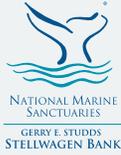




THE DIVISION OF WORKFORCE DEVELOPMENT AND COMMUNITY EDUCATION

## Fall 2010 ~ SCITUATE MARINE CAREER SERIES:

Presented by a Partnership of: Stellwagen Bank National Marine Sanctuary, Massasoit Community College and the Scituate Marine and Environmental Education Alliance



### Location

**Stellwagen Bank National Marine Sanctuary, Scituate, Massachusetts**

**Tuesdays, November 2, 9, 16 and 23 ~ 6:30 p.m. - 8:30 p.m.**

If you are fascinated with the oceans, marine life, or simply love being out on the water, you will be interested in this special survey course in our Marine Technology and Technician Series. Presenters will provide an overview of marine technology applications in their respective fields and offer perspectives on present trends and future directions in marine research, monitoring and exploration. They will discuss various career opportunities in these marine technology fields and the levels of training and education needed to successfully enter the job market. Come experience marine technology and technician careers in the marine industry.

### Marine Careers: Much More Than You Think November 2, 2010

**Presented by:** Marc Simmons, Biology Professor, Massasoit Community College

Often when people first think of careers in the marine sciences, they think of working with sharks or dolphins or some other group of marine animals. However, the realm of marine-related careers is quite large and encompasses many more disciplines and opportunities. The purpose of this session is to introduce the variety of careers available in marine science. These will include applied and academic careers in ocean engineering and the marine sciences, the wide variety of vocational careers in the marine trades, and a sample of the numerous marine-related careers including archaeology, education, enforcement, fine-arts, resource management, and veterinary medicine.

### Archaeology of the Deep: Lost Shipwrecks and Maritime Technology November 9, 2010

**Presented by:** Deborah Marx and Matthew Lawrence, Maritime Archaeologists at Stellwagen Bank National Marine Sanctuary

Stellwagen Bank National Marine Sanctuary is responsible for the inventory, assessment, protection and interpretation of its maritime heritage resources, such as shipwrecks. Sanctuary maritime archaeologists will highlight the historic ships sunk in the sanctuary, such as the steamship Portland lost with all hands in 1898, as well as explain the tools used to locate and document shipwrecks in water depths ranging from 65 to over 500 feet. Discussion will focus on SCUBA diving and remote sensing technologies such as side scan sonar, multi-beam sonar, magnetometers, remotely operated vehicles (ROVs) and autonomous underwater vehicles (AUVs).

— OVER —

**Registration is FREE!**

**To reserve a seat in these classes, please fill out the form below and send it ASAP to the address listed on back.**



#### "Fall 2010 Scituate Marine Career Series" Sign-up Form

Marine Careers: Much More Than You Think

Enforcing the Law, Ensuring Our Safety

Archaeology of the Deep: Lost Shipwrecks & Marine Technology

Tagging Whales, Recording Sounds

ALL FOUR CLASSES

Last Name

First

Initial

Street Address

City

State

ZipCode

Phone Number

Email

## Enforcing the Law, Ensuring our Safety: Missions of the Coast Guard and NOAA OLE November 16, 2010

**Presented by:** Todd Nickerson, Special Agent, NOAA Office of Law Enforcement and  
Mark Liffers, Flotilla Commander, Scituate 12-8, US Coast Guard Auxiliary

The waters in and around the sanctuary are busy places, with numerous vessels transiting the area for a wide variety of purposes. It is the job of the U.S. Coast Guard and the NOAA Office of Law Enforcement to ensure that these federal waters are safe and that laws are enforced. In this session we will look at the various missions undertaken by these two agencies – missions that encompass fisheries enforcement, pollution containment and cleanup, search and rescue, immigration and drug enforcement, and commercial vessel licensing and safety. We will look at what it takes to become a member of one of these important enforcement teams.

## Tagging Whales, Recording Sounds and Deciphering All That Data November 23, 2010

**Presented by:** Michael Thompson, GIS Analyst, Stellwagen Bank National Marine Sanctuary

The study of whales now entails methods and technologies that were non-existent just a decade ago. Traditional field observations have gone high tech, and analyses are giving us unprecedented insights into the underwater world of whales. The advent of digital acoustic tags, which use suction cups for attachment, provide a non-invasive way to collect large amounts of data. Acoustic recording devices attached to buoys in shipping lanes and throughout the sanctuary provide information about the presence of whales. Geographic Information System (GIS) and other new software programs visualize these data for better understanding. In this session, we will look at results from recent tagging cruises and other research projects, and highlight some of the ground-breaking findings from these studies.

### ***Directions to Stellwagen Bank National Sanctuary***

**From Rhode Island:** Take Route 95 North to Route 128. Go South on Route 128 to Route 3 South (to South Shore and Cape Cod). Take Exit 13 (Routes 53 and 123 East). When you get off the exit, take Route 53 North. Follow about 1/4 mile to the intersection of Route 123. Turn right onto Rt. 123 East and follow through Norwell to Scituate and Route 3A. At the intersection of Route 3A (traffic lights) go straight across and bear right. Go straight at the stop sign. Continue onto The Driftway. (See below for more directions.)

**From Cape Cod:** Choose best route to the Sagamore Rotary and take Route 3 North to Exit 12 Marshfield/Route 139. Turn onto Route 139 East. Follow about 1/2 mile to the traffic light by the Marshfield School Complex. Turn left and follow to Route 3A. Take a left onto Route 3A North to the second traffic light. Just before the light, take a right and then another hard right (almost a U-turn) onto the Driftway. (See below for more directions.)

**From North:** Take Route 93/Southeast Expressway South to Route 3 South. Follow to Exit 13 and take Route 53 North. Follow about 1/4 mile to the intersection of Route 123. Turn right onto Route 123 East and follow through Norwell to Scituate and Route 3A. At the intersection of Route 3A (traffic lights), go straight across and bear right, to the stop sign. Continue across onto The Driftway. (See below for more directions.)

**From the Driftway:** Stay on this main paved road (its name changes to New Kent Road and the "Driftway" drifts off as a small dirt road). The paved road will take you past the Town Landfill and a Golf Course on the left and a salt marsh on the right to Scituate Harbor. At the stop sign (St. Mary's church on left, parish center on the right) turn right onto Edward Foster Road. Follow over a small bridge and left at the intersection. Take your next left (this is still Edward Foster Road) and go past a boatyard (on the left), a beach (on the right) and up another hill. The sanctuary headquarters is the large white building at the top of the hill (on the corner of Sunset Road).

**Parking:** Turn left onto Sunset Rd. to the parking area beyond the SBNMS Meeting Annex building. You may take any available space, but try to pull in as far as possible to allow for double or triple parking.

**Stellwagen Bank National Sanctuary  
Meeting Annex, 175 Edward Foster Road  
Scituate, MA 02066**

FOR MORE INFORMATION CALL THE DIVISION OF WORKFORCE DEVELOPMENT & COMMUNITY EDUCATION AT:

508.588.9100 x1509 OR VISIT OUR WEBSITE AT [WWW.MASSASOIT.MASS.EDU](http://WWW.MASSASOIT.MASS.EDU)

ONE MASSASOIT BOULEVARD, BROCKTON, MA 02302



## ***"Fall 2010 Scituate Marine Career Series"*** **Sign-up Form**

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Massasoit Community College  
**Attn: Diane Bennett**  
One Massasoit Boulevard  
Brockton, MA 02302