

MRG 2020 Annual Report

Celebrating 30 Years!



SaveTheIRL.org

Photo by John Massung

Our Mission

To improve water quality and to protect and restore the fish and wildlife resources of the Indian River Lagoon, coastal waters, inshore reefs, and the watershed by advocating and using sound science, education, and the involvement of the public at large.

2020:

The One with the Covid-19 Pandemic

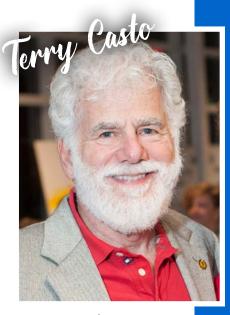
Wow! What a year it has been. Marine Resources Council is fortunate to have a capable team who took the pandemic challenge and ran with it. The MRC team grew stronger, more efficient, and highly adaptive to successfully complete projects. We turned our Lunch and Learn seminars into live webinars, implemented a Covid response plan to reduce risk to our staff and volunteers, closed the Lagoon House which is open by appointment only, created e-learning school lessons to be implemented in virtual classrooms, and cancelled all fundraising events. The projected revenues not received from our wildly successful (and fun) fundraising events was nearly made up entirely by the generous outpouring of community support during our End of Year Campaign. Thank you! We couldn't keep doing what we do without your support!

Land development has begun to explode again and MRC spent much of 2020 advocating for a better way to develop land that protects floodplains, manages stormwater holistically, and provides efficient waste management. We continued to coordinate the LagoonWatch volunteer water quality network and share data on the ZiScape website. We added two more years of data to the IRL Report Card, taking it through the year 2019. We completed two shoreline restoration projects and sold over \$30,000 of mangroves to restoration managers and homeowners all over the country. We also helped the City of Palm Bay measure muck depths in Turkey Creek, providing important data for muck management and removal.

In 2020, we should have been celebrating 30 years of MRC working with the community for the health of the Indian River Lagoon. We are looking forward to 2021, when we can work, socialize, and celebrate together. Thank you for all that you do for the Indian River Lagoon coastal estuary.



Executive Director



Board Chairman

Inside:

30 Year Timeline Pages 4-5

Science ProgramsPages 6	-7
Restoration Programs Pages 8 -	9
Education Programs Pages 10 -	11
Financial ReportPage	12
Board of Directors & Staff Directory	15

30 Years of Marine Resources Council

For thirty years, the Marine Resources Council (MRC) has worked to create consensus on lagoon issues using science



Founding members at the first MRC office in Grant, FL.

Began

at FIT as

between

community

leaders and

professors.

a partnership

 Held first Hands Across the Lagoon event.

 Started publishing The Marker newsletter.

46 00

 Wrote the first Indian River Lagoon Management Plan.

 Held the 1st American Assembly.

 Compiled Lagoon science into 3 edited monographs on the IRL.

 Conducted 2nd American Assembly focused on management issues and priorities.

 Established the Indian River Lagoon as an Estuary of National Significance.

became a

501(c)(3)

nonprofit

corporation.

stand-alone.

Formally

 Started eco-neighborhoods, a precursor to FL Yards and Neighborhoods.

 Launched citizen science monitoring program "LagoonWatch" that became the standard for citizen science monitoring programs everywhere.

 Passed the Indian River Lagoon Act ending untreated sewage discharges to the lagoon.

• MRC's LagoonWatch Program awarded the President's **Environment and Conservation** Challenge Award.

• 1991-1995 Coordinated annual "Lagoons Assemblies" to build consensus on issues of coastal management.

 Awarded 1st Governor's Environmental Education Award.

 Coordinated Hands Across the Lagoon.

Local environmental group wins national honors

Partnership efforts with business and government



Founding Executive Director, Diane Barile, accepting the Presidential Medal for Environmental Initiatives - 1991

Established the Right Whale Volunteer Sighting Network to prevent vessel strikes of right whales.

 Submitted Indian River Lagoon Blueway application to purchase 9,000 acres of buffer lands.

 Applied for funding to acquire Malabar Scrub Sanctuary, Turkey Creek Sanctuary, the Melbourne Harbor House Park, Castaway Point, Queen's Island, and 46 acres on Jupiter Island. MRC still manages these properties today.

00

 Established US1 and ATA as a Florida Scenic Highway and in 2001 established it as a National Scenic Byway.

1985

1990

1995

2000

Marine Resources Council 2020 Annual Report

Turning Science into Action

and community participation to benefit the habitats in the Indian River Lagoon coastal estuary system.

Initiated Fast

Now education

Coast Be

Floridian

campaign.

Lagoon Action

consensus on

113 priority

actions for

the Lagoon.

• Held the inaugural

and learning

aroundwater

study to investigate

the extent to which

septic tanks are

polluting the

laaoon.

festival.

• Initiated a

LagoonFest music

Assembly

reached

 MRC Volunteers won the National Make a Difference Day for restoring 4 acres of lagoon shoreline in one day in honor of a vouna boy who lost his life in the 9/11 tragedy.

Ted Moorhead Lagoon House opened

in Palm Bay as the Welcome Center

for the Indian River Lagoon National

Acquired St. Sebastian Greenway

forested wetland, and southern

property of rare coastal hammock,

Scenic Byway.

flatwood habitats.



The 2013 Hands Across the Lagoon event, which engaged 5.000 people on 8 different causeways.

- Participated in State Capitol Clean Water Summit event in Tallahassee.
- Coordinated the Melbourne Causeway in the Hands Across the Lagoon event.
- 2013 2015 Supported the passage of 42 local fertilizer ordinances in the lagoon watershed.

- 2nd Annual LagoonFest music and learning festival.
- Launched first STEM Youth Summer Camp at the Ted Moorhead Lagoon House.

- 2017 2019 MRC received legislative funding from Brevard County to study groundwater pollution.
- 2017 2020 MRC released Annual Comprehensive Indian River Lagoon Health Report Card.



Executive Director, Dr. Leesa Souto, lobbying in Tallahassee, FL.

- Lagoon Communications Assembly initiated Lagoon SMART Committee.
- 3rd Annual LagoonFest brought George Clinton and the P-Funk, walking billboard scientists. and live mermaids to the Lagoon House.
- MRC advocated for SOIRL sales tax in Brevard County.

- Installed a breakwater at the Lagoon House to protect the bluff from erosion and to showcase oyster substrates.
- Launched IRL Climate.org, the first website dedicated to climate issues and the IRL.
- · Accelerated the use of Low Impact Development practices to reduce stormwater pollution.

2005

2010

2015

2020

Science

Founded by scientists who shared a goal of integrating science into the community, MRC has a long standing commitment to citizen science and research to support strategic actions.

LagoonWatch

MRC's oldest running program continued during the 2020 Covid–19 crisis with the majority of our Citizen Scientists conducting their weekly water quality monitoring from their own home docks where they could keep track of the lagoon's health while preserving their own. LagoonWatch data including pH, salinity, secchi depth, temperature, water depth and dissolved oxygen values are all on MRCs' website. Volunteers can view and access their data online through the ZiScape platform, developed and donated by Blue Siren, Inc.

Spoil Island Surveys

MRC citizen scientists conducted surveys of recreational users of the spoil islands from Brevard to St. Lucie Counties to help state agencies update spoil island management plans.



- 2,310 survey data collected
- 4,116 water quality data collected
- 2.2 million data analyzed

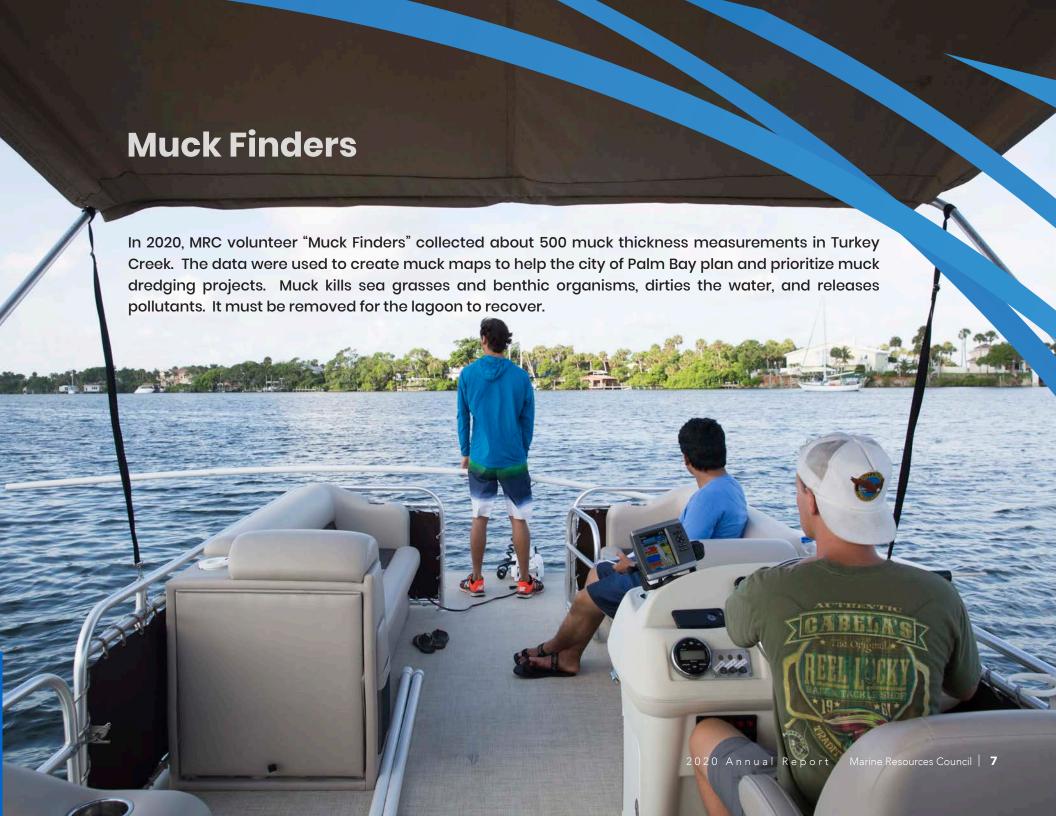
Brevard County Groundwater Study

MRC continued to partner with Brevard County and Applied Ecology, Inc. to conduct groundwater monitoring of 45 wells in communities with septic tanks, those with sewer systems, and those with sewer systems and reclaimed water for irrigation. To date, nearly 10,000 groundwater data have been collected to guide, prioritize, and evaluate septic to sewer conversion and wastewater upgrade projects.

North Atlantic Right Whale Program

The 2020 right whale calving season brought 25 individual whales to the southeast U.S. calving grounds, 4 of whom were yearlings. Ten calves were born, and one was to a first time mom, Catalog #3560. MRC tracked the new mom and her calf south through Vero Beach before she took her calf into the Gulf of Mexico. Sadly, at 6 months of age, the calf was found dead off the coast of New Jersey as the result of two different vessel strikes.







The lagoon needs natural shorelines and buffer lands that filter sediments, absorb pollutants, and prevent erosion.

Mangrove Nursery

MRC has a licensed mangrove nursery where we cultivate and sell mangroves for shoreline stabilization and restoration projects. These plants provide nutrient uptake, wildlife habitat, storm protection, and erosion control. In 2020, MRC sold over \$30,000 in mangroves.

Jupiter Island Greenway

The Jupiter Island Greenway is a 45 acre Florida Communities Trust conservation property owned by the Town of Jupiter Island and managed by MRC. Every year, MRC staff and volunteers remove and treat acres of invasive plants in order to allow native habitat to return.

Sebastian Greenway

MRC owns and manages 8 acres of conservation land on the South Prong of the St. Sebastian River. The Greenway was funded by the Florida Communities Trust, and provides important wildlife habitat, a buffer for the Sebastian River, and flood protection to surrounding neighborhoods. MRC will be launching the Sebastian Greenway Capital Campaign in 2021 to build an outdoor classroom and composting lavatory, mark trails, build a boardwalk and create a welcome center.



Living Shorelines

With volunteer support, MRC completed two Save Our Indian River Lagoon (SOIRL) funded living shoreline plantings: one at Suntree Rotary Park and one at Fisherman's Landing. In addition, MRC provided 550 nursery-grown mangroves to the community, as well as provided design and permit assistance to homeowners pursuing living shorelines.











Education

Education and community engagement are critical to protecting the Indian River Lagoon. Social science provides the research framework for targeting audiences, prioritizing projects, and evaluating behavior change.

Youth Education

MRC continued to expand youth education programs, holding a modified Covid-safe summer camp in 2020. With the addition of virtual programs and field-trips, we were able to reach over 2,600 students aged 4-18, covering topics related to stormwater, mangroves, and ecosystem dynamics.

Lunch and Learn Seminars

MRC revamped our long-standing Brown Bag Lunch events to virtual, online Seminars, viewed by almost 1,000 attendees. Area experts spoke on a wide range of topics such as manatees, the history of the lagoon, fishing gear solutions to protect North Atlantic right whales, and coral reefs.

Lagoon SMART Committee

The Lagoon SMART Committee met virtually to develop messages for lagoon stewardship, to create a directory of existing lagoon education programs, and to share social marketing research that help guide and evaluate programs.

Rain Barrel Workshops

Reducing the flow of stormwater into the lagoon will help restore the Lagoon's water quality. MRC distributed 169 rain barrels to homeowners in 2020, preventing 219,700 gallons of stormwater from entering the Lagoon.

Indian River Lagoon Report Card

The Indian River Lagoon Health Report Card translates water and seagrass quality into easy to understand info-graphics and grades. The report has successfully been used to guide scientific investigation, raise awareness, inspire advocacy, and inform policymakers. In 2020, MRC produced



the 3rd Annual State of the Lagoon Report Card which included:

- 137,202 agency data including 25 years of seagrass and 23 years of water quality data
- 10 lagoon regions and 12 tributaries from Ponce Inlet to Jupiter Inlet
- Scored and color-coded tables and maps to easily see changes over time and space

Be Floridian Now Partnership

MRC continued to coordinate the East Coast Be Floridian Now partnership of ten municipalities that share resources and messages to raise awareness about fertilizer ordinances. The program, which initiated on Florida's West Coast, uses fun, flamboyances of flamingoes to attract residents who may otherwise be disinterested in learning about fertilizer. In 2020, the City of Miami Beach joined the partnership to educate S. Florida residents about their new fertilizer ordinance, which goes above and beyond what others have passed!

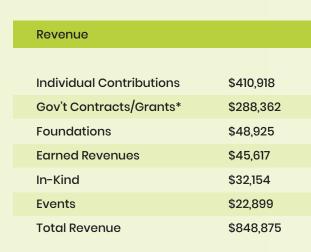
Launching in 2021!

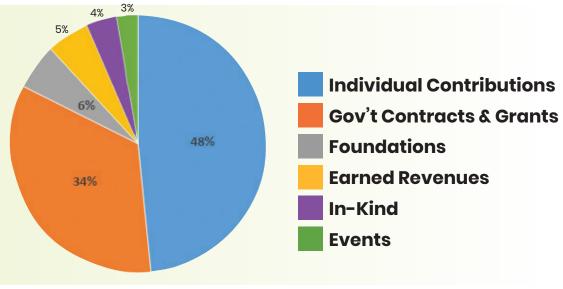
MRC's Lagoon Castaway Camp and Lagoon Explorers After-School Program

MRC is excited to announce the launching of its updated Lagoon Castaway summer camps as well as a brand new Lagoon Explorers after-school STEM program. In summer 2021, we will be offering 8 weeks of full-day summer camp for kids aged 8 to 12 complete with hands-on, feet-wet learning experiences focused around the lagoon and the unique history and ecosystems of the Space Coast. Starting with the 2021 school year, MRC will also be launching the Lagoon Explorers after-school program for 6th-8th graders. Students who attend after school will explore, create, and dive into topics relating to the Indian River Lagoon, conservation, and ecology, while building STEM skills. For more information on these exciting new programs, visit www.SaveTheIRL.org!

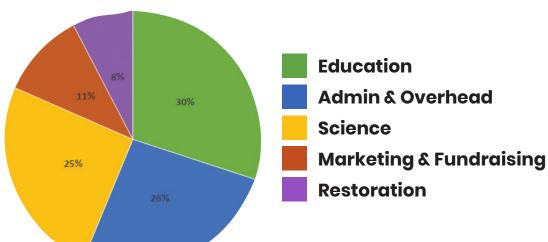
58 Presentations • 14,000 adults reached • 2,617 youth reached

2020 Financials





Expenses	
Science	\$166,621
Education	\$197,672
Restoration	\$50,350
Marketing & Fundraising	\$70,996
Administration & Overhead	\$172,430
Total Expenses	\$658,069



*MRC received a total of \$9,600 from the Brevard County Save Our Indian River Lagoon (SOIRL) fund in 2020."

Board of Directors & Staff

Board of Directors

Board Chair Terry Casto

Vice Chair Jim Moir

Secretary Bill Cox

Lady Shirley Beirne **Dave Botto** Stephen Chalmers **Robert Day** Roger Hickman Paul Laura Ken Lindeman, Ph.D. Mike Mulleavey **Bo Platt** Joanie Regan Maureen Rupe Jeff Smith **Kevin Smith**

Staff Directory

Executive Director Leesa Souto. Ph.D.

Development Director Kate Zehnder

Education Director Nicole Broquet

Science and Restoration Director Caity Savoia

Marketing Director Stephen Sharkey

LagoonWatch Coordinator Kara Woods

Right Whale Program Coordinator Julie Albert

Youth Education & Summer **Camp Coordinator** Angie Oswalt

Field Scientist Bill Prendergast

Advisory Board

Richard Baker, Ph. D Stefani Byrd, Ph.D Grant Gilmore. Ph.D Ted Moorhead Jim Swann









We our members!

MRC ended the year 2020 with 456 members, over 9,300 newsletter recipients, and 732 volunteers. We could not have made it through this year without your support. When we come together and leverage our collective power, we can achieve great things for our lagoon. Stand with us in 2021 to help make it the best year yet! Visit www.SaveThelRL.org to become a member.

Nancy Abbott Larry Abdullah Frank Adams Garv and Sandra Aguinaga James and Renee Ahrens Charles and Shervl Alberaa Nancy Alderman Bert Alm Carolyn Amos Annette Anastasia Tara Anderson TJ Anderson Edward and Jeanne Andre Charles Andreski Edward Arabian Bill Arboaast Joel Askinazi Debra Bailev Baldwin & Associates Financial Grant Ball Keith and Peggy Ball Nancy Balow Richard Banev Virginia Barker Kirk and Ginny Barnes Thomas Barratt Brad Bates Javne Bates Herbert Baughan Patricia Baughan Glenn and Kaci Beckett Kate Beckett Catherine Beirne Shirlev Beirne Arnold and Rosemary Bell **Bob Bell** Kathie Benson Peggy Bentley

Ken and Kate Blackman Richard Blake Kristi Blanchard Ronald Blank **Bob Bledsoe** Richard and Wendy Blome Eric Bobinsky **Kurt Boller** Stanley Borkoski Dave Botto Steve and Mary Bowman Jonathan Brater Grea Braun Phil and Jocelyn Bronson Thomas Brown Nancy Brunetti Lisa Brvan Silvia Brvan Alec and Fran Buchness John Buck Brian and Helen Buckley Steffani Burd Geraldine Burke **Todd Burris** James Byrnes Chuck and Crystal Cain Mary Calese Penelope Canan Josephine Capozziello Ed and Pat Carroll Dale Carter Donna Cassario Peter Castello Terry and Melinda Casto Mary Castro Jean Catchpole Shagg Catri Jennifer Cayias Geoffrey Chalmers John Chalmers Stephen Chalmers

Marvann Civil Margaret Clifford Joel Cohen Debbie Colburn Craig and Marilynn Collins Susan Connolly Jeff Cook Pamela Cooper Patty Cooper Shelly Cooper James Corry Madeline Cote Bill Cox Kathryn Creedy Rachel Cremeans Silvio Crespo Jim and Diana Cronin Matt Culver Dorothee Custer Zarva Dahl Judith Dahle Albert and Mary Kay Davies Warren and Judy Davis Robert Day Nancy Dean Josephina Deblecourt Whelen Bill and Jov Debusk Harry and Mary Deffebach Karen DeLeo Joan DI Gregorio Kristin Diederich Susan Ditty Kenneth and Margaret Domanski Sally Draper Tom Draus Anne Dunn Michael Dunn Stephen Dunn Seeta Durjan Begui Peter and Karen Dyson Larry Easley

Julia Edelstein Chris and Judy Edwards R.J. and Kathleen Edwards Heather Elko Thomas Emae Joan Engel Christiohn Enneking Laura Ennis Tom and Sue Ether Mike and Vicky Eves Dan and Jo Faden Ed Fieldina Raymond Fink William Fisk Florida Inland Navigation District Florida Power and Light Kristin Fonseca Maureen Foster Frin Fox Mark Fox Rich and Pat Franck William and Lisa Frazier Cindy Freas Mary Fredell Bob Fredericks Geri Freedman Donna Friswell Debbie Frv Nicholas Funicelli Galesi Family Foundation James and Jana Gallaaher Garden Club By The Sea Lorilyn Gaudette Gemini Pressure Washina and Paintina Shirley Gerhardt William Getson Peggy and Clyde Giesenschlaa Aline Gieser Fred Glasby Elaine Gliddi Tim Glover

R. Michael and Nancy Godfrev Joan Golden Amv Grav Dorothy Greenberg Grover Gregory Kathy Griffin Darren Griffith Alex and Asuka Grissom Miauel Guerra John and Katherine Haaood Cynthia Halpin Brown Ryan Hamby Michael Hamman Javne Hance Richard and Maria Hans Deborah Harmon Meridith Harrell Ann Hartle Kris Hebert Cynthia Hegerman Karen Heird Kathv Henry Keith Henry Beth Hermann Anne Hicks Robert Hinkley Ellyn and David Hinton Ron Hix Thomas Hoffman Lacev Homan Trudy Horkin Carl and Pat Houston Carla Hughes Dori Huahes Jerry and Darleen Hunt Lottie Hunter Sandra Ihnen Bob Ingram Adrian Jensen Mike Johannsen Lief Johnson Nancy Johnson Robert and Nancy

Johnson Bonnie Jones Mark Judge Marti Kara Daina Karol Dennis Karr Kerul Kassel Kenneth Kasweck David and Georgia Katz Eric and Barbara Katz David Keith Michael and Bernadette Kirchner Ray and Lisette Kolar Albert Koller Lewis Kontnik Larry and Lorraine Koss Karl and Carol Kruse Jennifer Kureen Vince Lamb David Lane Bob Lange Regina Larocque Lisa Larsen Paul and Mary Laura Robert Leader Michelle Lee Barbara Leggett Patricia Leonard Phillip Levv Sondee Lima Ken Lindeman Bart and Judy Lipofsky Lisa Littleton Margaret Livermore Vince Loalisci Cliff and Jeanie Lomax Mark Lovacano Inarid Lundbera Carlton and Jean Lynn William and Anita Lytle Joan Macdonald John Macdonald George and Denise Macklin

Susan Beumel

M. Douglas Bisset

Doug and Anne Birch

Diane Chasick

John Church

Jim Chell

Thank you for being part of the MRC Family!

Kav Macmillan Trudie Mailepors Tamara Majkrzak Jan Makowski Fric Mallen Michael and Shawn Malone Leslie Malonev Kristin Manaold Thomas Marcinkowski Sheila Marshall Linda Martin Peter and Sharon Martin Jack and Jov Masson Bill and Carol Mathison Stephen and Kathryn Matson Robert and Madeline Matthias Jerry Maupin Joseph Maus Dennis Mavo Rhonda Mavo William McĆluan Judy McCluney Jim McKillop Christine McKnight Malcolm McLouth Catherine McMahon Cheryl McPhillips Ron Mead Kathy Meehan Doreen J Meloni

Tony Menendez Ann Micklos Michael Miller David Minasian George and Charlotte

Minto

Francis and Charlotte Miozzi

Ron and Kathleen Mocko

Bruce Moeller Allan Moen Jim Moir

John and Linda Monaioi

Sandra Moore Ted Moorhead Eileen Morales

Fred and Susan Morris Kenneth Morris

Michael and Sara Morrison Richard Mortensen Terry Mott Kirby and Kimberly Mouahon Bob and Darlyne Mula Mike Mulleavev Sherry Mulleavey James Murphy

Mary Murphy Mustard's Last Stand Lois Navlor

Rusty Neff Nemeth Family Rey Neville

David and Arniel Nevins Craig and Christine Newman

Trevor Nimmons Sakda Niwatmaka Brian Noe Matthew Nylen Margo Nyman Drew O'Brien

Rikki and Kathy Oieda Harvey and Christine Ollis Gerald and Susan Olson

Kim Olson Vickie Openshaw John and Judy Orcutt

Natalie Palmadesso Laura Parkel J. and K. Patterson

Patricia Paulson John and Cathy Pechar Stephen Peffer

Antonio Perez-Falcon Flaine Peterick Barbara Peterson Diane Pisacano Mark Pisacano

James and Shannon Pitner Stephanie Place

Bo Platt

Port Malabar Garden Club

William Porter Joann Powers

Mark and Jane Priebe Jack Pruitt

Dan and Kathy Ouinton

Giles and Tonya Rainwater Keven and Kivoko Reed

Joanie Reaan

Marc and Donna Renzema Mary Lou Rethman

William Revesz Jr Harry Richter Jim Ŕidenour Pam Riasby

Steve and Sandra Rogier Jo-Ann Rosario-Llantin George H. Rosenfield Roger and Nancy Ross Bob and Maureen Rupe

Gayle Ryan Thomas Saam SAD Foundation

Polly and Gerald Sandridge Kenneth and Nathasha Sands Jerry and Dixie Sansom

Cherie Santamaria

David and Ruth Schechter Jane Schnee

Jack and Cindy Schuler

Norm Seelbinder Jennifer Seelev Coleen Seitter Sue Sellers Ann Sepri **David Settgast**

Steve Sharkey Barbara and William Shea

Ken Shearer David Sherrer Bi Shouppe Tracy Siani Robert Sieck Peter Siamann Richard Simmons Sedgwick Simons Roaer Siniaoi Susan Skinner

Alan and Sharon Smith Carl and Shirley Smith

Ernest Smith Rodney Smith Susan Sorensen Leesa Souto

Roy and Mary Spalding Brenda Sparaco

Delores Spearman Doualas and Mary Sphar

Frank Spino Michael Splitt Martha Spruitenburg Barry Spyker

Helen Stamatacos Philip Stasik

Leon Stein

Henry and Terry Stephens Martin and Kathy Stern

Hugh Stevenson Allen Stewart Sharon Stewart

Walt and Lynn Stieglitz

Thomas Stokes

Joseph and Sylvana Strawn

Stacy Strickland Sharon Stringer Carl Sullivan Sandra Sullivan Taylor Sullivan Doug Sutherland Joan Taddie Nanci Taraet Valerie Taylor

The Henry Family Foundation The Viera Company Flizabeth Thomas

Laurilee Thompson William and Jacqui Thurlow-Lippisch Joe Torkelson

Jim and Joann Torpev Ronald and Shirley Totty John and Susan Trefry

Thomas and Jeanne Tremblay

Glenn Turner

Richard and Kathy Turner Sally Turner

Susan Turner Tworoger Professional

Association Wayne and Kathryn Tyson

Michael Ullian James and Charlotte Underwood Suzannek Valencia

Thomas and Caroline Vanderspool

Brian Varaecko

John and Catherine Vecchio

Lucy Venable Charlie Venuto Shari Wardlaw Jovce Wasserman

MJ Waters

Ann Watts

Tomiko Watts Bowman

Marilyn Webster Corry Westbrook David White

David White **Emily White**

Herbert Whittall John Wickham

Cari Wiaains Alison Williams

Roaer and Barbara Williams

Dylan Wilson John and Karen Windsor

Carl Winebarger Jeff and Dolly Winget

Warren Wnek Allie Wood

Walter Wood Nancy Woodrum

Jerry and Michelle Woods

Stephen Workman Cindy Yancy

Richard Zablocki Kim Zarillo Jaclyn Zayas

Patty Zicarelli Peter and Leonor Zies

Dean and Vera Zimmerman

