Mote’s Mission

The advancement of marine and environmental sciences through scientific research, education and public outreach, leading to new discoveries, revitalization and sustainability of our oceans and greater public understanding of our marine resources.
Dear Friends...

As I close out my term as Chairman of Mote Marine Laboratory’s Board of Trustees, I am reminded of all the progress we have made in just the last two years. It has been my pleasure to support this great institution of marine research, knowing that we are building upon 60 years of historical accomplishments made by those who came before us.

Mote’s many accomplishments in marine science, public outreach, and education would not be possible without the strong support of the community — our members, volunteers, Board Members and those who make philanthropic donations that help fund the important research programs that Mote is undertaking.

This impressive commitment to Mote is in itself a testament to the organization’s mission and proof that you understand the urgent need to further protect our oceans for today and for tomorrow.

During my time as Chairman of the Board, I have also been honored to be part of ensuring a successful leadership transition that is actively working to build a strong and stable foundation for the organization’s next 60 years of marine research. I am grateful for your continued support of this exceptional institution.

Thank you for all you do.

Sincerely,

Eugene H. Beckstein
Chairman, Board of Trustees
Dear Friends...

I am pleased to have this opportunity to present to you the 2014 Annual Report of Mote Marine Laboratory and Aquarium. There have been so many outstanding accomplishments by our dedicated Mote staff that it is impossible to share all of them with you in these few pages. However, it is my hope that this report provides an inspiring overview of the exciting work we tirelessly undertake in response to the urgent needs and significant threats that our oceans are facing.

This report also offers us an opportunity to demonstrate the significant advances we have made in achieving the goals outlined in our 2020 Vision & Strategic Plan, the guiding road map for our continued and future success. These goals are for Mote to:

- Increase our ability to conduct world-class research with an emphasis on marine conservation and sustainable use;
- Ensure the long-term prosperity of our research enterprise through focused next-generation staff recruitment and professional development;
- Translate and transfer our science and technology for the betterment of society and the marine environment;
- Provide continued public service to our communities.

In 2014, we added three doctorate-level researchers to our research team through the Mote Postdoctoral Fellowship Program. These young researchers bring with them a new and energetic scientific spark. We look forward to one day helping them to take their places as leaders in marine research.

Our research staff continued to be innovators in diverse fields of marine science, publishing more than 70 articles in peer-reviewed journals and more than 100 technical reports, sharing their latest findings as part of Mote’s efforts to advance science and the understanding of the health of our oceans and the ways we may conserve our natural resources. By bringing together the best and brightest minds for inquiry, discovery, innovation, teaching and policy development, I know that Mote will continue to expand our impact as one of the most creative and fruitful research enterprises in the world.

Through the years, Mote has distinguished itself through the seamless integration of its diverse research enterprise with education, public outreach and public policy programs. In 2014, Mote Aquarium’s staff taught more than 300,000 visitors to become better stewards of our oceans and the animals that live in them while our education programs served 25,218 people of all ages, with our traveling exhibits and digital learning programs reaching countless others. We also hosted 209 college interns and our dedicated volunteers contributed 217,376 hours of service.

Mote is stronger than ever now as we are about to begin our 60th anniversary in 2015. We are eager to embrace new opportunities to address the grand challenges facing our oceans and shed light on new discoveries that will help to transform our world for the better.

Sincerely,

Dr. Michael P. Crosby
President & CEO
Honors

International Society Honors Shark Researcher

The American Elasmobranch Society (AES) presented its Distinguished Fellow Award to Mote scientist Dr. Carl Luer, who has been studying the disease-fighting traits of sharks and rays to support the quest for better human medical care since he joined the Lab’s staff in 1979.

AES is the international-level, professional society for those who study elasmobranchs — sharks and their relatives the skates, rays, guitarfish and sawfish. Members include college and university faculty and students, scientific staff at government agencies and museums, conservation biologists, biologists at public aquariums throughout the world and scientists at independent marine research institutions, such as Mote.

The AES Distinguished Fellow Award is presented to a member following a nomination and review process that takes several months. The award recognizes career accomplishments that have contributed significantly to the knowledge and understanding of sharks and their relatives. Including Luer, only 11 people have ever received the award during the Society’s 30-year existence, including Mote founder, Dr. Eugenie Clark, along with two of her fellow history-makers at Mote: Dr. Perry Gilbert and Stewart Springer.

Mote Intern Alumnus Wins National Conservation Award

Sean Russell, a rising star in marine conservation and outreach, received a national Brower Youth Award for launching an educational campaign about marine debris — a project that ties back to his high school internship at Mote Marine Lab. Russell, who graduated from the University of Florida in December 2013 with a degree in biology, became interested in marine environments through 4-H marine science projects and his high school internship at Mote, which helped him understand the negative impacts of marine debris such as fishing line on dolphins and other marine wildlife. At age 16, Russell worked with Mote, 4-H members and his family to create the Stow It-Don’t Throw It Project, an effort to keep fishing line and other debris out of the ocean and prevent it from harming marine wildlife.

In 2011, Russell launched the annual Youth Ocean Conservation Summit at Mote, where youths can gain skills to launch their own conservation projects. The Summit has inspired hundreds of students across the country to get involved in ocean conservation and a series of youth-led satellite summits are starting this year.
Digital Learning Pinnacle Award

The highest award in educational, interactive videoconferencing was presented to Mote’s digital learning program, SeaTrek Interactive. The CILC Pinnacle Award is given annually by the Center for Interactive Learning and Collaboration (CILC) to organizations that receive outstanding scores on program evaluations submitted by educators. The award recognizes remarkable educational content and presentation skill.

Video Earns Henry Award

A video from Mote and its marketing partner Paradise Advertising & Marketing won a Henry Award — first prize for its category in the Flagler Awards for tourism marketing during VISIT FLORIDA’s 47th Annual Governor’s Conference on Tourism. The Flagler Awards, named for Henry Flagler and established in 2000, honor individuals and organizations that help maintain and improve Florida’s position as one of the world’s most popular travel destinations.

Aquarium is Traveler’s Choice

Mote Aquarium made the Top 10 list of best U.S. aquariums from TripAdvisor, which honors top travel spots worldwide based on the millions of reviews and opinions from TripAdvisor travelers. Award winners were determined using an algorithm that took into account the quantity and quality of reviews for zoos and aquariums worldwide gathered over a 12-month period.
Memorials

Curator, Volunteer Ruth DeLynn: 1926-2014

Ruth DeLynn, the creator and curator of one of the most important and extensive collections of dolphin and whale bones in the nation, died July 8, 2014, following a long-term illness. DeLynn, fondly known as “The Bone Lady,” was a volunteer and adjunct scientist at Mote Marine Laboratory for 30 years. She created the bone collection and curated it — meticulously cleaning and preserving the skeletons of dolphins and whales so that they may be used in further studies necessary to unlock the cryptic lives of these animals. The collection was officially named the Ruth DeLynn Cetacean Osteological Collection in her honor in 2007.

DeLynn began volunteering at Mote after retiring from the American Museum of Natural History in New York. Key to the Cetacean collection’s taxonomic value is the detailed documentation that accompanies each specimen and the fact that it contains whole skeletons — not just the skulls, as is the case with many animal bone collections.

DeLynn was a New York native who raised her family in Westchester; she is survived by daughter Nina (Donald) Berk of Newton, Mass., son William (Donna) DeLynn, of Rye Brook, N.Y., and granddaughters Kimberly, Amy, Julia and Robin. She was predeceased by her husband, Hubert.

Director, Major Gifts & Planned Giving: Anna M. Hayes: 1947-2014

In 2005, Anna Hayes joined Mote Marine Laboratory and Aquarium as a Development Officer at Mote Aquaculture Park and quickly rose to become the Director of Major Gifts and Planned Giving until her death in 2014. Anna developed Mote’s first planned-giving program, which helped build a Mote endowment that will serve as a lasting legacy for her work. She also served on the board of the Southwest Florida Planned Giving Council and belonged to the Partnership for Philanthropic Planning and the Association of Fundraising Professionals.

Anna was a world-traveler and golfer who also loved sailing and the outdoors. She also had a passion for animals and her world travels helped her develop a love for beautiful art and music and a relentless energy and passion for the people and things she cared for.

Anna is survived by her brother and his wife, David & Catherine Hayes, of Rochester, N.Y., niece Julie Hayes, of Sarasota, niece June Albanese, of Rochester, great niece Amy Albanese, of Rochester, and great nephew Anthony Albanese, of Rochester.
Mote Founder Dr. Eugenie Clark: 1922-2015

Dr. Eugenie Clark, known worldwide as “The Shark Lady” for her groundbreaking early studies of sharks, died at age 92 in February 2015. She was a trailblazer for women in science and inspired generations of people — from ocean experts to school children — to love oceans and learn more about them. In 1955, with the philanthropic support of the Vanderbilt family, she began the Cape Haze Marine Laboratory, today known as Mote Marine Laboratory, which celebrates its 60th anniversary in 2015.

Clark, an ichthyologist, was a world authority on fishes — particularly sharks and tropical sand fishes. A courageous diver and explorer, Clark conducted 71 submersible dives as deep as 12,000 feet and led more than 200 field research expeditions to the Red Sea, Gulf of Aqaba, Caribbean, Mexico, Japan, Palau, Papua New Guinea, the Solomon Islands, Thailand, Indonesia and Borneo to study sand fishes, whale sharks, deep sea sharks and spotted oceanic triggerfish. She wrote three popular books and more than 175 articles, including research publications in leading peer-reviewed journals such as Science and a dozen popular stories in National Geographic magazine.

Clark joined the Zoology faculty at the University of Maryland in 1968 and retired from that institution in 1992. She returned to Mote in 2000 as Senior Scientist and Director Emerita and later became a Trustee. At Mote, she continued to build upon and champion the groundbreaking research that began with her 60 years before.

Clark spent her final days among family, friends and colleagues from the Lab. Her scientific discoveries and her amazing story will continue to inform and inspire people around the globe. She is survived by her four children, Hera, Aya, Tak and Niki Konstantinou, and her grandson Eli.
Impacts

2014 was a year filled with extraordinary stories of marine science, conservation, animal rescues, public education and more.

Our science team added three postdoctoral-level scientists for a total of 35 Ph.D. researchers. Mote scientists produced 77 peer-reviewed scientific publications and 117 technical reports. Mote Aquarium taught more than 300,000 visitors about our oceans and our education programs served 25,218 people of all ages, with our traveling exhibits and digital learning programs reaching countless others. The Lab also hosted 209 college interns and our dedicated volunteers contributed 217,376 hours of service for the benefit of our oceans.
Mote and Israeli Scientists Partner on International Ocean Initiatives

Mote and the Interuniversity Institute for Marine Sciences (IUI) in Eilat, Israel, signed a memorandum of understanding (MOU) that will lead to new research endeavors designed to understand the impacts that climate change will have on coral reefs and find ways to restore and protect reefs worldwide.

This new research partnership will also support research on ocean acidification, the ecology of sharks and butterflyfish, marine biomedicine and many other key subjects shared by these two world-class marine science organizations.

“Our long history of working with Israeli scientists is bringing about significant benefits for our oceans and for marine science, and these team efforts stand ready to achieve even greater results because of this new agreement,” said Mote President and CEO, Dr. Michael P. Crosby.

In the 1950s, before Mote founder Dr. Eugenie Clark earned world renown as the “Shark Lady,” she studied fishes in the Red Sea — where vibrant coral reefs entice divers from around the world and where, today, Mote science is unfolding in exciting new ways.

Dr. Crosby has also worked closely with top Israeli researchers since 1994 when he led U.S., Israeli and Jordanian partners in the Red Sea Marine Peace Park Cooperative Research, Monitoring and Management Program — an effort to protect coral reefs that support thousands of species in the Gulf of Aqaba. He is also a former chairman of the United States-Israel Binational Science Foundation Board of Governors and has served on the Board since he was appointed by the U.S. State Department in 2002.

Dr. Crosby and Dr. Amatzia Genin, Director of the IUI, signed the agreement at the IUI in Eilat during a historic trip back to the Red Sea with Mote founder Dr. Clark, as she celebrated her 92nd birthday.

Largest Leatherback Blood Protein Study Leads to New Findings

The largest-ever study of blood proteins in leatherbacks — Earth’s largest sea turtle species — was led by a Mote scientist and published in the peer-reviewed journal Conservation Physiology, revealing some of the fascinating biology behind one of nature’s most demanding life cycles.

Leatherbacks feed on jellyfish — nature’s low-calorie Jell-O — but they eat enough of them to power a migration thousands of miles long, from feeding grounds to nesting beaches. Scientists initially believed the turtles had to feed at nesting sites too, but physiology research by others has suggested that leatherbacks nesting in French Guiana are fasting, living on stored energy. The Mote study used the most detailed analysis of blood proteins in leatherbacks to date to confirm that another population at St. Croix in the U.S. Virgin Islands fasts while nesting, strengthening the emerging picture of the leatherback life cycle. Results also show how fasting and migration may affect the turtles’ bodies. These findings provide vital information for resource managers seeking to protect this endangered species.
Sharks Sense Prey in Surprising Ways, According to Major Study

How sharks hunt prey — from the first whiff to the final chomp — was revealed as never before in a new study about shark senses that was supported by the National Science Foundation and published in the peer-reviewed journal PLoS ONE.

The study, led by scientists from Mote, the University of South Florida (USF) in Tampa and Boston University, was the first to show how vision, touch, smell and other senses combine to guide a detailed series of animal behaviors from start to finish.

Results show that sharks with different lifestyles may favor different senses, and they can sometimes switch when their preferred senses are blocked.

That’s hopeful news for sharks trying to find food in changing, sometimes degraded environments.

Understanding how sharks sense and interact with their environment is vital for sustaining populations of these marine predators, which support the health of oceans around the world. Overfishing is the greatest known threat, but pollution and other environmental changes may affect the natural signals that sharks need for hunting and other key behaviors.

Great White Shark Breaks Record

Lydia, a 2,000-pound great white shark, broke scientific records when she was tracked swimming across the mid-Atlantic ridge — the first trans-Atlantic journey documented for her species. Mote was a part of the OCEARCH expedition that tagged this shark in March 2013. By December 2014, Lydia impressed the scientific team and members of the public as she departed Jacksonville, swam northeast in a winding course of 19,500 miles and, a year after being tagged, she crossed the mid-Atlantic ridge — a boundary between tectonic plates running roughly down the middle of the Atlantic ocean. By December, she had moved to the western Atlantic Ocean offshore of the border where Maine meets Canada.

Dugong Conservation in Malaysia

Mote scientists are working on a new project in Malaysia that is focused on a vulnerable population of dugongs — marine mammals related to manatees — with the goal of using findings to help save the nation’s dwindling population and improve human health along the way.

Mote scientists began collecting environmental samples in August with the Institute of Ocean and Earth Sciences at the University of Malaya and the nonprofit MareCet Research Organization.
The three-year health risk assessment of the nation’s dugong population is also working to help increase grassroots and management support for protecting the species.

Mote and MareCet are members of the International Consortium for Marine Conservation (ICMC) — a coalition of aquariums, zoos and governmental and nongovernmental organizations hosted by Mote. The ICMC is dedicated to moving marine science from the lab and into the field, where research findings can be used to directly address threats to species and their habitats.

*Dugong dugon* are listed as vulnerable by the IUCN, an international organization that establishes the conservation status of species. But some dugong populations, like the one in Malaysia, are at a locally higher risk of extinction.

Assessing the dugong’s health risks is only part of the equation; if the study finds the animals at risk from contaminants, it’s likely the human populations in the same region are also at risk and this study will shed light on that issue as well.

**Hatchery-Reared Snook Released into Sarasota Bay**

Scientists from Mote and Florida’s Fish and Wildlife Conservation Commission (FWC) released hatchery-reared juvenile snook into the wild as part of an ongoing program designed to find the most effective methods to replenish and enhance wild snook populations.

The species is one of Florida’s most popular sport fish and plays an important role in drawing recreational anglers to the state. According to the American Sportfishing Association, Florida is the top-ranked state in economic output from recreational fishing, which draws $8.6 billion to the economy annually. Saltwater fishing alone generates 80 percent — $6.8 billion — of that income.

Snook, along with red drum, are the main test species for restocking efforts statewide. This project—which involved tagging and releasing more than 2,200 snook into Sarasota Bay over three days—is designed to determine whether snook that have been conditioned for release at Mote have better growth and survival rates in the wild.

**Innovative Aquaponics Project Raises Saltwater Fish and Sea Veggies**

Mote Aquaculture Park (MAP) — Mote’s sustainable fish farming research facility in eastern Sarasota County — launched a pioneering project to advance marine aquaponics: farming seafood while using the wastewater to fertilize salt-loving crops. This commercial demonstration project, funded by Florida Sea Grant and done in partnership with the University of South Florida (USF) and Morningstar Fishermen, is using eco-friendly technology developed at MAP to raise the saltwater fish species, red drum, together with plant species, sea purlsane and saltwort — sea vegetables popular in European cuisine. The project aims to bring its tasty results from farm to fork, showing communities a new way to produce food locally for farmers’ markets and restaurants as well as determine how nitrogen and phosphorus move through the system.
Nutrients That Feed Red Tide Under the Microscope in Major Study

Mote scientists and collaborators announced that the “food” sources supporting Florida red tides are more diverse and complex than previously realized — a key result of five years of research on red tide and nutrients published as an entire special edition of the scientific journal *Harmful Algae*. The multi-partner project was funded by the National Oceanic and Atmospheric Administration’s ECOHAB program and included 14 research papers from seven institutions.

The project documented the microbiology, physiology, ecology and physical oceanography factors affecting red tides in new detail, provided a synthesis of results and offered suggestions for resource managers addressing red tide in the coastal waters of Southwest Florida.

The research team studied four major red tide blooms caused by the harmful algae species *Karenia brevis* (2001, 2007, 2008 and 2009), plus the non-bloom year 2010 to understand which nutrients supported these red tides and the extent to which coastal pollution might contribute, helping reveal what drives red tide in Southwest Florida. Study partners documented 12 sources of nutrients in Southwest Florida waters — including some never before associated with the *K. brevis* organism. Research results also supported the consensus that blooms start 10-40 miles offshore, away from the direct influence of land-based nutrient pollution, but once moved inshore, blooms can use both human-contributed and natural nutrients for growth.
One of Mote’s key strategic goals is to ensure the Lab’s long-term research success through focused staff recruiting and the development of programs that nurture and support scientists at all career stages — from those newly minted post-doctorate researchers all the way through those with senior scientist status who have made countless contributions to marine science during their careers.

To reach this goal, we have established three programs:

Mote Postdoctoral Research Fellowship, a two-year fellowship that provides 100 percent salary support, research start-up, supplies, equipment and mentorship to postdoctoral scientists conducting outstanding work early in their careers.

Mote Scholarly and Service Activities Award, which provides 25 percent salary support so that staff may conduct scholarly and service activities that reinvigorates their scientific research and gives back to the community.

Mote Eminent Scholar Awards, which provides 50 percent salary support to Mote Senior Scientists who have great potential to advance a current research initiative or develop a new initiative that is consistent with the organization’s 2020 Vision & Strategic Plan.
First Major Private Business Spin-Off from Mote Research

In 2014, Mote announced the sale of its Siberian sturgeon and caviar production operation to Southeast Venture Holdings, LLC (Seven Holdings), marking the first major transfer of Mote-developed technology to the private sector. Seven Holdings will integrate the fish and caviar operation into its Healthy Earth brand of sustainable foods businesses. The licensing agreement is a great example of how basic research in sustainable land-based aquaculture led to the development of innovative water recirculation technologies that will help advance a new industry in Southwest Florida and expand employment in the region.

The sale includes investment in Mote’s ongoing sustainable, land-based recirculating marine and freshwater aquaculture research at the 200-acre Mote Aquaculture Park in eastern Sarasota County, which will significantly increase our ability to continue and expand scientific studies needed to discover and improve sustainable technologies for growing seafood for human consumption and restocking declining and depleted fish species in the wild.

Connecting the Public to Marine Science through Citizen-Science Experiences

Coral research: Volunteers from SCUBAnauts International, the Combat Wounded Veteran Challenge and Gold Star Teen Adventures joined Mote scientists in Mote’s underwater coral nursery for a critical mission in 2014: coral reef restoration.

Working with Mote scientists, these volunteers helped plant threatened staghorn corals in a special restoration site near Looe Key. By the end of the mission, the groups planted 850 coral fragments and helped to create another 2,300 fragments that will be grown in Mote’s underwater coral nursery and then planted on the reef.

The event also marked the creation of a new restoration area, a patch reef about a mile long east of Looe Key, to honor the men and women of America’s military.

Scallop research: Scallops and other important species of Florida shellfish have seriously declined due to changes such as habitat loss, pollution, dredge-and-fill operations, overharvesting and red tide blooms. To restore depleted populations in Sarasota Bay, Mote has teamed up with Sarasota Bay Watch, Sarasota Bay Estuary Program, the Florida Fish and Wildlife Conservation Commission, Sarasota County, Manatee County, Bay Shellfish Co., local business leaders and many volunteer citizen scientists of all ages to release hatchery-raised scallops into the Bay and monitor for signs of recovery.

Each year during Sarasota Bay Watch’s annual Scallop Search, Mote volunteer “citizen scientists” team with Mote researchers to tally the local scallop population. Mote scientists were also joined by members of Japan’s Research Institute for Humanity and Nature (RIHN), which is documenting Mote and the local partnership scallop restoration effort as part of a global study on science and society.
New Fisheries Forum Gets Anglers Involved

Mote and the University of Florida partnered on a new series of public forums designed to pinpoint the needs and status of fisheries in more detail at the local level, allowing communities to give more complete, collaborative and sustained feedback to government agencies and researchers. The Sarasota Bay Fisheries Forums, funded by Florida Sea Grant, allowed for an ongoing exchange between anglers who use the resource, the scientists who study it and the resource managers whose goal is to protect it for all users. The series will continue in 2015.

Reaching Policy Makers

Many of today’s leading marine scientists, oceanographers and ecologists received their scientific spark at a marine laboratory or public aquarium. But Mote’s role in educating the public also extends to educating today’s resource managers and elected officials in order to inform policy and provide a scientific basis for decisions that affect the use and conservation of our natural resources.

State Rep. Holly Merrill Raschein, R-Key Largo, visited Mote’s Tropical Research Laboratory on Summerland Key — and went diving in Mote’s coral restoration nursery — to learn how Mote is studying and restoring coral reefs.

Other visitors to Mote facilities who had an opportunity to learn more about Mote’s many research activities throughout the year included Robert Beltran, Director of the Southwest Florida Water Management District; Tom Barwin, Sarasota City Manager; State Rep. Greg Steube, R-Sarasota; State Rep. Dr. Julio Gonzalez, R-Venice; and GeeDee Kerr, Legislative Assistant to Florida Sen. Nancy Detert, R-Venice.

Mote’s Farmed Seafood Featured During Capitol Hill Ocean Week

Each year, the National Marine Sanctuary Foundation hosts Capitol Hill Ocean Week, which brings together members of Congress, representatives of state and local governments, academics, business experts, scientists and ocean explorers.
The week of activities includes the annual National Oceanic and Atmospheric Administration (NOAA) Fish Fry, which promotes public understanding of aquaculture and sustainable marine fisheries and the National Marine Sanctuary Foundation’s Awards Gala. The events featured caviar and Siberian sturgeon raised by Mote on its sustainable fish farm in eastern Sarasota County.

Mote’s President and CEO, Dr. Michael P. Crosby, attended the leadership awards gala where he had a chance to meet some budding Florida scientists who are members of SCUBAneats International’s St. Pete and Tarpon Springs Chapters. SCUBAneats allows young men and women ages 12 through 18 to get involved in marine science through underwater marine research activities to build character, promote active citizenship and develop effective leadership skills.

The week of activities includes the annual National Oceanic and Atmospheric Administration (NOAA) Fish Fry, which promotes public understanding of aquaculture and sustainable marine fisheries and the National Marine Sanctuary Foundation’s Awards Gala. The events featured caviar and Siberian sturgeon raised by Mote on its sustainable fish farm in eastern Sarasota County.

Mote’s President and CEO, Dr. Michael P. Crosby, attended the leadership awards gala where he had a chance to meet some budding Florida scientists who are members of SCUBAneats International’s St. Pete and Tarpon Springs Chapters. SCUBAneats allows young men and women ages 12 through 18 to get involved in marine science through underwater marine research activities to build character, promote active citizenship and develop effective leadership skills.

Tracking Red Tide

Mote works closely with its research partners, including the Florida Fish and Wildlife Conservation Commission (FWC), to monitor our coastlines for red tide blooms. These efforts are undertaken so that the public may have an early warning when onshore impacts are likely to occur and can act to protect their health.

When a bloom was located about 40 miles offshore in 2014, Mote and its research partners jumped into action to gather data on the bloom’s movements using satellite imagery, sending autonomous underwater vehicles (AUVs) into the Gulf to map the bloom and even taking boat trips offshore to collect water samples. Mote scientists led or participated in 20 sampling trips by boat and collected about 775 samples, including some meant to be analyzed for 25 different variables.

Mote scientists also conducted six AUV missions, which last about 30 days and allow the robots to collect frequent data points about the presence or absence of Florida red tide and the environmental conditions that might influence it. Mote robots carry the optical phytoplankton discriminator, or BreveBuster, designed by a Mote scientist to detect red tide algae.

Mote scientists also conducted six AUV missions, which last about 30 days and allow the robots to collect frequent data points about the presence or absence of Florida red tide and the environmental conditions that might influence it. Mote robots carry the optical phytoplankton discriminator, or BreveBuster, designed by a Mote scientist to detect red tide algae.

Mote keeps the public updated about red tide conditions online at mote.org/beaches.

New Community Engagement Coordinator

Mote created a new Community Engagement Coordinator position to help share our world-class marine science with people of all ages, particularly students in underserved communities. The new position is one way Mote is fulfilling the public service mission outlined in its 2020 Vision & Strategic Plan and is allowing Mote to help people engage in science and connect with the
**Impacts: Public Service**

environment in fun, interactive and meaningful ways that inspire stewardship of natural resources.

**Outreach through Special Lectures**

Each year, Mote hosts its annual Special Lecture Series, which brings some of the world’s leaders in marine research and outreach to the Lab to share their stories and their work. By sharing knowledge from thought leaders around the world, Mote is helping to engage audiences of differing interests, knowledge levels and generations and, in turn, developing a more ocean-literate society.

The Series is made possible through the generous philanthropic support of Bob and Jill Williams each year and in 2014 included talks by photographer Anne Doubilet; Lad Akins, Director of Operations for Reef Environmental Education Foundation; Dr. Justin Perrault, Mote Postdoctoral Research Fellow; Dr. Gerald Pollack, an international leader in science and engineering; Mote scientist Dr. Kevan Main, immediate Past-President of the World Aquaculture Society; and Gene Brighouse, Superintendent of Fagatele Bay National Marine Sanctuary in American Samoa.

**Protecting Nesting Sea Turtles**

Beaches from Longboat Key through Venice hosted a near-record number of sea turtle nests in 2014, according to Mote’s Sea Turtle Patrol — a group of scientists, interns and volunteers who monitor 35 miles of local nesting beaches each day of nesting season. The team members are trained to look for nesting and to help protect nests as part of Florida’s overall sea turtle conservation efforts.

In all, the Patrol recorded 2,448 nests from loggerhead sea turtles, nine from green sea turtles, two from Kemp’s ridleys and two nests that are being genetically tested to determine the parent species.

Mote staff also documented and ID tagged 228 nesting female turtles as part of a long-term nesting study. One turtle they found nesting in 2014 was a turtle that Mote originally tagged in 1987 and later tracked with a satellite transmitter to the Florida Keys.

**Wildlife First-Responders**

Mote’s Stranding Investigations Team was recognized by NOAA's National Marine Fisheries Service for its role in responding to a mass stranding of pilot whales that resulted in the deaths of 38 whales in Collier County. Mote responders — who are members of the national Marine Mammal Stranding Network — led and assisted with efforts to handle, transport and assess the condition of the whales, to humanely euthanize whales that were too sick to survive and to conduct necropsies (animal autopsies) to investigate why the whales stranded.

In addition to responding to such mass strandings, Mote’s team also helps sick and injured sea turtles and dolphins that are found in Sarasota and Manatee counties and sometimes brings them to Mote’s animal hospitals for emergency care — services that receive little state or federal funding support. Through their role in the Marine Mammal Stranding Network, Mote staff also respond to animals outside of their immediate coverage area. In 2014, Mote staff were part of a team that rescued two dolphins — one that was stuck in a freshwater area after getting in on a high tide and then unable to leave after tide receded and a second that was entangled in fishing gear.

Since Mote’s animal hospitals opened full-time in the 1990s, dedicated and talented staff members have been able to rehabilitate and return 26 dolphins and 251 sea turtles to the wild. These animals — which would have died without intervention — are now back in their natural habitat helping to ensure the survival of their populations.
Women’s Giving Circle & Tea for the Sea

Above Mote Scientists Dr. Emily Hall and Dr. Barbara Kirkpatrick, world-famous Oceanographer and Mote Trustee Dr. Sylvia Earle, Mote Founder Dr. Eugenie Clark, Mote Scientists Dr. Cathy Walsh, Dr. Erinn Muller and Dr. Kim Ritchie and Mote President and CEO Dr. Michael P. Crosby.

Right Keynote speaker Dr. Sylvia Earle addresses the audience.
Attendees enjoyed many activities at Mote’s Ocean Fest in Key West.

Mote’s Protect Our Reefs booth.

Artists Wyland and BJ Royster painting murals with the Kids.
Above  Left to right: Dr. Bob Hueter, Jim Culter, Dr. Carl Luer, Pete Hull, Kim Bassos-Hull, Dr. Eugenie Clark, Dr. Michael P. Crosby, Dr. Abe Robinson and Dr. Rich Pierce.

Right  Mote Trustee and Event Chair Susan Gilmore-Clarke and Dr. Michael P. Crosby.

Left  Back row, left to right: Lisa and Bob Morris, Ellen Hanson, Richard Perlman, Sue and Bob Lifeso. Front row: Elizabeth Moore, Mote Trustee Bob Essner with wife Anne and David Morgan.
Party on the Pass

Right  Left to right: Mote Trustees Nigel Mould, Jim Ericson and Bob Essner.

Above  Party on the Pass crowd enjoying the festivities.

Left  Mote Trustee Judy Graham and Dr. Michael P. Crosby.
Volunteers Give the Gift of Time

Volunteers are the lifeblood of Mote, supporting everything from cutting-edge marine science, education and outreach programs to providing support in administrative offices. In 2014, volunteers generously contributed 217,376 hours of their time to support Mote, providing benefits valued at more than $4 million.

During our annual awards ceremony, we recognized volunteers with one, three, five, 10, 15 and 25 years of service, including those who have served more than 4,000 hours total during their lifetime who received the national President’s Volunteer Service Award. We also created a new Volunteer Emeritus Program, that allows volunteers with 10 years or 1,000 hours of service to be nominated by Mote’s Volunteer Board and approved by Mote’s President & CEO to receive special honors upon retirement.
Looking Ahead: Oceans of Opportunity in 2015

In 2015, Mote Marine Laboratory will be celebrating its 60th anniversary year. It will also mark the public start of its first major comprehensive campaign: an ambitious goal to raise $50 million to secure the organization’s future and allow it to continue to benefit the world’s oceans for generations to come.

A successful campaign will allow us to advance:

- Our world-class research enterprise
- Mote’s best and brightest people — including our seasoned expert marine scientists and the next generation who will one day lead their fields
- Our positive impact on our oceans, both locally and globally

Under the leadership of Campaign Chair Bob Essner, a Lido Shores resident and retired pharmaceuticals executive, Oceans of Opportunity: The Campaign for Mote Marine Laboratory, will provide vital funding to grow our endowment, strengthen our research and operations and build a new international center for coral reef research and restoration.

The campaign’s success will allow Mote’s scientists to continue to address threats to our oceans, expand the frontiers of science, provide the intellectual fuel that drives the region’s economy and improve the quality of life for us all.
Donors Who Make World-Class Research Possible

Our work to protect and conserve our ocean resources would not be possible without the generous philanthropic support of individuals and private foundations. We thank the community of donors who believe in our mission and show their support by making generous and supportive gifts.

DR. EUGENIE CLARK SOCIETY $500,000+
Mr. and Mrs. Hoyt R. Barnett

WILLIAMMOTE GUILD $250,000-$499,999
Anonymous
The Barney and Carol Barnett Fund of the Give Well Community Foundation
Mr. and Mrs. Russ Gifford
Gulf Coast Community Foundation
Estate of Jean P. Hendry
Jane’s Trust Foundation
Marjorie S. Heagy Living Trust
Mote Scientific Foundation
Bayne and Jean Stevenson

PRESIDENTIAL ROUNDTABLE $100,000-$249,999
Anonymous
Mr. Frank A. Brunckhorst and Mrs. Jaclyn Kim
Mr. and Mrs. Robert A. Essner
The Community Foundation of Sarasota County
Ms. Penelope L. Kingman
Mr. Wylie Nagler
Sara S. Roberts Foundation

CAPE HAZE SOCIETY $50,000-$99,999
Anonymous
Kenneth C. and Prudence G. Dickey Charitable Remainder Unitrust
Mr. and Mrs. James D. Ericson
Vanguard Charitable Foundation
Wohlers Family Foundation

CHAIRMAN’S CIRCLE $10,000-$49,999
Anonymous
Anonymous
The AMG Foundation
AquaCal, Inc.
Mr. and Mrs. Arthur L. Armitage
Mr. and Mrs. James A. Armour
Mr. and Mrs. Eugene H. Beckstein
BMO Harris Bank
Caldwell Trust Company
Donors

Mr. Mickey Callanen
Mr. and Mrs. Michael F. Canney
Mr. and Mrs. Paul Carreiro
**Mr. and Mrs. Robert E. Carter**
Dr. Eugenie Clark
Mr. and Mrs. C. John Clarke
Mr. and Mrs. Chris Cogan
**Combined Federal Campaign**
Mr. and Mrs. W. Thomas Cook
Michael and Marcia Corrigan
Estate of Evelin Corsey
**Mr. and Mrs. Frederick M. Derr**
Disney Worldwide Conservation Fund
**Mr. and Mrs. Richard O. Donegan**
Frank E. Duckwall Foundation, Inc.
Mr. Dean H. Eisner
Ms. Karol A. Foss
**Frederick Derr & Company, Inc.**
Ralph S. French Charitable Foundation Trust
Fury Management Inc.
**Ms. Susan C. Gilmore**
**Ms. Judy Graham**
Guy Harvey Ocean Fund, Inc.
The Hurlburt Family Foundation, Inc.
**Mark and Carol Hyman Fund**
Mr. and Mrs. F. L. Isham
Item Development, Inc.
**Mr. and Mrs. Michael V. Janes**
The Jewish Federation of Sarasota-Manatee
**Mr. Ervin D. Johnson, Jr.**
**Ms. Virginia M. Judge**
Keys Open Doors Foundation, Inc.
The Jerome M. Kobacker Charities Foundation
Ms. Beverly Koski
Rita B. LaMere Memorial Foundation
Mr. and Mrs. Trudo Letschert, Sr.
Manatee Community Foundation
**Mr. and Mrs. Thomas E. McNerney**
Mr. G. Lowe Morrison
Mosaic Fertilizer, LLC
**Mr. Nigel P. Mould and Ms. Nathalie Randanne de Vazeille**

**The New Amsterdam Charitable Foundation**
Mrs. Ginny L. Nicholas
Mr. Richard E. Perlman and Ms. Ellen Hanson
PNC Financial Services Group
**Publix Super Markets Charities, Inc.**
Mr. and Mrs. Dana R. Robes
Save Our Seas Foundation
**Ms. Peggy J. Sears**
Mr. Douglas Seifert and Ms. Emily Irving
**Mrs. Charleen Sessions**
Mr. and Mrs. Thomas C. Sherman
**Triad Foundation, Inc.**
Mr. and Mrs. James I. Uihlein
Robert A. Uihlein Foundation
**Ms. Barbara L. Whitcraft and Mr. David Heinsler**
Mr. Bobby Whitley
**Mr. and Mrs. Robert M. Williams**
Mr. and Mrs. Richard J. Williams
Mr. Arthur Zavitzianos

**SIGNATURE SOCIETY $5,000-$9,999**
**The Bank of America Charitable Foundation, Inc.**
Mr. and Mrs. Robert G. Bartner
Mr. and Mrs. Lawrence Blau
Bob Carter Companies, LLC
Boca Grande Woman's Club
Boscia Family Foundation
Mr. and Mrs. Jon Boscia
Captrust Financial Advisors
Citizens Not Serfs
**Dr. and Mrs. Michael P. Crosby**
Lt. Gen. and Mrs. Howard G. Crowell, Jr.
Florida Society Children of the American Revolution

Donors in bold have provided support for five consecutive years or more.
Mr. Reginald Furtah and Ms. Suzanne J. Maldaver

GE Foundation Matching Gift Program

Mr. and Mrs. Steven Gompertz
The Grainger Foundation Inc.
Perry and Rose M. Harten Trust
Mr. and Mrs. Fred Hassan
Mr. and Mrs. Andrew Hemmert
Dr. and Mrs. Richard D. Horak
Mr. and Mrs. Richard Howard
Mr. and Mrs. Thomas B. Hunter
Hunter Family Foundation

Ms. Jane Hyslop
Mr. and Mrs. William E. Irvine

Mr. and Mrs. Bill D. Johnson

King Tree Service of South Florida
Ms. Martha Kiser
Mr. and Mrs. Stephen J. Kukanza
Mr. Blair Kunka
Mr. Jim Lampl

Longboat Key Turtle Watch
Macy’s

Dr. and Mrs. Kumar Mahadevan

Mr. and Mrs. Kirk F. Malcolm

Muirhead, Gaylor, & Steves, LLP
National Fish and Wildlife Foundation
Northern Trust Bank of Florida
Mr. and Mrs. Jeffrey Otten
Mr. and Mrs. John E. Phipps
Mrs. Vera C. Plescia and Dr. Marc Plescia
The Pruitt Foundation, Inc.
The Christopher Reynolds Foundation
Ms. Nancy B. Rich

Ms. Jann Rosen-Queralt
Mr. and Mrs. Robert Ruffalo

Sabal Trust Company
Mr. and Mrs. Jeffrey Sedacca

Dr. and Mrs. Howard A. Seider, Jr.
Mrs. Mary Shannon
Dr. Patty Sturtevant and Mr. Richard Kiegler
Mr. and Mrs. Hobart K. Swan
Mr. and Mrs. Richard S. Talford
Dr. Michelle Tilghman and Mr. David Rumiser
Mr. and Ms. Thomas Tusssing
Mr. Steven Wagner — UBS Financial Services - New York
Wells Fargo Bank, N.A.

PILLSR CLUB $1,000-$4,999

Anonymous
Anonymous
Anonymous
Mr. and Mrs. Philip C. Adams
Mr. David W. Agostine
AlgaGen LLC
Mr. Thomas Alburn and Ms. Patrice Boeke

Mr. and Mrs. Jack R. Allen
Ms. Angelia M. Amerson
Kelly Anderson
Mr. Phillip J. Andrews
Mr. and Mrs. Jim Ansboury
Ms. Kathleen A. Anthony
Appleby Foundation
Aquatic Nutrition Inc.
Arbor Oil And Gas, L.L.C.

Mrs. Nancy C. Baker
Mr. and Mrs. Louis Balestra
Baltimore Orioles
Mr. and Mrs. Charles L. Barancik
Mr. and Mrs. Alfred Bargar

Mr. and Mrs. Charles R. Baumann

BB&T Insurance Services
Beall’s Inc.

Ms. Heidi H. Becker
Mr. and Mrs. Glenn K. Bell
Mr. and Mrs. Ronald R. Belschner

Donors in bold have provided support for five consecutive years or more.
Mrs. Wendy W. Benchley
Mr. and Mrs. Donald Berk
Mr. and Mrs. Donald H. Bernstein
Ms. Lisabeth Bertsch
Mr. and Mrs. James T. Bisesi
Mr. and Mrs. John Bissell
Bluebeyond Fisheries, LLC
BlueMountain Capital
Mr. Ronald E. Boring
Mr. Douglas W. Brokaw
Mr. James D. Brownlie
Bouchard Insurance
Congressman and Mrs. Vernon G. Buchanan
Mr. Martin Buck
Mr. and Mrs. Stephen R. Buckley
Mr. and Mrs. Philip Cady
Mr. Scott M. Carlin
Mr. and Mrs. Steve Carter
Vera Cash Foundation, Inc.
Mrs. Catherine Cebrick-Schwarz and Mr. Richard Schwarz
Centennial Bank
The Chicago Community Foundation
Mr. and Mrs. Ronald D. Ciaravella
Clifford Scholz Architects
Connie’s Landscaping
Coldwell Banker Residential Real Estate Cares
Deborah M. Cooley Charitable Trust
Mr. and Mrs. Mack D Cooley
Costa Del Mar
Cowles Charitable Trust
Mr. and Mrs. Jim Cowperthwait
Crack Oar LLC
Mr. and Mrs. Thomas W. Culler
Mr. James K. Culter and Ms. Jan Miller
Mr. and Mrs. John Currie
Ms. Margaret T. D’Albert
Mr. Brian Davies
Mr. Hersel L. Davis, Jr.
Mr. and Mrs. Gene R. De Boef
Mr. and Mrs. Thomas J. Degnan
Mr. and Mrs. Bill DeLynn
Mr. and Mrs. Philip A. Derick
Mr. and Mrs. Gary S. Dickinson
Mr. and Mrs. David Dickson
Dink Inc.
Mr. and Mrs. Robert A. Dishman
Mr. and Mrs. Robert E. Dods
Dolphin Aviation
Mr. and Mrs. Michael L. Dow
Mr. Terrance Dowling
Dr. Kimberly S. Dunn and Mr. David Dunn
Mr. and Mrs. Jim M. Eakle
Anonymous
The Eden Charitable Foundation
Mr. and Mrs. Douglas C. Elder
Mr. and Mrs. John O. Enander
Ms. Alison Engel and Mr. Richard Engel
Mrs. Ann R. English
Taylor Erts
Mr. and Mrs. Donald O. Featherman
Mrs. Shirley E. Fein
Mr. Jefferson M. Flanders
Ms. Amy L. Fleischer
Florida Power & Light Company
Ms. Christine Fortner
Mr. and Mrs. Edward H. Foss, Jr.
Mr. and Mrs. Andrew J. Frankel
Dorian French
Mr. and Mrs. Bruce M. Frerer
Ms. Marce Fuller and Lee deOvies
Mr. and Mrs. Thomas E. Gardner
Ms. Dolly M. Garlo and Mr. Robert S. Keeley
Mr. and Mrs. Gary Gassel
G’Day Imports, LLC
Ms. Patty L. Gergen and Mr. Dan Hopkins
Mr. and Mrs. Kenneth Gill
Donors

Ms. Diane Glaesel
The Glick Family Foundation
Mr. and Mrs. David Golder
Mr. Mark Goto
Grand Rapids Community Foundation
Granite Creek Partners
Ms. Jessica S. Griffiths
Mrs. Betsy Grundy
Mr. Juan J. Guirola
Ms. Andrea K. Haley
Half Shell Raw Bar
Ms. Wendy Hall
Macy and Lucy Harris Family Fund
Ms. Kimberly Hartsock
Mr. Brandon Hauck
Mr. and Mrs. Robert W. Hayden
Mr. and Mrs. Reed Heath
Ms. Carol Hermann
William Humphries
Mr. and Mrs. Bill Hunt
Michael B. Hydorn
Insignia Bank
Insurance & Benefits Consultants
Integraclieck, LLC
Ms. Molly Jackson
Charles Jamison Advised Fund
Mr. John Jaso
The Jelks Family Foundation, Inc.
Mr. and Mrs. Edward H. Jennings
Mr. and Mrs. Chris Johnson
The Joseph and Catherine Johnson Family Foundation
Mr. and Mrs. David B. Joyce
Mr. and Mrs. Richard P. Kahn

Mrs. Susan Karp
Mrs. Elaine Keating
Kerkering, Barberio and Co.
Ms. and Mrs. Jackie Kew
Knox Family Foundation
Ms. and Mr. Catherine Kobren
Gerald A. and Karen A. Kolschowsky Foundation
Ms. Iris Y. M. Konstantinou and Mr. Eli Weiss
Mr. David R. Kotok
Mr. and Mrs. Mike Krajewski
Mr. and Mrs. Milton Kruk
Mr. James M. Kuperberg
Ms. Sheila Labrecque
Ms. Carla Lacerda
Mrs. Rita A. Lamoureux
Robert O. Law Foundation, Inc.
Diane A. Ledder Charitable Trust
Mr. Carl LeFebvre
Lely Resort Golf & Country Club
Mrs. Patricia L. Lenke
Ms. Jennifer Leon
Mr. and Mrs. Fred J. Leonberger
Mr. Harry Leopold
Mr. John N. Lilly and Mrs. Katherine Moore-Lilly
Mr. Joseph Lombardo
The Lombardo Foundation, Inc.
Ms. Erica Long
Longboat Key Garden Club
Mr. and Mrs. Allan Lonschein
The Lookout Foundation, Inc.
Mr. and Mrs. Jose A. Lopez
Mr. Richard C. Lyons
Mr. Roger Makowski
Ms. Catherine J. Marine
Billy J. Martin and Jeane S. Martin Foundation
Mrs. Jean M. Martin
Mrs. Jeane S. Martin
Ms. Diana L. Martin
Mr. Elliott Mascoop
Mr. and Ms. Federico Matheu
Mr. and Mrs. Dick Mayer
Ms. Anna J. McCann

Donors in bold have provided support for five consecutive years or more.
The Honorable and Mrs. Connie Mack
Mr. Dwight Mead and Ms. Gail Wittig
Mr. and Mrs. Robert H. Meaher
Merck Partnership for Giving
The Met Fashion House Day Spa & Salon
Microsoft Matching Gifts Program
MidFlorida Credit Union
Mr. and Mrs. Samuel T. Milbank
Ms. Virginia A. Miller
Ms. Carol L. Miller
Mr. and Mrs. Donald Miller
Dr. David Millie and Dr. Laura Kunberger
Mr. and Mrs. Francis B. Misantone
Mr. and Mrs. James A. Mitchell
The Montei Foundation
Mr. and Mrs. Dillard J. Moore
Ms. Elizabeth Moore
Mr. and Mrs. David B. Morgan
Mr. and Mrs. Robert C. Morris
Harold M. And Adeline S. Morrison
Family Foundation
Ms. Alice Morton
Ms. Virginia Mosbaugh Horne
Dr. and Ms. Richard Moskovitz
Mr. and Mrs. Alan I. Mossberg
Ms. Diane M. Muldoon
Dr. Heather M. Murray and Ms. Gloria G. Bruno
Mutual of America
National Christian Foundation - Wisconsin
Ms. Elinor M. Neal
Mrs. Muriel G. Neuss
Mr. and Mrs. Hugh Nevin, Jr.
Mr. and Mrs. Fred Nobel
Ms. Martha Noyes and Dr. Gerald Greene
Ocean Key Resort & Spa
Octex, LLC
Ms. Janet D. Oliver and Mr. Ron N. Damele
Ms. Joanna Pace and Mr. David Brackett
Mr. and Mrs. Ron Pantello
Mr. Jeffrey B. Parker
Mr. and Mrs. Bradlee E. Parlee
Mr. Paul Pearson
The H.O. Peet Foundation
Ms. Charlotte Perret
Mr. and Mrs. Carl Pfirrmann
Pfizer Foundation Volunteer Program
Mr. Richard Pittaway
Ms. Mary Lou Poe and Mr. Dennis A. Revicki
Lt. Col. John F. Pohle
Porter County Community Foundation
Mr. and Mrs. Bernard Pousset
Quality Acquisition Company, LLC
Dr. Joan Rabin and Dr. Barbara Slater
Racoosin Family Foundation
Mr. and Mrs. William Rammes
Mr. and Mrs. Ken B. Rear
Mr. Randall Ridenour
Mr. John Robinson
Rev. and Mrs. Thomas E. Rodgerson
Edward and Elyse Rogers Family Foundation
Mr. and Mrs. Dean E. Rollings, Jr.
Mr. and Mrs. O. Wayne Rollins II
Ms. Linda H. Rorer
The Rorer Foundation, Inc.
Mr. and Mrs. Jules Rose
Mr. and Mrs. Gregory Rusovich
Sabadell United Bank
Mr. and Mrs. Burton M. Sack
Mr. and Mrs. Samuel L. Samelson
Samowitz Foundation
Sanibel-Captiva Shell Club
Sara Bay Marina
Sarasota Bay Parrot Head Club, Inc.
Sarasota Sportsmens Association
Mr. and Mrs. Michael M. Scharf
Mr. and Mrs. Walter J. Scherr III
Mr. and Mrs. Lawrence F. Schmidt, Sr.
Mrs. Betty Schoenbaum
Ms. Jennie G. Sebruk
Mr. and Mrs. Mark Sherwin
Mrs. Nathalie Silver
Zachary O. Simmons
Mr. and Mrs. Robert H. Sinclair
Mr. Robert Sledzinski
Mr. Frank W. Smith
Mr. Daniel N. Sorensen
Mr. Ken Spence
Dr. and Mrs. Stephen Spotte
Mr. and Mrs. Cyrus W. Spurlino
Mr. and Mrs. Jeffrey Steinwachs
Ms. Mary Jane Stohl
Mr. and Mrs. John M. Strickland
Ms. Maria V. Suarez
SunTrust Banks, Inc.
SunTrust Foundation
Dr. Edwin S. Sved and Dr. Dorothy Sved
Ms. Susan L. Swink
Dr. and Mrs. Arthur R. Szeiglin
Mr. Bradley R. Tanner
The Tarr Charitable Family Foundation
Mr. Randy Taylor
Tervis Tumbler Company
Ms. Jacinta Titiali-Abbott and Mr. Cooper Abbott
Mr. and Mrs. James K. Toomey
Mr. Thomas C. Troxler, Jr.
True Flies LLC
Tucker Revocable Trust
Tunaskin Inc.
United Natural Foods, Inc.
Mr. and Mrs. Mike Valentino
Mr. and Mrs. Gordon W. Van Citters
Mr. and Mrs. Ray Walborn
Mr. John Wareham and Mrs. Val Castrodale Wareham
Mr. Thomas P. Waters
Mr. and Mrs. Thomas H. Watson
The Westin Key West
Ms. Kim Wheeler and Mr. Lynn Morey
Mr. and Mrs. R. Elton White
Estate of Jeannette L. Widom
Mr. and Mrs. Patrick R. Wilmerding
Mr. and Mrs. William Winterer

FRIENDS $500-$999
Anonymous
Dr. and Mrs. David Abramson
Dr. Denise D. McHugh and Mr. Douglas M. Adams
Mr. William F. Alexander IV
Mr. and Mrs. Scott Allen
American General Life Insurance Company
Mr. and Mrs. Douglas T. Anderson
Mr. and Mrs. Mark Appel
Mr. and Mrs. David B. Ballard
Ms. Donna M. Basso and Mr. Paul Hartman
Ms. JoAnn Bateman
Mr. and Mrs. Daniel F. Bebak
Mr. and Mrs. Gerald Beck
Ms. Robin R. Bergstrom
Mr. and Mrs. David A. Berkowitz
Mrs. Janet Blair
Mrs. Merrill Bonder
Mr. and Mrs. Gregg Branham
Mr. and Mrs. Don Bruns
Bunge North America Foundation
Mr. and Mrs. Steven A. Busch
Canandaigua National Bank & Trust Co.
Ms. Terri Cannon
Mr. and Mrs. Van Carlisle
Mr. and Mrs. Ed Chiles
Mr. Gary J. Clancy
Dr. and Mrs. H. Lawrence Clark
Ms. Laurel B. Cohen and Mr. Axel Traugott
Cohen-Toon Fund

Donors in bold have provided support for five consecutive years or more.
CompLogic, LLC
Continental Kitchens, Inc.
Ms. Dori Copeland
Mr. and Mrs. William E. Coyne
Critter Ridge Landscaping
Mr. and Mrs. Scott Crofut
Mr. and Mrs. Johnnie M. Curls, Jr.
Mrs. Jane R. Daganhardt
Mr. and Mrs. Alfred D’Alessio
Mr. and Mrs. Robert Dart
Dart Container Corp of Florida
Mr. Dwight F. Davis
Ms. Esther M. Davis
Mr. and Mrs. George E. Davis
Mr. and Mrs. John Dayani
Mr. Trey Desenberg
George Deuble Foundation
Mr. and Mrs. Maxwell Deuble
Adrian E. Diaz
Mr. and Mrs. Ivan Dick
Mr. and Mrs. Leroy Donahue, Jr.
Ms. Janet Doughty and Mr. Doug Burns
Dr. Alan Dunton and Mrs. Patricia E. Dunton
Dr. Sylvia A. Earle
Easter Seals Southwest Florida
Mrs. Pamela Eaton
Endeavor Racing LLC
Ms. Patricia Entsminger
Mr. Ted Ewing
ExxonMobil Foundation, Inc.
Mr. and Mrs. Walter R. Fatzinger, Jr.
Ms. Donna Felkins-Dohm
Dr. Frances D. Fergusson and Mr. John Bradbury
Mr. Robert W. Fiedler
Mr. and Mrs. William T. Firth
Mr. Harrison A. Fitzpatrick
Mr. and Mrs. Derek B. Flores
Florida Blue Foundation
Florida Underwater Sports
Mr. and Mrs. Richard M. Fraser
Mr. and Mrs. Jim Frauenberg
Dr. Angelo Furgiuele
Garden Argosy, Inc.
Mr. Nicholas C. Gladding, Esq.
Dr. and Mrs. William S. Goell
Mrs. Joan J. Golder and Mr. Sheffield Hoffman
Mr. and Mrs. George I. Gondelman
Mr. and Mrs. Alan B. Graf, Jr.
Greater Sarasota Women’s Golf Association
Mr. and Mrs. Glen Greenfelder
Mrs. Renate B. Harkavy and Mr. Ronald D. Messer
Mr. and Mrs. Jay P. Hartig
Mr. Jesse Hess
Ronne and Donald Hess Foundation
Pat Hinger and Sandy Ellinger
Mr. and Mrs. Dieter Hoehn
Ms. Lynn E. Hoff
Mr. and Mrs. Robert L. Howieson
Mr. and Mrs. Paul Hudson
Mr. and Mrs. Stephen Huse
Ms. Megan Huss
IBM Employee Services Center
Mr. Michael D. Ingram
Mr. and Mrs. Paul E. Jaffe
Mr. and Mrs. David Janes
Mr. and Mrs. David A. Jemison
Jenkinson’s Aquarium
Mr. and Mrs. Dennis P. Jesse
Mr. and Mrs. Ronald A. Johnson
Mr. and Mrs. Devin P. Johnson
Johnson Ohana Charitable Foundation
Mr. and Mrs. Larry Kabinoff
Mr. Willard Kayser
Keys Energy Services
Mr. and Mrs. Craig D. Kingwater
Mr. and Mrs. William A. Klettke
Koala Tee
Donors

Mr. and Mrs. Edward J. Kolodzieski
Mr. Christopher Kopach
Ms. Frances Kramer and Mrs. Lesley Eckert
Mr. and Mrs. John M. Kucharski
Mr. and Mrs. Glenn H. Kuklewski
Ms. Lizzy Wilson and Longboat Key Club
Mr. and Mrs. David D. Lozier
Mrs. Barbara Mackey
Mr. Robert B. Mackey
Estate of Frank J. Mahnich
Mr. and Mrs. John J. Mancini
Mr. and Mrs. Raymond E. Mandry
Marathon & Lower Keys Association of Realtors, Inc.
Mr. William E. Margolis
Marketing ARM International
The Honorable and Mrs. Joe McClash
Mrs. Sadie J. McCall
Mr. and Mrs. Joseph V. Petruzzo
Mrs. Jean H. Pierce
Mr. and Mrs. Peter M. Platten III
Mr. and Mrs. Paul Polley
Mr. and Mrs. Robert Powell
Power Pole
Mr. and Mrs. Robert Pritchard
Mr. and Mrs. David G. Pyle
Ms. Mazi E. Quigley
Restivo, Reilly & Vigil-Farinas LLC
Ms. Shawn Richardson
Ms. Tatyana Ringland
Mr. and Mrs. William J. Ritchie
Mr. and Mrs. Jerry E. Robertson
Mr. Daniel E. Robinson
Mr. Rex Rodgers
Ms. Jenifer S. Rogers
Mr. and Mrs. Rodger Rohde
Mr. and Mrs. Edward Rosenblum
Mrs. Joan W. Rotenberg
Mr. and Mrs. Bryan Rowntree
Mr. and Mrs. Samuel Rubinovitz
Mr. and Mrs. Matthew T. Rydson
Sally Trout Interior Design
Mr. and Mrs. Doug Salmon
Sarasota Yacht Club
Dr. and Mrs. Robert Scheible
Mr. and Mrs. Robert W. Schneebeck
Mr. Peter Schneiderman
Ms. Nancy Schroeder
Ms. Debra Schuerger
Sea Sucker
Mr. and Mrs. Keith Senglaub
Mr. and Mrs. Charles J. Siderski
Ms. Cindy Sloan and Mr. Carmon Sloan
Ms. Margaret A. Smith
Dr. and Mrs. Stephen D. Smith
Smokin Tuna, LLC
Mr. and Mrs. Peter H. Soderberg
Ms. Lucinda T. Spaney
Mr. and Mrs. Andrew Steidinger

Donors in bold have provided support for five consecutive years or more.
Dr. and Mrs. Craig Stevens
Mrs. Elizabeth A. Stewart
Mr. and Mrs. Charles Stottlemyer
Ms. Monica Streacker
Sunset City Lessee LLC
Sunset Social Drinking Club
Mr. and Mrs. Kenneth Sussman
Ms. Anne O. Swain
Mr. and Mrs. Hank Tafaro
Henry and Marilyn Taub Foundation
Ms. Barbara Thomason
Mr. Haskell C. Titchell
Mr. and Mrs. William G. Townsend
TPC at Prestancia
Mr. and Mrs. Michael Trahan
Mr. and Mrs. Stephen M. Trippe
Tropical Seas, Inc.
Tropicana Products, Inc.
Truist
Mr. and Mrs. James Turner
UnitedHealth Group Employee Giving Campaign
VALIC
Ms. Ellen VanDernoot
Ms. Sheryl E. Vieira
Mrs. Jennifer Vigne
Ms. Leslie Wander
and Mr. Robert Wander
Mrs. Marlene R. Warner
Mr. and Mrs. Garrad Warren
Mr. and Mrs. William Wasz
Mr. and Mrs. Todd R. Webster
Dr. and Mrs. Harvey H. Westervelt
Mr. and Mrs. James Westman
Mr. and Mrs. William W. Wilferth
William A. Becker Consulting, LLC
Ms. Deborah R. Wilson
and Mr. John Wilson
Wojcik and Short Associates Inc.
Mr. and Mrs. Stan Zaworski
Mr. and Mrs. Randy L. Zion
Mr. and Mrs. Bob Zook

Thanks to Our Members

We would like to extend a special thank you to all of our loyal members. Mote Aquarium serves as an informal science center that makes learning fun and interactive and we are grateful for the families who provide important support to Mote through their membership dues. Thank you for helping us to keep the lights on, the boats running and the staff humming.

To join or renew your membership, visit us online at mote.org/membership or call us at 941-388-4441, ext. 373.
A Lasting Legacy

We have deep gratitude for the members of our Legacy Society who have designated Mote as a beneficiary in their estate plans. Society Members show exemplary generosity and vision by making these gifts that will help ensure the future of our world-class organization.
Legacy Society

Mr. Thomas Alburn and Ms. Patrice Boeke
Mr. and Mrs. Arthur L. Armitage
Mr. James F. Baker
Mrs. Barbara L. Bauman
Mr. and Mrs. Richard J. Benimeli
Ms. Lisabeth Bertsch
Mr. and Mrs. Jay Brady
Mr. and Mrs. Howard C. Cobin
Dr. and Mrs. Michael P. Crosby
Mr. James K. Culter and Ms. Jan Miller
Mr. Dwight F. Davis
Mr. Jack I. DeCaprio
Mr. and Mrs. David J. Dennehy
Mr. David Dickson
Mr. and Mrs. Richard O. Donegan
Mr. Dean H. Eisner
Mr. and Mrs. James D. Ericson
Mrs. Shirley E. Fein
Ms. Linda C. Fisher
Ms. Dolly M. Garlo and Mr. Robert S. Keeley
Ms. Susan C. Gilmore
Mrs. Margaret V. Hughes
Mr. and Mrs. John F. Jenney
Mr. and Mrs. Brian T. Kelly
Ms. Iris Y. M. Konstantinou
Mr. Roger O. Kurth
Dr. and Mrs. Kumar Mahadevan
Mr. Don Marshall
Mr. and Mrs. Paul A. Mesaros
Mr. G. Lowe Morrison
Mr. Nigel P. Mould and Ms. Nathalie Randanne de Vazeille
Mr. and Mrs. Larry A. Myers
Mr. and Mrs. Donald A. Ocker
Mr. Jeffrey B. Parker
Mr. and Mrs. Ken B. Rear
Mr. Randall Ridenour
Mr. and Mrs. Edward Rogers
Ms. Peggy J. Sears
Ms. Michele Sebourn
Dr. and Mrs. Howard A. Seider, Jr.
Mrs. Kathleen Sherrow
Mr. and Mrs. William A. Shuman
Mr. and Mrs. Charles J. Siderski
Mr. and Mrs. Robert H. Sinclair
Mr. Norris G. Smith
Mrs. Mildred F. Stein
Ms. Eva Marie Stevens
Mrs. Terry A. Sullivan-Dennehy
Ms. Ellen VanDernoot
Ms. Virginia K. Walsh
Mr. Thomas P. Waters
Mr. and Mrs. Robert H. Wendt
Mr. and Mrs. William W. Wilferth
Dr. and Mrs. Douglas E. Williamson
Ms. Glenda Wright

Join Today — Leave Your Legacy

To speak with one of our development officers, call us at 941-388-4441, ext. 415, or visit us online at mote.org/legacy.
Boards

Board of Trustees

OFFICERS
Eugene Beckstein, Chairman
G. Lowe Morrison, Vice Chairman
Lt. Gen. Howard G. Crowell (USA Ret.), Treasurer
Mickey Callanen, Secretary
Dr. Michael P. Crosby, President & CEO

TRUSTEES
Arthur L. Armitage, Chairman Emeritus
Paul Carreiro
Robert E. Carter, Chairman Emeritus
Ronald D. Ciaravella
Eugenie Clark, Ph.D., Founding Director
Scott Collins
John Dart
Frederick M. Derr, P.E., Chairman Emeritus
Richard O. Donegan
Sylvia Earle, Ph.D.
Dean H. Eisner
James D. Ericson
Robert Essner
Susan C. Gilmore
Judy Graham, Chairman Emeritus
Edward H. Jennings
Mary Lou Johnson
The Hon. Ronald A. Johnson
Trudo Letschert
Penelope Kingman
Kirk Malcolm
Nigel Mould
Rande Ridenour
Alan Rose
Howard Seider, Jr., M.D.
Jeanie Stevenson

HONORARY TRUSTEES
Richard Angelotti, Chairman Emeritus
Charles R. Baumann, CPA
Pauline Becker
Sandi Burns (Co-Chair, Keys Advisory Council)
Bob Cameron (President, Volunteer Board)
Howard C. Cobin
David Dickson (Chairman, Advisory Council)
Bruce Frerer (Co-Chair, Keys Advisory Council)
William S. Galvano, Esq
Alfred Goldstein, DCS DHL, Chairman Emeritus
Peter Hull
The Hon. Andy Ireland
Elaine M. Keating
J. Robert Long
Kumar Mahadevan, PhD, President Emeritus
Jean Martin
The Hon. Dan Miller
Myra Monfort Runyan, Chairman Emeritus
Ronald R. Morris
Helen L. Pratt
William Ritchie
Peter Rosasco, CPA (Chairman, Keys Advisory Council)
Beth G. Waskom
Advisory Council

David Dickson, Chairman
Irwin Davis, Vice Chairman
Stephen Ackoury
Steve Belack
Michael Belle
Michael Bennett
Matt Buchanan
Sandra Buchanan
Richard Butler
Norman Cavedo
John Cella
Chad Ciaravella
William Clague
Aedan Dowling
Ted Ewing
Don Featherman
Shirley Fein
Joan Galvin
Nick Gladding
Bradley Goddard
Doug Grosso
Ed Hamilton
Dan Harris
Craig Hill
Brian Heggie
Terry Hornblow
Paul Hudson
Hamilton Jones
Joan Kayser
Lynn Kukanza
Christopher Likens
W. Dwight Mead
Steve Meier
Michael Melnick
Susan Miller
Budd Moore
Mollie Nelson
Matt Plummer
Art Reilly
Randall Ridenour
Gary Rogers
Edith Schwartz
Pamela Siderski
C.G. Sloan
Jeffrey Steinsnyder
Paul Tarrantino
Norman Vaughan-Birch
Casey Welch
Christina Welch
Heather Williams
Robert Windom
Jack Windt

Keys Advisory Council

Sandi Burns, Co-Chair
Bruce Frerer, Co-Chair
Peter Rosasco, Co-Chair

Benjamin (Dink) C. Bruce
George Craig
David Dickson
Walt Drabinski
Capt. Mike Gorton
Dolly Garlo
Phil Goodman
David Paul Horan
Tom Jackson
Trudo Letschert
Rande Ridenour
Dean Rollings
M.J. Webster
2014 Finances

Revenues *
$20,658,958

53% Research\(^1\) $10,825,149
26% Education & Outreach\(^2\) $5,424,994
21% Contributions, Memberships, Other $4,408,815

* Does not include beneficial interest in Mote Marine Foundation

\(^1\) Research includes Protect our Reefs program and Mote Aquaculture Park management

\(^2\) Education and Outreach includes Aquarium and science education programs

Expense Composition
$21,205,346

82% Program Services $17,423,240
57% Research\(^1\) $12,066,632
25% Education & Outreach\(^2\) $5,356,608
10% Administrative & General $2,155,190
8% Fundraising $1,626,916
Incorporated as a 501(c)(3) Nonprofit in 1955

Vital Statistics

RESEARCH
- 77 RESEARCH STAFF
  - 36 DOCTORAL LEVEL
  - 75 PUBLICATIONS
  - 6 PUBLIC POLICY

NET ASSETS
- $21 million LABORATORY
- ~$15 million FOUNDATION (ENDOWMENT)

ECONOMIC IMPACT
- $96.8 million STATEWIDE

MEMBERSHIPS
- 9,000+ INDIVIDUAL
- 160+ CORPORATE

PROPERTIES & FACILITIES
- MAIN CAMPUS
  - Sarasota, FL 10.5 acres
    (Long Term Lease, City of Sarasota)
- MOTE AQUACULTURE PARK
  - Sarasota, FL 200 acres
- BOCA GRANDE FIELD OFFICE
  - Boca Grande, FL
- CHARLOTTE HARBOR FIELD STATION
  - Demere Key, FL

RESEARCH PROGRAMS
- Behavioral Ecology & Physiology
- Benthic Ecology
- Chemical Ecology
- Coral Reef Restoration
- Coral Reef Science
- Dolphin Research
- Ecotoxicology
- Environmental Health & Monitoring
- Environmental Laboratory for Forensics
- Fisheries
- Habitat Ecology
- Manatee Research
- Marine & Fresh Water Aquaculture Research
- Marine Biomedical Research
- Marine Immunology
- Marine Microbiology
- Marine Stock Enhancement
- Ocean Acidification
- Ocean Technology
- Phytoplankton Ecology
- Sea Turtle Conservation & Research
- Sensory Biology & Behavior
- Shark Biology & Conservation
- Spotted Eagle Ray Conservation
- Stranding Investigations

EDUCATION
- 25 EDUCATION PROGRAMS
- 20 EDUCATION STAFF MEMBERS
  - After School Programs
  - Birthday Parties
  - Breakfast at Mote
  - College Internships
  - Educational Travel Programs
  - Field Trips
  - Gills Club
  - High School Internships
  - High School Volunteers
  - Home School Programs
  - Kayaking with Mote
  - Mommy & Me
  - Mote Science Cafés
  - Outreach Programs
  - Partnership Schools
  - Research Experience for Undergraduates (REU)
  - Scout Workshops
  - SeaTrek Digital Learning
  - SeaSnooze Overnights
  - Shark Encounter
  - Special Lecture Series
  - Summer Camp Programs
  - Teacher Workshops
  - Traveling Exhibits
  - Volunteer Opportunities

VOLUNTEERS & STAFF
- 210 TOTAL STAFF
  - 1,713 VOLUNTEERS
  - 217,376 MORE THAN 217,376 HOURS
  - A YEAR

AQUARIUM
- 35 AQUARIUM STAFF
  - DOCTORAL LEVEL
- 1 AQUARIUM
- 8 OFF-SITE AQUARIUMS
  - 300,000+ VISITORS TO THE AQUARIUM
- MOTE MOBILE EXHIBIT
  - 300,000 VIEWERS
- 60 EXHIBITS RELATING TO
  - MOTE RESEARCH
  - 1 DOLPHIN, WHALE & SEA TURTLE HOSPITAL
    (co-managed with Research Division)
- PEOPLESERVED*
  - 25,218 Grades K-12
  - 209 College Level
  - * INCLUDES IN-SCHOOL, DIGITAL LEARNING AND ON-CAMPUS PROGRAMS
- 1,500 students & scientists
  - visited Mote’s Tropical Research Lab
- FLORIDA SPECIALTY LICENSE PLATE
- PROTECT OUR REEFS | EST. 2003
- $945,000 TO SUPPORT CORAL REEF RESEARCH, RESTORATION & EDUCATION IN 2014

SEAWATER SYSTEMS
- RESEARCH:
  - 1,224,152 GALLONS
  - EXHIBITS:
  - 614,680
Since Dr. Eugenie Clark started Mote as the Cape Haze Marine Laboratory in 1955, the Lab’s staff and their collaborators have made significant contributions to the field of marine science. The first scientific paper based on work that was conducted at the Lab back in those early years was published in the journal *Nature* and focused on the biological makeup of shark livers (“Squalene content of various shark livers,” M. S. Heller, S. Springer and E. Clark). Since then, the staff has published more than 1,372 articles, book chapters and theses and another 1,894 technical reports. Here are the works published in 2014.

**Books Authored or Edited**


**Theses and Dissertations**


**Abstracts, Articles, Book Chapters and Reviews**


**Hauville, M. R., K. L. Main,** H. Migaud, and J. Gordon Bell. 2014. Fatty acid utilization during the early larval stages of Florida pompano (*Trachinotus carolinus*) and Common snook (*Centropomus*...


Hitchcock, G.L., **G. Kirkpatrick**, P.V.Z. Lane, C. Langdon. 2014. Comparative diel oxygen cycles preceding and during a *Karenia* bloom in Sarasota Bay, Florida, USA. Harmful Algae 38 (September): 95-100. Online first. doi:10.1016/j.hal.2014.05.010


Larsen, A.M., F.S. Rikard, W.C. Walton, and C.R. Arias. 2014. Temperature effect on high salinity depuration of 


Perrault, J.R. 2014. Mercury and selenium ingestion rates


**Walsh C.J.** and **C.A. Luer.** 2014. *In vitro* culture of elasmobranch cells. In *Immunobiology of the...*


The answers are in the sea.

Together we will find them.
Mote Marine Laboratory & Aquarium
1600 Ken Thompson Pkwy
Sarasota, FL 34236
(941) 388-4441

RESEARCH STATIONS

Mote Aquaculture Park
874 W.R. Mote Way
Sarasota, FL 34240
(941) 388-4541

Charlotte Harbor Research Station
Demere Key, FL
(941) 388-4441

Tropical Research Laboratory
24244 Overseas Highway
Summerland Key, FL 33042
(305) 745-3554

PUBLIC OUTREACH

Boca Grande Office Location
480 E. Railroad Ave., Unit 7
Railroad Plaza, Boca Grande
(941) 855-9251

Boca Grande Office Mailing
P.O. Box 870
Boca Grande, FL 33921
(941) 855-9251

Mote Living Reef Exhibit at the NOAA Eco-Discovery Center
35 East Quay Road
Key West, FL 33040
(305) 296-2325