
Marine Sciences and Technology

Faculty and Fields of Interest

Altabet, Mark A.

Associate Professor. PhD Harvard University, BS State University of New York at Stony Brook. *Specializations:* Marine and environmental chemistry.

Brown, Wendell S. (Chairperson)

Professor. PhD Massachusetts Institute of Technology, MS, BS Brown University. *Specializations:* Coastal physical oceanography, moored ocean observations, real time circulation modeling and data/information management system development.

Chen, Changshen

Professor. PhD, MS Massachusetts Institute of Technology/Woods Hole Oceanographic Institution, MS, BS Ocean University of Qingdao, China. *Specializations:* 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

Professor. PhD, MS, BS Drexel University. *Specializations:* physical oceanography, ocean internal waves, turbulence and mixing, bottom and surface mixed layers; ocean acoustics.

Holland, Daniel

Assistant Professor. PhD University of Rhode Island, MS University of Illinois, BA University of Utah. *Specializations:* Natural resource economics and fishery management.

Howes, Brian

Professor. PhD, MA Boston University, BA Rutgers University. *Specializations:* 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) Professor. PhD Cornell University. *Specialization:* Ocean ecosystems; *Current research:* Marine fish population dynamics, models of plankton dynamics and interactions.

Stokesbury, Kevin

Assistant Professor. PhD Université Laval, Quebec, MSc, BSc, Acadia University. *Specializations:* Shellfisheries including scallop observations and life history studies.

Sundermeyer, Miles

Assistant Professor. PhD, ScM Massachusetts Institute of Technology/Woods Hole Oceanographic Institution, BA University of California Santa Cruz. *Specializations:* Dispersion and transport processes, numerical modeling of mixing and stirring, numerical modeling of physical and biological interactions.

Faculty with SMAST Joint Appointments Primary Department

Bisagni, James Physics

Buck, John R. Electrical and Computer Engineering

O'Connor, Nancy J. Biology

Fain, Gilbert Electrical and Computer Engineering

Georgianna, Daniel L. Economics

Gangopadhyay, Avijit Physics

Singh, Bal-Ram Chemistry

Tandon, Amit Physics

Turner, Jefferson Biology

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 a 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. SMAST offers interdisciplinary programs in the areas of marine science, oceanography, engineering and technology, and policy. Its Program Chairperson is Dr. Wendell S. Brown.

Contacts

As soon as final approvals are given, the IGS will accept applicants to the program. Those interested in applying may make inquiries at each campus of UMass.

Please address inquiries at UMass Dartmouth to

Dr. Joseph Deck
Deputy Director
School for Marine Sciences and Technology
508 999-8193
jdeck@umassd.edu

Dr. Wendell S. Brown
Chairperson
School for Marine Sciences and Technology
508 910-6395
wbrown@umassd.edu

University of Massachusetts Dartmouth
285 Old Westport Road
North Dartmouth, MA 02747-2300

In addition to teaching, SMAST is a major center for research and economic development for UMass Dartmouth and the University of Massachusetts. Its 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 our programs are conducted in remote regions of the global ocean.

SMAST is located on 2.6 acres of land in New Bedford along Clark's Cove, which empties into Buzzards Bay. A description of the facilities and research program at SMAST is given in the chapter on "Graduate Opportunities at UMass Dartmouth."