



Ocean Exploration: A fascinating and fun history of people, notable expeditions, instrumentation and technology use in research, sampling and data collection

NEW COURSE! This course is an overview of the use of various types of oceanographic instrumentation and equipment used in scientific experiments, exploration and data collection. We will become familiar with some notable - and obscure - ocean expeditions and research programs from the 1800s to the present. The course also covers special challenges involved in working in the marine environment including specialized equipment and at-sea operations. In addition, we will learn about historic research vessels, submarines, robotic vehicles including ASVs, AUVs, ROVs, gliders and tow bodies for collection of data, imagery and samples. Many examples of the latest technology have local connections. Cape Cod and Southeastern Massachusetts are home to dozens of world-leading research and educational organizations and companies that have had pivotal roles in exploration and the development of ocean technology. Students will become familiar with the many opportunities in ocean technology and discover pathways to further study, internships, jobs and careers in the ocean sciences, exploration or ocean technology sectors.

Format: 4 evening class meetings.

Dates: October 4, 11, 18, 25 at 6:00 – 9:00 p.m.

Instructor Bio: C. Eben Franks has more than 45 years of experience as a sailor, sea-going technician, geological engineer, geochemist, marine science educator, ROV pilot, adventurer and ocean explorer. Between 1981 and 2002, he was manager of the Woods Hole Oceanographic Institution's Stable Isotope Paleoclimate lab. During that time, he personally collected over 500 deep sea sediment cores ranging in length from a few inches to more than 100 feet. In 2002, Eben collected the longest sediment core ever taken in the Arctic, more than 65 feet. Since beginning his sea-going career at Woods Hole Oceanographic Institution in 1971, Eben has spent more than 8 1/2 years at sea on numerous research vessels worldwide. Since graduating from the University of Miami with a degree in Geology in 1977, he has visited 25 countries and participated in more than 40 major expeditions from the Equator to high latitudes studying climate change, geophysics, physical oceanography, marine geology, marine biology, underwater archeology and deep ocean minerals exploration.

Registration Fee: \$149

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