

STATE UNIVERSITY OF NEW YORK AT STONY BROOK

Marine Sciences Research Center

Programs in Marine Environmental Sciences and Coastal Oceanography

Programs of Study Careers in research, consists of a rigoro of study consisting physical oceanogra examination before years of admission. The doctoral progra problems effectivel	e program in marine environmental sciences is designed to prepare students for effective management, environmental protection, and resource development of the coastal zone. It us interdisciplinary curriculum. Students must successfully complete an approved course of 30 graduate credits, including core courses in biological, chemical, geological, and phy. A research thesis is required, and students must pass a written comprehensive the thesis project is begun. All requirements for the M.S. must be completed within three m in coastal oceanography prepares students to formulate and attack coastal oceanographic y on theoretical and applied levels through interdisciplinary training in biological, I, and physical oceanography. A student's entire program is carefully tailored to his or ore of each program is an apprenticeship to one or several key faculty members. Students cy after completion of course work, a written comprehensive examination, demonstration foreign language, participation in oceanographic. All requirements for the Ph.D. must
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chemical, geologica her needs. At the c advance to candida of proficiency in a one semester of tea be satisfied within or program in whicl	seven years after completing 24 hours of graduate courses in the Stony Brook department the student is to receive the degree.
The faculty of the oceanography throu comes from many master's and doctor	e Center conducts a broad range of basic and applied research in all facets of coastal ighout much of the world. The focus of the programs is on the coastal ocean, and support federal and state agencies as well as from private foundations. Students at both the al degree levels are active participants in all phases of the Center's research.
Research Facilities The Marine Science equipped for most facilities on campu Harbor Laboratory Flax Pond salt mar salt marsh jointly 18-meter research ' small boats.	es Research Center has 4,500 square meters of laboratory and office space that is well analyses and includes excellent computing facilities. Access to the equipment and to is, at other S.U.N.Y. units, and at Brookhaven National Laboratory and Cold Spring is available by arrangement. The Center has a laboratory with aquarium facilities at the sh, approximately 7 kilometers from campus. The Center manages the 1-square-kilometer with the N.Y.S. Department of Environmental Conservation. The Center operates an yessel, the R/V Onrust, outfitted for oceanographic sampling, and maintains a fleet of
Financial Aid Various forms of assistantships carry traineeships provide for the calendar ye fellowships provide Work-study prograi Office. Federal and	financial aid are available through the Center. Graduate, teaching, and research stipends of \$5137 for the academic year and \$2400 for the summer. Sea Grant \$6250 per calendar year, and Jessie Smith Noyes fellowships carry a stipend of \$7700 ar. Inter-Campus Exchange fellowships carry a variable stipend, and Graduate Council \$5000 per academic year. All assistantships and fellowships carry a waiver of tuition. ns (maximum of \$2000 per academic year) are available through the Financial Aids state loans are also available.
Cost of Study New York State residen out-of-state residen \$12,50 per semeste \$250. Thesis bindin	sidents pay tuition of \$850 per semester full time or \$71 per credit part time. Tuition for ts is \$1092.50 per semester full time or \$91.50 per credit part time. A University fee of and an activity fee of \$10 per semester are also charged. Books cost approximately g is \$7.65 per copy.
Cost of Living The estimated livin months if the stude at approximately \$ accommodate two number of occupar There are optional also available off ca	g costs excluding tuition and fees will total approximately \$4100 to \$4300 for twelve ent is single and lives on campus. Furnished apartments for graduate students are available 120 per month per bed. Apartments have one, two, or three bedrooms; each bedroom can persons, and the price range is \$260 to \$720 per month per apartment (depending on the ts per apartment) and includes all utilities except telephone. Rental is for twelve months. board plans available on campus. A number of private homes, rooms, and apartments are mpus at a wide range of rental fees.
Student Group There are 73 stude parts of the United students. Approxim In the past ten yea research institution	ents enrolled in the M.S. program and 16 in the Ph.D. program. Students come from all States and throughout the world. The student body includes 25 women and 19 married lately 95 percent of the full-time students receive financial aid. rs, 92 students have received M.S. degrees, and virtually all are employed in oceanographic s, various federal, state, and local environmental protection and management units, and
The Community Stony Brook is 96 kilometers of pictu New York City are	ent prospects continue to look tavorable. kilometers east of Manhattan on the wooded North Shore of Long Island, within a few resque villages, harbors, and beaches. The cultural, scientific, and commercial resources of readily accessible by road and rail
The Center The Marine Scienc York. Situated on estuaries, lagoons, S.U.N.Y. graduate of	es Research Center is the oceanographic research center of the State University of New Long Island, it is ideally located for studies of diverse coastal environments, including salt marshes, barrier islands, and continental shelf waters. The Center offers the only legree programs in marine environmental sciences and coastal oceanography.
Two features that institutions are its members have tran resolution of impor	distinguish the Marine Sciences Research Center from other leading oceanographic clear focus on the coastal ocean and the effectiveness with which the Center's staff slated the results of their research and that of others into forms directly applicable to the tant societal problems.
Applying Admission requires physics, and geolog required. Application are available from t	a B.S. in basic science with introductory courses in other sciences (biology, chemistry, gy) and mathematics through calculus (B average). A minimum GRE score of 1200 is on deadlines are March 1 for the fall and October 1 for the spring. Application materials he Program Director.
Correspondence Program Director and Information Marine Sciences Re State University of Stony Brook, Long Telephone: (516) 2	search Center New York at Stony Brook Island, New York 11794 46-6546

THE FACULTY AND THEIR RESEARCH

- E. R. Baylor, Professor; Ph.D., Princeton, 1949. Surface chemistry, oil spills, airborne viruses. *M. B. Baylor, Professor; Ph.D., Illinois, 1941. Microbiology. H. J. Bokuniewicz, Assistant Professor; Ph.D., Yale, 1976. Estuarine transport and dispersal, coastal sedimentation.
- B. J. Boxman, Associate Professor; Ph.D., Saskatchewan, 1971. Descriptive and dynamical oceanography, modeling.
 B. H. Brinkhuis, Assistant Research Professor; Ph.D., S.U.N.Y. at Stony Brook, 1975. Primary productivity of phytoplankton. B. H. Brinkhuis, Assistant Research Professor; Ph.D., S.U.N.Y. at Stony Brook, 1975. Primary productivity of pr biogeochemistry of trace metals in marine plants.
 D. G. Capone, Assistant Research Professor; Ph.D., Miami, 1978. Microbial nutrient cycling, ecology.
 E. J. Carpenter, Associate Professor; Ph.D., North Carolina, 1969. Nitrogen cycling, plankton ecology.
 H. H. Carter, Professor; M.S., California, San Diego, 1948. Estuarine and coastal dynamics, turbulent diffusion.
 R. M. Cerrato, Assistant Research Professor; Ph.D., Yale, 1980. Benthic ecology, recolonization, community dynamics.
 *L. A. M. Chuecas, Professor; Ph.D., Liverpool, 1968. Chemical oceanography.
 *A. P. Cooley, Associate Professor; Ph.D., Userpool, 1965. Natural history of Long Island.
 M. J. Dagg, Assistant Research Professor; Ph.D., Washington, 1975. Zooplankton ecology, coastal ecosystems.
 *R. Dayal, Associate Professor; Ph.D., Dalhousie, 1975. Geochemistry, mineral-seawater interactions.
 I. W. Duedall, Associate Professor; Ph.D., Maimi, 1980. Invertebrate zoology, protozoology, gelatinous zooplankton.

- W. Duedall, Associate Professor; Ph.D., Dalhousie, 1973. Marine environmental chemistry, chemical oceanography.
 *L. Duguay, Assistant Professor; Ph.D., Miami, 1980. Invertebrate zoology, protozoology, gelatinous zooplankton.
 W. E. Esaias, Associate Professor; Ph.D., Oregon, 1973. Phytoplankton ecology and photobiology.
 *P. G. Falkowski, Assistant Professor; Ph.D., British Columbia, 1975. Marine phytoplankton ecology, phytoplankton physiology.
 *K. Gold, Lecturer; Ph.D., N.Y.U., 1962. Marine protozoan ecology, invertebrate zoology, coastal oceanography.
 *J. M. Goodman, Professor; M.S., Georgia Tech, 1959. Coastal zone planning, aquaculture.
 H. Herman, Professor (joint with Engineering and Applied Sciences); Ph.D., Northwestern, 1961. Ocean engineering, marine materials.
 *T. S. Hopking, Associate Professor; Ph.D., Wachington, 1971. Coastal current terruture, water mass analysis, air ago interaction. H. Herman, Professor (joint with Engineering and Applied Sciences); Ph.D., Northwestern, 1961. Ocean engineering, marine ma
 *T. S. Hopkins, Associate Professor; Ph.D., Washington, 1971. Coastal current structure, water mass analysis, air-sea interaction. B. Kinsman, Professor; Ph.D., Johns Hopkins, 1960. Waves and tides, estuaries. L. Koppelman, Professor; D.P.A., N.Y.U., 1968. Coastal zone management, regional planning, policy studies.
 P. P. Lapennas, Assistant Research Professor; Ph.D., Duke, 1973. Phytoplankton ecology.
 *I. Like, Professor; LL.B., Columbia, 1949. Environmental law.
 G. R. Lopez, Assistant Professor; Ph.D., S.U.N.Y. at Stony Brook, 1976. Marine benthic ecology.

- B. D. Lopez, Assistant Frofessor, Fh.D., Sto.N.T. at Stony Brook, 1976. Marine benthic ecology.
 R. E. Malouf, Assistant Professor; Ph.D., Oregon, 1977. Shellfish biology.
 *G. F. Mayer, Assistant Professor; Ph.D., Harvard, 1972. Pollution ecology, ichthyology, evolution and function of morphology.
 J. L. McHugh, Professor; Ph.D., U.C.L.A., 1950. Fishery oceanography and marine affairs, whaling.
 *R. H. Meade, Professor; Ph.D., Stanford, 1960. Coastal and fluvial sedimentation, groundwater.
 W. L. Meyers, Assistant Professor (icint with Earth and Space Sciences), Ph.D., Direct 4020. Content on the section of t

- W. J. Meyers, Assistant Professor (joint with Earth and Space Sciences); Ph.D., Rice, 1973. Carbonates, sedimentology.
 *J. R. Naidu, Associate Professor; Ph.D., Oregon, 1974. Radioecology, radionuclides in the environment.
 *J. S. O'Connor, Associate Professor; Ph.D., Rhode Island, 1965. Estuarine and coastal ecology, scientific synthesis. A. Okubo, Professor; Ph.D., Johns Hopkins, 1963. Ocean diffusion, animal dispersal, mathematical ecology.
 W. T. Peterson, Assistant Professor; Ph.D., Oregon, 1979. Coastal zooplankton dynamics, larval fish, marine copepods.
- D. W. Pritchard, Professor; Ph.D., California, San Diego, 1951. Estuarine and coastal dynamics, coastal zone management. *W. S. Reeburgh, Professor; Ph.D., Johns Hopkins, 1967. Marine geochemistry.
- O. A. Schaeffer, Professor (joint with Earth and Space Sciences); Ph.D., Harvard, 1946. Geochemistry, Junar studies.

 J. R. Schubel, Professor and Director; Ph.D., Johns Hopkins, 1968. Coastal sedimentation, coastal zone management.
 M. I. Scranton, Assistant Professor; Ph.D., MIT/Woods Hole, 1977. Marine geochemistry, seawater interactions.
 *S. SethuRaman, Associate Professor; Ph.D., Colorado, 1972. Air-sea interactions, meteorology.
 L. B. Slobodkin, Professor (joint with Ecology and Evolution); Ph.D., Yale, 1951. Theoretical ecology, marine ecology. L. B. Slobodkin, Professor (joint with Ecology and Evolution); Ph.D., Yale, 1951. Theoretical ecology, marine ecology.
*S. L. Smith, Assistant Professor; Ph.D., Duke, 1975. Plankton ecology, nutrient regeneration by zooplankton.
D. F. Squires, Professor; Ph.D., Cornell, 1955. Marine affairs and science policy.
*R. L. Swanson, Professor; Ph.D., Oregon, 1970. Physical oceanography, ocean dumping, coastal zone management.
O. W. Terry, Associate Research Professor; Ph.D., S.U.N.Y. at Stony Brook, 1970. Aquaculture, wetlands management.
*J. M. Vaughn, Associate Professor; Ph.D., New Hampshire, 1972. Viruses in aquatic environments.
*J. J. Walsh, Professor; Ph.D., Miami, 1969. Upwelling ecosystems, modeling of continental shelf ecosystems.
F. F. Y. Wang, Professor (joint with Engineering and Applied Sciences); Ph.D., Illinois, 1956. Ocean engineering.
P. K. Weyl Professor: Ph. D., Chicago, 1963. Coastal zone planning, physical oceanography.

- P. K. Wang, Professor (Joint With Engineering and Applied Sciences); Ph.D., Innois, 1950. Ocean engineering.
 P. K. Weyl, Professor; Ph.D., Chicago, 1953. Coastal zone planning, physical oceanography.
 *T. E. Whitledge, Assistant Professor; Ph.D., Washington, 1972. Nutrient regeneration, chemistry of seawater, ecosystems.
 R. E. Wilson, Associate Professor; Ph.D., Johns Hopkins, 1973. Estuarine and coastal ocean dynamics.
 P. M. J. Woodhead, Research Professor; B.S., Durham, 1963. Physiology and behavior of fish, coral reef ecology.
 C. F. Wurster, Associate Professor; Ph.D., Stanford, 1957. Effects of chlorinated hydrocarbons on phytoplankton communities.



View of two of MSRC's three buildings on Stony Brook's South Campus.



The R/V Onrust, a 55-foot research vessel designed specifically for coastal oceanographic research.

*Adjunct appointment