



**MTE**  
MARINE LABORATORY & AQUARIUM

# 2013 ANNUAL REPORT



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# OUR 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...



Dear Friends,

In my role as Chairman, I often have the privilege of seeing up close the commitment and hard work of the staff as they undertake scientific endeavors that will help lead to better conservation of our marine resources. Not only am I proud that our scientists are leading the world in these efforts, but I am equally pleased that our organization believes in sharing the information we gain with the world through dedicated outreach and education programs and a public Aquarium where all can learn about our oceans.

Our accomplishments for 2013, however, could not be possible without the impressive commitment of our supporters — of our Board of Trustees, our Volunteers, our Members and our many philanthropic donors. The fact that all of you join us in our mission is testament to Mote Marine Laboratory and Aquarium's impact, not just on our local and regional communities, but throughout the world. Mote would not be able to continue in its leadership position without the generosity of our devoted advocates.

*As I think about all we have accomplished for the year, I picture the faces of all of you who have made Mote a priority through your gifts, not just of money, but of time and talents, and for your continued efforts to share your love of Mote with your friends and family.*

For all of these and many other reasons, as Chairman of the Board, it is my pleasure to say thank you for all you do.

Sincerely,

A handwritten signature in blue ink that reads "Eugene H. Beckstein".

Eugene H. Beckstein  
Chairman, Board of Trustees



Dear Friends,

As President & CEO of Mote Marine Laboratory and Aquarium, I have the great pleasure to present to you this summary of our impacts and accomplishments for 2013. This annual report — my first as the leader of this nearly 60-year-old institution — allows us to demonstrate our progress toward achieving our *2020 Vision and Strategic Plan* and our significant impacts in our world.



In 2013, Mote conducted hundreds of studies on a wide range of issues critical to ocean and human health, conservation, endangered marine life and our economy. Our efforts resulted in dozens of peer-reviewed publications and thousands of stories about our research in popular media; we expanded our international partnerships with researchers in Japan, Israel, China, Jordan and other nations.

We continued our mission to promote science education, welcoming more than 345,000 visitors to our Aquarium, reaching 29,536 children and thousands of adults through our special programming; and reaching more than 1 million people nationally and internationally through our traveling exhibits. Mote is also incredibly fortunate to have a 1,685-strong volunteer base, which contributed 212,337 hours in 2013.

Throughout my first year, I have been impressed and humbled by the significant support we receive from near and far. This support is vital as we undertake our mission to lead the world in conducting research for science-based marine resource conservation and in translating and transferring our science and technology to serve society. Such support has been a hallmark here since Dr. Eugenie Clark founded in the lab in 1955 and Anne and William Vanderbilt and the community rallied around their efforts. Later, Bill Mote helped the Lab grow and expand into the world-class organization it is today.

***No doubt there are many exciting opportunities ahead as we prepare to celebrate our 60th anniversary in 2015. The dedication of our supporters is what energizes us and will continue to give us the ability to look toward the future — to seek new opportunities, to make new discoveries and to make a difference in our world.***

I look forward to another 60 years of vitality and growing impact for Mote, and I thank you all for joining us in our mission.

Sincerely,

A handwritten signature in blue ink, reading "Michael P. Crosby". The signature is stylized and fluid.

Dr. Michael P. Crosby  
President & CEO





# IMPACTS

## Strategic Priority 1

*Increase our world-class research with an emphasis on conservation, sustainable use and the environmental health of marine and coastal biodiversity, habitats and resources...*

### Global Leadership

Mote Founding Director Dr. Eugenie Clark's work was the start of decades of international collaborations that have taken Mote researchers to six continents and dozens of countries where we benefit from our colleagues' experiences and share our own knowledge and expertise. These collaborations bring an international flavor to our campuses as our international colleagues join us for research programs, meetings and conferences.

**A NEW COALITION** of aquariums, zoos and governmental and non-governmental organizations hosted at Mote debuted in February to address critical needs for the conservation

of marine mammals, sea turtles, sea birds and other species worldwide. The new **International Consortium for Marine Conservation** was announced by its Director, Dr. John Reynolds of Mote, during the Second Signatory State Meeting of the Dugong MOU of the Convention of Migratory Species of the United Nations Environment Programme in Manila, Philippines.

**MOTE SENIOR SCIENTIST** Dr. Kevan Main was appointed to serve on the **Aquaculture Expert Working Group for the Global Sustainable Seafood Initiative**. This group, funded by the German government, European Union and seafood distributors, is evaluating seafood certification and labeling programs for aquaculture and fisheries products to promote the supply of sustainable seafood for consumers. Main, past president of the World Aquaculture Society, has pioneered sustainable aquaculture at Mote since 2001.

**IN THE FALL, WE WELCOMED** Dr. Qian Ma from the **Chinese Academy of Fisheries Science — Yellow Sea Fisheries Research Institute in Qingdao, China**, to Mote Aquaculture Park. Dr. Ma,





Dr. Qian Ma works at Mote Aquaculture Park.

a molecular biologist, is working with Mote and Florida's Fish and Wildlife Research Institute to uncover the genetic traits of pompano that affect the species' growth. The work includes building a genetic database that will identify the relationship between breeders and progeny — key to developing pompano as an aquaculture species in the U.S.

### INTERNATIONAL SCIENTISTS, FISHERIES REPRESENTATIVES

and nearly 100 members of the local community gathered at Mote in May for a public forum on how communities around the world are making science-based conservation happen. The forum was conducted as part of a global study of science and society led by **Japan's Research Institute for Humanity and Nature (RIHN)** that is examining how residential research institutions, grassroots groups, policymakers and others are blending traditional and scientific knowledge and techniques to restore, conserve and sustainably use natural resources. In Sarasota, the group is focused on scallop restoration efforts that Mote is conducting 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 volunteer citizen scientists. In December, high schoolers, community volunteers and scientists began building a new scallop nursery at Mote's City Island campus. The RIHN study is using this work as an exemplary case study of bottom-up solutions to environmental problems.

### OCEAN ACIDIFICATION AND CLIMATE CHANGE

are global threats to coral reefs. Research to understand the effects, mitigate the impacts and restore reefs took a leap forward during an international workshop in Israel. During the workshop, scientists and students from six nations exchanged knowledge and partnered for a marathon of intensive, novel studies. The **1st International Workshop on Impacts of Ocean Acidification and Climate Change on Corals and Coral Reefs** was co-hosted by Mote and the Interuniversity Institute for Marine Sciences (IUI) in Eilat, Israel, and brought together participants from Germany, Israel, Italy, the Netherlands, the U.K. and the U.S.



Scientists gathered for the 1st International Workshop on Climate Change and Coral Reefs hosted by Mote and IUI.



## Strategic Priority 2

*Use focused staff recruitment and nurturing programs to ensure the long-term success of the research enterprise...*

### Next Generation Science

The need is great to nurture and support the next generation of men and women who will lead the scientific discoveries of tomorrow if we are to ensure a healthy and innovative research enterprise for the future. At Mote, we support the next generation in a number of different ways.

#### THE MOTE POSTDOCTORAL FELLOWSHIP

**PROGRAM**, funded entirely through philanthropic donations, supports young researchers doing outstanding work early in their careers. In 2013, Mote Postdoctoral Fellow **Dr. Justin Perrault**, 29, joined Mote. Dr. Perrault received his Ph.D. from Florida Atlantic University and today is focused on toxicology and health of marine animals, with a current focus on marine turtles, especially in understanding their toxin loads and how these loads affect nesting success. One question he'd like to answer: "Are reptiles more or less tolerant of toxins than other vertebrate species and do their current toxicologic loads pose a threat to their health and survival?"

Another new postdoctoral researcher who joined Mote in 2013 is **Dr. Abraham Robinson II**.

He holds both a Ph.D. and a DVM from Texas A&M University, where his enrollment in a dual program allowed him to learn both animal care — particularly comparative medicine — and to focus on environmental and food safety toxicology. At Mote, this dual training is allowing Robinson to conduct scientific studies focused on food safety and provide care for animals in the Lab's public outreach facility, Mote Aquarium, and for patients in our nationally recognized hospitals for dolphins, whales and sea turtles. His studies focus on assessing and improving domestic and international aquaculture seafood supply and reducing environmental impact of aquaculture and other agricultural and industrial activities.

**FRESHMEN FROM THE University of South Florida Sarasota-Manatee (USFSM)** joined us on our Sarasota Campus this year in newly created teaching labs. This Mote and USFSM program leverages the strengths of both institutions in a marriage of research and academics. Mote

Dr. Abraham Robinson and Lynne Byrd release a sea turtle in Boca Grande.







REU students and their mentors: Alyssa Stevens, Dr. Emily Hall, Dan Merselis, Hannah Aichelman and Dr. Erin Muller.

scientists are teaching and sharing their world-class research experience with students who will one day be the next wave of Florida's scientists, engineers, technicians and business visionaries. The Mote-based teaching labs are the site for all USFSM biology and chemistry classes and an inquiry-based bachelor's degree program in biology.

**WE CELEBRATED OUR TENTH SUCCESSFUL YEAR** of hosting the **National Science Foundation-funded program Research Experiences for Undergraduates**. This program is designed to give undergraduate students hands-on experience in developing and implementing a research project that they create. With 33 Ph.D.s on staff, Mote is adept at keeping up with emerging fields of interest in the marine world. This prestigious NSF-funded program allows our seasoned researchers to share their knowledge and expertise with young students considering careers in science.

## Strategic Priority 3

*Positively impact society and the marine environment through translation and transfer of our science and technology and by increasing public connections to the marine environment...*

## Economic Connections

Our Gulf fisheries — commercial and recreational — support millions of Florida jobs and benefit our regional and state economies to the tune of billions of dollars per year. Mote's role in understanding the health of economically important fish species is one way that we help strengthen the local, regional and state economies. Another way Mote connects with society is through Mote Aquarium, the public face of Mote research, which draws hundreds of thousands of visitors each year.

**A GRANT FROM THE NATIONAL FISH AND WILDLIFE FOUNDATION** is helping Mote to establish the first **center for electronic monitoring** of commercial fisheries in the Gulf of



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Mexico. By partnering with the Ocean Conservancy, Archipelago Marine Research Ltd., Gulf of Mexico Reef Fish Shareholders Alliance and East West Technical Services LLC., we are working with commercial vessels to document fishing activity with new electronic monitoring systems with digital video, computers, GPS and other technology.

**FISHERIES MANAGEMENT** is also important for recreational anglers — especially for game fish species like the storied silver kings of Boca Grande's historic tarpon fishery — which generates more than \$100 million annually for Florida's economy. In 2013, we began laying the groundwork for a large-scale underwater acoustic array that will allow us to track tarpon movements in and out of Boca Grande Pass each year.

**MOTE AQUARIUM RECEIVED ITS** third accreditation in a row from the **Association of Zoos & Aquariums (AZA)**. To be accredited, Mote underwent a thorough review to ensure it has and will continue to meet ever-rising standards of animal care, veterinary programs, conservation, education and safety. AZA requires zoos and aquariums to successfully complete this rigorous accreditation process every five years.

**MOTE WAS DECLARED** Cultural Organization of the Year by **The Greater Sarasota Chamber of Commerce** during the 23rd annual Frank G. Berlin, Sr. Small Business Awards, which drew 500 businesses and community leaders to celebrate small business.

## Strategic Priority 4

*Deliver responsible marine conservation and sustainable-use focused public service to local, regional, state, national and international communities...*

### Ocean Literacy for All

At Mote, we believe our mission goes beyond conducting world-class research. We must share our research knowledge with the scientific community, of course, but we must also help increase ocean literacy for all so that an educated and informed public can make sound decisions about our ocean resources. We believe that community partnerships, hands-on programs and supporting citizen scientists empower us all.

**OUR SCHOOL AND PUBLIC PROGRAMS** reached **29,536 children and thousands of adults**; our Mote Mobile and traveling exhibits reached more than a million people nationally and internationally. Mote's education programs in Charlotte County reached more than 6,000 participants and Mote hosted 30 high school interns and a record 180 college interns.

A Booker High School student conducts an experiment at Mote's Tropical Research Laboratory.







Former First Lady Laura Bush cutting the ribbon at the opening ceremony for the office on Boca Grande.

## EDEXPLORESRQ AND THE PATTERSON

**FOUNDATION** awarded Mote educators a grant for their efforts providing valuable **classroom and learning experiences** that allow students to explore the lives of manatees through science.

**BOOKER HIGH SCHOOL STUDENTS** joined us at our Tropical Research Laboratory in the Florida Keys to conduct independent research on climate change and ocean acidification. This hands-on exploration — which included team teaching by Mote scientists — was made possible by a grant from the **Community Foundation of Sarasota County** and will be a model for increasing students' ocean literacy, as well as promoting learning in STEM (science, technology, engineering and math) fields.

## WE EXPANDED OUR COMMUNITY PARTNERSHIPS

with a new satellite office on Boca Grande that allows residents and visitors to learn about our marine research programs in Charlotte Harbor, along with all the programs Mote undertakes from its main campus in Sarasota and its field stations. We were honored that **Former First Lady Laura Bush** helped us cut the ribbon during a grand opening ceremony attended by more than 100 people.

**HARMFUL ALGAL BLOOMS** impact communities across the U.S. to the tune of millions of dollars

each year. Mote and the Florida Fish and Wildlife Conservation Commission co-hosted the **7th Symposium on Harmful Algae in the U.S.** This important national conference was a critical venue for scientists, resource managers and public health experts to share their results across research specialties, explore trends and identify new areas of research needs. Co-chaired by Mote and FWRI, the cross-disciplinary meeting encouraged the exchange of ideas across specialty.

**FLORIDA'S CORAL REEF** got a boost in July when volunteers from the **Combat Wounded Veteran Challenge** and **SCUBAnauts International** joined us at work in our coral reef nursery in the Florida Keys. The story about the connections among Mote, wounded veterans regaining their lives and teens learning about science and the environment was featured on *The NBC Nightly News* and *The Today Show*. By the end of their two-day mission, the SCUBAnauts and veterans helped produce some 2,000 new coral fragments for later replanting, bringing the number of staghorn corals growing in Mote's nursery to about 10,000.

A combat wounded veteran and SCUBAnaut work in Mote's coral restoration site in the Florida Keys.







# CONNECTIONS



5K winners Kevin Smith and Heather Butcher.



Savannah Sheridan and Mote mascot Shelley the Sea Turtle.

## Run for the Turtles

Nearly 1,000 runners and walkers hit the beach to help endangered and threatened sea turtles during Mote's 27th Run for the Turtles in April on Siesta Key Public Beach. This sanctioned 5K and 1-mile fun run/walk, provides major support for Mote's Sea Turtle Conservation and Research Program — an internationally recognized program that coordinates and conducts sea turtle conservation along 35 miles of Sarasota County beaches. [Mote thanks event sponsors: ABC 7, Bright House Networks, Mote Scientific Foundation, United Natural Foods, Inc., Zephyrhills and New Balance.](#)







Aquarium Biologist Technician Andrew Angelo.

## World Oceans Day

Ocean enthusiasts flocked to Mote Aquarium in June for our World Oceans Day Family Festival to celebrate our oceans with themed games, crafts and more. World Oceans Day, celebrated internationally each year, is an opportunity to celebrate our connection to the sea. **Mote thanks event sponsors: IBC (Insurance and Benefit Consultants), Sarasota Herald-Tribune, Sam's Club and Willis A. Smith Construction.**



Kendall Fout does ocean crafts.

## Party on the Pass

In April, nearly 400 of our supporters joined us for our annual Party on the Pass held right here in Mote Aquarium. The evening featured a performance from the sea lions from our limited-engagement exhibit *Sea Lions: On the Water's Edge*. This good-food, good-time casual event supports our animal hospitals. **Mote thanks event sponsors: Mote Scientific Foundation and the Sarasota-Manatee Originals.**



Zach Carver checks out the critters in the touch pool.





From left to right (back row): Dr. James and Lizandra Locascio, Bayne and Trustee Jeanie Stevenson, Honorary Mote Trustee and Former U.S. Rep. Andy and Nancy Ireland. (Front row): Director of the Mote-Boca Grande Partnership, Capt. Philip and Mary O'Bannon and Cathy and Bill Klettke.

## Oceanic Evening

Nearly 400 sea supporters joined us for our annual black-tie fundraiser, Oceanic Evening, in October at The Ritz-Carlton, Sarasota. Together, we *Explored the Future* as we learned about President & CEO Dr. Michael P. Crosby's vision for the future of Mote's world-class marine science and education programs and met our next generation marine scientists. Guests enjoyed Mote's own highly praised and sustainably produced caviar and sturgeon, which was served during the event. **Mote thanks our event sponsors: Friends of Boca Grande, Caldwell Trust Company, PNC Wealth Management, UBS Financial Services, Willis A. Smith Construction, Sabal Trust Company, Trustee Paul and Kimberley Carreiro, Trustee Bob and Anne Essner, Mote Scientific Foundation, Trustee Nigel and Nathalie Mould, Rosie O'Donnell and Peggy Sears.**



Trustee Bob and Anne Essner.



Ariane and Bob Dart.

PHOTOS BY: Chris Fitzgibbons

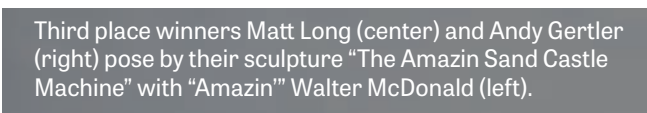




Karen Fralich and Dan Belcher won first prize for "Brainstorm (An Ode to Caffeine)."



The sculpture "World Breathe" by Michela Ciappini and Jan Zelinka took second place and sculptors' choice awards.



Third place winners Matt Long (center) and Andy Gertler (right) pose by their sculpture "The Amazin Sand Castle Machine" with "Amazin" Walter McDonald (left).



## Siesta Key Crystal Classic

An international field of sand sculptors helped make the Fourth Annual Siesta Key Crystal Classic Master Sand Sculpting Competition a success, drawing thousands to Siesta Key Public Beach and raising awareness for sea turtle conservation conducted by Mote. The event drew 10 master sand-sculpting teams from Canada, the Czech Republic, Italy, Latvia, Mexico, Poland, Germany and the U.S. The community event is organized by the Siesta Beach Festival Board.

We would like to thank our 2013 partners: Best Western Plus — Siesta Key; Gold Coast Eagle Distributing; ABC 7 (WWSB); Sarasota Herald-Tribune; Sarasota County Parks and Recreation; Siesta Key Chamber of Commerce and Visit Sarasota County. And sponsors: Presenting Sponsor Margaritaville Apparel and Gold Sponsor Benderson Development. Artist Team Sponsors included: Siesta Key Village Association; Siesta Key Association; Captain Curt's Oyster Bar; Beach Bazaar; Daquiri Deck Siesta Key; Benderson Development; Badger Bob's Appliances; Gold Coast Eagle Distributors; Margaritaville Apparel; and Sarasota Vascular Specialists.





## Florida Keys Ocean Fest

The Fourth Annual Florida Keys Ocean Festival drew more than 7,500 visitors for ocean-themed education and fun in March, benefiting coral reef research and restoration by Mote Marine Laboratory. The Festival, which took place at the Florida Keys Eco-Discovery Center in Key West, raised \$32,000 for Mote's Protect Our Reefs program — more than double the support raised the previous year. The festival helped to educate people of all ages about coral reefs and other natural ecosystems through conservation and environmental exhibits from more than 30 organizations. Children at the festival also joined renowned artist Wyland to paint two 10-foot-long murals.

Special thanks to event sponsors: Shakespeare Fishing, Berkley Fishing Tackle, Reef Safe Suncare, Fury Water Adventures, Smokin' Tuna Saloon, Charlie Mac's Barbecue, Okuma Fishing, Hyper Tech Films, Key West Harbor Services, Westin Key West Resort, Keys Energy Services, Looe Key Dive Center, Southernmost Hotel Collection, Bombora Vodka, NOAA, U.S. Coast Guard Auxillary, Centennial Bank, Blue Heaven, Little Palm Island/ Ocean Key Resort, First State Bank.



Jason Wolf, Mote's Protect Our Reefs program manager, radio personality Bill Hoebee and renowned marine life artist Wyland.



Tuna Trot winner Douglas Weeks.







# LECTURE SERIES

## Showcasing Scientific All-Stars

What happens when the “Diving Diva” meets “The Shark Lady?” Attendees had the opportunity to find out during our annual Special Lecture Series. The Series always offers an exciting lineup of presenters sharing their adventures and research and drawing new audiences to Mote.

The 2013 Series began with Mote’s own Founding Director, Dr. Eugenie Clark — The Shark Lady — co-presenting with Dr. Diane Nelson — the Diving Diva. Nelson and Clark met in 1982 at Temple University. Back then, Nelson had no idea that the pair would become close friends and she would join Clark on more than 15 expeditions. The Series brought them together again for the talk “From Water Bears to Whale Sharks.”

That was just one of the season’s exciting lectures. Audiences also had the opportunity to learn about the undersea life of Capt. Alfred Scott McLaren, a retired commander of a U.S. nuclear attack submarine. They also walked on the wild side during a trip through the Florida Wildlife Corridor with photographer Carlton Ward Jr.; journeyed underwater as they heard about

coral diseases devastating coral reefs from Mote scientist Dr. Erinn Muller; learned about harmful algal bloom climatology and forecasting with Dr. Dennis McGillicuddy of Woods Hole Oceanographic Institution and discovered the latest news in manatee and dugong conservation from Mote’s Dr. John Reynolds III, former chair of the U.S. Marine Mammal Commission.

By sharing knowledge from thought leaders like these, Mote hopes the Series engages multi-generational audiences who have a variety of interests and will help develop a more ocean-literate society.

— *Special thanks to Series underwriters Bob and Jill Williams.*

Captain Alfred Scott McLaren.







Special Lecture Series Underwriters Jill and Bob Williams.

## DONOR FEATURE

### Supporters' Love of the Oceans Runs Deep

Bob and Jill Williams' love of the ocean runs deep — deep enough to lead them to dive the Russian *MIR* submersible to the *Titanic* and to the hydrothermal vents off the Azores together. Mr. Williams also made a second dive to the *Titanic* and to the sunken German battleship, the *Bismarck* — becoming one of only 32 people to visit the resting place of this iconic battleship.

This passion is also what led them to support Mote in a variety of ways, including serving as the main sponsors of the annual Special Lecture Series.

"When we bought a second home on Longboat Key, we were very interested in learning about Mote Marine Laboratory," said Mr. Williams, Chairman of Genova Products Inc., a leading manufacturer of thermoplastic plumbing and building products. "I'd

been boating all my life and I was already interested in the oceans and the things they were doing at Mote right here in our area."

With Mr. Williams' support, Genova Products provided PVC pipes and fittings along with new decking materials for the Mote Aquaculture Park in eastern Sarasota County and the main campus in Sarasota. He also served as a member of Mote's Board of Trustees.

Today, he and Jill focus their personal support on the Special Lecture Series as a way to help increase interest in and knowledge of Mote and in ocean research and exploration in general. Although community support and participation is extremely important, Mr. Williams believes that Mote is destined to play on a national stage and the Lecture Series is a vehicle that will assist in that goal. With his background in business, he was looking for



concrete ways to help Mote find broader public recognition and support that would extend beyond the Sarasota community.

"We really wanted to help put Mote on a larger stage and help bring in some dynamic speakers who would draw a larger audience from the wider ocean community," Mr. Williams said. "We thought that would help lead to greater visibility for Mote — to be a catalyst for exposure."

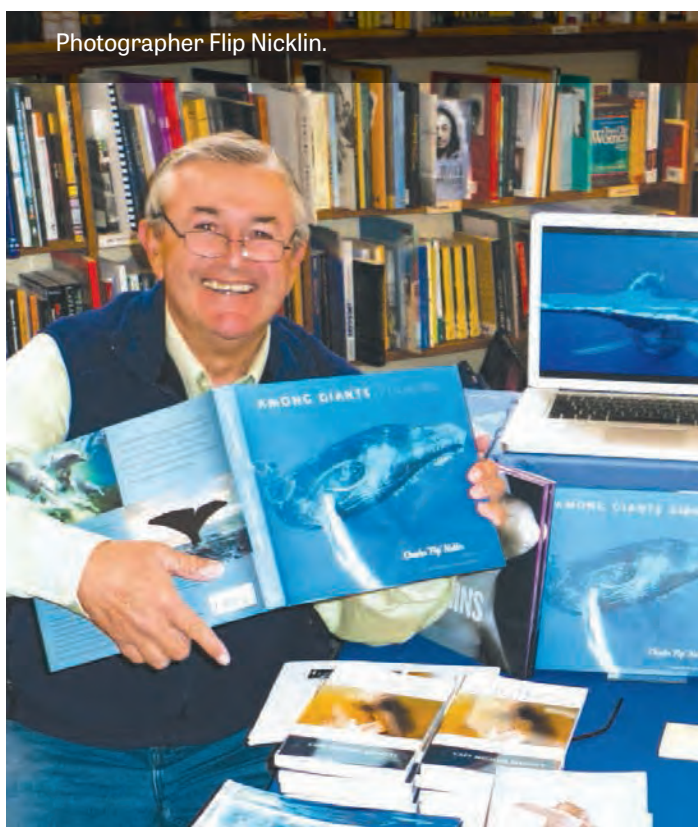
It certainly has been. Thanks to the Williamses, Mote has been able to bring nationally and internationally known speakers to the region, including Dr. Alfred Scott McLaren, U.S. Navy retired, and a veteran of more than 20 Cold War submarine operations. Another deep ocean legend the Williams' brought to Mote was Capt. Don Walsh who dove seven miles to the deepest spot in the ocean, Challenger Deep, with Jacques Piccard in the *Trieste* submersible in 1960.



Filmmaker Mike DeGruy.

Over the years, we've also been pleased to host Jim Toomey, nationally syndicated cartoonist of *Sherman's Lagoon* fame, *National Geographic* photographer Flip Nicklin, who has taken some of the most breathtaking images of whales in the world as he works alongside scientists documenting the animals' behavior, and Mike DeGruy, who was a natural history filmmaker known for his work on *Blue Planet* and numerous other films.

"The most beneficial speakers who have taken part in the Lecture Series thus far have been those who have truly amazing stories to tell regarding their true life experiences," Mr. Williams said. "Living those experiences vicariously leaves one thinking that although they might not spontaneously jump into such an adventure, they secretly wish that they could."



Photographer Flip Nicklin.

Cartoonist Jim Toomey provided Mote with a special drawing of Sherman, his popular shark character from *Sherman's Lagoon*.







## Their Time is Our Treasure

Volunteers play a crucial role at many organizations — sharing their expertise, time and talents — in support of a mission they believe in. But few organizations can count on the level of support that we are fortunate to enjoy here at Mote.

Our volunteers — 1,685 of them! — donate thousands of hours each year, serving as docents in Mote Aquarium, supporting scientists in the Laboratory and even helping administrative support departments. In 2013, their collective efforts amounted to 210,337 hours of service.

During our annual Volunteer Awards Ceremony in April, we recognized volunteers with one, three, five, 10, 15, 25 and 30 years of service. **Volunteers who have served more than 4,000 hours total during their lifetimes (pictured above) also received the national President's Volunteer Service Award.**

“We did a little math to figure out how many total years of service we’ve had from the group that was honored and it amounted to 1,200 cumulative years. That’s impressive!” said Mote President & CEO, Dr. Michael P. Crosby.

### President's Call to Service Award

Joe Malaney  
Ginny O'Doherty  
Gwen Ross  
Diane Kestner  
Judy Shannon  
Norma Pennington

### 25-Year Award

Ethel Athanas  
Ronnie Enander  
Diane Jones  
Bert Taylor

### 20-Year Award

Mary Anderson  
Toni Anthony  
Morton Kallman  
Norman Lewis  
Doris Anne Lucia  
Robert Lucia  
Nicole Machenheimer  
Don Marshall  
Bobi Sanderson  
Bill Thibodeau



*“People around the world  
are impressed to hear that  
we have so many volunteers  
doing so much.”*

— Dr. Michael P. Crosby, President & CEO

## THE 2013 VOLUNTEER BOARD

**President: Sue Stolberg**

**Vice President: Bob Cameron**

**Treasurer: Diane McKissick**

**Secretary: Dick Miller**

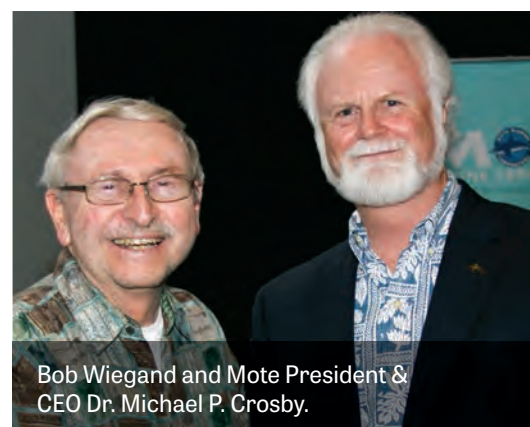
## THANK YOU FOR 30-Years of Service to Mote

### Bob Wiegand

Bob has supported Mote's education and outreach efforts since 1983, just three years after the Lab opened its public outreach facility, Mote Aquarium. Over the years, he has assisted with videoconference programs connecting kids with real marine explorers, guided visitors in the Aquarium, served in the gift shop and more. He was among the first-ever Day Chairs of Mote's volunteer corps and today he is an outstanding Aquarium guide and mentor to others. Thank you, Bob!

### Pauline Becker

In her early years volunteering at Mote, Pauline assisted in the gift shop and served as Treasurer of Friends of the Mote Library, a group of volunteers who raise funds and provide other support for Mote's Arthur Vining Davis Library. Pauline volunteered in the Library for many years as a typist and helped prepare materials such as book spine labels and donation book plates. She also helped log, label and organize peer-reviewed journals. Her help was invaluable in providing resources, reference and research materials to scientists, students and the public. Thank you, Pauline, for all you've done!



Bob Wiegand and Mote President & CEO Dr. Michael P. Crosby.



Pauline Becker and Dr. Kumar Mahadevan, Mote President Emeritus.



# DONORS

## **\$500,000 and more**

**Estate of Jean P. Hendry**

## **\$250,000 - \$499,999**

**Anonymous**

**The Community Foundation of Sarasota County**

**Give Well Community Foundation**

**Mote Scientific Foundation**

## **\$100,000 - \$249,999**

**Anonymous**

**Anonymous**

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**Estate of Theodore Stasichin**

## **\$50,000 - \$99,999**

**Arts and Cultural Alliance of Sarasota County**

**Margaret J. Cox Trust**

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**Ms. Judy Graham**

**Jane's Trust Foundation**

**Ms. Penelope L. Kingman**

**Marisla Foundation**

**Mr. Nigel P. Mould and Ms. Nathalie Randanne de Vazeille**

## **\$10,000 - \$49,999**

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**BMO Harris Bank**

**Caldwell Trust Company**

**Mr. and Mrs. Mickey Callanen**

**Combined Federal Campaign**

**Michael and Marcia Corrigan**

**Mr. and Mrs. Frederick M. Derr**

**Disney Worldwide Conservation Fund**

**Mr. and Mrs. Richard O. Donegan**

**Frank E. Duckwall Foundation, Inc.**

**Julius Fleischman Foundation**

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**Ms. Susan C. Gilmore**



Ken and Amy Sussman with Crystal and Bill Lahners.

\*Denotes donors who have provided support for five consecutive years or more.



## GIVING CHALLENGE

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Guy Harvey Ocean Fund, Inc.

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Mosaic Fertilizer, LLC

National Save the Sea Turtle Foundation

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Save Our Seas Foundation

Estate of Ulla R. Searing

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The Challenge is made possible by the Community Foundation of Sarasota County, The Patterson Foundation, Manatee Community Foundation, John S. and James L. Knight Foundation, William G. and Marie Selby Foundation and the Charlotte Community Foundation.

Thanks to the significant backing of our community of supporters and an internal match made possible by two of our anonymous donors, Mote raised **\$127,742** during the 2013 Challenge.

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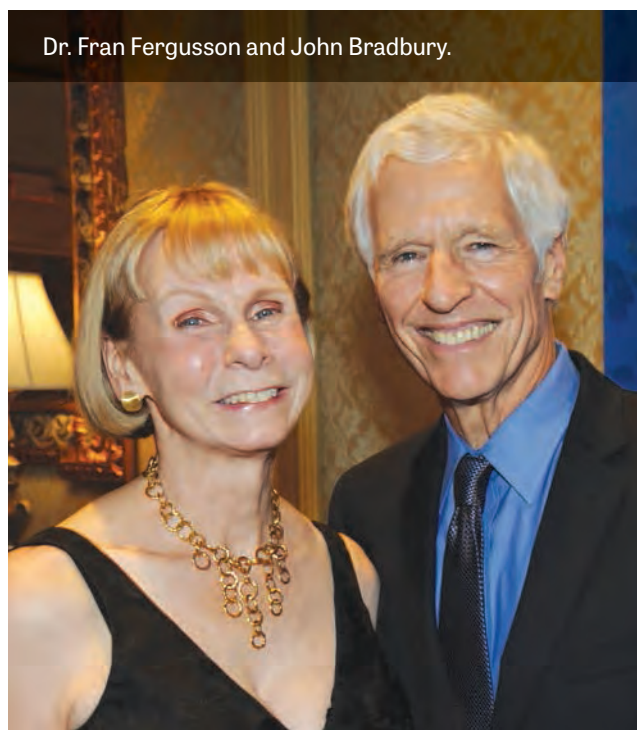
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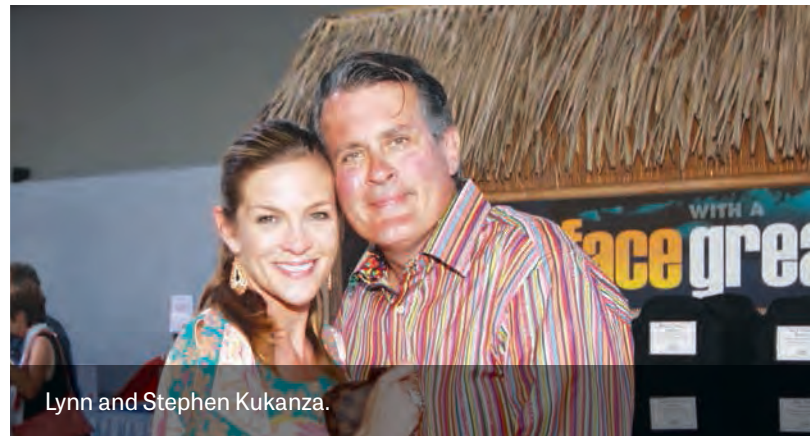
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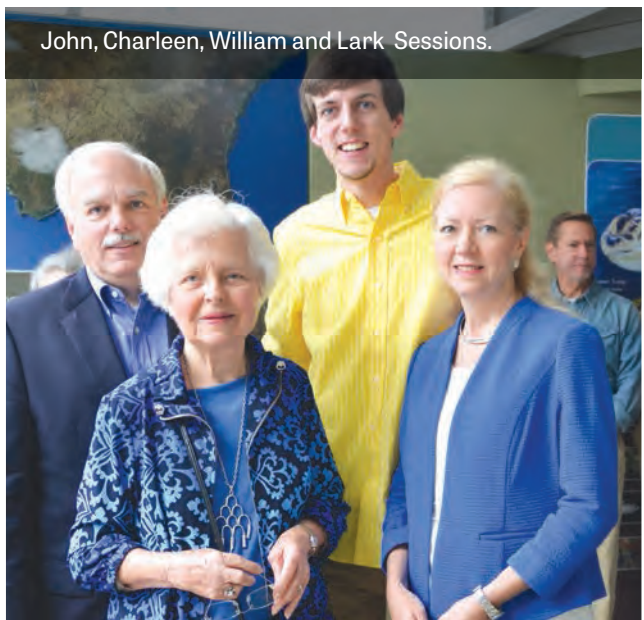
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*Perry W. Gilbert 1912-2000*



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*\*Denotes members from Sarasota*

From left to right (back row): Nicole and Matt Plummer; Sandy and Jeanie Kirkpatrick, Jennifer and Dan Vigne. (Front row): Glenda and Dan Miller, former U.S. Congressman, Dorene and Sam Seider, Mote Trustee.



Dr. Michael P. Crosby and Kimberley Carreiro.





# 2013 FINANCIALS



**46%** ■ **Research<sup>1</sup>** \$10,171,997  
**25%** ■ **Education & Outreach<sup>2</sup>** \$5,423,446  
**29%** ■ **Contributions, Memberships, Other** \$6,435,357

*\* Does not include beneficial interest in Mote Marine Foundation*

<sup>1</sup>**Research** includes Protect our Reefs program and Mote Aquaculture Park management

<sup>2</sup>**Education and Outreach** includes Aquarium and science education programs



**83%** ■ **Program Services** \$17,102,968  
├─ **58%** ■ **Research<sup>1</sup>** \$11,894,429  
└─ **25%** ■ **Education & Outreach<sup>2</sup>** \$5,208,539  
**9%** ■ **Administrative & General** \$1,848,121  
**8%** ■ **Fundraising** \$1,660,625



## SEAWATER SYSTEMS

RESEARCH  
**1,224,152** GAL.  
EXHIBITS  
**614,680** GAL.

## RESEARCH

**81** RESEARCH STAFF  
**32** DOCTORAL LEVEL  
**77** PUBLICATIONS  
**12** PUBLIC POLICY

**22** RESEARCH PROGRAMS

## NET ASSETS

**\$18.9 million** LAB  
**~\$15 million** FOUNDATION (ENDOWMENT)

## ECONOMIC IMPACTS

**\$96.8 million** REGIONAL / STATEWIDE

FLORIDA SPECIALTY LICENSE EST. 2003  
**PLATE**

PROTECT OUR REEFS  
**\$936,950**  
TO SUPPORT CORAL REEF RESEARCH, RESTORATION & EDUCATION



# 2013 VITAL STATISTICS MOTE BY THE NUMBERS

Incorporated as 501(c)(3) Nonprofit in 1955

## VOLUNTEERS & STAFF

**198** TOTAL STAFF  
**1,685** VOLUNTEERS  
**212,337** HOURS CONTRIBUTING MORE THAN A YEAR

## EDUCATION

**23** EDUCATION PROGRAMS  
**16** EDUCATION STAFF

Behind the Science • Birthday Parties • Breakfast at Mote • College Internships • Field Trips • High School Internships • High School Volunteers • Home School Programs • Kayaking with Mote • Mommy & Me • Mote Science Cafes • Outreach Programs • Partnership Schools • Research Experience for Undergraduates (REU) Scout Badges & Patches • SeaTrek Distance Learning • SeaSnooze Overnights • South Africa Expedition • Special Lecture Series • Summer Camp Programs • Teacher Workshops • Traveling Exhibits • Volunteer Opportunities

## 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  
Pineland, FL

PUNTA GORDA FIELD OFFICE  
Punta Gorda, FL



## MEMBERSHIPS

**11,000+** INDIVIDUAL  
**160+** CORPORATE

## AQUARIUM

**35** AQUARIUM STAFF  
**8** OFF-SITE AQUARIUMS  
**1** DOCTORAL LEVEL

**345,034** 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)



PEOPLE SERVED\*  
**29,536** Grades K-12  
**180** College Level

\* INCLUDES IN-SCHOOL, DIGITAL LEARNING AND ON CAMPUS PROGRAMS

MOTE TROPICAL RESEARCH LAB  
Summerland Key, FL 1 acre

LIVING REEF EXHIBIT NOAA ECO-DISCOVERY CENTER Key West, FL

**31** TOTAL BUILDINGS & STRUCTURES  
**320,049** TOTAL SQUARE FEET





# PUBLICATIONS

## Books/Reports Authored or Edited

**Lausche, B.**, D. Farrier, J. Verschuuren, A. G. M. La Viña, A. Trouwborst, C.H. Born, and L. Aug. *The Legal Aspects of Connectivity Conservation: A Concept Paper*. Gland, Switzerland: International Union for Conservation of Nature, 2013. <https://portals.iucn.org/library/efiles/documents/EPLP-085-001.pdf>

## Theses/Dissertations

**Dussán-Duque, B.S.** "Ecology of the Guiana dolphin (*Sotalia guianensis*) in the southern area of the Gulf of Morrosquillo, Colombia: implications for conservation." Ph.D. Dissertation, University of St. Andrews, Scotland, 2013. **R.S. Wells**, supervisor.

**Fauquier, D.A.** "Impact of *Karenia brevis* Blooms on Seabird Populations in Sarasota Bay, Florida." Ph.D. Dissertation, University of California, Santa Cruz, 2013. **R.S. Wells**, major advisor.

**Gaspard, J.C. III.** "Tactile abilities of the Florida Manatee (*Trichechus manatus latirostris*)." Ph.D. Dissertation, University of Florida, Gainesville, FL: 2013. **D. A. Mann**, committee member. <http://ufdc.ufl.edu/UFE0045261/00001>

**Gryzbek, M. K.** "A visual body condition index for bottlenose dolphins (*Tursiops truncatus*)." Master's Thesis, University of Florida, 2013. **R. Wells, W.**

**Pine**, and **D. Pabst**, advisors. <http://ufdc.ufl.edu/UFE0045992/00001>

**Mallette, S.** "Ontogenetic allometry and body composition of the common bottlenose dolphin (*Tursiops truncatus*) from the U.S. mid-Atlantic." Master's Thesis, University of North Carolina, 2013. **R. S. Wells**, advisor.

## Articles/Book Chapters/Reviews

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**Balmer, B.C.**, L.H. Schwacke, **R.S. Wells**, J.D. Adams, R.C. George, S.M. Lane, W.A. McLellan, P.E. Rosel, K. Sparks, T. Speakman, E.S. Zolman, and D.A. Pabst. Comparison of abundance and habitat usage for common bottlenose dolphins between sites exposed to differential anthropogenic stressors within the estuaries of southern Georgia, U.S.A. *Marine Mammal Science* 29, no. 2 (April 2013): E114-E135. doi: 10.1111/j.1748-7692.2012.00598.x





Animal Care Coordinator Lynne Byrd takes a blood sample from a loggerhead sea turtle.

**Bassos-Hull, K.**, R.M. Perrtree, C.C. Shepard, S. Schilling, **A.A. Barleycorn, J. B. Allen, B.C. Balmer, W.E. Pine,** and **R.S. Wells**. Long-term site fidelity and seasonal abundance estimates of common bottlenose dolphins (*Tursiops truncatus*) along the southwest coast of Florida and responses to natural perturbations. *Journal of Cetacean Research and Management* 13, no. 1 (2013): 19-30.

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Bretos Trelles, F., J. Azanza Ricardo, and **A. D. Tucker**. "Fifteen years of research on green turtles at Guanahacabibes Peninsula: a retrospective of community based turtle conservation and research in Western Cuba." In *Proceedings of the Thirty-Third Annual Symposium on Sea Turtle Biology and Conservation, Baltimore, Maryland, USA, 2-8 February 2013*. NOAA Technical Memorandum NMFS-SEFSC-645, 171-172. [http://www.sefsc.noaa.gov/turtles/TM\\_645\\_Tucker\\_etal\\_Baltimore\\_2013.pdf](http://www.sefsc.noaa.gov/turtles/TM_645_Tucker_etal_Baltimore_2013.pdf)

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Stranding Investigations Program Manager Gretchen Lovewell moves a deceased pantropical spotted dolphin.

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**Fauquier, D.A.**, L.J. Flewelling, J. Maucher, **C.A. Manire**, **V. L. Socha**, M.J. Kinsel, B.A. Stacy, **M.S. Henry**, **J.G. Gannon**, J.S. Ramsdell, and J.H. Landsberg. Brevetoxin in blood, biological fluids, and tissues of sea turtles naturally exposed to *Karenia brevis* blooms in central west Florida. *Journal of Zoo and Wildlife Medicine* 44, no. 2 (2013): 364-375.

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**Gardiner, J.M.**, J. Atema, **R.E. Hueter** and **P.J. Motta**. Sensory switching in sharks: the role of multimodal stimuli in prey tracking and capture. SICB 2013 Annual Meeting Abstracts (January 3-7, 2013, San Francisco, CA): Symposia and Oral Abstracts. *Integrative and Comparative Biology* 53, Supplement no. 1 (2103): e74. doi: 10.1093/icb/ict013





Mote Scientist Michael Henry in the Ecotoxicology Extraction Lab.

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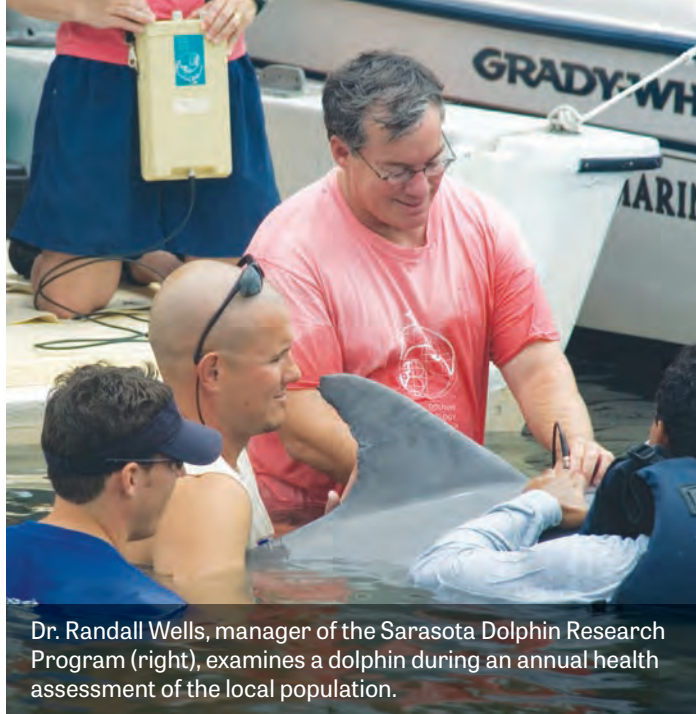
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Dr. Dana Wetzel conducts an experiment to determine what happens when coral larvae is exposed to oil.







Dr. Randall Wells, manager of the Sarasota Dolphin Research Program (right), examines a dolphin during an annual health assessment of the local population.

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Dr. Kim Ritchie dives near a healthy stand of corals in Cuba.



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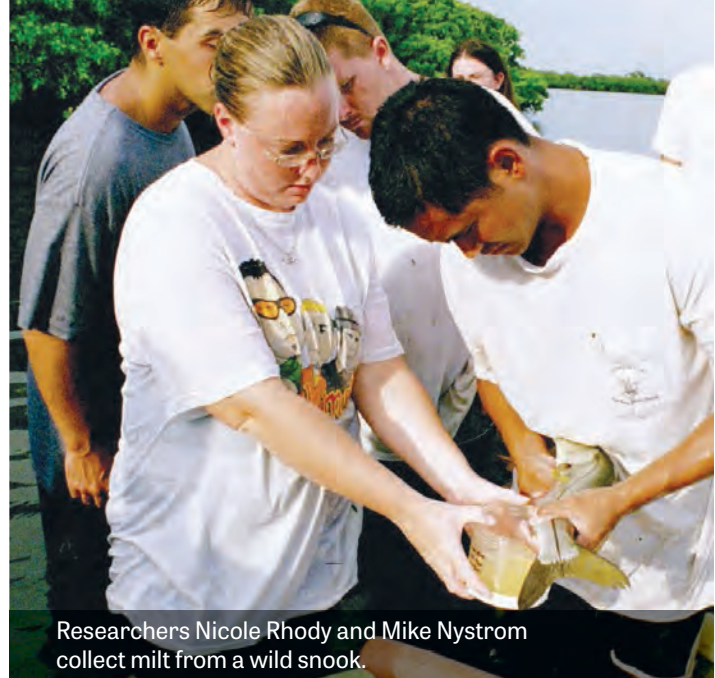
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# LOOKING AHEAD

## Women's Giving Circle

With the growing influence of female philanthropists, we've created the Women's Giving Circle, a new initiative meant to empower the women who support Mote as they help to address ocean issues they are passionate about.

Our Women's Giving Circle will help foster new friendships with fun activities — like 2015's Tea for the Sea event chaired by Kimberley Carreiro — while allowing supporters the opportunity to create their own powerful impact. Through this group, we hope to build a diverse group of female philanthropists who will also serve as ambassadors to help others deepen their relationship with, support for and advocacy on behalf of Mote.

For more information on how you can become a part of the Women's Giving Circle, please call Erin Knievel at (941) 388-4441, ext. 415.

*Dr. Fran Fergusson, Maryann Armour,  
and Melody Suzor at Tea for the Sea,  
a Women's Giving Circle event.*

## Our 60th Anniversary

In 2015, we will celebrate our 60th Anniversary!

As we gear up to celebrate this milestone year and our many accomplishments, we are also taking stock of the important role our many supporters, volunteers, members and donors have played over the last 60 years that have allowed us to make our mark on the world stage.

We hope you will join with us in celebrating 60 years of making a difference — and the next 60 years to come!





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## **MAIN CAMPUS AND ADMINISTRATIVE OFFICES**

**Mote Marine Laboratory**  
1600 Ken Thompson Pkwy.  
Sarasota, FL 34236  
Phone: (941) 388-4441

## **RESEARCH FIELD STATIONS (BY APPOINTMENT ONLY)**

**Mote Aquaculture Park**  
12300 Fruitville Road  
Sarasota, FL 34240  
Phone: (941) 388-4541

**Charlotte Harbor Field Station**  
P.O. Box 529  
St. James City, FL 33956  
Phone: (239) 283-1622

**Tropical Research Laboratory**  
24244 Overseas Highway  
Summerland Key, FL 33042  
Phone: (305) 745-2729

## **PUBLIC OUTREACH LOCATIONS (OPEN TO THE PUBLIC)**

**Mote Aquarium**  
10 a.m. to 5 p.m. 365 days a year. (Admission charge)  
1600 Ken Thompson Pkwy.  
Sarasota, FL 34236  
Phone: (941) 388-4441

**Boca Grande Office**  
Summer/Winter schedules vary.  
Please call ahead. (Free)  
480 East Railroad Ave., Unit 7, Railroad Plaza  
(Mailing address: PO Box 870)  
Boca Grande, FL 33921  
Phone: (941) 855-9251

**Mote Living Reef Exhibit at the NOAA  
Eco-Discovery Center**  
9 a.m. to 4 p.m. Tuesday through Saturday  
Closed on Thanksgiving and Christmas. (Free)  
35 East Quay Road  
Key West, FL 33040  
Phone: (305) 296-3551



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