geophysics Laboratory; and George A. Maul, an Oceanographer in the Physical Oceanography Laboratory; (from the National Weather Service) Kenneth M. Nagler, Chief of the Space Operations Support Division at NWS Headquarters in Silver Spring, Md.; and (from the National Environmental Satellite Service) John W. Sherman, III, Project Manager of the Spacecraft Oceanography Project in NES's Office of Research.

Dr. Apel, a research physicist, has been selected as an investigator in oceans and atmosphere on the project and will be advising the Astronauts on techniques for color photographing the oceans' internal waves—a phenomenon he detected while analyzing images from NASA's multispectral

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Smog Blocks 35 Percent of Sunshine In Some Areas NOAA Scientists Find



L.A. smog... dirty air cuts urban sunshine by as much as 35 percent. (EPA-DOCUMERICA, Gene Daniels)

NOAA Holds Line On Funds For Alaska Salmon Fishery

Until further notice, NOAA will not provide financial assistance that would significantly increase the harvesting capacity of vessels in the Alaska salmon fishery.

NOAA has declared the Alaskan salmon fishery a "conditional fishery," which is defined in Commerce Department regulations as a fishery where there are already more than enough vessels to harvest the available catch.

Robert W. Schoning, Director of the National Marine Fisheries Service, which administers the financial assistance programs, said, and representatives of the Alaska State Department of Fish and Game and the Alaska Limited Entry Commission agree, that the present harvesting capacity was already so great that the use of NMFS financial assistance programs would be inconsistent with the wise use, management conservation, and protection of the fishery.

The restriction on financial assistance is automatic upon such a declaration. The restrictions differ for each financial assistance program and are defined in the Com-

merce Department regulations covering the individual program. The two financial assistance programs affected are:

—the Fishing Vessel Obligation Guarantee Program, which provides a Federal guarantee for obligations, financing, or refinancing (for up to 15 years) 75 percent of the cost of constructing, reconstructing, or reconditioning U.S. commercial fishing vessels of at least five net tons; and

—the Fishing Vessel Capital Construction Fund Program, under which Federal income taxes on fishing vessel income may be deferred in connection with constructing, reconstructing, or under certain conditions, acquiring U.S. commercial fishing vessels of at least five net tons.

The programs will still be available to vessel owners already operating in the conditional fishery for approved purposes other than adding vessel capacity.

The official announcement of the new policy was published in the Federal Register September 23, 1974.

Smog, the familiar variety caused principally by auto emissions, does more than sting the eyes and dirty the air over large metropolitan areas. It also decreases the amount of sunshine received by both urban residents and their rural neighbors, according to a study conducted by the Environmental Protection Agency, Coordinating Research Council, California Air Resources Board, and NOAA.

Two scientists on assignment to the Environmental Protection Agency from the Environmental Research Laboratories have made a series of sensitive solar radiation measurements at six sites in the greater Los Angeles, Calif., area during the autumn of last year and added them to data gathered previously from two locations in the St. Louis, Mo., region.

Preliminary results indicate that smog-ridden urban areas received as much as 35 percent less ultraviolet sunshine than nearby rural areas. The difference between urban and rural pollution concentrations and amount of sunshine received was much greater in the Los Angeles area than was observed at St. Louis.

Dr. James T. Peterson and Edwin C. Flowers, ERL meteorologists assigned to the EPA's Meteorological Laboratory near Durham, N.C., report that in Los Angeles during September and October 1973, during typically high, but not extreme pollution concentrations, the amount of ultraviolet sunlight reaching the top of the pollution layer was reduced

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Smog Blocks Sunshine

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by about 25 to 35 percent by the time it penetrated to the ground. In contrast, over a 28-day summer period in 1972, St. Louis pollution screened out an average of only about six to seven percent of the ultraviolet energy.

"While ultraviolet radiation comprises only a very small proportion of the total solar radiation, it's extremely important, both biologically and chemically," Dr. Peterson says. "Ultraviolet energy produces vitamin D in the human body and is also responsible for tanning of the skin. In addition, it is a necessary ingredient for the formation of photochemical smog."

The UV measurement program was part of a larger photochemical pollution field experiment by the Los Angeles Reactive Pollution Project (LARPP) whose purpose is to measure smog concentrations and meteorological conditions, which can then be used for development and validation of mathematical models of photochemical smog. According to Dr. Peterson and Mr. Flowers, most photochemical models of air pollution are under development for the Los Angeles area, which generally has the highest photochemical smog levels in the United States.

The NOAA-EPA research team also found that pollution concentrations throughout the Los Angeles Basin varied in location and time of day. Both the atmospheric turbidity and ultraviolet radiation data showed marked diurnal, day-to-day and weekday-weekend variations corresponding to the photochemical pollution cycle.

At El Monte the highest pollution concentrations usually occurred around mid-day when the westerly or southwesterly winds transported polluted air from the region of dense automobile traffic throughout Los

Angeles. But the time of arrival of the pollution cloud varied by more than two hours during one three-day period.

Results of LARPP will be given at a symposium, November 12, 13, and 14, in Santa Barbara, Calif., sponsored by the Environmental Protection Agency, the California Air Resource Board, and the Coordinating Research Council.

Ship's Deck Force Lauded for Work

The deck force aboard the NOAA Ship *Oceanographer* was commended recently for its efforts during the 1974 field season. Captain William D. Barbee, Commanding Officer, presented the commendation before an assembly of all hands called during the ship's return voyage from the tropical Atlantic Ocean to her home port, Seattle, Wash. Deck force personnel were commended for their sustained efforts in providing operational support for the JOINT I coastal upwelling investigations and for the GATE investigation of tropical air-sea interaction; and for their sustained program in vessel maintenance and upkeep.



(From left) Boatswain Mate Dennis Finney, Chief Boatswain William J. Halama, and Captain Barbee.

Ansel N. Page Takes Post As Chief of EDS Group

Ansel N. Page, Jr., who has been Chief of the Systems and Applications Division in NOAA's Office of Management and Computer Systems since 1973, has been named Chief of Systems Integration and Planning in the Environmental Data Service. In his new position, Mr. Page will be responsible for establishing, implementing, and improving major EDS information processing systems.



Mr. Page first joined the Federal service at the National Weather Records Center in Asheville, N.C., in 1959, and later transferred to Weather Bureau headquarters. In 1966, he became Chief of the Environmental Science Services Administration's Management Informa-

tion Systems Branch; Chief of NOAA's Management Systems Division in 1968; and Director of the Office of Administration's Systems Development Project in 1971. He played a key role in designing and implementing NOAA's finance and budget system.

Mr. Page received his bachelor's degree from Tennessee Polytechnic Institute and his master's degree from the Georgia Institute of Technology.

Corps Training Class

Fourteen ensigns are enrolled in the 49th training class at the NOAA Training Center at the U.S. Merchant Marine Academy in Kings Point, N.Y., which opened October 11. All college graduates, the trainees, who include one woman, hail from eight states—California, Maine, New Mexico, Connecticut, Washington, New York, Pennsylvania, Michigan—and the District of Columbia. Upon completion of the 10-week course, the ensigns will be assigned to shore and sea positions throughout NOAA.

noaa week

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Catherine S. Cawley,
Editor

Anna V. Felter,
Art Director

AOML Facility Is Favorite Of Architects

The Environmental Research Laboratories' Atlantic Oceanographic and Meteorological Laboratories facility on Virginia Key near Miami, Fla., has been selected for a First Honor Award of Merit by the American Institute of Architects' Naval Facilities Engineering Command Biennial Awards Jury. Three First Honor Awards and five Awards of Merit were chosen from among 47 submissions. The AOML facility, designed by the firm of Ferendino/Crafton/Spills/Candela in Coral Gables, Fla., was dedicated officially on February 1, 1973.

Members of the prestigious jury included Archibald C. Rogers, president of the American Institute of Architects, who served as chairman; Waldo G. Bowman, past president of the American Society of Civil Engineers; J. Raymond Carroll, vice-president of the National Society of Professional Engineers; John C. Markness, *The Architects Collaborative*; Allan F. Duffus, president of the Royal Architectural Institute of Canada; and Charles S. Matlock, chairman of the American Association of State Highway and Transportation Officials.

Climatology Is Subject Of Workshop

A Climatology Conference and Workshop, sponsored by the American Meteorological Society and held in Asheville, N.C., recently, had as its central theme applications of climatic data to today's world social and economic problems. Fifty-three technical papers on a wide variety of human activities were presented by scientists from throughout the United States.

NOAA AMS members who chaired sessions or presented papers were David S. Johnson, Director of the National Environmental Satellite Service and President of the AMS; Director Thomas S. Austin, Deputy Director Arnold R. Hull, Dr. James D. McQuigg, Frank T. Quinlan, Dr. Harold L. Crutcher, and Dr. J. Murray Mitchell from the Environmental Data Service; Dr. Terrell L. Noffsinger, Gregory S. Richter, L.A. Joos, M. Bailey, Douglas R. Greene and Daniel L. Smith of the National Weather Service; and F.W. Nagel of NESS. Dr. Wilmot N. Hess, Director of the Environmental Research Laboratories, delivered the banquet address, and Mr. Hull chaired the Workshop for State Climatologists.

Revised Houston-Galveston Storm Evacuation Maps Issued

The second edition of the 1971 storm evacuation maps of the Houston-Galveston, Tex., area, reflecting land subsidence revealed by extensive releveling of the region completed last year, has been published by the National Ocean Survey.

The maps are designed to facilitate evacuation of people from storm-threatened coastal areas, and the NOS urged that the 1971 maps be discarded since they no longer reflect accurately the elevations along the evacuation routes.

The new edition reflects the 1973 data in elevations along evacuation routes. The revisions include subsidence of generally less than two feet, but in several isolated instances the subsidence is

NOS Completes 400-Mile Survey Through New York

A 400-mile geodetic survey of ground elevations from the Canadian border to New York City has been completed by the National Geodetic Survey.

A 16-man field party measured over 400 elevations along the route as part of a long-range program to update NGS' national network of elevations which, along with a similar network of distances, provides the basis for all accurate land measurements. The networks are surveyed periodically because of changes resulting from earth movements.

The survey began on Cornwall Island, Ontario, at the St. Lawrence River, where it tied in with a Canadian elevations network, and then proceeded to Rouses Point, Saratoga Springs, Albany, Poughkeepsie, Yonkers and the Brooklyn Bridge in New York. The route was last surveyed 20 years ago, except for the initial portion, which was surveyed in 1919.

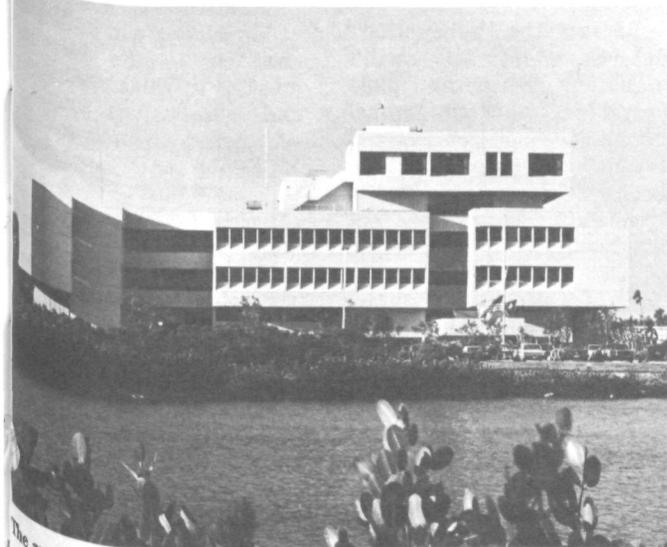
somewhat greater. The maximum subsidence occurred near the San Jacinto Monument and in the Texas City-La Marque area.

The NOS stressed that the land contours and shaded areas subject to flooding remain unchanged in the revised edition, since revisions of these are subject to new topographic mapping by the U.S. Geological Survey. New storm evacuation maps will be issued when the new topographic maps are completed.

The 1973 releveling, conducted by the NOS, revealed a maximum land sinking of almost eight feet in the past 30 years, including 3.8 feet in the past decade, in one locality of the Houston Metropolitan area. Land subsidence in the Galveston area during the past decade was generally found to be minimal. At one point in Galveston, the land has apparently sunk one foot since 1906 and only one-tenth of a foot since 1963.

The storm evacuation maps, which show emergency escape routes, coastal areas subject to flooding from hurricanes and other storm surges, and higher places which might afford "safety islands" for storm evacuees, are distributed to state and local officials and community emergency preparedness committees by the National Weather Service. Maps may be purchased by the public for \$2 each from the National Ocean Survey, Distribution Division (C44), Riverdale, Md. 20840.

Six maps issued for the Houston-Galveston area generally cover an irregular area of the coast extending from Freeport, north to Houston, east to the Winnie-Stowell area and south to Whites Ranch and the coast. Included in the area are such communities as Houston, Galveston, Texas City, La Marque and Baytown.



The award winning AOML facility near Miami.

NOAA Visual Services Branch Wins U.S. Coast Guard Awards

The Visual Services Branch of the Administrative Operations Division recently received a plaque from the National Board, U.S. Coast Guard Auxiliary, at a ceremony held at NOAA Headquarters.

The plaque was for an outstanding contribution toward the observance of National Safe Boating Week, 1974. Also, Certificates of Appreciation from the National Safe Boating Committee, Inc., were presented to Harold Goodman and William Welsh, employees of the branch, for their assistance in producing a logo that was used in the observance nationally.

Captain Sam Wilson, USCG, Chief Director of Auxiliary and a member of the National Board, pre-

sented the plaque to Mr. R.L. Carnahan, Acting Assistant Administrator for Administration, NOAA.

Captain Ralph Hill, Chief, Boating Education, USCG, also Secretary of the National Safe Boating Committee, Inc., acting in behalf of the Chairman of the Committee, presented the Certificates of Appreciation.

Other participants in the ceremonies were: Rear Admiral Harley D. Nygren, Director, NOAA Corps, and C. Peter Marini, Communications Officer, NOAA, both members of the National Safe Boating Committee, Inc., R. Adm. Nygren, representing NOAA, and Mr. Marini as National Branch Chief, Safe Boating, representing the U.S. Coast Guard Auxiliary.



Participating in the special award ceremony were (seated, from left) R. Adm. Harley D. Nygren; Capt. Ralph Hill, USCG; Capt. Sam Wilson, USCG; R.L. Carnahan; (standing, from left) C. Peter Marini, Harold Goodman; and William Welsh.

NOAA Men To Aid US-USSR Space Project *(Continued from page 1)*

scanner aboard the Earth Resources Technology Satellite (ERTS-1).

"Internal waves are very slow, long progressive oscillations of a density-stratified fluid," Dr. Apel explains. "In contrast to surface wind-driven waves, internal waves produce only small amplitudes at the ocean's surface but have very large vertical fluctuations at depths beneath the sea. The periods of the waves are set by the ocean's density variations and water depth and range from about 10 minutes to several hours in duration."

He says the waves often make themselves visible on the surface of a calm sea by exhibiting regular, smooth striations, or slicks, that travel along with the waves, providing a visual "tag" for identification. It is these slicks that are to be photographed during the Apollo-Soyuz mission.

Theories exist that explain the generation of internal waves by the flow of the tide near the edge of the continental shelf or along island arcs. For a few hours during the peak of each tidal cycle, a packet of waves is

created at the shelf edge and propagates up onto the shelf until intersecting the ocean bottom, where the waves break and deposit their energy into turbulence and stirring of the ocean's bottom sediments.

"On a worldwide basis, this process can account for a significant portion of the loss in rotational energy of the earth-moon system and the attendant lengthening of the day," Dr. Apel says. "For this reason, tidal generation of internal waves may partially replace ocean bottom friction as the source of dissipation for the earth's rotational energy, an intriguing hypothesis on which the Apollo-Soyuz mission photographs may shed additional light."

Dr. Dietz will be tutoring the American Astronauts in geology and continental plate tectonics, advising them on various geological formations to photograph as they orbit the earth 140 miles (225 kilometers) above the earth. He is particularly interested in obtaining the photographs of exposed continental plate boundaries—for example, the San Andreas fault in California, and the

Afar Triangle in Ethiopia. Most other plate boundaries are submerged beneath the world's oceans.

"We also are interested in photographing astroblemes—the terrestrial analogues of lunar craters—which are scattered throughout the world," he explains. "About 60 astroblemes have been identified so far, including the recently discovered Araguinha Dome in Mato Grosso, Brazil; and the Serra Da Congalha Crater in the Amazon Basin of South America."

Because the "subduction" on descent into the earth's mantle, of some plate boundaries causes the formation of oceanic trenches and associated volcanic action, Dr. Dietz also is interested in spacecraft photographs of the circum-Pacific mountain belt.

"While we can't photograph trenches submerged beneath the sea, we can photograph land forms such as the Andes Mountains in South America, and the Mariana Islands arc near Guam, which were partially created by volcanic action."

Mr. Maul is mainly interested in ocean color

studies for detection of water quality changes, ocean currents, and estuarine circulation. He is training astronauts and selecting sites and problem areas for visual study and photography during the mission. He hopes the Apollo-Soyuz team will be able to identify "red tides" and areas containing a higher concentration of drifting marine microorganisms called phytoplankton. Such information is very valuable to fisheries, whose catches feed upon the phytoplankton.

Mr. Nagler will collect and pass on to the astronauts ideas as to what photographs and observations would be of interest to meteorologists in NOAA and other organizations. During the actual mission, Mr. Nagler will work with the NWS Space-Group flight Meteorology and the National Environmental Satellite Service, looking for interesting meteorological phenomena, and asking the Astronauts for verbal comments and specialized photos of them. Mr. Sherman is involved in coordinating NOAA's overall oceanographic activities with the ASTP.

Seminar Spotlights ADP Procurement

Representatives from NOAA's Office of Management and Computer Systems (OMCS) and Major Line Components recently attended a two-day seminar on Automatic Data Processing Procurement in the Federal Government.

The seminar, sponsored by OMCS, focused on particular problems facing government agency personnel attempting to procure ADP equipment in a timely manner, without protests from vendors, and without being taken advantage of by vendors. Specific areas covered included aids available to assist the procurement team; different methods of presenting workload requirements; acceptable methods of evaluating vendor proposals; conditions under which an award can be made to other than the low bidder; and residual value as a part of the proposal evaluation process.

Since the seminar won wide acceptance and acclaim from the majority of the participants, OMCS plans to sponsor additional sessions in the near future.



Participants were (from left) Stan Herman, NWS; W. S. Stevenson, ERL; Anthony Puglisi, NMFS; Jim Urchasko, NOS; Roger Phillips, NESS; Faris Kahwajy, NESS; Tom Johnson, NOS (partially hidden); A. N. Page, EDS; R. Puhl, NOS; John Chakalis, OMCS; Dave Pendleton, NOS; C. Hume McClure, NESS; Norman Paull, OMCS; Gerald Barton, EDS; Fred Frey, EDS; Arthur Hanson, NWS; Margo Kelly, OMCS; Roger Hill, NWS; Terry Miller, Instructor; Arthur Kneer, OMCS; and (not in photo) Ross Bainbridge, OMCS.

New Lab Dedication

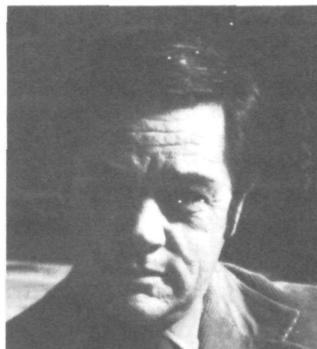


Representative Marvin L. Esch of Michigan cuts the ribbon across a relief map of the Great Lakes, dedicating the Environmental Research Laboratories' new Great Lakes Environmental Research Laboratory in Ann Arbor, Mich. The NOAA Laboratory's mission will be to increase our understanding of these freshwater seas. From left above are Dr. Eugene Aubert, Director of the new laboratory; Representative Esch; John K. Tabor, Under Secretary of Commerce; and Dr. Wilmot N. Hess, Director of ERL.

Edgar F. Law Directs Division Of Oceanographic Data Center

Edgar F. Law has been named Director of the Special Projects Division of the Environmental Data Service's National Oceanographic Data Center. Before joining NODC, he spent three years in the Plans Office at the U.S. Naval Oceanographic Office, where he participated in staff studies on policy, priorities, and resource distribution. Earlier

he was Branch Head in the Deep Ocean Survey Division where he directed the oceanographic and geophysical sur-



vey work conducted on the USNS *Bent*, *Kane*, *Wilkes*, and the contract ship *R/V Hunt*.

Mr. Law was instrumental in formulating a nearshore survey project during the early 1960's that is still a viable Navy program and is being participated in by foreign navies in Europe and in the Far East. He also directed a Riverine Survey program in Viet Nam during his tenure as Inshore Surveys Branch Chief.

During the 1950's he worked in the Physical Properties Unit and headed the Tides and Currents Unit, both involved in the compilation, analysis, and presentation of oceanographic data in descriptive oceanographic publications.

LSC Helps Install Special Lake Gages

Lake Survey Center Water Level Gaging Section personnel recently assisted the Army Corps of Engineers' Coastal Engineering Research Center (CERC) in the installation of special water levels gages on Lake Michigan.

Engineering Technician Edward J. Gurche and Edward Iwasko helped install and make operational water level gages for CERC at Muskegon, White Lake, Portage Lake and two at Pentwater. The gages, which record five-minute readings and indicate both the height of waves and their length of travel along the coastline, will be used in a CERC wave study.

Also, a permanent gage at Milwaukee, Wis., was changed from fifteen-minute readings to five-minute readings, so that it could be employed in the study and at the same time be used for normal Water Level Gaging Section reports.

Sea Grantees Join NOAA In Observing Fourth Anniversary

Sea Grant institutions throughout the United States again joined NOAA facilities in observing NOAA's anniversary.

Each year the number of participants, as well as the number of visitors, has grown and plans were made this year for live aquaculture demonstrations, tours, a visit by NOAA's survey vessel *Mt Michell* and numerous other exhibits.

Participating Sea Grant institutions included the University of Maine, whose special demonstration-tour of its Aquaculture Building attracted over 1400 visitors; the University of California, whose display was highlighted by a live exhibit of lobster aquaculture; and the University of Delaware, which commemorated NOAA's birthday by a series of showings of Jacques Yves Cousteau's film, "Whales".

NWS Observation Chiefs Meet for HQ Conference

The first meeting of all the regional Surface and Upper Air Chiefs was held at National Weather Service Headquarters in Silver Spring, Md., from September 23 - 27. Conference themes were to develop a better understanding of the Data Systems Division's observational objectives and to obtain an awareness of regional problems.

Discussion topics included

Automatic and Remote Automatic Meteorological Observation Systems Plans, metrication, Supplementary and Limited Aviation Weather Reporting Programs, Solar Radiation developments, interagency changes to the Federal Meteorological Handbook-1; Next Generation Upper Air Sounding System Plans, Radar, and Marine programs and Communications and codes.



Participants were (seated, from left) L. Murphy, NWSH; T. Holmes, ERH; B. Thompson, NWSH; D. Lamb, WRH; (Standing, from left) T. Abramides, NWSH; D. George, NWSH; H. Hirata, PRH; C. Trainer, CRH; D. Unruh, ARH; F. Hochreiter, SRH; S. Yarkin, NWSH; M. Rigney, NWSH; P. Brady, NWSH; and (not in photo) M. Techter, NWSH; T. Gladney, NWSH; R. Schoner, NWSH; L. Nordahl, NWSH; P. Hexter, NWSH; and J. Neilon, NWSH.

Alaska Meteorological Trainees

Ten employees of the National Weather Service Alaska Region recently completed the first half of their Basic Meteorology training, conducted in Anchorage by Instructors

Don Whitman and Joseph Audsley from the NWS Technical Training Center in Kansas City, Mo. The second half of the course is scheduled to be held at the NWSTTC in March 1975.



(Front row, from left) Mr. Audsley; Stuart G. Bigler, Director, Alaska Region; Patricia Goble, Summit; (middle row, from left) David Angaiak, Bethel; Roger Gerig, Annette; Thomas Edwards, Barrow; Burk Ivanoff, Bethel; Pete Garrison, Barter Island; (back row, from left) Mr. Whitman; Edmorris Milligrock, Fairbanks; James Youderian, Anchorage; Jack Endicott, Kodiak; and Weaver Ivanoff, Unalakleet.

Training Certificate Awarded



Mrs. G. Nemat, Deputy Director of the Iranian Meteorological Service, recently received a training certificate in a ceremony at the Environmental Data Service's National Climatic Center in Asheville, N.C. Mrs. Nemat attended the American Meteorological Society Conference and Workshop on Applied Meteorology in Asheville while visiting the Center, October 3-10. The presentation of a certificate of training to foreign visitors assigned to NCC is a recently inaugurated policy. Arnold R. Hull, EDS Deputy Director, presented the award.

Personnel Course Held In Atlanta



Participants in the Supervision and Group Performance course conducted in Atlanta, Ga., October 21-25, by Margaret Barnes of the NOAA Personnel Division in Rockville, Md., were: (seated from left) Hal Monroe, WSMO Slidell, La.; Cleve Holladay, WSO Athens, Ga.; Wash Martin, WSMO Memphis, Tenn.; Al Samet, NHC Miami, Fla.; (standing from left) Bill Rodgers, WSO Huntsville, Ala.; Bob Smith, WSO Apalachicola, Fla.; Charlie Self, WSO Nashville, Tenn.; Bill Crouch, WSFO New Orleans, La.; Al Young, WSFO New Orleans, La.; Perry Emmert, WSO Jacksonville, Fla.; Ms. Barnes; Bernie Roberts, WSFO Little Rock, Ark.; Bill Keating, WSFO Jackson, Miss.; Jack Cox, WSFO Memphis, Tenn.; David Livingston, WSO Macon, Ga.; and Bill Marshall, WSFO Birmingham, Ala.

next week's best fish buys

According to the NMFS National Consumer Education Services Office in Chicago, the best fish buys for the next week or so are likely to be Maine sardines and ocean perch along the Northeast Seaboard; grey trout and fluke in the Middle Atlantic States, including the D.C. area; raw,

headless shrimp and fish sticks and portions in the Southeast and along the Gulf Coast; whitefish fillets and pan-dressed smelt in the Midwest; fillets of sole and snapper in the Northwest and Pacific red snapper and dressed whiting in the Southwest.

Automated Hydrographic Surveys, Data Discussed at Recent NOS Conference

Twenty-four participants, representing seven operational and developmental elements of the National Ocean Survey, met recently at NOS Headquarters to discuss recent advances in automated hydrographic surveying and the processing of the survey data; and also to provide a forum for the interchange of innovative ideas.

The conference, held under the auspices of the NOS Marine Data Systems Project, was structured this year as a workshop. Dale E. Westbrook, of the Marine Data Systems Project, organized and chaired the three-day session.

Several study groups were formed whose objectives were to present NOS management with specific written proposals for improving the efficiency and reliability of the processing system both in the field and at headquarters. Seven studies, selected from an agenda prepared by the conferencees, were conducted during the short duration of the conference.

Representing the Atlantic Marine Center were Lieutenant Commander C. Dale North, Hugh L. Proffitt, William L. Jonns, and Lieutenant Gregory R. Bass. The Pacific Marine Center was represented by Commander Walter F. Forster III, James S. Green, Lieutenant Michael E. Wagner, and Lieutenant Commander John Albright. Lake Survey Center personnel in attendance were William Monteith, Lieutenant Commander John W. Decoste, Carl Feldcher, Ronald R. Bagalay, and John F. Schmidt. The Rockville headquarters of NOS was represented by Commander Ray E. Moses, Commander Melvin J. Umbach, Charles

Ellis, Robert K. Delawder, Raymond H. Carstens, Donald R. Engle, Commander Wayne L. Mobley, Lieutenant Commander Jack L. Wallace, Lieutenant Alan Pickrell, and Lieutenant Lawrence L. Lake.

James D. Noel Wins Achievement Award

James D. Noel, Chief of Systems Integration and Planning in the Environmental Data Service, received a Special Achievement Award in recognition of his outstanding accomplishments in designing, planning, and implementing the Environmental Data Index (ENDEX)—a data referral system capable of describing all available historical data files, whether held by EDS or other organizations. This system, designed and implemented by Mr. Noel in only a two-year period, enables researchers, managers and planners to locate data files required for baseline studies. Mr. Noel will be leaving NOAA for a new career this month.

Writing, Broadcasting Seminar



National Weather Service Central Region employees who participated in the first Writing and Broadcast Seminar taught at the NWS Technical Training Center in Kansas City, Mo., September 25-27, were (front row, from left) John Osborne, Wichita, Kans.; Guy Gray, Kansas City, Mo.; Ben Brown, Kansas City, Mo.; Charles McCain, Denver, Colo.; Bethel Butler, Minneapolis, Minn.; Milton Stirdivant, Green Bay, Wis.; Austin Feig, Des Moines, Iowa; William E. Hill, St. Louis, Mo.; (back row, from left) Frank Dillenkoffer, Instructor; James Burud, Duluth, Minn.; Kenneth Holmes, Indianapolis, Ind.; Dominic Scaffidi, Milwaukee, Wis.; Gerald Watts, Detroit, Mich.; Lynn Wolf, St. Louis, Mo.; Lois Stevenson, Marquette, Mich.; Ronald Hunt, Louisville, Ky.; Robert Somrek, Chicago, Ill.; William Chassee, Grand Rapids, Mich.; Larry Horde, Sault Ste. Marie, Mich.; Henry Kyle, Springfield, Mo.; Charles Stwertnik, Chicago, Ill.; and Larry McEwen, Instructor.

Briefing Held for New Head Of Defense Mapping Agency

Rear Admiral Allen L. Powell, Director of the National Ocean Survey, recently held a program briefing for the new Defense Mapping Agency Director, Vice Admiral Shannon D. Cramer, Jr. The NOS works closely with DMA officials in their topographic, hydrographic and aeronautical charting programs.



(From left) Admiral Powell; Admiral Cramer; Charles H. Andregg, Deputy Director for Management & Technology, DMA; Colonel John R. Lund, Executive Officer, DMA; and Dr. Gordon G. Lill, Deputy Director, NOS.

discussed current activities in geodesy, aeronautical charting and cartography, marine technology, marine mapping and charting, and NOAA Fleet operations.

This briefing presented a unique opportunity for both organizations to better emphasize coordination and planning in areas of mutual interest.

obituary

Wendell V. Mickey

Wendell V. Mickey, former Supervisory Geophysicist with the Coast and Geodetic Survey, National Ocean Survey and the Environmental Research Laboratories, died October 22,

in Boulder, Colo. He began his service with the Coast and Geodetic Survey in 1958 and served as Chief of the Seismology Division's Vibration and Engineering Branch in Washington, Rockville, and Boulder. He was concerned with the analysis of vibrations for nuclear and



chemical explosions, rocket launches, and with site evaluations for nuclear power plants and hospitals. He served as Acting Chief of the Division during the transition of this activity from Rockville to Boulder in 1971. He was transferred to the U.S. Geological Survey in September 1973.

He is survived by his wife, Vida, of 1953 Kohler Drive, Boulder, Colo. 80303, a daughter, Lynette, and sons Wendell, Jr., Patrick, and Randall.

notes about people



(From left) Mrs. Almquist, Mr. Almquist, and National Ocean Survey Director Rear Admiral Allen L. Powell, who presented the Award.

John R. Almquist was awarded a Department of Commerce Bronze Medal "in recognition of major contributions in the preparation and maintenance of accurate aeronautical charts."

Mr. Almquist retired recently after more than 33 years of Federal service, 30

of which were spent with the National Ocean Survey and its predecessor, the Coast and Geodetic Survey. At the time of his retirement he was a Senior Reviewer with the Visual Chart Branch of the Aeronautical Chart Division.

John Hanna, Public Affairs Officer of the National Ocean Survey's Lake Survey Center in Detroit, Mich., has been named Chairman of the Public Relations Committee of the Detroit Federal Executive Board. The Board is made up of members of various government agencies organized to provide community services and assistance on a voluntary basis.

Lieutenant Frank B. Arbusto, Jr., Commanding Officer of the Lake Survey Center's research vessel *Shenehon*, was a recent guest of Tom Lane on his "Roundtable" daily talk program on Radio Station WLEW, Bad Axe, Mich. Their 15-minute discussion concerned LSC operations in general and the project relating to the research studies in Saginaw Bay.



(From left) Edwin Heath, Meteorologist in Charge at Akron; Mr. Vaughan; and NWS Eastern Regional Hydrologist Albert S. Kachic.

Grant Vaughan, Hydrologist at the River District Office at the National Weather Service Office in Akron, Ohio, has received a Commerce Department Bronze Medal. He was cited

for "outstanding service to the residents of Northeastern Ohio as National Weather Service Hydrologist and Weather Radar Specialist."

Mr. Vaughan also received a citation from the City of Newark, Ohio, proclaiming September 12, 1974, as "Grant Vaughan Day."



Barbara J. Palko, Fishery Biologist with the Miami Laboratory (left), recently received a Special Achievement Award for her "Show and Tell" programs in the Elementary Schools of Dade County. Presenting the award is Mrs. Mary H. Thompson, Deputy Director of the Southeast Fisheries Center.



Administrative Officer Robert F. Reynolds (right), of the National Marine Fisheries Service Auke Bay Fisheries Laboratory in Auke Bay, Alaska, is being congratulated here by Dr. William A. Smoker, Director of the Laboratory, for receiving a "Certificate of Appreciation" for Community Service as a Neighborhood Youth Corps Supervisor. The certificate was awarded to Mr. Reynolds by the Division of Rural Development Assistance of the Alaska Department of Community and Regional Affairs, and was accompanied by a letter from Alaska Governor William A. Egan.

Richard C. Raulerson has been named Chief of the Marketing Services Division of the National Marine Fisheries Service Southeast Region, where he has been serving as a marketing specialist. The Division is responsible for Federal

marketing assistance to the fishing and allied industries in 17 states, plus Puerto Rico and the Virgin Islands. Mr. Raulerson replaces Jack T. Brawner, who recently moved to Washington, D.C. as Fisheries Administrator, National Coordinator for Fisheries Development.



Richard C. Raulerson

Previously, Mr. Raulerson was an Economist with the Marketing Economics Division of the U.S. Department of Agriculture, stationed at Athens, Ga.

He received his B.S. and Masters degrees in Food and Resource Economics from the University of Florida and has completed coursework for a Ph.D. in Agricultural and Applied Economics at the University of Minnesota.



National Oceanic and Atmospheric Administration

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