

Richard A. Frank Nominated NOAA Administrator

Seeding May Increase Net Area Rainfall

Preliminary results of cloud-seeding experiments conducted by the Cumulus Group section of ERL's National Hurricane and Experimental Meteorology Laboratory, Miami, Fla., indicate that seeding of developing tropical cumulus clouds increases the net rainfall over an area on experimental days from 20 percent to as much as 70 percent.

The Cumulus Group, directed by Dr. William L. Woodley, has conducted field studies for the past decade on the effects of seeding tropical cumulus clouds. The latest results come from a recent analysis of data obtained last summer's Florida Area Cumulus Experiment—FACE '76—and from four earlier seasons of field experimentation.

"There is now persuasive statistical evidence," said Woodley, "that dynamic seeding in Florida is effective in increasing the sizes and rain production of individual convective clouds, in promoting cloud mergers and in

(Continued on page 2)

Conservation Measures Adopted on Bluefin Tuna

Regulations to help conserve the supply of Atlantic bluefin tuna—a favorite of both commercial and recreational fishermen—have been adopted by the National Marine Fisheries Service and are effective immediately. The regulations apply to catches off the east coast of the United States during 1977, and change some of the rules that were in effect last year.

Under the new regulations all recreational and commercial fishermen who fish for bluefin weighing more than 300 pounds must obtain a certificate from the NMFS Regional Director,

Richard A. Frank has been nominated NOAA Administrator by President Carter.

He succeeds Dr. Robert M. White, who has accepted the Chairmanship of the Climate Research Board of the National Academy of Sciences.

Prior to his appointment as NOAA Administrator, Mr. Frank was director of the Center for Law and Social Policy, the first multi-purpose and largest public-interest law firm in the United States. The Center's activities include health care, women's rights, and mine health and safety.

Mr. Frank primarily was involved with the Center's International Project, representing a

wide range of public-interest clients—consumers, church



Richard A. Frank groups, environmental organizations—on such international

issues as trade, ocean environment and human rights.

During his tenure with the International Project, Mr. Frank participated in such areas as law of the sea, deepsea mining, pesticide exports, nuclear export policy, and weather modification.

Born in Omaha, Nebr., in 1936, Mr. Frank received an A.B. degree from Harvard College in 1958 and a J.D. degree from Harvard Law School in 1962.

From 1962 to 1969, he was with the State Department's Office of the Legal Advisor, in Washington, D.C., where he was responsible for economic-legal matters in trade, transportation and communication, international business and banking, international environmental issues, foreign assistance and military assistance.

During his State Department tour, he participated in a wide variety of activities, such as the 1969 arbitration with Brazil over coffee; as U.S. spokesman during the INTELSTAT conference; and representing the United States at conferences to draft oil pollution conventions. He participated in the drafting and negotiation of the Panama Canal treaties, served as counsel before Senate and House investigating committees and with respect to the Warren Commission Report.

In 1970 and 1971, he was counsel to a Washington, D.C., firm engaged in general law practice with an emphasis on international law, transportation, and practice before government agencies.

He has served as an educator—as a lecturer at George Washington University, Washington, D.C., and as an Adjunct Professor at George Washington Law School. Mr. Frank is the author of numerous publications on international law and environmental issues.

Mr. Frank was an Army officer. His wife, Jane Lakes Frank, serves as Deputy Secretary to the Cabinet.

Whale Quotas for 1977-78 Reduced by Commission

Dr. William Aron, director of NOAA's Office of Ecology and Environmental Conservation and U.S. Commissioner to the International Whaling Commission, reported from the 29th annual meeting of the Commission that whale quotas for the 1977-78 whaling season had been substantially reduced and a full moratorium on killing bowhead whales in the North Pacific had been adopted.

Gloucester, Mass. In addition, purse seine fishermen catching bluefin weighing from 14 to 115 pounds must also obtain such a certificate.

Purse seine fishermen cannot catch bluefin weighing more than 300 pounds until September 1.

For tuna weighing between 115 and 300 pounds, a special 25-ton quota has been established, to obtain scientific data and for tagging purposes. Tuna weighing more than 300 pounds cannot be caught and released unless they have been tagged

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The total allowable quota adopted by the Commission for the forthcoming season is 17,839 whales, compared to the 28,050 quota established by the Commission last year.

The Commission acted following a special message to the Commissioners from President Jimmy Carter, in which he emphasized the strong commitment of the United States to preservation of the whales, and reaffirmed the U.S. Government's support for continuing and increasing the IWC's conservation efforts.

Dr. Aron called the action of the IWC "a victory for conscientious protection of the world's whales, based on sound science."

Aron said that the reduced quota resulted from the application of the new management procedures to the most recent data on the status and abundance of whale populations around the world. This procedure, adopted by the IWC in 1975, classifies whale stocks into three categories—protected, sustained management, and initial management—depending

(Continued on page 2)

Sea Grant Aids Anti- Cancer Study

A team of scientists at the University of Oklahoma—almost 500 miles from the nearest salt water—is collecting marine animals from as far away as the Caribbean and Bermuda to determine if they contain substances that could prove helpful in the fight against cancer and heart disease.

Professors L.S. Ciereszko, F.J. Schmitz, and P.N. Kaul and their students skin dive to collect their specimens from tropical coral reefs of the Bahamas, Jamaica, Florida, and Bermuda.

Although the search for these drugs from the sea starts with animals found in nature, it is unlikely that they will be the ultimate source of any useful drugs that may be discovered. According to the University of Oklahoma scientists, after the structures of the compounds are known, it will generally be cheaper to produce commercial quantities in the laboratory by synthesizing the drugs than by obtaining them from natural marine sources.

Introduction of a new drug into clinical use normally requires seven to ten years after its initial discovery.

Seeding

(Continued from page 1)
increasing the rainfall from groups of convective clouds. And there are strong indications that dynamic seeding is effective in producing a net increase in rain over the fixed target area."

Dynamic seeding uses silver iodide dropped into supercooled water—water cooled below freezing but still in liquid form—high in the rising cumulus cloud tower. As the water turns to ice, freezing and additional condensation release large quantities of heat energy in the cloud, causing it to become more buoyant, develop more fully, last longer, and produce more rain.

"This means," said Woodley, "that dynamic seeding essentially invigorates processes within the cloud to produce the desired results."



John P. Scanlon (left), chief of the Surface Analysis Branch of NWS's National Meteorological Center Forecast Division, recently received his 40-year Service Emblem from NOAA Administrator Dr. Robert M. White, as Mrs. Scanlon looks on. Scanlon joined the U. S. Weather Bureau in 1942, after beginning his career with the Post Office.

Workshop Set for FWP; Advisory Committee Named

Ellen Overton, NOAA Federal Women's Program Coordinator, will conduct Workshop No. 155 at the Federally Employed Women (FEW) Convention on Saturday, July 16, at 11 a.m., at the Sheraton Park Hotel, Washington, D.C.

The topic is "Flexible Work Arrangements in the Federal Government," a panel presentation with an overview, a review of past and pending legislation, and a report on results of the Social Security Administration's experiment with Flexitime.

The FEW convention runs from July 14 through 16. Prior to the convention, the Civil Service Commission is holding a one-day workshop on July 13, and Commerce will hold an in-house workshop for field and regional Federal Women's Program Coordinators on July 12. Field and regional FWPC's have been invited to attend the FEW Convention.

Members of the Federal Women's Program Advisory Committee, elected for NOAA headquarters, beginning April 1, 1977, are:

Janet D. Winston, NOS, 377-5360, representing Main Commerce, WNY, Natural History Museum; Mauna Kammer, AD, 634-7357, and Marsha Short, EDS, 634-7324, for Page 1, 2, and UM; Kathleen Anderson, NOS, 443-8874, Jeanne Holdahl, NOS, 443-8860, and Steve Martof, NOS, 443-8175 or 8517, for WSC-1, 2, 4, 5, NBOC-1 & 2, Rockwall, Wilkins Ave.;

Juanita Brown, NOS, 427-7687, and Julia Boyd, NOS, 427-7295, representing Gramax and Sterling, Va.; Mary C. Pino, NOS, 436-8301, for Riverdale; Arita Williams, AD, 763-7286, and Betsy Campana, NESS, 763-2506, for FB-4; Evelyn Steele, NWS, 763-8117, for World Weather Bldg.

Appointed memberships, beginning April 1, are Laura Matsuda, Sea Grant, 634-4128; and Eulalia N. Mandes, NWS, 427-7420.

The next meeting of the FWP Advisory Committee will be 9:30 a.m., July 21, in the Page 1 Penthouse.



NOAA Associate Administrator David H. Wallace (left) swears in two new members of the 15-member Sea Grant Review Panel. Taking the oath are Dr. Lynton K. Caldwell (center), of Indiana University, and Charles A. Mosher, former Congressman from Ohio. The ceremonies took place recently at the National Sea Grant Program offices.

Seventh Annual NWS Golf Meet Set for October

National Weather Service Southern Region's seventh annual NWS golf tournament will be held this year near Disney World at the Deltona Inn and Country Club, Deltona, Fla., the last week of October.

The Country Club facilities will be available for the entire week for those who wish to come early but official play will be on the 28th and 29th of October. A one-day get acquainted Calloway outing will be played on the 27th followed by an informal get-acquainted welcome party.

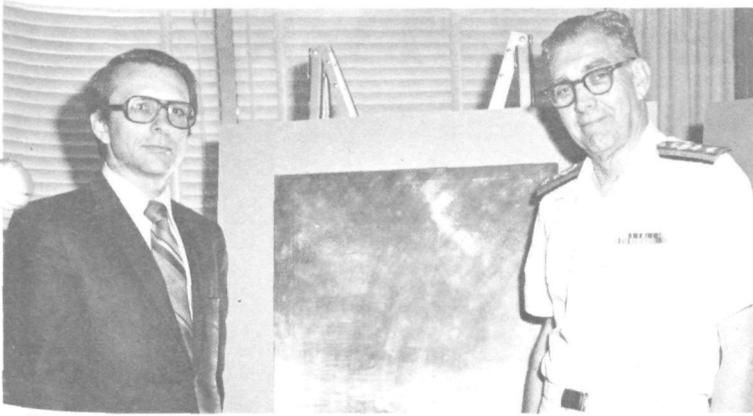
Special discount tours to Disney World attractions are being arranged during the week for participants and their families. Organizers say this year's outing promises to be even bigger than last year's.

All NWS employees, both active and retired, are invited to participate. For entry blank and full information contact: Mr. Sam Calvert, Golf Committee, NOAA/RFC, P. O. Box 480197, Miami, Florida 33148.

Whales

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upon the abundance of each individual population.

The meeting took place in Canberra, Australia, the third week in June, and was attended by member nations from around the world.



R. Adm. Allen L. Powell (right), director of the National Ocean Survey, recently loaned a copperplate engraving of San Francisco Bay to Ralph Ehrenberg (left), director of the Cartographic Archives Division of the National Archives and Records Service, Washington, D.C. The plate, to be displayed at the National Archives, is an engraving of the first edition of nautical chart No. 602 printed in 1854. It covers San Francisco Bay to the Umpquah River.

More Aquaculture Needed

Although worldwide output from aquaculture doubled in the past five years to about six million metric tons, a shortage in the global supply of seafood can be expected in ten years, according to a NOAA report just published.

Edited by John B. Glude, NOAA Aquaculture Program Coordinator, the report describes the increasing world demand for seafoods, notwithstanding current landings exceeding 64 million metric tons, and an estimated maximum harvest of 100-150 million metric tons.

At present, roughly 10 percent of world fisheries production comes from aquaculture—

public and private hatcheries and "fish farms." In the United States, public aquaculture of salmon and private culture of oysters, catfish, trout, shrimp, clams and other species yield about 65,000 metric tons, equaling about three percent of landings, or two percent consumption of fishery products.

The report includes state-of-the-art summaries of the culture of high priority species, such as salmon, marine shrimp, freshwater prawn, American lobster, oysters and marine plants; medium priority species including clams, catfish, abalone, scallop and yellow perch; and low priority species, such as mussels, crab, and various marine fishes.

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

Nominations Wanted by Weather Association

The National Weather Association, a professional meteorological society, has announced its Awards Program for 1977 and will accept nominations through September 30.

The Awards program emphasizes operational meteorology. It is designed to recognize outstanding achievements in production, dissemination, and use of weather products.

Five categories are offered:

—Most outstanding achievement in operational performance by an NWA member.

—Greatest contribution to the NWA by a member.

—Greatest contribution to meteorological operations by an academic person through new or continuing research.

—Greatest contribution to meteorological operations by an organization not part of the professional meteorological community.

—Greatest contribution to meteorological operations by an individual who is not a member of the professional meteorological community.

Narrative nominations, with comments or endorsements by an appropriate authority, should be sent to NWA Awards Committee, National Weather Service Forecast Office, General Aviation Bldg., Logan International Airport, Boston, Mass. 02128.

Award Winners will be announced at the National Weather Association's annual

banquet in Washington, D.C., in November. Plaques or certificates will be presented.

More Fish Eaten in '76 Says NMFS

Led by a 10 percent increase in fresh and frozen fish consumption, per capita consumption of fishery products increased to 12.9 pounds in 1976, from 12.2 the previous year, says the National Marine Fisheries Service.

Rising individual income and increased sales in the food service sector during 1976 were prime factors in the six percent overall improvement in the fin-fish market, notwithstanding price hikes during the year.

Although the total per capita consumption for canned fish was unchanged, salmon and sardine sales were above 1975 levels, while consumption of canned tuna declined slightly.

New income tax withholding rates will be used for salary checks dated July 11, 1977, for employees paid semimonthly, and July 13, 1977, for employees paid bi-weekly.

Employees subject to withholding for State income tax will also notice a change in the State withholding amounts.



Texas Governor Dolph Briscoe proclaimed June 19-25, Hurricane Awareness and Information Week in Texas and is shown here as he signed the proclamation. Present for the ceremony were (left to right): Tom Nelson, Texas Education Agency; Mrs. Tom Nelson; M. Parks Bowden, Governor's Division of Disaster Emergency Services; Sally Davenport, Texas Coastal and Marine Council; George Kush, Hydrologist, WSFO San Antonio; Wilson Spear, Texas Department of Public Safety; Ed DiLoreto, MIC, WSFO San Antonio; Ron Moreau, Texas Department of Parks and Wildlife; John Carr, Texas Water Development Board; Dan Bellue, DPM, WSFO San Antonio; Bob Oehlerich, SMT, WSFO San Antonio; Clint Dare, Texas Insurance Institute Information Center. (Photo: John McDonald, Division of Disaster Emergency Services, and Ken Richardson, WSFO San Antonio)

National Workshop For TV Weathercasters Held At NOAA Facilities In Miami



Dr. Noel LaSeur, director, ERL's National Hurricane and Experimental Meteorology Laboratory, discusses hurricane research with a reporter, Paul Roberts, from Miami's WINZ.



Al Duckworth of WWL-TV, New Orleans, La., and George Winterling, WJXT-TV, Jacksonville, Fla., being shown a computer console by RFC Technician Jim Brown, on a NOAA P-3 research aircraft at the Research Facilities Center.

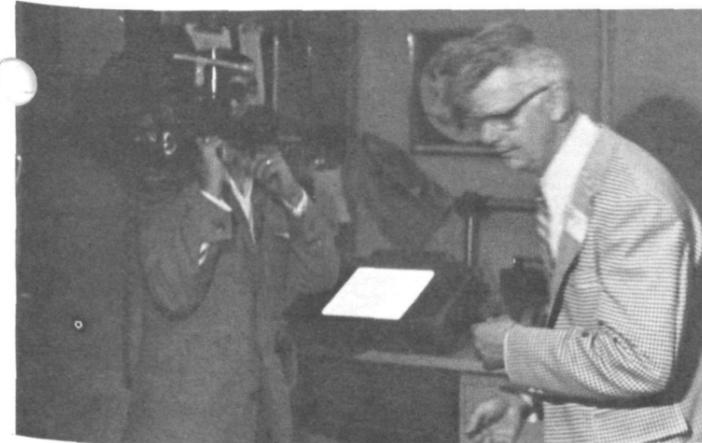


Danny Treanor of WALA-TV, Mobile, Ala., interviews Dr. Harris Stewart, director, ERL's Atlantic Oceanographic and Meteorological Laboratory, on NOAA research being conducted on storm surge in Mobile Bay.

Weathercasters and film crews from more than 20 TV stations as widely separated as Hartford, Conn., and the Rio Grande Valley of Texas converged on Miami, Fla., June 2, to learn more about hurricanes. During the national workshop hosted by NOAA components—National Weather Service, National Environmental Satellite Service, Environmental Research Laboratories, and NOAA Public Affairs—from June 2 through June 4, the TV forecasters shot a lot of film and conducted interviews with NOAA scientists, pilots, and officials.



The communications section at National Hurricane Center is filmed by Hilton Kaderli of WFSB-TV in Hartford, Conn., and his photographer, Andrew Kay.



Don Gaby, manager of the Miami NESS Satellite Field Services Station, conducts a tour for a TV photographer.



Barry J. Fennel, RFC technician, conducts interviews on NOAA P-3. (Left to right) Barry J. Fennel, RFC technician, Jim Brown and Robert L. Daniels, RFC technicians.



NOAA Hurricane forecasters John Hope and Gil Clark brief weathercasters on operations in the "Hurricane Room" at NWS's National Hurricane Center.



Robert Cole, National Hurricane Center Deputy Director (right), conducts a tour for Ray Boylan (left) of WTLV, Jacksonville, Fla., and Nash Roberts of WVUE in New Orleans, La.



Dr. Neil Frank, National Hurricane Center Director (right), prepares for an interview by Doug Johnson of KPRC-TV, Houston, Tex., and his photographer, Fred Edison.

Health Claim Turned Down? Here's What To Do...

If a health insurance claim filed by you or one of your employees is turned down, a review of the denial can be had by writing first to the insurance company and then to the U.S. Civil Service Commission.

According to CSC regulations, this is what you should do if the insurance company says it won't pay a particular doctor or hospi-

tal bill and you think it should:

-Write to the company and ask them to reconsider the claim. You must write within one year of the date the insurance company turned you down. They must answer your letter within 30 days. If the company doesn't answer your letter or if it turns you down again, you then:

-Write to the Civil Service Commission and ask them to review the denial of the claim. The address is: U.S. Civil Service Commission, Bureau of Retirement, Insurance, and Occupational Health, Washington, D.C. 20415.

You must write to the Commission within 90 days of the date the insurance company

again turned you down. The Commission must let you and the company know the final decision within 30 days after all the necessary information is presented.

The regulations apply to all claims filed under the Federal Employees Health Benefits Program since January 1, 1975. They also apply to claims filed by annuitants and survivors.

NOAA EEO Officers Elected

The NOAA EEO Committee was formed to serve as an advisory body for the NOAA Administrator on Equal Employment Opportunity within NOAA. The NOAA EEO



Peter ("Donny") Jiron

Committee is made up of the Chairpersons and Vice-Chairpersons of the EEO Committees in NOAA's Major Line Components, the Office of Administration, the Office of the Administrator and Head-

quarters Staff Elements, and a representative of the NOAA Corps. Members of the Committee are elected in January and serve for one year. Election of officers occurs each June; and they assume office July 1. The following officers were elected for the period July 1, 1977 - June 30, 1978: Peter Jiron, Office of Administration, Chairperson; Elaine Chan, EDS, Vice-Chairperson; and Michael A. Hodges, EDS, Secretary.



Elaine Chan



Michael Hodges

AAP Set for Handicapped

Besides NOAA's Affirmative Action Plan (AAP) for EEO, there are also AAP's for the hiring, placement and advancement of handicapped persons, Vietnam-Era and disabled veterans. These AAP's were mandated by the Rehabilitation Act of 1973 (Public Law 93-112) and the Vietnam-Era Veteran's Readjustment Assistance Act of 1974 (Public Law 93-508). Although some progress has been made in these areas, many barriers still exist to fulfilling the requirements of the AAP's.

NOAA's plans for FY78 are to assess more effectively the present and projected employment opportunities for veterans and handicapped persons. Also, in line with current personnel management evaluations in NOAA, employment conditions which may impede employment

of the handicapped and veterans will be identified. Increased emphasis will be placed on activities to build up more field activity participation in these areas.

Advice and assistance under these plans can be obtained from Frank Christhlf on (301) 443-8247; counseling assistance may be obtained from Sue Balboa on 443-8105 in the Washington area. Field Personnel Officers will assist with program advice and guidance in NOAA field activities.

Employees requesting optional tax upon retirement should forward their requests to Finance Division, Personal Services Accounting Branch, Operations Section: AD 561, Rockville, Md. 20852, rather than AD 461 shown in the 6/10 edition of NOAA NEWS.

NOAA Personnel Division Lists Current Vacancies

Announcement No.	Position Title	Grade	MLC	Location	Issue Date	Closing Date
594-77	Electronics Engineer	GS-12	ERL	Boulder, Colo.	6/23/77	7/15/77
599-77	Geodesist	GS-13	NOS	Rockville, Md.	6/23/77	7/15/77
635-77	Contract Specialist	GS-11	NWS	Kansas City, Mo.	7/5/77	7/19/77
636-77	Meteorologist (Lead Forecaster)	GS-12	NWS	Milwaukee, Wisc.	7/5/77	7/19/77
637-77	Supervisory Meteorologist	GS-11	NWS	Neenah, Wisc.	7/5/77	7/19/77
588-77	Supervisory Cartographer (Photogrammetry)	GS-15	NOS	Rockville, Md.	7/5/77	7/26/77
621-77	Meteorological Technician	GS-9	NWS	Valdez, Alaska	7/5/77	7/26/77
622-77	Meteorologist (Fire Weather Forecaster)	GS-12	NWS	Boise, Idaho	7/5/77	7/26/77
623-77	Meteorologist (Forecaster)	GS-12	NWS	Great Falls, Montana	7/5/77	7/26/77
624-77	Meteorologist (Forecaster)	GS-12	NWS	Albuquerque, N.Mex.	7/5/77	7/26/77
625-77	Supply Technician	GS-7	NWS	Silver Spring, Md.	7/5/77	7/26/77
626-77	Electronics Engineer	GS-11	NWS	Silver Spring, Md.	7/5/77	7/26/77
627-77	Electronics Engineer	GS-11	NWS	Silver Spring, Md.	7/5/77	7/26/77
628-77	Secretary (Dictating Machine Transcriber)	GS-7	HDQS	Washington, D.C.	7/5/77	7/26/77
629-77	Supervisory Physical Scientist	GS-15	HDQS	Washington, D.C.	7/5/77	7/26/77
630-77	Fisheries Management Operations Officer	GS-14	NMFS	Juneau, Alaska	7/5/77	7/26/77
631-77	Systems Accountant	GS-13	HDQS	Rockville, Md.	7/5/77	7/26/77
632-77	Chemical Engineer	GS-14	HDQS	Rockville, Md.	7/5/77	7/26/77
633-77	Supervisory Geodesist	GS-13	NOS	Rockville, Md.	7/5/77	7/26/77
373-77	Hydrologist	GS-12	NWS	Silver Spring, Md.	9/12/77	9/26/77

CALENDAR OF EVENTS

- July 13-15
Washington, D.C. Federally Employed Women (FEW) National Convention, Sheraton Park Hotel, with seven workshops open on a first-come, first-served basis. (Contact: FEW, Inc. (NTP), National Press Bldg., Washington, D.C. 20045. For hotel reservations: Sheraton Park Hotel, 2660 Woodley Rd., Washington, D.C. 20005 (202) 265-2000.)
- Aug. 22-Sept. 3
Seattle, Wash. IUGG. Third General Scientific Assembly of IAGA and Second Special Assembly of IAMAP, to be held at the University of Washington. Room Reservations must be received by July 15 (Ms. Gloria Bookter, Lander Hall HL-10, University of Washington, Seattle, Wash. 98105). Registration fee due in full by July 22 (Meetings Registration, AGU, 1909 K St., NW, Wash., D.C. 20006).
- October 2-6
Mount Airy, Pa. Estuarine Research Federation Fourth Bicentennial International Conference. Theme "Estuarine Processes." (Contact: Jerome Williams, Oceanography Department, U.S. Naval Academy, Annapolis, Md. 21402.)
- October 17-19
Washington, D.C. American Shore and Beach Preservation Association Annual Meeting. (Contact: Jay Combe, U.S. Army Corps of Engineers, Coastal Engineering Research Center, Kingman Bldg., Ft. Belvoir, Va. 22060 (202) 325-7127.)
- October 17-19
Los Angeles, Calif. OCEANS 77, Bonaventure Hotel, Los Angeles, Calif. Third annual MTS/IEEE sponsored conference and exhibition. (Contact: Pat Messerly, OCEANS 77 Conference Coordinator, MTS Los Angeles Regional Section Office, 615 South Flower St., Suite 504, Los Angeles, Calif. 90017 (213) 620-1703.)
- October 18-21
Omaha, Nebr. AMS Severe Local Storms Conference. Tenth Annual conference including two sessions devoted to cross-disciplinary approach to forecast, dissemination, preparedness and public response. (Contact: Co-Chairmen Herbert S. Lieb, NWS Disaster Preparedness Staff, Gramax Bldg., Silver Spring, Md. 20910 (301) 427-8090, or H. Michael Mogil, NWSH Public Services Branch, Gramax Bldg., Silver Spring, Md. 20910 (301) 427-7677.)
- November 3-5
Seattle, Wash. Pacific Coasts Symposium and Third Annual Meeting of The Coastal Society, Washington Plaza Hotel, Seattle. (Contact: M.L. Schwartz, Dept. of Geology, Western Washington State College, Bellingham, Wash. 98225.)
- November 6-11
New Orleans, La. 4th Joint Conference on Sensing of Environmental Pollutants. (Contact: Dr. V.E. Derr, Program Chairperson, NOAA, Environmental Research Laboratories (R45x3), Boulder, Colo., 80302.)

OBITUARIES

Rene McCorn

Rene McCorn, Jr., 49, employed in the Property & Supply Branch, Riverdale, Md., died on June 14, 1977, at Arlington Hospital following a brief illness.

He was honorably discharged from the U.S. Army in 1952 and had been a Federal Government employee since 1953.

He is survived by his wife, Margaret L. McCorn, 4207 Mountain Rd., Haymarket, Va.

Ulmer S. Eden

Ulmer Spencer ("Bozo") Eden, 72, retired National Ocean Survey Boatswain's Mate and ship base worker at Atlantic Marine Center, died June 13, in Norfolk, Va.

He was born in Grand Cayman, Cayman Islands, West Indies. He retired from NOS in 1965, after 40 years' service.

He is survived by his wife, Treva Chason Eden, of 2400 Ambler Ave., Norfolk, Va.

NOTES ABOUT PEOPLE

Cdr. Charles H. Nixon, of Hopedale, Mass., is the new chief of the Operations Division, Atlantic Marine Center, Norfolk, Va.



Cdr. Charles H. Nixon

Nixon, who has seen service aboard six vessels of the NOAA fleet, including command of two of the ships, also has carried out assignments with geodetic and photogrammetric field parties of NOAA's National Ocean Survey, and as Port Captain to the Northeast Fisheries Center, Woods Hole, Mass.

James Churgin and Robert Gelfeld of EDS' National Oceanographic Data Center and Elizabeth Yeates of EDS' Environmental Science Information Center participated in the Special Libraries Association's 68th Annual Conference in New York City, on June 5-9.

James Churgin presented an invited paper on the Marine Environmental Data and Information (MEDI) system of UNESCO's Intergovernmental Oceanographic Commission.

Robert Gelfeld conducted a one-day seminar, "ENDEX - a NOAA Environmental Data Base."

Elizabeth Yeates presented a paper on "A Total Information Resource Concept for Oceanic Information."

Also participating was Michele Tetley, Office of Coastal Zone Management, who addressed the conference participants on "Regional Coastal Zone Information Centers: Concepts and Prototypes."

Dr. Richard H. Bennett, Research Oceanographer for NOAA's Atlantic Oceanographic and Meteorological Laboratories has been appointed to the Joint Oceanographic Institutions Deep Earth Sampling (JOIDES), Sedimentary Petrology and Physical Properties Advisory Panel.



Dr. Richard H. Bennett

Dr. Bennett, principal investigator for AOML's Marine Geotechnical Program, represented NOAA as a staff scientist aboard the Glomar Challenger during Leg 16 in 1971. His research included a detailed evaluation and report of the shipboard geotechnical program and the study of the mass physical properties of deep-sea sediments in the Panama Basin and in the Eastern Equatorial Pacific.



Robert B. Rollins, Associate Director of the National Ocean Survey's Office of Program Development and Management (right), congratulates Tillman M. Peck (left) who was recently selected for a one-year full-time university assignment to American University beginning Fall 1977. Mr. Peck, who is one of eight NOS personnel selected for university training, is a mathematician in the ADP Planning Branch of the Scientific Services Division. His field of study will be computer science.



CALIFORNIA TUNA SALAD

- | | |
|---|---|
| 2 cans (6 1/2 or 7 ounces each) tuna | 1/2 cup toasted blanched slivered almonds |
| 2 cups orange sections (approx. 2 medium-sized oranges) | 1 1/2 teaspoons curry powder (optional) |
| 1 avocado | 1/2 cup mayonnaise or salad dressing |
| 1 tablespoon lemon juice | Salad greens |
| 1 cup chopped celery | |

Drain tuna. Break into large pieces. Reserve 12 orange sections for garnish; cut remaining sections in half. Cut avocado in half lengthwise and remove seed. Peel and slice avocado; sprinkle with lemon juice to prevent discoloration. Reserve 6 slices avocado for garnish; cut remaining slices in fourths. Combine orange, avocado, celery, almonds, and tuna. Combine curry powder and mayonnaise. Pour over tuna mixture and blend lightly. Chill. Serve on salad greens. Garnish with orange sections and avocado slices. Makes 6 servings.

(Note: Additional fruits such as pineapple chunks and strawberries may be served, if desired.)

Tuna (Continued from page 1) with NMFS tags.

Vessel certificates issued for 1977 will be valid until returned to the Regional Director or until the vessel leaves the fishery. If ownership of the vessel changes, the new owner must obtain a new certificate for that vessel.

BEST FISH BUYS

According to the NMFS National Fishery Education Center in Chicago, the best fish buys for the next week or so are likely to be frozen precooked salad shrimp and canned tuna along the Northeast Seaboard; fresh whole croaker and spot in the Middle Atlantic States, including the D.C. area; fresh Spanish mackerel and mullet in the Southeast and along the Gulf Coast; fresh and frozen scallops and fresh cod fillets in the Midwest; fresh Pacific red snapper and fresh halibut chunks in the Northwest; and frozen king crab claws and fresh ocean perch fillets in the Southwest.



The only qualified net mender aboard the National Ocean Survey's ship Miller Freeman, Chief Boatswain Fisherman Alfonso Langstrand (left) was recently presented with a Special Achievement Award for his superior performance during the 1976 field season, which resulted in no operational downtime for the ship. Shown in a working atmosphere, Langstrand receives his award from Cdr. S.R. Petersen (right), the Miller Freeman's commanding officer.

NOS Slates University Training

In addition to Tillman M. Peck (pictured in this issue), other National Ocean Survey personnel selected for one-year full-time university assignments are:

Office of the Director: Walter G. Lawton (Electrical Engineering), George Washington U., Washington, D.C.; Office of National Geodetic Survey: Charles W. Challstrom (Geodetic Science), Ohio State U., Columbus, Ohio; Dennis G. Milbert (Geodetic Science), Ohio State U.,

Columbus, Ohio; Anna-Mary B. Miller (Computer Science), U. of Maryland, College Park, Md.; David J. Lehman (Geodetic Science), U. of New Brunswick, Canada; Office of Marine Surveys and Maps: Thomas P. Williams (Computer Systems Application), American U., Washington, D.C.; and from the Office of Marine Technology: Roger J. DeVivo (Systems/Mechanical Engineering), U. of Florida, Gainesville, Fla.



Participants in the Advanced Prediction Techniques Course, National Weather Service Hdqtrs. in Silver Spring, Md., Feb. 28-Mar. 11, 1977, were: Kneeling, left to right: Kenneth B. Seal, Bismarck, N.D.; Morris McCutchan, Forest Service; Robert Jirsek, NMC; Kiyoji Tomita, Honolulu, Hawaii; Joseph R. Morrell, San Francisco, Calif.; Clyde Stanley Hall, NWSH; Charles Chow, NWSH.

Seated, left to right: I. Randy Racer, Raleigh, N.C.; Armando L. Garza, San Juan, P.R.; Robert C. Haywood, Palmdale, Calif.; Louie G. Stein, Louisville, Ky.; David A. Gustin, Washington, D.C.; Robert Kelly, Columbia, S.C.; Hipolito R. Ramirez, New Orleans, La.; James R. Thompson, Cleveland, Ohio.

Standing, left to right: Arthur C. Carlson, Jr., Charleston, W. Va.; Bruce C. Renneke, Seattle, Wash.; William J. Alder, Salt Lake City, Ut.; James D. Belville, Lubbock, Tex.; Richard F. Freund, NWSH; Donn W. Erickson, Albuquerque, N. Mex.; John C. Davies, NOAA; Gregory P. Hooker, Cheyenne, Wyo.; Ronald S. Hamilton, Riverside, Calif.; David C. MacPherson, NESS; John T. Forsing, Topeka, Kans.; Bobby E. Pifer, NWSH; John D. Thomas, NESS; Robert P. Krebs, NWSH; Laurence G. Lee, Anchorage, Alaska; Clarence L. David, Kansas City, Mo.; Henry G. Resendez, San Antonio, Tex.; Gordon D. Thiel, Detroit, Mich.; Daniel L. Sala, Guam, L. Cdr. Milton E. Davis, Navy.

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