

JESSIE SMITH NOYES FELLOWSHIP PROGRAM

JEFFREY A. LESLIE, FIRST RECIPIENT

The Marine Sciences Research Center and the Stony Brook Foundation were recently awarded three Jessie Smith Noyes Fellowships for the support of outstanding graduate students enrolled in MSRC's graduate programs in coastal zone management, marine environmental sciences, and coastal oceanography. Fellowship applicants should have adequate preparation and demonstrate potential to pursue innovative and independent research on some critical environmental problems of the coastal zone. Candidates are invited to submit brief proposals designed to answer specific and significant environmental questions. Awards will be based primarily on an assessment of the significance of the proposed research, and of the candidate's ability to complete the research satisfactorily. Both pre-masters and pre-doctoral level students are eligible.

JEFFREY A. LESLIE was selected the first Jessie Smith Noyes Fellow. Mr. Leslie, son of Mr. and Mrs. Anthony F. Leslie of New City, New York, graduated from Hobart College (Geneva, New York) in 1974 with a B. S. in mathematics. He is in his second year of graduate study in our Marine Environmental Sciences Program, and is working closely with Professor ROBERT E. WILSON. Mr. Leslie's research should lead to an improvement in our ability to predict the movement of oil spilled in the coastal zone.



Executive Vice President T. A. Pond, and J. R. Schubel, Director of MSRC congratulate Jeffrey Leslie upon being named the first Jessie Smith Noyes Fellow.

A SPECIAL SYMPOSIUM

The Effects of Energy-Related Activities On the Atlantic Continental Shelf

MSRC co-sponsored, with the Energy Research and Development Administration, the Brookhaven National Laboratory, and the Marine Technology Society (New York Section), a special symposium entitled: The Effects of Energy Related Activities on the Atlantic Continental Shelf. The objectives of the symposium held at the Brookhaven National Laboratory in November were to review the biological, chemical, geological, and physical processes that characterize the Atlantic shelf and to assess the adequacy of our knowledge for the preparation of the Environmental Impact Statements that must precede initiation of energy-related activities--offshore oil drilling on the outer shelf, and siting of floating nuclear power plants on the inner shelf. J. R. SCHUBEL, Director of MSRC, was the convener of the session on Geological Processes and contributed a paper on the distribution and transportation of suspended sediment on the Atlantic continental shelf.

The Proceedings will be published this summer by the Brookhaven National Laboratory.

SERVICE

CHARLES WURSTER has accepted an invitation to serve on the Pesticide Policy Advisory Committee of the U.S. Environmental Protection Agency for a term beginning December 1975 and ending December 1978.

J. L. McHUGH is serving a three-year term on the Sea Grant Shellfish Advisory Commission, and for the past 18 months has been serving as Consultant to the Shellfish Management Advisory Commission of the Town of Islip. Dr. McHugh served as an interim member of the National Academy of Sciences Ocean Policy Committee Fisheries Subgroup, to review Administration and Congressional policies and programs for the 200 mile economic zone of extended jurisdiction, and has been reviewing for the past year the NOAA fishery research programs and non-fishery oceanography programs.

J. R. SCHUBEL will serve on the Ocean Policy and Marine Resource Development Council of the National Sea Grant Association.

PEOPLE AND MEETINGS

The third biennial International Estuarine Research Federation meeting was held in Galveston, Texas in October, 1975, and MSRC was well represented. Papers were presented by M. J. BOWMAN, H. H. CARTER, R. DAYAL, I. W. DUEDALL, J. L. MCHUGH, H. B. O'CONNORS, J. R. SCHUBEL, and P. K. WEYL. J. R. Schubel was convener of a session entitled Rehabilitation of Estuaries.

Whales and Whaling were the subjects of two lectures by J. L. MCHUGH given in the Interdisciplinary Program in Environmental Studies for students, faculty and townspeople at Stony Brook in November. In February Dr. McHugh presented a seminar at the Sandy Hook Laboratory on "Fisheries of the Middle Atlantic Bight," and in March he gave a Seminar in Oceanography at the Chesapeake Bay Institute and Department of Earth and Planetary Sciences of The Johns Hopkins University in Baltimore, entitled "Effects of foreign fishing on coastal marine fisheries of New York State."

AKIRA OKUBO attended the Symposium on Modeling of Transport Mechanisms in Oceans and Lakes held at the Canada Centre for Inland Waters in Burlington, Ontario in October. He presented a paper entitled "Interpretation of diffusion characteristics of oceans and lakes." Later in the month Dr. Okubo attended the Workshop on Physical Limnology and Lake-atmosphere Boundary Layer at the University of Michigan, and in December, the Workshop on Multidisciplinary Eastern Tropical Experiment (METREX) at the University of Washington in Seattle.

A Specialty Symposium on the Middle Atlantic Continental Shelf and New York Bight was held in New York City in November. JEFFREY PARKER, IVER DUEDALL, HAROLD O'CONNORS, ROBERT WILSON, and MALCOLM BOWMAN presented papers.

ORVILLE TERRY attended the First International Conference on Aquaculture Nutrition sponsored by the University of Delaware Sea Grant Program in cooperation with the U.S./Japan Aquaculture Panel in Lewes, Delaware in October. Later that month Dr. Terry attended a Workshop in Wareham, Mass., "Utilization of Thermal Effluent in Aquaculture: Identification of R.&D. Needs."

EDWARD CARPENTER was an invited outside reviewer at the IDOE Pollutant Transfer Workshop in Skidaway, Georgia, in January and gave seminars at North Carolina State University and the University of Miami. Dr. Carpenter will present a paper on "The *Trichodesmium* Story--The Only Marine Planktonic Blue-Green Alga," at a three-day intensive course on Blue-Green Algal Ecology and Management, July 14-16, 1976, University of California, Berkeley.

SOME RECENT PUBLICATIONS

BOWMAN, M. J. 1975. Pollution prediction model of Long Island Sound. In Civil Engineering in the Ocean/III. American Society of Civil Engineers, N. Y.

BOWMAN, M. J. 1976. The tides of the East River. J. Geophysical Res. 81(9).

CARPENTER, E. J. 1976. An explanation for marine *oscillatoria* (*Trichodesmium*): nitrogen fixation without heterocysts. Science 191:1278-1280.

DUEDALL, I., M. J. BOWMAN, H. O'CONNORS. 1975. Sewage sludge and ammonia concentrations in the New York Bight Apex. Estuarine and Coastal Marine Science 3:457-463.

DUEDALL, I., H. O'CONNORS, B. IRWIN. 1975. Fate of wastewater sludge in the New York Bight Apex. Jour. of Water Pollution Control Fed. 47:2702-2706.

HARDY, C. D., E. R. BAYLOR, P. O. MOSKOWITZ, A. ROBBINS. 1975. The prediction of oil spill movement in the ocean south of Nassau and Suffolk Counties, New York. MSRC Tech. Rept. 21.

HULSE, G. 1975. The plunket, a shipboard water quality monitoring system. MSRC Tech. Rept. 22.

JAY, D. A., and M. J. BOWMAN. 1975. The physical oceanography and water quality of New York Harbor and Western Long Island Sound. MSRC Tech. Rept. 23.

MCHUGH, J. L. 1976. The whale problem: a status report. A book review and perspective. Ocean Development 3(4).

OKUBO, A., C. C. EBBESMEYER, J. M. HELSETH, and A. S. ROBBINS. 1976. Reanalysis of the Great Lakes Drogue Studies Data. MSRC Spec. Rept. 2.

POWERS, C. D., R. G. ROWLAND, R. A. MICHAELS, N. S. FISHER, and C. F. WURSTER. 1975. The toxicity of DDE to a marine dinoflagellate. Environmental Pollution 9:253-262.

SCHUBEL, J. R. 1975. Suspended sediment in Chesapeake Bay. In Civil Engineering in the Ocean/III. American Society of Civil Engineers, N. Y.

SCHUBEL, J. R. 1975. Zoning, a rational approach to estuarine rehabilitation and management. MSRC Spec. Rept. 1.

SCHUBEL, J. R. 1976. Fine particles and water quality in the coastal marine environment. Institute of Electrical and Electronics Eng., Inc. U.S.A. Annals No. 75CH1004-1 34-2.

Requests for reprints should be addressed to MSRC, Attention Librarian. There is a small charge for some reports.

ONRUST ANNIVERSARY

On 19 April 1975, about 250 guests gathered at the Stony Brook Yacht Club for the christening of our new research vessel. Dr. JOHN TOLL, President of the State University of New York at Stony Brook, addressed the crowd from the deck of the boat. Mrs. DEBORAH TOLL, sponsor, broke an ampule of Copenhagen Standard Seawater across the bow of the fifty-five foot vessel, christening her the R/V ONRUST.

The ONRUST has a beam of 16 feet 7 inches, a draft of 5 feet 6 inches, and is powered by a 400 hp diesel engine. She cruises at 10 knots and has a range of about 750 miles. She is one of the best equipped research vessels of her size, and according to Captain STUEBE she is ideally suited for work in New York's coastal waters.

The historical significance of the name ONRUST dates back to 1614. The Dutch trader and explorer, Captain Adrian Block, and his crew were stranded on lower Manhattan Island when their vessel, TIGER, burned. During the winter of 1613-14 these men constructed what is believed to be the first decked vessel built by Europeans in North America. They named their 44 foot vessel ONRUST--Dutch for "restless."

The ONRUST was launched into upper New York Bay in April, 1614. Later that month she set sail to meet her first real challenge, the treacherous passage through Helle-gat in the East River. She sailed on to become what many believe to be the first European-built vessel to sail in Long Island Sound ('T Groot Baai) discovering the Housatonic and Thames Rivers, and even sailing up the Connecticut ('T Versch River) past the site of Hartford. The ONRUST continued on to Narragansett and Buzzard Bays, and Cape Cod. On the voyage, Captain Block immortalized his name by designating a small island, Block Island.

The name ONRUST is not only appropriate historically for the Center's new research vessel, but it also describes the spirit of restless inquiry that has always typified oceanographic research.

The ONRUST is available for charter (for research and instructional purposes) and interested parties should contact Mr. F. G. ROBERTS at (516) 246-6546 for information on charges and availability.



Mrs. Deborah Toll christens the R/V ONRUST.



SUSB President John Toll addresses the crowd from the R/V ONRUST.



NEW COURSES

During the week of 19-23 April 1976, MSRC will sponsor an intensive short course on SOME NEW DEVELOPMENTS IN COASTAL SEDIMENTATION (MAR.550, Section 2, one credit). Lectures will be given by Mr. FRITZ GORO (MSRC), Dr. ROBERT H. MEADE (U.S. Geological Survey, Denver, and MSRC), Dr. DONALD W. PRITCHARD (Chesapeake Bay Institute), Mr. MARK SILBERT (MSRC) and Dr. J. R. SCHUBEL (MSRC).

The course will meet daily and can be taken for credit or audit. Lecture topics will include: the sediment discharges of major rivers to the coastal environment; flocculation--myth or an important natural process?; are estuaries sources or sinks of suspended sediment to the Atlantic continental shelf; transport of sediments by wind waves; the distribution and transportation of suspended sediment on continental shelves; and a scientific photographer looks at fine-grained suspended matter.

For more information contact Mrs. JERI SCHOOF at (516) 246-7710.

THE MARINE ENVIRONMENT OF LONG ISLAND (CEB 576), 8-28 July 1976.

Mr. ARTHUR COOLEY, principal instructor and course coordinator, will be assisted by the staff of MSRC. The course is designed primarily to enrich the participant's knowledge of the biological, chemical, geological, and physical processes that characterize Long Island's marine environment. While the course is directed primarily at elementary and secondary school science teachers, it would be of interest to conservationists, planners, members of regulatory agencies, and interested and concerned lay persons.

Enrollment is limited and consent of the instructor is required. For more information contact Mrs. JUNE CHAPMAN at (516) 246-6546.

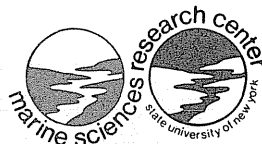
MSRC ASSOCIATES

The Marine Sciences Research Center invites you to become an MSRC Associate. For \$100 or more per year any individual or organization can become an MSRC Associate. All contributions are tax deductible and will be used to support the educational and research programs of the Center. At a time of fiscal exigencies within the State and a time of general cut-backs in research support, we need your assistance. Each year the Center will sponsor an open-house, and a get-acquainted cruise aboard the R/V ONRUST for all Associates. For additional information, contact F. G. ROBERTS, Associate Director, at (516) 246-6546.

Communications are welcomed and should be directed to: Mrs. JERI SCHOOF, Marine Sciences Research Center, State University of New York, Stony Brook, New York 11794.

SEMINAR SCHEDULE

- April
- 22 4:00 The Future of the Sound
Dr. M. GRANT GROSS, Chesapeake Bay Institute, The Johns Hopkins University
- 23 1:30 Basis and Development of a Water Quality Model of Westernport Bay, Australia
Dr. JON HINWOOD, Monash University and University of Melbourne, Australia, and University of Delaware
- 29 4:00 Planning for the Long Island Sound Shoreline
Mr. DEWITT DAVIES, Nassau-Suffolk Regional Planning Board
- May
- 6 4:00 Connecticut Yankee Atomic Power Plant - Effects on Anadromous Fishes
Dr. DANIEL MERRIMAN, Sears Foundation for Marine Research, Yale University
- 13 4:00 The Universal Estuarine Ichthyoplankton Community
Mr. WILLIAM DOVEL, Boyce Thompson Institute for Plant Research.
- 17 4:00 Physical Factors Affecting Plankton Patchiness
Dr. GORDON RILEY, Department of Oceanography, Dalhousie University.
- 25 4:00 Distribution of radioactive zinc and zinc cadmium and mercury in the Pacific Hake (*Merluccius Productus*) off the West Coast of the United States
Dr. JAN NAIDU, Brookhaven National Laboratory, and MSRC.



Stony Brook, New York 11794

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