Sea Secrets
Exploring Our Oceans 2010

PRESENTED BY:

UNIVERSITY OF MIAMI
ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE

THE OCEAN RESEARCH AND EDUCATION FOUNDATION

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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 designed for the South Florida non-scientific community.

Programs take place in the Rosenstiel School auditorium, 4600 Rickenbacker Causeway, Virginia Key, beginning with a reception at 5:30 p.m., followed by a lecture at 6:00 p.m. All events are free and open to the public; however, seating is limited. For further information, please call 305-421-4207.

**WEDNESDAY, JANUARY 13, 2010**
**VOYAGES OF MARINE VOYEURISM**
Ned and Ana de Loach

Sex is the engine of natural selection. From the curious courtship rituals of frogfishes, jobbers and flasher wrasses to mass spawning aggregations of Nassau grouper, join Ned and Anna de Loach, co-authors with Paul Humann of eight marine life field guides. The team has spent the past two decades capturing the portraits and behaviors of underwater creatures on film and video. Their dazzling collection reveals – in many cases for the first time – some of the most dramatic reproductive strategies in the animal kingdom. Their work includes the mating antics of invertebrates like the blue ringed and wunderpus octopuses, and flamboyant cuttlefish, as well as many additional rare sights from the sea.

**WEDNESDAY, FEBRUARY 17, 2010**
**CRUSTACEAN FASCINATION**
Trevor Corson

Join us for an entertaining and educational evening with acclaimed author Trevor Corson, whose bestseller *The Secret Life of Lobsters* was named a ‘Best Nature Book of the Year’ by USA Today and Discover magazine. Trevor spent two years working as a commercial lobster fisherman in Maine before chasing a team of renegade lobster scientists around New England for a year to write his book. He will share his insights into the hilarious undersea antics of lobsters, the rugged lives of the fishermen who catch them, and a rare conservation success story where fishermen and scientists collaborated to protect this important resource in an age of vanishing seafood. A guest judge on the Food Network’s hit TV show “Iron Chef America” and a regular guest on NPR, Trevor is also the author of *The Story of Sushi: An Unlikely Saga of Raw Fish and Rice*, and will be signing copies of his books after the talk.

**WEDNESDAY, MARCH 17, 2010**
**TAGGING & TRACKING: A WHALE OF A TALE**
John Calambokidis

Blue whales are the largest animals that have ever lived on the planet and they were almost driven to extinction by whalers. Now, new studies are revealing secrets of blue and humpback whale migrations and underwater behavior. John Calambokidis, a Research Biologist with Cascadia Research, has been studying these marine creatures for more than 20 years. In 2009, his research on blue whales was featured in National Geographic magazine, as well as in a 2-hour special on the National Geographic Channel. Using new tags attached with suction cups, his research has provided a unique view into the underwater lives of these giants and also some of the threats they face. In addition to photographs, John will show exciting footage of blue whales feeding, taken from the perspective of a blue whale.

**WEDNESDAY, APRIL 7, 2010**
**ANGLING FOR CONSERVATION**
Mark Sosin

Fish live in a watery parallel universe, unfamiliar to most humans. Understanding them and their habits, especially when trying to catch them requires great deal of knowledge. Mark Sosin has spent decades as a fish watcher and angler, teaching a generation of fishermen the tactics, tackle, and the techniques of sustainable marine angling. As executive producer and host of “Mark Sosin’s Saltwater Journal” broadcast on Fox Sports, Armed Forces Television Network, and MyOutdoorTV.com, he has become one of America’s most well recognized fishing authorities. Mark will discuss his award-winning career, as well as his recent book, *Mark Sosin: A Sportman’s Memoir*.

**WEDNESDAY, MAY 26, 2010**
**HURRICANE SCIENCE UNLEASHED**

The scientists working at the Rosenstiel School have built a reputation of excellence in hurricane science. As the 2010 Atlantic hurricane season approaches we have asked four of them to share their insights and discuss their specialties during a panel discussion. Dr. **Lynn ‘Nick’ Shay** will speak about oceanic ‘fuel injectors,’ the sea surface temperature and other atmospheric variables that impact the intensity of hurricanes. Dr. **David Nolan** will uncover how hurricane winds change in shape – beginning as a tight, circular vortex over the ocean, then shifts into a lopsided wind field over land. Understanding these changes can help explain disparities between people’s expectations of hurricane damage and what really occurs. Dr. **Brian Soden** will discuss the ongoing debate about whether global warming will affect hurricane activity and how new theories, models and observations are helping us to better understand the cause of past changes in hurricane activity and better predict what we can expect in the future. Dr. **Shuyi Chen** will show how computer modeling has led to forecasting hurricane impacts and their socioeconomic consequences.

To support the exciting scientific research at the Rosenstiel School, please visit us at: [http://www.rsmas.miami.edu/giving](http://www.rsmas.miami.edu/giving)