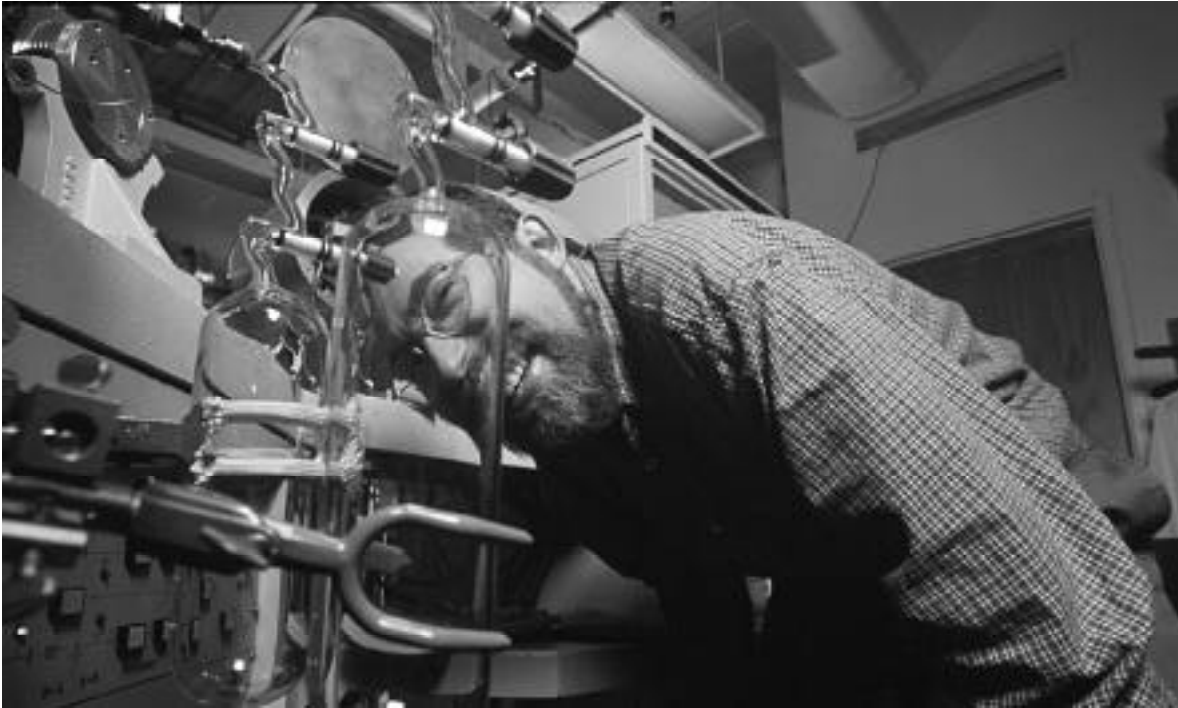




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## Marine Science and Technology

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The School for Marine Science and Technology (SMAST) at UMass Dartmouth conducts research and provides instruction in the interdisciplinary areas of marine science, oceanography, engineering and technology, and policy. SMAST is a major center for research and economic development for UMass Dartmouth and the University of Massachusetts.

SMAST's faculty and staff engage in basic and applied marine science and technology

investigations and interact with industries and public agencies on economic development and environmental and policy issues. While SMAST research tends to concentrate on the watersheds, embayments, and estuaries along the coastlines of Massachusetts, New England and the adjacent U.S., some of its programs are conducted in remote regions of the global oceans. SMAST is located on 2.6 acres of land in New Bedford along Clark's Cove, which empties into Buzzards Bay.

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## Marine Sciences and Technology

### Faculty and Fields of Interest

**Altabet, Mark A.** marine and environmental chemistry

**Brown, Wendell S. (program chairperson)** coastal physical oceanography, moored ocean observations, real time circulation modeling and data/information management system development

**Chen, Changshen** modeling and observational exploration of coastal ocean circulation, oceanic frontal processes, turbulent mixing/bottom boundary layer dynamics, chaotic mixing, western boundary currents, internal waves and tides, and biological/physical interaction

**Goodman, Louis** physical oceanography, ocean internal waves, turbulence and mixing, bottom and surface mixed layers; ocean acoustics

**Holland, Daniel** natural re-source economics and fishery management

**Howes, Brian** estuarine and embayment nutrient cycling and modeling; saltwater and freshwater wetland, lake, embayment management and restoration

**Rothschild, Brian (director, School for Marine Science and Technology)** ocean ecosystems: marine fish population dynamics, models of plankton dynamics and interactions

**Stokesbury, Kevin** shellfisheries including scallop observations and life history studies

**Sundermeyer, Miles** dispersion and transport processes, numerical modeling of mixing and stirring, numerical modeling of physical and biological interactions

**Faculty with SMAST Joint Appointments**  
Primary Departments

**Bisagni, James**  
Physics

**Buck, John R.**  
Electrical and Computer Engineering

**Fain, Gilbert**  
Electrical and Computer Engineering

**Georgianna, Daniel L.**  
Economics

**Gangopadhyay, Avijit**  
Physics

**O'Connor, Nancy J.**  
Biology

**Singh, Bal-Ram**  
Chemistry

**Tandon, Amit**  
Physics

**Turner, Jefferson**  
Biology

### Programs

*Final academic program approvals are anticipated shortly for MS and PhD degree programs in Marine Science and Technology.*

Graduate students who enroll in the School for Marine Science and Technology (SMAST) at UMass Dartmouth will have access to MS and PhD degrees in Marine Sciences and Technology, which are proposed to be offered through an innovative and nontraditional structure, the Five-Campus Intercampus Graduate School of Marine Sciences and Technology (IGS) of the University of Massachusetts.

The IGS faculty is to consist of faculty from each of the five campuses—UMass Amherst, UMass Boston, UMass Dartmouth, UMass Lowell, and UMass Worcester. The IGS structure will serve as an administrative umbrella for the five campus faculty, who have diverse teaching and research interests in the marine sciences and associated technologies. Dr. Brian Rothschild of UMass Dartmouth serves as the IGS Dean.

This new program will offer students advanced academic studies and research across a wide range of specializations.

At UMass Dartmouth, the administrative home of the future IGS program is our School for Marine Science and Technology (SMAST), headed by Dr. Brian Rothschild as Director. Its Program Chairperson is Dr. Wendell S. Brown.

Please address inquiries to

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