



Sea Secrets

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Earth, the blue planet, is shaped and defined by oceanic processes—above and below the water. Oceans cover two-thirds of our planet's surface;

Yet much about them remains a mystery.

We invite you to meet distinguished scientists and explorers, and to learn more about our blue planet—in a series of evening programs specifically designed for the South Florida non-scientific community.

Programs will take place in the Rosenstiel School Auditorium, 4600 Rickenbacker Causeway, Virginia Key, beginning with a reception at 5:30 p.m., followed by the lecture at 6:15 p.m. All events are free and open to the public; however, seating is limited. For further information, Please call 305-421-4061.

PRESENTED BY
THE ROSENSTIEL SCHOOL
OF MARINE AND
ATMOSPHERIC SCIENCE

AND

THE OCEAN RESEARCH AND
EDUCATION FOUNDATION

WEDNESDAY DECEMBER 8, 2004

Sea Turtle Navigation: Unraveling the Mystery

Dr. Kenneth J. Lohmann
Professor of Biology, University of North Carolina
at Chapel Hill

The long-distance migrations of sea turtles involve some of the most extraordinary feats of orientation and navigation in the animal kingdom. How sea turtles find their way across the sea's vast expanses has been an enduring mystery for many years. During the past decade, however, research has revealed that the remarkable navigational skills of sea turtles are based at least partly on several unusual and previously unknown sensory abilities. Dr. Kenneth Lohmann reveals just what it takes to navigate the sea's unmarked highways and what researchers are just now revealing about the amazing orienteering skills of the sea turtle.

THURSDAY, JANUARY 20, 2005

A Tall Tale from Maine: Are lobsters really doing better than ever before?

Dr. Robert Steneck
Professor, School of Marine Sciences, Pew Fellow
in Marine Conservation, University of Maine

Up yonder in Maine it seems the lobster catch is better than ever before and in New England that means high prices, working fishermen, and loads of those clawed delicacies. But because they rely very heavily on just one species, it is putting the coastal communities and their long heritage of fishing at risk. Dr. Bob Steneck, a lobster expert, will consider why lobsters are so abundant today and what future prospects and/or risks may lie ahead. He'll also explore what changes humans have wrought within the coastal marine ecosystem and discuss what may be needed to ensure that diners will have lobster and other seafood on the menu in the years to come.

WEDNESDAY, FEBRUARY 16, 2005

In the Heart of the Sea: The Tragedy of the Whaleship Essex

Nathaniel Philbrick
Director, Egan Institute of Maritime Studies
Nantucket, Massachusetts

Prize-winning author Nathaniel Philbrick will tell the true story of the sinking of a Nantucket whaleship by a sperm whale in 1820. Not only did the incident inspire the climax of Herman Melville's *Moby-Dick*, it marked the beginning of one of the most harrowing survival tales of all time. Come to hear the astonishing account of 20 men who set off in three small boats with minimal food and water on a three month odyssey across 3000 miles of open ocean.

WEDNESDAY MARCH 16, 2005

Mapping the Unseen: High Tech Imaging of the Seafloor

Dr. Larry Mayer
Center for Coastal and Ocean Mapping
University of New Hampshire

From a simple lead weight on a rope to new high-tech three-dimensional animations, mapping of the seafloor has come a very long way. Join us as world renowned Dr. Larry Mayer takes us on an unbelievable journey from the early efforts to chart what lays at the ocean's bottom to today's spectacular visualizations using the latest in undersea mapping technology. Not only can we now chart previously unknown underwater volcanoes and deep-sea fissures, but scientists are also revealing unbelievable views of the seafloor, shipwrecks, and even the creatures that live there. If you thought charts have improved, wait till you see the images Dr. Mayer will unveil!

WEDNESDAY, APRIL 13, 2005

Surprising Marine Life of the Seafloor's Sand, Muck, and Rubble

Paul Humann
Underwater Photographer

Divers and snorkelers are drawn to coral reefs because of their abundance of colorful life. Most wouldn't think to venture into the sand, muck, and rubble of the seafloor to observe stunning color or odd animal behaviors. But that's just what speaker Paul Humann has done. Known for his impressive and spectacular undersea photographs and guides, he'll take the audience "muck diving" around the world to see some of the sea's most wondrous and intriguing animals. From the ritual dances and fin flares of undersea mating to impressive color changes for camouflage or to entice the opposite sex, it's sure to be a surprising journey and one you don't want to miss.

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Exploring Our Oceans 2004-2005

UNIVERSITY OF MIAMI
ROSENSTIEL SCHOOL OF MARINE
AND ATMOSPHERIC SCIENCE

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THE OCEAN RESEARCH AND
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Advancement Office
Rosenstiel School of Marine and Atmospheric Science
4600 Rickenbacker Causeway
Miami, Florida 33149-1098

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