

ANNUAL REPORT 2019



WOODS HOLE
OCEANOGRAPHIC
INSTITUTION

Our Ocean. Our Planet. Our Future.

OUR OCEAN. OUR PLANET.



OUR FUTURE.

Contents

2 A MESSAGE FROM
THE BOARD CHAIR AND
THE PRESIDENT

4 RESEARCH AND
EDUCATION HIGHLIGHTS

10 IN MEMORIAM: ARTHUR
MAXWELL—CELEBRATING
AN OCEANOGRAPHIC LIFE

12 THE POWER OF 2019
GIVING

46 WHOI LEADERSHIP

49 INSTITUTION LEADERSHIP

50 2019 FINANCIAL
STATEMENTS

52 FUELING THE BLUE
ECONOMY



A Message from the Board Chair and the President

At Woods Hole Oceanographic, our talented and passionate engineers and scientists serve a shared vision of scientific excellence, engineering ingenuity, and intrepid exploration, all in the name of revealing the next piece of the ocean puzzle—whether it be about our climate, our fisheries, our health, or a wondrous new ocean creature with dazzling colors and behaviors.

As you will read in the pages that follow, we realized this vision time and again in 2019. The primary highlight was unquestionably the groundbreaking research of WHOI's Ocean Twilight Zone (OTZ) Project, a bold effort to explore Earth's last frontier. The project, funded through generous donations from private supporters through the Audacious Project, is yielding new insights into the importance of the twilight zone.

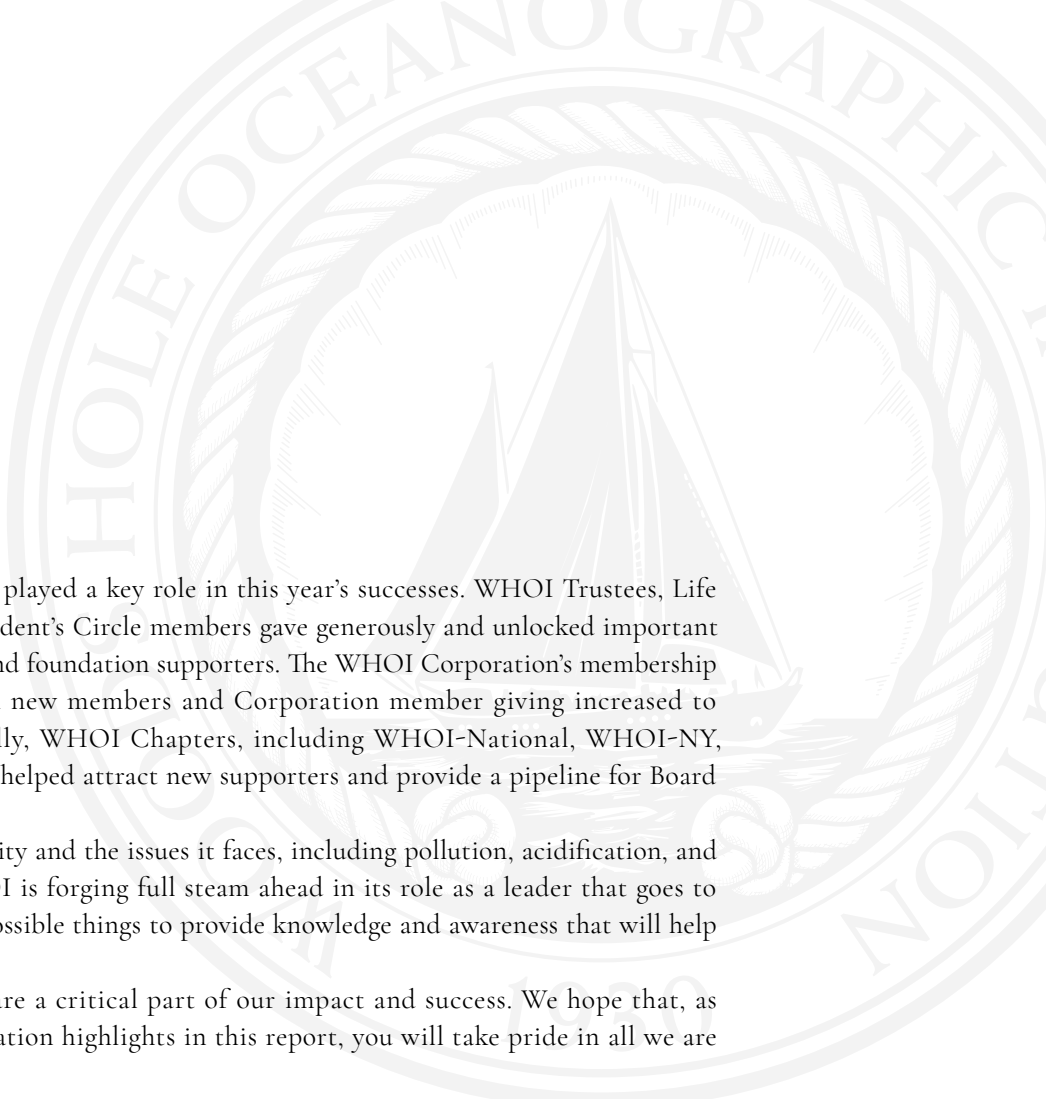
Other research highlights included the arrival of Dr. Richard Murray, WHOI's new Deputy Director and Vice President of Research, a new partnership with NASA to explore ocean worlds, and an evolving research program on ocean microplastics, an increasing global issue.

On the education front, programs including the MIT-WHOI Joint Program in Oceanography and Applied Ocean Sciences and Engineering continued to serve as a proving ground for future ocean leaders, adding to an impressive and expanding list of alumni and fueling the future of oceanography.

The Advancement Team continued to yield remarkable results with the recruitment of the new Chief Development Officer, Court Clayton. Refreshed publications and web presence, a direct marketing campaign and rebranding initiative helped attract new supporters at a record level. The Institution had good media visibility as well, with WHOI scientists featured in the BBC's *Blue Planet Live* and in publications including the *New York Times*, *The Atlantic*, *National Geographic*, and *Wired* magazine. WHOI investigators and others also had a major TEDx presence in Vancouver with Mission Ocean, a stunning immersive exhibit created and staffed with our partners at the Avatar Alliance Foundation and OceanX.

WHOI funding from the National Science Foundation, Navy, and NOAA remained strong as did private foundation support. A major highlight of the year was a \$5 million gift and challenge match from the Deerbrook Charitable Trust to establish the first-of-its-kind research accelerator fund. These endowed funds are driving ocean research and innovation at a time when it is essential for solving global problems related to a stable climate, sustainable fisheries, and a healthy ocean.

As a WHOI supporter, you are a critical part of our impact and success.



As always, WHOI leadership played a key role in this year's successes. WHOI Trustees, Life Trustees, Corporation and President's Circle members gave generously and unlocked important doors to additional individual and foundation supporters. The WHOI Corporation's membership continued to grow with eleven new members and Corporation member giving increased to 85 percent participation. Finally, WHOI Chapters, including WHOI-National, WHOI-NY, WHOI-NE, and WHOI-Dallas, helped attract new supporters and provide a pipeline for Board and corporation membership.

The ocean serves all of humanity and the issues it faces, including pollution, acidification, and warming, affect all of us. WHOI is forging full steam ahead in its role as a leader that goes to impossible places and does impossible things to provide knowledge and awareness that will help everyone on Earth.

As a WHOI supporter, you are a critical part of our impact and success. We hope that, as you read the research and education highlights in this report, you will take pride in all we are achieving together.



David Scully
Board Chair



Mark R. Abbott
President and Director



RESEARCH AND EDUCATION HIGHLIGHTS



WHOI scientists, engineers, and technicians are at the forefront of ocean science and technology around the world, seeking answers to pressing questions about our global ocean and educating the next generation of ocean leaders. WHOI scientists and students use world-class facilities, advanced marine robotics and submersibles, and innovative research methods, many pioneered at WHOI, to better understand the planet, to support ocean stewardship and sustainability, and to shed light on the ocean's impacts on human health and well-being. Here are some highlights from 2019.



MIT-WHOI Joint Program Student Jordon Hemingway holding a sample of Amazon river water rich in sediments. (Photo by Chris Linder)

Research Highlights

UNLESS WARMING IS SLOWED, EMPEROR PENGUINS WILL BE MARCHING TOWARDS EXTINCTION

Emperor penguins are some of the most iconic marine animals, but an international collaboration that included WHOI revealed that a warming climate may render these majestic penguins extinct by the end of the century.

WHOI-ENGINEERED DISCO ALLOWS SCIENTISTS TO MEASURE HIGHLY REACTIVE SUPEROXIDE ON CORAL REEFS

WHOI researchers successfully recently conceived, developed, and tested DISCO, a portable device capable of making *in situ* measurements of a highly reactive type of oxygen, known as superoxide, that may be related to the health of coral reefs. The next step is to understand why certain reefs make superoxide and whether it helps coral or is related to stress in some way.

WATERS WEST OF EUROPE DRIVE OCEAN OVERTURNING, KEY FOR REGULATING CLIMATE

In the Atlantic Meridional Overturning Circulation, or AMOC, warm water is carried north from the tropics by surface currents and wind and gradually becomes colder, saltier, and denser to sink and return south through the Iceland and Irminger basins. In a shift from the prevailing scientific view, a WHOI study showed that most of this downwelling, also known as “overturning,” and its month-to-month variability is occurring in regions between Greenland and Scotland, rather than in the Labrador Sea off Canada, as many past modeling studies have suggested.

NEW DEEP-SEA CORAL SPECIES DISCOVERED IN ATLANTIC MARINE MONUMENT

During several submersible dives in Northeast Canyons and Seamounts National Monument in 2018, WHOI and OceanX collected samples of what was later found to be a new species of deep-sea bubblegum coral. Studies in the monument suggest the canyons from the U.S.-Canada border to the Mid-Atlantic Coast contain a startling range and diversity of life that is largely unexplored.

MICROBES AS GATEKEEPERS OF EARTH'S DEEP CARBON

An international team of scientists that included WHOI researchers, visited the subduction zone off the coast of Costa Rica where the ocean floor sinks beneath the continent and volcanoes tower above the surface. They wanted to find out if microbes can affect the cycle of carbon from the surface into the deep interior. In the findings they published in *Nature*, the answer is affirmative—yes, they can.

NORTH ATLANTIC OCEAN PRODUCTIVITY HAS DROPPED 10 PERCENT DURING THE INDUSTRIAL ERA

MIT-WHOI Joint Program students, WHOI scientists, and others found evidence of a distinct decline in North Atlantic productivity—photosynthetic conversion of carbon dioxide to organic carbon by algae in the ocean’s sunlit upper reaches—that coincides with the start of the Industrial Era and steadily warming water temperatures. It’s a troubling finding, given that virtually all marine life ultimately depends on these microscopic organisms that form the base of the ocean’s food web.

NEW SUBSPECIES OF PILOT WHALE IDENTIFIED IN PACIFIC OCEAN

Short-finned pilot whales have long been considered a single species, but a WHOI-led genetic study confirmed a hypothesis that the global population is actually made up of two unique subspecies: the “Naia” form which have square-shaped heads, and the “Shiho” form which have round heads.

SURPRISING ENZYMES FOUND IN GIANT OCEAN VIRUSES

A study led by researchers at WHOI and Swansea University Medical School revealed that newly identified genes carried by mysterious “giant” viruses—both in the sea and on land—may offer potential new drug targets for similarly sized viruses linked to human diseases.

ORGANIC CARBON HIDES IN SEDIMENTS, KEEPING OXYGEN IN ATMOSPHERE

Research by WHOI and Harvard University may help settle the longstanding question of how small amounts of organic carbon become locked away in rock and sediments, preventing it from decomposing. Better estimates of the length of this process could help explain why the mixture of gases in Earth’s atmosphere has remained stable for so long.

NASA MAKES DUAL INVESTMENT IN OCEAN WORLDS RESEARCH AT WHOI

The National Aeronautics and Space Administration (NASA) invested \$7.6 million over five years to create Exploring Ocean Worlds (ExOW), a major new research program headquartered at WHOI, as well as a new national research network to facilitate ocean worlds research. ExOW convenes some of the nation’s leading experts in ocean and space research and is the cornerstone of NASA’s Network for Ocean Worlds initiative, which aims to accelerate research on planetary bodies with liquid water oceans that may harbor alien life.

BLUE SHARKS USE EDDIES FOR FAST TRACK TO FOOD

Scientists at WHOI and the Applied Physics Lab at the University of Washington were surprised to discover that blue sharks use large, swirling water masses, known as eddies, to fast-track their way down to feed in the ocean twilight zone—a layer of the ocean below the sunlit surface waters estimated to contain the largest collection of life on Earth.

NEMO CAN’T ADAPT TO RAPID ENVIRONMENTAL CHANGES

The beloved clownfish, popularized by the movies “Finding Nemo” and “Finding Dory,” doesn’t have the genetic capacity to adapt to rapid changes in its environment. The finding, based on collaborative research with France’s National Centre for Scientific Research, suggests that conservation efforts cannot rely on genetic adaptation to protect these charismatic fish from climate change.





THE OCEAN TWILIGHT ZONE (OTZ) PROJECT (A TED AUDACIOUS PROJECT)

Year two of the pioneering, \$35 million OTZ Project yielded remarkable discoveries and helped shed greater light on a part of the ocean realm that is proving a more critical part of Earth's chemical cycles and the ocean food web than previously thought. Key impacts and accomplishments of the OTZ Project to date include:

- Discovered that recent estimates of twilight zone fish biomass likely overstate the amount of life present.
- Collected detailed acoustic data from the towed sensor platform, Deep-See, which revealed that life in the twilight zone is highly variable.
- Developed novel methods and workflows to understand

biodiversity with the application of environmental DNA (eDNA).

- Using a stable isotope analysis method, we discovered that the twilight zone has two distinct food webs.
- Identified a rare deep-sea jellyfish and revealed a potential new cryptic species of lanternfish using genetic analysis.
- Carried out DNA shedding and persistence experiments. The experimental results will be influential in advancing use of eDNA methods for numerous oceanographic research applications.

Education Highlights

KICK-STARTING THE NEXT GENERATION OF OCEAN LEADERS

WHOI supported 29 Postdoctoral Scholars (awarded competitively and funded using endowed funds and scholarship awards from other sources), 20 Postdoctoral Fellows (funded through competitive awards from external agencies, foundations, and foreign countries), and 41 Postdoctoral Investigators (funded by grants from external sources that are part of the research base in each department). Four of these postdocs were hired onto the WHOI scientific staff as assistant scientists: Kirstin Meyer-Kaiser (Biology), Adam Subhas and Ann Dunlea (Marine Chemistry and Geochemistry), and Seth Zippel (Applied Ocean Science and Engineering).

RENOWNED MIT-WHOI JOINT PROGRAM WELCOMES 36 NEW STUDENTS

The MIT-WHOI Joint Program in Oceanography and Applied Science & Engineering welcomed 36 new students in 2019, including six master's students from the U.S. Navy. Twenty-four of the incoming students participated in the Jake Peirson Summer Cruise operated by Sea Education Association on the (SSV) *Corwith Cramer* to teach incoming students critical seagoing skills. The ten-day cruise is named in honor of Jake Peirson who served as Assistant Dean and then Associate Dean/Registrar from 1967 to 1996 and was always a strong supporter of WHOI's education programs.

MIT-WHOI JOINT PROGRAM COMPLETES ITS 2019 FIVE-YEAR REVIEW

In late October the Joint Program had its external review, carried out every five years. The review committee, chaired by Robert Anderson from the Lamont Doherty Earth Observatory, was pleased overall with the program and provided helpful, actionable recommendations, including a suggestion to raise more student fellowship funds, which would help in fulfilling a second recommendation to increase enrollment in Marine Geology and Geophysics, Physical Oceanography and Biological Oceanography. The reviewers also suggested making the program more responsive, more welcoming, and more inclusive, to help WHOI's efforts to increase diversity among the student population.

JP ASK: A NEW RECRUITMENT TOOL FOR STUDENTS BY STUDENTS

Current Joint Program students designed and built a new recruitment tool known as the JP Applicant Support & Knowledgebase (JP ASK). JP ASK, which is independent from the JP admissions process, enables current graduate student volunteers to provide prospective students with advice and support during the application process. Volunteers are available to answer questions on topics including curriculum, learning environment, and campus life based on their firsthand experience.



CELEBRATING 60 YEARS OF GEOPHYSICAL FLUID DYNAMICS

The Geophysical Fluid Dynamics Program (GFD) celebrated its 60th anniversary in 2019. Twelve graduate fellowships were awarded for the summer with a research focus on “Stratified Turbulence and Oceanic Mixing Processes.” Colm-cille Caulfield (University of Cambridge) and Stephanie Waterman (University of British Columbia) served as principle lecturers. One program highlight was the Sears Public Lecture (which celebrated its 15th year), established to introduce the public to timely and interesting GFD subject matter. This year’s presentation was “Fluids and Health,” by Professor Lydia Bourouiba (MIT), whose lecture included a primer on the fluid mechanics of sneezing!

TRAINING UNDERGRADUATES & FOSTERING DIVERSITY IN OCEAN SCIENCE AND ENGINEERING

The WHOI Summer Student Fellowship Program class of 2019 included 33 undergraduates, including one from the U.S. Naval Academy, with nearly half of the students from groups underrepresented in the ocean sciences. The goal of the program is to foster an interest among STEM undergraduates into ocean science and engineering and to broaden participation. In addition, in the fall of 2019,

five undergraduate students enrolled in the Semester at WHOI Program, a semester-long, tuition-supported undergraduate program that includes a for-credit research project and the opportunity to take oceanography courses alongside graduate students.

PROMOTING WORLD-CLASS SCIENCE LEARNING IN THE FALMOUTH PUBLIC SCHOOLS

WHOI signed a memorandum of understanding (MOU) with the Falmouth Public Schools, MBL Falmouth Marine & Environmental Services, National Oceanic and Atmospheric Administration, Sea Education Association, United States Geological Survey, Waquoit Bay National Estuarine Research Reserve, Woodwell Climate Research Center, and Zephyr Education Foundation. The group’s goal is to create world-class science learning experiences that provide Falmouth students with critical knowledge to improve their success in college, in their careers, and as citizens.

Life as a Summer Student Fellow: (Left) Lisa Coe and her sponsor Ben von Mooy ready a kayak to transit across Siders Pond in Falmouth, MA to retrieve water samples to bring back to the lab for analysis. (Center) New friends enjoying a day at the beach together. (Right) Marta Faulkner and Mary Burnam examine recovered plankton.





IN MEMORIAM:

ARTHUR MAXWELL

Art Maxwell (center), along with Jim Dean and Dick Von Herzen, remove a core aboard Glomar Challenger on Deep-Sea Drilling Project (DSDP) Leg 3 in 1968. (Photo credit: DSDP)



Celebrating an oceanographic life

ARTHUR (ART) MAXWELL WAS MORE THAN A BRILLIANT OCEAN SCIENTIST: HE WAS A GENEROUS, APPROACHABLE LEADER WHO CARED DEEPLY ABOUT HIS COLLEAGUES AND STUDENTS.

“Art was a legend, a mentor, and a trusted friend,” said Woods Hole Oceanographic Institution (WHOI) Trustee, Jamie Austin, a senior research scientist at the University of Texas Institute for Geophysics, where Maxwell spent the final decade of his long career.

In the 1960s and 70s, Maxwell served as WHOI Director of Research and Provost, working closely with WHOI President Paul Fye and helping to found the MIT-WHOI Joint Program in Oceanography. During his time at the Institution, Maxwell also pursued his own research in geophysics. Among other achievements, he was appointed President of the American Geophysical Union (1976-1978) and co-led an expedition of the Deep-Sea Drilling Project, which provided critical evidence to support the theory of plate tectonics by demonstrating that the seafloor under the South Atlantic was spreading.

Maxwell began his career in one of the most dangerous jobs in the U.S. Navy, serving as quartermaster on the ammunition ship *Lassen* in the Pacific during World War II. After the war, Maxwell went to Scripps Institute of Oceanography, where he worked with pioneering oceanographers Walter Munk and Roger Revelle; the latter was so impressed with Maxwell that he took on the role of graduate advisor for the first time in order to mentor him. Maxwell then moved from California to Washington, DC, to

work for the Office of Naval Research at a time when the Navy was a leading funder of research in ocean science.

“It was always very interesting around our household,” reminisced Maxwell’s daughter, Delle. “Scientists from around the world were always passing through. We met people like Jacques Piccard and Willard Bascom—leading lights in oceanography. As a child, I imagined theirs to be a most exotic and adventurous lifestyle. In retrospect, my father was always at the intersection of adventure, intellectual pursuit, and academic pioneering.”

In 2018, a year before his death, Art Maxwell returned to WHOI at the age of 93 to attend the commemoration of the 50th anniversary of the Joint Program, which he helped initiate half a century before. To celebrate his contributions to WHOI, Delle and her husband Pat Hanrahan gave \$1.5 million to endow the Maxwell-Hanrahan Fund for Education and Research at MIT, which funds students to carry out oceanographic research at sea. They gave an additional \$1 million to WHOI’s Arthur E. Maxwell Graduate Student Fund, established in 2003 by Austin—a Joint-Program alumnus (Ph.D. ’79)—to honor his much-beloved mentor.

“I can say without hesitation that his input steered me in good directions for more than four decades,” Austin said. “I will never forget him.”

“Art was a legend, a mentor, and a trusted friend.” ~ Jamie Austin, WHOI Trustee

THE POWER OF GIVING



PRIVATE PHILANTHROPY IS AN INVESTMENT IN HIGH-RISK, HIGH-REWARD RESEARCH AND EXPLORATION THAT ARE VITAL TO MANAGING AND PROTECTING THE OCEAN THAT SUPPORTS US ALL.

Generous gifts from private supporters and foundations—both in the form of restricted and unrestricted giving—are key to unleashing bold new lines of inquiry and innovation. Unrestricted gifts enable WHOI to deploy funds as opportunities and needs arise, and can often be leveraged to attract additional funding, giving them a powerful multiplier effect. Restricted gifts, which fund individual investigators or projects, are a great way for supporters to assure their gift makes an impact through targeted giving.

Here are some of the supporters who gave restricted and unrestricted gifts to WHOI in 2019.

DEERBROOK CHARITABLE TRUST LAUNCHES NEW RESEARCH ACCELERATOR FUND WITH \$5M CHALLENGE GRANT

The Deerbrook Charitable Trust committed \$5 million over five years to establish the Deerbrook Ocean Science Acceleration Fund (DOSA Fund), a lasting endowment to drive ocean research, innovation, and exploration at WHOI at a time when our changing ocean is reshaping coastal communities and profoundly influencing the world's climate, food supply, and national security landscape. The DOSA Fund also provides a five-to-one matching gift—up to \$1 million per year—for every dollar WHOI raises for research acceleration. Deerbrook's challenge to the WHOI family to raise an additional \$1 million inspired WHOI Trustees Jamie Austin, Jamie Clark, Steven Hoch, and

an anonymous donor to jointly commit \$500,000 from themselves and their families. They named their fund in honor of our beloved former Deputy Director and Vice President for Research, Larry Madin, and challenged more donors to join the effort to provide long-term leveraging opportunities for the Institution. WHOI Life Trustee, Georgie McConnell, soon got her family involved and established the McConnell Family Accelerator Fund. Likewise, the Hermann Foundation and the William H. Donner Foundation were significant early supporters. Response was so rapid that Deerbrook paid off its entire pledge by the end of 2019, four years ahead of schedule. WHOI is grateful to all of the donors who stepped up to support the launch of this important research tool. With your help we continue to build on this success and expand our pool of monies for 2020 and beyond.

OCEAN LOVER ELIZABETH LEATHERMAN IS A STAR WHOI SUPPORTER AND AMBASSADOR

Longtime WHOI supporter and devoted ambassador, Elizabeth Leatherman, has always loved and been engaged with the ocean. "I grew up on the water on boats, and am a scuba diver and a lover of all sea creatures," she says. For several years, Elizabeth even worked part time at the New England Aquarium as a seal handler, assisted in the stranded pup program, and helped rehabilitate pilot whales to be released.



“I first learned about WHOI many years ago from an intern at WHOI,” says Elizabeth. “I went over to see the facility, and was fascinated by the organization’s research and development.”

Years later, Elizabeth’s brother, WHOI supporter and corporation member, Charles Willis, brought her to see WHOI again. “That’s when I knew I wanted to be involved, to help spread the word to others about the important science being discovered,” she says. “The research that WHOI does impacts all of us and our future on the planet. It is vital to share the information that WHOI gathers to educate us.”

Elizabeth says that over the years, she has been surprised at how many people are unaware of the fragility of the ocean’s ecosystem and the importance of the relationship of the ocean to our planet.

“After organizing a variety of talks by WHOI scientists in different states, I am pleasantly surprised to hear people reconsidering their relationship with the ocean on a personal level,” says Elizabeth. “I hope to keep sharing the importance of WHOI’s work, in the most beneficial ways possible.”

LOU RUSITZKY, A FRIEND TO THE END

Former Navy man, Lou Rusitzky, was in Newport years ago and saw a WHOI ship docked there. To hear Lou tell the story, he was so curious and impressed that he contacted WHOI seeking to get involved and immediately become a WHOI Associate, and shortly after became a member of the WHOI Corporation. Lou, who spent his career as a successful securities analyst in Boston, was very engaged with WHOI activities while he was in the area, and remained so after he and his wife, JoAnne, moved to Florida for retirement.

Because of his Navy background, Lou established an endowment to support WHOI projects with the Navy. He used a variety of planned giving tools—a charitable remainder unitrust, a family trust, and several IRAs—to add to his endowment and also provide significant unrestricted support.

Through his gifts, Lou’s influence at WHOI carries on, helping to strengthen WHOI’s relationship with the Navy and supporting essential ocean research. He is remembered for his generosity and his enthusiasm for the sea. He is sorely missed by his many friends at WHOI.

“The research that WHOI does impacts all of us and our future on the planet” ~ Elizabeth Leatherman

2019 Giving

IT IS A PRIVILEGE TO ACKNOWLEDGE THE MANY INDIVIDUALS, FOUNDATIONS, CORPORATIONS, AND ORGANIZATIONS THAT MADE GIFTS OR PLEDGES IN 2019.

\$5,000,000 OR MORE

Dalio Ocean Initiative°

Deerbrook Charitable Trust°

\$1,000,000 - \$4,999,999

Dr. Lawrence J. Pratt*^ and

Dr. Melinda M. Hall*^

Mr. and Mrs. Hamilton E. James°

The Moore Charitable
Foundation

Gordon and Betty Moore
Foundation°

Anonymous (2)

\$500,000 - \$999,999

The Craig & Susan McCaw
Foundation

Heising-Simons Foundation

Robertson Foundation°
Rockefeller Philanthropy
Advisors

Simons Foundation°
The G. Unger Vetlesen
Foundation°

\$100,000 - \$499,999

Dr. James A. Austin, Jr.°

Mr. and Mrs. Coleman P. Burke°

Coleman and Susan Burke
Foundation, Inc.

Kathy and James Clark, Jr.°

The William H. Donner
Foundation, Inc.

Eastman Foundation°

Mr. and Mrs. Michael P.
Esposito, III°

Mr. and Mrs. Steven Graham

Mary Graham°

Hermann Foundation, Inc.

Mr. and Mrs. Steven G. Hoch°
Hudson River Foundation for
Science & Environmental
Research°

Georgette and Michael
McConnell°

Mr. and Mrs. Jeffrey L. Morby
George Frederick Jewett
Foundation East

Grayce B. Kerr Fund, Inc.

Mr. and Mrs. James E. Moltz°

Mr. and Mrs. George K. Moss°

Mr. and Mrs. Daniel O'Connell
Richard Saltonstall Charitable
Foundation°

The Schmidt Family Foundation

Mr. and Mrs. David B. Scully°

Sealark Foundation, Inc.

The Seaver Institute

Jean C. Tempel°

The Tiffany & Co. Foundation
van Beuren Charitable
Foundation, Inc.

The Volgenau Foundation
World Wildlife Fund UK
B Wu and Eric Larson

Mr. and Mrs. David A. Yuknat°
Anonymous (3)

\$50,000 - \$99,999

Paul M. Angell Family
Foundation

Mr. and Mrs. Peter A. Aron°

J. Aron Charitable
Foundation, Inc.

Avatar Alliance Foundation

The Camille and Henry Dreyfus
Foundation, Inc.

The Ducommun and Gross
Family Foundation

R. Dudley Harrington, Jr.
Foundation

The Harrison Foundation°

Mr. and Mrs.* Jefferson E.
Hughes, Jr.°

Sloan & Wick Simmons°

Mr. James P. Rosenfield°

The Walbridge Fund, *made
possible through the gener-
osity of Arthur Yorke Allen*
and Mary Stewart Hammond°*

Estate of Dr. Charles M. Weiss

Ms. Maria Wilhelm

Mr. and Mrs. Charles F.
Willis, IV

Willis Lease Finance
Corporation

Rose Marie and Edmund
Woollen°

Anonymous (1)

\$25,000 - \$49,999

Arctic Rays, LLC

Mr. and Mrs. Robert M. Baylis

Sam and Leslie Coleman°

Dolphin Quest

Larry and Atsuko Fish

Fish Family Foundation

Margaret and Clinton Harris°

The Herrington-Fitch Family
Foundation

Mr. and Mrs. Joseph C.

Hoopes, Jr.°

O'Donnell Iselin

Foundation, Inc.

Mrs. John F. Maher

March Limited





MIT-WHOI Joint Program Student Kalina Grabb working with a DISCO unit in the lab. WHOI researchers successfully recently conceived, developed, and tested DISCO, a portable device capable of making *in situ* measurements of a highly reactive type of oxygen, known as superoxide, that may be related to the health of coral reefs. (Photo by Daniel Hentz © Woods Hole Oceanographic Institution)

National Geographic Society
Mr. and Mrs. John F. O'Brien°
Mr. Francis G. Plumley
Nancy and George Records°

Records-Johnston Family
Foundation, Inc.
Reuben and Lisa Richards°
James and Eileen Rullo
Mr. and Mrs. D. Alec Sargent°

Linda Sallop and
Michael Fenlon°
The Thompson Family
Foundation, Inc.°
Edwin S. Webster Foundation

Mr. and Mrs. Thomas
B. Wheeler
Mrs. Priscilla B. Woods°
Mr. and Mrs. Arthur H. Zeikel°
Anonymous (1)

\$10,000 - \$24,999

Lynn & Paul Alandt Foundation°
Mrs. Janet Alfieri
Eric and Megan Anderson
The George W. Bauer Family
Foundation°
The Robert J. Bauer Family
Foundation°
Mr. and Mrs. Christopher R.
Bayles
Mr. Andy F. Bessette and
Mrs. Cheryl Noel-Bessette°
Biosource Advisement
Group Inc.
Mr. Hugh B. Bolton and
Ms. Leslie St. Lawrence°
Mr. Todd Bourell and
Dr. Brooke Bailey°
Mr. and Mrs. Edward C.
Brainard, II°
Dr.* and Mrs.* Kenneth H. Brink°

Jean P. Buchanan°
Mrs. Percy Chubb, III°
Mr. and Mrs. Mark E. Coe°
Daphne and John Cunningham°
Ms. Sarah M. Winchester and
Mr. Stephen M. Curry
Davis Conservation Foundation
Mr. and Mrs. Stephen M. D. Day°
Mr. Colin Day and
Ms. Heather Burke
Mr. and Mrs. John R. Drexel, IV°
Mrs. Diane Dufault°
Michele E. Dufault Foundation
James and Rachel Dunlap
E. Joseph Evans
Charitable Trust
Robert and Joanne Fallon°
Mrs. Charles Goodwin, III°
Ann T. Hale°
Kathy and Peter# Hendricks

Laura and John Hussey°
Mr. and Mrs. Ralph H. Isham
Dr. and Mrs. William M.
Jackson
Bill and Ellen Kealy°
The Kealy Family Foundation
Elizabeth and Bill Leatherman°
Janet E. Lendall Trust
Mr. Charlie E. Leonard and
Mrs. Lindsay Crittenden
Susan C. Livingston
Mr. and Mrs. George C.
Lodge, Jr.°
Emiley^ and Keith Lockhart°
Mr. and Mrs. Hambleton D.
Lord°
Mr. Michael J. Mars°
Morris Animal Foundation
Jan and Rob^ Munier°

Kathleen M. and Peter E.
Naktenis Family Foundation°
Nancy Newcomb and
John Hargraves°
The Newcomb-Hargraves
Foundation
Mr. and Mrs. Newton P. S.
Merrill
North Pond Foundation
Pennyghael Foundation, Inc.
James and Elizabeth Pickman°
Polar Latitudes
Mr. and Mrs. David B. Rickard°
Rickard Family Foundation
Mr. and Mrs. Robert L.
Rosbe, Jr.°
The Rufford Foundation
Estate of Mr. Louis M. Rusitzky
Mr. and Mrs. Albert I. Salama

Mr. Philip W. Schiller and
Ms. Kim D. Gassett-Schiller
Emily and Timothy Schorer°
Mr. and Mrs. J. Richards Semels
The Walter A. Smith Family°
Dr. and Mrs. Thomas O.
Stair, MD.°
Judy and Jon Stavis°

Mrs. Eliot Stewart
The Stratton Family°
Mr. and Mrs. S. Blake
Swensrud, II
The Sidney A. Swensrud
Foundation
Mr. and Mrs. Dudley S. Taft°
Dudley S. Taft Foundation

Mr. and Mrs. Peter F. Tobeason°
Mr. and Mrs. Edward J.
Tregurtha°
Mr. and Mrs. Felix F.
Twaalfhoven
Mr. and Mrs. John P. Waterman
The Verano Fund°
Mr. and Mrs. Daniel Webb

Mr. Douglas C. Webb°
Mr. and Mrs. Stephen R. Weiner
Mr. and Mrs. Kenneth R.
Woodcock°
Mr. and Mrs. Peter R. Worrell
Dr. and Mrs. Carl I. Wunsch°
Zlotnikov Family Fund
Anonymous (1)

\$5,000-\$9,999

Mr. and Mrs. Osmar J. Abib, Jr.
Mr. Imad K. Anbouba and
Ms. Shelley Tims
The Annenberg Foundation
Mr. and Mrs. Robert G.
Atchinson
Mr. and Mrs. Christopher T.
Barrow
Mrs. Jonathan B. Bredin°
Jonathan Bruce Bredin
Foundation
Harris W. and Anne L. Clark
Mr. Edward Chesnovitch
Danem Foundation
Deep Green
Mr. and Mrs. Paul Devereux
Craig° and Cynthia Dorman°
Mr. and Mrs. H. K. Faulkner

Mr. and Mrs. Hart
Fessenden, Jr.
Mr. and Mrs. Paul R. Garcia°
Mrs. Nina B. Griswold°
Mr. Thomas A. Hahn
Mr. and Mrs. Frank
Hananberger
Mrs. Julia L. Heidmann°
Dr.° and Mrs. Richard J. Jaffee°
Mr. and Mrs. Robert L. James
Mr. and Mrs. James M. Jones°
Mr. and Mrs. Michael W. Kamen
Mr. and Mrs. Thomas W.
Keesee, III
Mr. and Mrs. Thomas C. Kehler
Rusty and Betsy Kellogg
Anne C. Kronenberg
Mr. Michael Kubin

Lintilhac Foundation, Inc.°
Dr.° Laurence P. and
Dr.° Katherine A.C. Madin
Ms. Edith McBean
Gil and Doris Meister
Irene and Dean Miltimore°
Ms. Ruth Mitchell°
Laura and Ken Morse
New Hampshire Charitable
Foundation
Mr. Christian Nolen
The Great Island Foundation
Ms. Karen Olcott
Ted Dengler and Leslie Paine°
Mr. and Mrs. Joseph F.
Patton, Jr.
Mr. and Mrs. Carl E. Peterson°

Ms. Sally Rocker and
Mr. Christopher Paci
Maureen and Joe Roxel/
The Roxel Foundation°
Mr. and Mrs. William P.N. Smith
Dr. Gregory S. Stone
Dr. Christopher R. Tapscott°
and Susan Schultz Tapscott°
Mr. Stephen E. Taylor°
Tom and Karen Tierney
University of Exeter
Mrs. John J. Valois°
Mr. and Mrs. Charles G.
Ward, III°
West Wind Foundation°
F.T. Weyerhaeuser Family Fund
Mr. and Mrs. Mete Yalcinkaya°
Ms. Elsbeth R. Zurcher

\$1,000-\$4,999

Dr.° and Mrs. Mark R. Abbott°
Ms. Elizabeth W. Adams and
Mr. Clifford Lasser
Ms. Martha L. Adams
The Ajana Foundation
Mr. Tawhid Ali
Robert and Alison Ament
Donor-Advised Fund of
The Cape Cod Foundation
Mr. and Mrs. Dennis A. Anton°
Mr. and Mrs. Peter Archer°
Dr. Jay A. Austin° and
Dr. Elizabeth C. Austin-Minor°
Dr. Jesse H. Ausubel°
Dr. Susan K. Avery
Dr.° and Mrs. Arthur B.
Baggeroer°
Mr. Benjamin M. Baker
Ms. Emily Bales
Henry C. and Karin J. Barkhorn
Foundation
Mr. and Mrs. Henry C.
Barkhorn, III
Kenneth S. Beall, Jr.°
Mr. and Mrs. Jeffrey Beir

Ms. Rose Bell
Drs. Barbara S. and Gerald A.
Beltz
Kathi° and Phil Benjamin°
Mr. Stephen A. Bernier°
Ms. Jane Bernstein
Mr. and Mrs. Chad Beyerle
Dr. Patricia M. Biesiot° and
Dr. Shiao Y. Wang°
Mr. John Biglow
Ms. Karen Bommart
Mr. and Mrs. Nicholas J. Bonn
Mr. Joseph L. Bower
Dr. Michael Braun° and
Dr. Ana L. Braun°
Mr. and Mrs. Paul R. Bridges
Susan M. Briggs, M.D.
Mr. and Mrs. Lawrence D.
Brownell°
Mr. W. A. Brooke
Mr. Ron Bruder
Mr. and Mrs. George D.
Buckley°
Mr. and Mrs. Timothy P. Burns

The Edmund & Betsy Cabot
Charitable Foundation
Mrs. Edmund B. Cabot°
Mr. and Mrs. Tim Callow°
Mr. Kevin D. Casey and
Ms. Constance Campanella
The Cape Cod Foundation
Ms. Regina N. Carbon°
Mr. and Mrs. Stephen W. Carr
Dr. Colleen Cavanaugh and
Dr. Philip M. Gschwend
Coastal Preservation Network
Court° and Louisa Clayton
Mr. and Mrs. John T. Colas
Ms. Elizabeth S. Colt and
Mr. Peter K. Simonds
The Community Foundation for
the Greater Capital Region
Mr. and Mrs. Edward J. Conner
Dr. Noelle M. Conway-
Schempf° and Dr. Hagen
Schempf°
Mr. and Mrs. Robert C. Cowen
Cox Family Fund

Mr. and Mrs. Douglas
Crocker, II
Mr. and Mrs. Eugene L.
Crowley
Cronig's State Road Market
Ms. Sandra Cummins-Haid°
Victoria and Robert
Cunningham°
Darling Family 1999 Charitable
Annuity Lead Trust
Mr. Nelson J. Darling, Jr.°
Mrs. Joel P. Davis
Mr. and Mrs. J.H. Dow Davis°
Phyllis Dima
Captain Robertson P. Dinsmore
USCG (Ret.)°
David° and Karen DiPietro°
Mr. and Mrs. N.P. S. Dodge, Jr.
Mrs. Ellen P. Donaldson°
Mr. and Mrs. Joseph Donovan
Mr. W. F. Dowd, IV
Bob and Lynn Ducommun°
Dudnick Detwiler Rivin &
Stikker, LLP
Mr. George C. Eads°

East Bay Community
Foundation

EdgeTech

Esther Simon Charitable Trust

John⁺ and Shirley Farrington[°]

Ms. Sheila Fine

Ms. Mary Foley

Mr. and Mrs. Douglas S. Folk[°]

Mr. Edward Fones

Foster Associates

Mr. and Mrs. Richard W. Foster[°]

The Honorable Christine H. Fox
and Dr. Alan C. Brown

Mr.[#] and Mrs. Clark B. Freise

Dr. Robert A. Frosch

Dr.⁺ and Mrs. Robert B.

Gagosian[°]

Mr. and Mrs. Jan T. Galkowski[°]

Mr. and Mrs. Bradford K.

Gallagher

Rikki Gilbert

Ms. Kristina M. Gjerde and

Mr. Adam de Sola Pool[°]

Mr. L. Karl Goedecke

Ms. Mary Gorman

Ms. Joanne E. Goudreau⁺ and

Dr. Frederick L. Sayles^{±°}

Ms. Jennifer Graham

Dr. and Mrs. Garrett V.

Graves, Jr.

Mr. William H. Greer, Jr.[°]

Mr. and Mrs. Edmund Hajim

The Hajim Family Foundation

Mr. Philip and Ms. Alicia

Hammarkjold

Alice Handy

Samuel[^] and Ya-Chun Harp

Mr. and Mrs. C. Richard

Harrison

Dr. and Mrs. Mark Hayes[°]

Richard A. Heald Fund

Mr. James N. Heald, II[°]

Mrs. Huong Hennigan

Mrs. Nancy Hershey

Mr.⁺ and Mrs. John L. Heyl

Mr. and Mrs. Richard W. Hill[°]

Mr. and Mrs. Robert F. Hoerle

The Hoerle Foundation

Mr. Kenneth Holden

Dr. Yuki A. Honjo and

LTC Jason F. Cullinane

Ms. Isabella Horstmann

Alexander Host

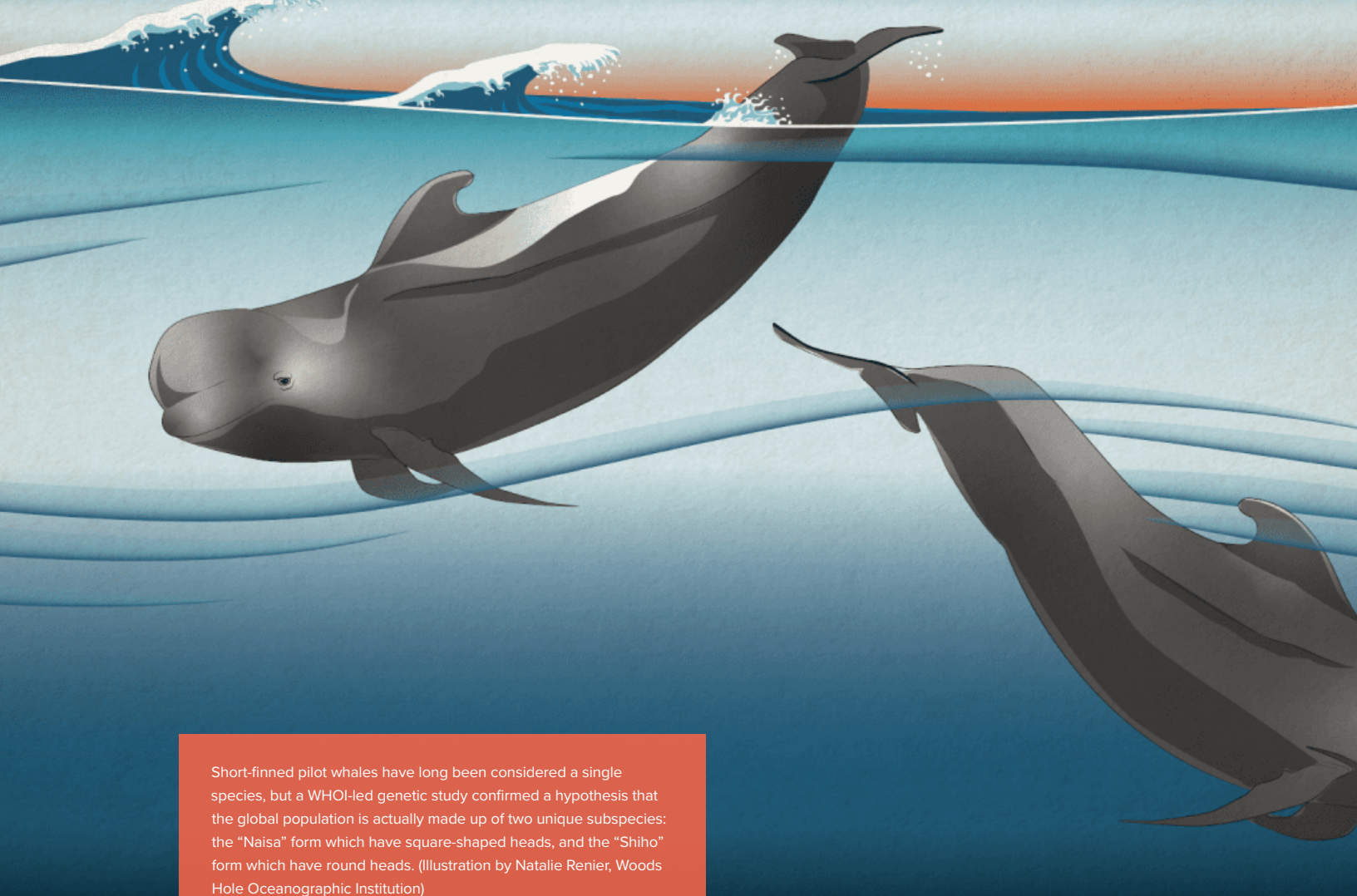
Foundation, Inc.[°]

Mr. and Mrs. Matthew H.

Hurlock

A clownfish on its anemone in the lagoon around Kimbe Island in Papua New Guinea. These beloved fish, popularized by the movies "Finding Nemo" and "Finding Dory," do not have the genetic capacity to adapt and protect them from rapid changes to their environment. (Photo by Simon Thorrold, Woods Hole Oceanographic Institution)





Short-finned pilot whales have long been considered a single species, but a WHOI-led genetic study confirmed a hypothesis that the global population is actually made up of two unique subspecies: the "Naisa" form which have square-shaped heads, and the "Shiho" form which have round heads. (Illustration by Natalie Renier, Woods Hole Oceanographic Institution)

Hyslop Shannon Foundation
Ann and David Ingram°
Mr. Andrew Irwin
Ivan Bereznicki Associates, Inc.
Mrs. Amabel G. James
Mr. and Mrs. Reuben Jeffery, III
Peter and Jeannine Jeffrey
Geoffrey and Dorothy Jenkins°
Ms. Laura A. Johnson and
Mr. Arthur Rogers°
Mr. and Mrs. Christopher P.
Kaneb
Abraham Kaplan Charitable
Foundation
Dr. and Mrs. Donald M. Kaplan°
Mr. Thomas Keffer and
Ms. Lee Christie°
Mr. Christopher B. Kent°
Ms. Lee A. Kimball°
Ms. Beth Kirkhart and
Dr. Victor Yodaiken°
Alison Tilghman Kline^ and
Kenneth P. Kline°
Mr. and Mrs. John R. Kreider

Mr. and Mrs. Haven Ladd
Mr. Christopher C. Land^
Mrs. Timothea S. Larr°
Dr. and Mrs. Glenn Larsen
Dr. and Mrs. Marlon R. Lewis°
Mr. Gregory Lim°
Mr. George F. Little, II
Loweth-Alvord Foundation
Mr. and Mrs. William A. Loweth°
Mr. and Mrs. Gary R. Lucas
Dr. Charles M. Lucas and
Ms. Deborah DeWitt°
Mrs. Robin Powell Mandjes and
Mr. Lucas A. Mandjes°
Dr. Bruce A. Magnell°
Mr. John Martinello
Ms. Janet Markel
Mr. Robert E. Mast and
Ms. Linda K. Carlisle°
Brian K. and Anne S. Mazar°
Mr. and Mrs. Peter H.
McCormick°
Mr. and Mrs. Joseph
McDonough°

Mrs. Frances McGuire and
Mr. Kenneth Holden°
Mr. and Mrs. C. Russell McKee
Mrs. Nancy McKelvy
Mr. and Mrs. George
McNamara°
Mr. Denman K. McNear
Mr. and Mrs. John C.
McPheeters
Ms. Joan Meyer°
Mrs. Nancy J. Milburn°
Ms. Gina Mingioni
John and Ann Montgomery°
Mr. and Mrs. Anthony P. Morris°
James A. Flynn, Jr^ and
Claudia C. Mosher°
Ms. Elizabeth Munson
Mr. Leo Murphy and
Dr. Patricia Carolan
Dr. Richard W. Murray^
Mr. and Mrs. George A.
Needham°
Mr. and Mrs. Joe Neely
Ian C. Nisbet, Ph.D.

Mr. and Mrs. Walter P. Noonan°
Mrs. Bradley P. Noyes
Mr. and Mrs. Daniel J.
O'Donnell
Mr. and Mrs. Thomas J.
O'Sullivan°
Omaha Community Foundation
Dr. Alan V. Oppenheim^°
Mr. and Mrs. James H. Orr, Jr.
Ms. Margaret Palmieri
Dr. E. Prather Palmer
Mr. David Paresky
Dr. Leroy M. and
Dr. Winifred B. Parker
Ms. Natasha Paul°
Mr. Gene H. Porter and
Ms. Nancy L. Garceau°
Mr. Leo Prone and
Ms. Cindy Moor
Mr. and Mrs. C. Cary Rea°
Mr. Brian Ricker
William Rich and
Katherine Huseman°
Kimberly Richards



Ms. Nancy B. Soulette°
 Ms. Ann Spencer°
 Mr. Matthew E. Steinmetz°
 Dr. Elijah Stommel and
 Ms. Jasmin E. Bihler°
 Mr. Robert E. Strawbridge, III°
 Mr. and Mrs. Ralph E. Stuart, Jr.°
 Rear Admiral* and Mrs. Paul F.
 Sullivan USN (Ret.)°
 Mr. and Mrs. Keith W. Swaby
 Mr. and Mrs. Mark Taylor°
 Think Investments LP
 Drs. Margaret^ and
 Maurice^ Tivey

Mr. Stephen G. Tomlinson
 Mr. and Mrs. Paul R. Tregurtha°
 Mr. Stephen Trevor and
 Ms. Stephanie Hunt
 Ms. Claire F. Umanzio°
 Captain Gregory M. Vaughn#°
 Mrs. Phyllis R. Vineyard
 Mr. and Mrs. Howard F. Ward°
 Mrs. Jephtha H. Wade, III
 Betsy Wall
 Ms. Sarah T. Wardwell
 Dr. Joseph D. Warren#°
 Mr. Scott H. Wayne°
 Mrs. Nina Heald Webber°

Weil, Gotshal & Manges, LLP
 Ms. Kelly Westerhouse^°
 Whitehall Foundation, Inc.
 Mr. and Mrs. Peter H. Wick°
 Dr. Peter H. Wiebe* and
 Dr. Ann Bucklin°
 Ms. Beth A. Willett
 Woods Hole Inn LLC
 Rodney and Mary Yanker
 Dr. and Mrs. James A. Yoder°
 The Z Fund of the Foundation
 for MetroWest
 Anonymous (7)

\$500-\$999

Ms. Camilla Abder
 AH * Associates, Inc.°
 Mrs. Evelyne M. Alexander
 Ms. Elizabeth E. Apfelberg°
 Mr. and Mrs. William N.
 Bancroft°
 Charles and Christina Bascom
 Mr. and Mrs. Richard A. Baum
 Mr. and Mrs. George Beckwith
 Mrs. Elizabeth B. Blau
 Dr.* and Mrs. W. Frank Bohlen
 Dr. and Mrs. Ellsworth Brown
 Dr. Susan M. Henrichs# and
 Dr. L. Michael Cheek
 Mr* and Mrs. Edward H. Chute°
 Ms. Elizabeth Ciarci
 Maureen E. Clayton, Ph.D.#
 Cloquet Trust
 Community House Church°
 Mr. Gary Cook^°
 Cornell University Foundation
 Mr. Ryan Cunningham
 Mr. Christopher De Roethth
 Mr. and Mrs. Benjamin C.
 Ducas
 Elan Enterprises, Inc
 Mrs. Hartley C. Etheridge°
 Mr. Eugene E. Fachon°
 Dr. Richard A. Falkenrath, Jr.
 and Mrs. Penelope Wilson
 Professor* and Mrs. William F.
 Fitzgerald
 Ms. Delia A. Flynn
 J.M. Forbes & Co. LLP
 Ms. Niki C. Fowler
 Ms. Pauline Gabbett
 Ms. Barbara P. Gaffron°
 Mr. and Mrs. Peter C. Gambee
 Mr. and Mrs. M. Dozier Gardner
 Mr. David W. Gengler°

Mrs. Jean F. Geniesse
 Mr. and Mrs. Frederic Golden°
 Dr. and Mrs. John B. Goodman
 Mr. Daniel L. Goodman
 Mr. Mark Hanson^
 Haven Trust
 Mr. and Mrs. Jeremy
 Henderson
 Mrs. Harold Hestnes
 Mr.^ and Mrs. Peter C. Hill°
 Mr. Rob Hinckley
 Mr. Harold P. Hollum, Jr.°
 Mr. Ronald Imada
 Ms. Molly P. Johnson
 Dr. and Mrs. Richard B.
 Keohane°
 Mr. and Mrs. William J. Kirby
 Ms. Yvonne Kwauk
 Mr. Lucas Laager
 Ms. Erin F. Largay and
 Mr. Timothy S. Wadlow°
 Ms. Kate Lehrer
 Mr. George Lewis°
 Ms. Sherry Lewis
 The Loring Wolcott & Coolidge
 Charitable Trust-I
 Ms. Joanne Lyman
 Mr. Barry Lyon
 Mr. Wendell C. Maddrey°
 Mr. Marion Martin
 Ms. Caroline Maruska
 Mrs. Marilee B. Matteson
 Ms. Kathleen M. McNeil
 Mr. John Medway
 Mrs. Lisa S. Miller
 Ms. Seanan B. Murphy°
 Jane Bishop Neumann°
 Ms. Julia W. Norman
 Mr. Emery G. Olcott
 Mr. and Mrs. David N. Page°

Captain* and Mrs.* Michael F.
 Palmieri, Jr.
 Patriot Party Boats, Inc.
 The Honorable Robert H.
 Pelletreau and
 Dr. Pamela D. Pelletreau°
 Ms. Bridget Peters
 Rear Admiral* and
 Mrs. Richard F. Pittenger
 USN (Ret.)°
 Mr.* and Mrs. Christopher
 Polloni^
 Mr. Robert Powel
 Princeton Area Community
 Foundation, Inc.
 Mr. Burgess J. Raby°
 Mr. John Reichenbach
 Ms. Jane L. Richards°
 Dr. and Mrs. John C. Robinson°
 Mrs. Martha V. Robinson
 Mr. and Mrs. Christopher
 duPont Roosevelt°
 Mr. and Mrs. William A. Rugh
 Mr. Michael Sacks
 Mr. and Mrs. Mark Sandroff°
 Mr. and Mrs. Lee H. Sandwen
 William and Rebecca Sawyer°
 Mr. Adrian Schnell°
 Charles H. & Beverly E. Shaw
 Foundation
 Mr. and Mrs. Fred Sherman
 Dr.* and Mrs. Alexander N.
 Shor°
 Mr. Jeffrey D. Shoreman°
 Sitkin Family Foundation°
 Austin and Susan Smith°
 Dr.* and Mrs. Paul E. Speer°
 Mr. and Mrs. John D. Stelling°
 Ms. Susan Goodale Stringer°
 Mr. and Mrs. Winfield Swarr°

Dr. and Mrs. Adrian F. Richards°
 Mrs. Louise C. Riemer°
 Dr. David A.* Ross and
 Edith H.* Ross°
 Dr. Edwin H. Rogers°
 Mr. William W. Rossiter
 Mrs. Edward S. Rowland°
 Mr. and Mrs. Robert J. Rukeyser
 Mr. and Mrs. Philip K. Ryan°
 Mr. Alexander C. Saltonstall
 John W. and Patricia D. Sawyer°
 Mr. James Schadt
 Mr. Eric Scheide°
 Dr. Raymond W. Schmitt, Jr.*
 and Ms. Nancy J. Copley^°
 Mr. and Mrs. John A. Scully°
 Mr. and Mrs. Herbert Shear
 Dr. and Mrs. William U. Shipley°
 Mrs. Stephen A. Simon°
 Heidi M. Sosik^* and
 Daniel B. Kilfoyle#°

Dr. Ann Tarrant[^]
Mr. Walter S. Teller[°]
Mr. and Mrs. Nathan C. Thorne
Mr. James H. Tietje
Dr.[#] and Mrs. John S. Tochko[°]

Mr. Jamee W. Todd
Mrs. Catherine Traykovski
Professor and Mrs. Glen L. Urban
Mr. and Mrs. Peter K. Wallace

Ms. Hester H. Witcher
Ms. Tristram Yale
Nancy B. Zaro and
Fred Gibbons[°]
Anonymous (5)

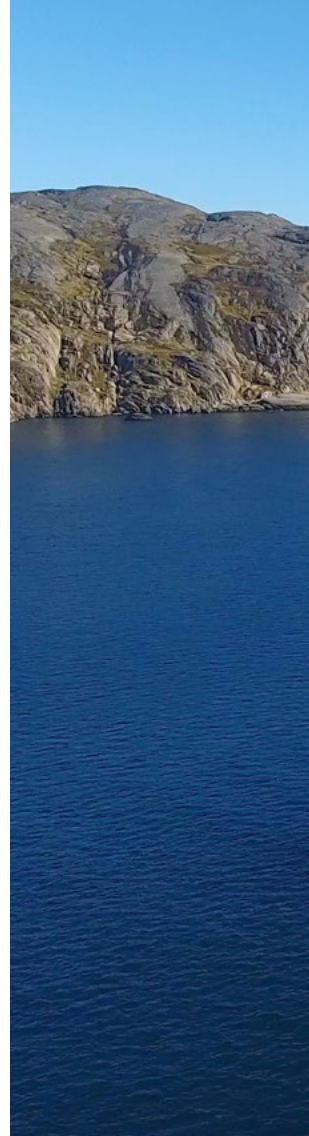
\$200-\$499

Ms. Jennifer V. Aiken
Mr. Richard Alexander
Mr. and Mrs. Karl Arbaugh
Mr. Donald R. Aukamp
Ms. Cheryl Bantz
Dr.[#] and Mrs. John A. Barth[°]
Ms. Kimberly E. Benson[^]
Mr. Ed Bernau[°]
Mr. and Mrs. Rolf Biekert
Mr. Roy Birk
Ms. Delores Blackford
Commander Wayne R. Blanding[°]
Ms. Peggy S. Blitz
Kendra D. Block, D.D.S.[°]
Ms. Linda Boothby
Mrs. Patricia N. Bourne[°]
Mr. Brian Bowen
Mr.[#] and Mrs. J. Brooks-Schulke[°]
Ms. Christina C. Brophy
Mr. and Mrs. Jacob F. Brown, II
Dr. Bruce J. Brownawell[#] and
Dr. Anne E. McElroy[#]
Dr.⁺ and Mrs. Wilfred B. Bryan, Jr.
Dr.^{#^} and Mrs. Ken O. Buesseler
Ms. Pat A. Burger
Mr. and Mrs. Wayne W. Burkhardt[°]
Mr. and Mrs. David F. Bush-Brown
Mr. and Mrs. Bernie Cain[°]
Ms. Margaret J. Cain[°]
Dr. Joanne Cameron[°]
Mr. and Mrs. Miguel Canizares[°]
Ms. Barb Carroll
Ms. Kathryn Casey and
Mr. Charles Wilder[°]
Ms. Ann W. Devenish-Cassell⁺
Cetera Advisor Networks LLC
Ms. Holly de la Chapelle
Mr. Jonathan H. Chatinover
Dr. Sallie W. Chisholm
Jeri Clarke
Ms. Natalie W. Cohen
Mrs. Sara Cohen
Mr. and Mrs. Lance Connolly[°]
Mr. Jay Cooke, III
Mr. and Mrs. Paul Coppola

Mr. and Mrs. Bobby K. Cowley
Mr. Steven Craig
Ms. Nancy Crowley
Dr. M. Carla Curran[#]
Dr.[#] and Mrs. Peter H. Dahl[°]
Ms. Frances DeFiore
Ms. Millicent Dent[°]
Mr. and Mrs. Nicholas B. Dill[°]
Mr. Leonard A. DiLorenzo and
Ms. Annmarie P. Garceau
James and Cheryl Dodwell
Marie and Joe Doebler[°]
Mr. Edward Dombroski
Chip and Jennifer Douglas[°]
Dr. Sylvia A. Earle[°]
Mr. William Ennen
EverGreen Sheet Metal, Inc.
Mr. Alan Ewald
F & J S. Fund, Inc.
Mr. Donald Ferris
Ms. Danielle Fino[^]
Mr. John O. Flender[°]
Dr. Roger D. Flood[#] and
Dr. Mary I. Scranton[#]
Ms. Elizabeth V. Foote and
Mr. Howell E. Jackson
Dr. Ralph J. Froio
Mr. Blake Fronstin
Ms. Trudy Coxe and
Mr. James Gaffney
Mr. Richard E. Galat[^]
Mr. Ted Galbraith and
Ms. Karen Raley
Dr. Alva Maria Edmondson and
Dr. Lytt I. Gardner[°]
Mr. and Mrs. Michael R. Garfield
Ms. Susan Colburn Nevler and
Mr. Stephen K. Gattis[°]
Mr. John Gault
Genentech, Inc.
Mr. Jason Geshelin
The Gilded Oyster Inc.
Ms. Mary Lemann Goldman
Mrs. F. Lawrence Goodwin^{*}
Ms. Lorraine Goyette
Drs. Elisabeth S.[#] and
Jeffrey A. Gray

Mr. Charles Green and
Mr. Donald Green[°]
Mr. and Mrs. Frederic E. Greenman
Ms. Mary J. Greer[°]
Ms. Anita Hall
Mr. Andrew C. Hamelin[°]
Pam⁺ and Stan⁺ Hart
Dr. and Mrs. John Hayes
Ms. Catherine E. Hefner
Mr. Roger L. Hocker[°]
Rugie Holland
Mr. and Mrs. Stanley K. Honey[°]
Ms. Jeannie Hopkins
Mr. Tristan Horner[^]
Mrs. Deborah W. Howell
Mr. and Mrs. Weston Howland, III[°]
Dr.[#] and Mrs. Joshua K. Hoyt
Mr. and Mrs. David M. Hulburt
Mr. Roger J. Hunka[°]
Ms. Johanna Hunter
Mr. and Mrs. Robert A. Hutchinson
Mr. and Mrs. Michael Ide
Indian River Community Foundation
Robert and Diane Jaye[°]
Mr. John A. Johnson
Mr. and Mrs. Edward Johnston
Dr. Rosabeth M. Kanter
Mr. Aaron Kaplan
Ms. Marny Kaufman
Mr. and Mrs. Martin Kelly
Dr. Robyn Kelly^{#°}
Mr. and Mrs. Robert R. Kendall
Mr. Michael F. Keough
Ms. Heather Ketcham
Mr. and Mrs. John T. Kidder
Mr. and Mrs. Ronald P. Klattenberg
Ms. Jenny Klein
Ms. Patricia Klimanowski
Mr. David C. Kloss and
Ms. Karen Scott
Dr. Alan V. Klotz^{#°}
Mr.⁺ and Mrs. George P. Knapp, III[°]
Mr. James D. Kolbenheyer[°]

Ms. Lauren Kornett
Ms. Kristie Macosko Krieger
Mrs. Barbara W. Kummel[°]
Mr. Charles Lamb
Mr. Drew Lanyon
Mr. James Latchford[°]
Ms. Patricia Lee[°]
Dr. Craig V. Lewis[#] and
Ms. Molly S. Drozda
Mr. Richard Limeburner^{^#°}
Mr. and Mrs. Theodore F. Lippold
Mr. Frederick C. Livingston
Mr. John Livingston
Mr. Stanley Livingston, III
Ms. Caroline Luft[°]
Ms. Alexandra Maggioni
Professor M. Lynne Markus[°]
Ms. Marla J. Marquis
Mr. David Marshall
Ms. Pamela K. McClelland
Mr. H. Stafford McCoart[°]





The R/V *Neil Armstrong* emerging from Prince Christian Sound, which connects western Greenland to eastern Greenland. The ship was part of an expedition to study the Atlantic Meridional Overturning Circulation, or AMOC, in which warm water is carried north from the tropics by surface currents and wind and gradually becomes colder, saltier, and denser sinking and returning south through the Iceland and Irminger basins. Photo by Kent Sheasley, Woods Hole Oceanographic Institution

Dr. Anne E. McElroy and
 Dr. Bruce J. Brownawell
 Mr. and Mrs. Martin McKerrow°
 McKinsey & Company, Inc.
 Mrs. Martha B. McLanahan
 Ms. Diane McMahon-Pratt
 Mr. Robert H. Meaher
 Gordon E. Melville, M.D.°
 Mr. John Medway
 Mr. Bryan Mihok
 Mr. Robert G. Millar
 Professor[#] and Mrs. Kenneth G.
 Miller
 Mr. Noah Miller
 Ms. Heather Moats[^]
 Mr. Douglas Moore^{+°}
 Ms. Katrina D. Morris
 Ms. Diantha Morse
 Ms. Elizabeth P. Munson
 Ms. Meredith Murphy
 Mr. Michael E. Murphy
 Mr. and Mrs. David H. Myers°

Dr. Michael G. Neubert[^]
 Mr. James Nieset
 Mr. Ralph G. Nilson°
 Mr. Floyd C. Norton°
 Mr. David W. Novak
 Ms. Lyn B. O'Doran°
 Mr. Arne J. Olsen-Storvik
 Ms. Robin Ordan
 Mr. and Mrs. Alfonso Perri
 Mr. Richard Picard
 Mr. William C. Pisano, Sr.°
 Mr. John P. Polodori
 Dr. Wade H. Powell°
 Quartz Events MFG LLC
 Mr. Ronald H. Reif[^]
 Mr. and Mrs. Chris Renier
 Mr. Clifton Rice
 Ms. Barbara Richards
 Mrs. Philip S. Robertson
 Mr. and Mrs. Michael J.
 Robinson°
 Mr. Donald Rochelo

Ms. Penelope P. Rodday
 Andrew[^] and Sarah Rose
 Mr. Mitchell Rubin and
 Ms. Lisa Berkower
 Mr. Stuart Sacks°
 Dr. Richard V. Sailor
 Dr. Makoto Saito^{#^°}
 Mr. Anthony Salotto°
 Mrs. Barbara A. Sanderson°
 Mr. Stephen Santoro
 Stephen and Patricia Sawyer°
 Ms. Elena Schmidt°
 Dr.⁺ and Mrs. Robert J.
 Schneider°
 Ms. Jo Ann S. P. Scholes
 Mr. George Schwartz
 Ms. Mary E. Pratt and
 Mr. Flip Scipio
 Mr. Albert Scott
 Mr. Charles Sears[^]
 Mr. Christopher W. Seely
 Dr. Laura J. Shainsky

Mr. Dennis F. Shea
 Dr. Nobumichi Shimizu^{+°}
 Mr. William S. Shultz, Jr.
 Mr. William E. Sigler°
 Dr. Elisabeth L. Sikes[#] and
 Dr. John L. Wilkin[#]
 Mr. and Mrs. Francis P. Siska°
 Ms. Rena Sneed
 Dr. Paul V. Snelgrove and
 Dr. Michele D. DuRand[#]
 Ms. Carol Solomon
 Mr. and Mrs. Edgar W. Soule°
 Dr. and Mrs. Robert C. Spindel
 Ms. Carol Storrs°
 Mr. and Mrs. Anthony W.
 Swensrud
 Mr. and Mrs. Lyle E. Sykora°
 Mr. John-David Thomas°
 Professor and Mrs. Keith S.
 Thomson°
 Ms. Nancy Todd°

Dr. and Mrs. Robert F.
Tranbaugh
Dr. Mark S. Roberts and
Dr. Joanne R. Uomini
Mr. and Mrs. Andrew I. Vaughn

Ms. Meaghan VerGow°
Mr. Hans Verstegen
Mr. Charles M. Wade
Mrs. Susan Warren°
Dr. Philip H. Warren, III

Mr. and Mrs. Mark M. Wheeler°
Ms. Magrieta L. Willard
Dr.* and Mrs. Albert J.
Williams, III
Ms. Abby Wurts

Mr. and Mrs. Jeffrey Wyckoff°
Mr. Bart Ziegler
Mr.# and Mrs. John D. Zittel
Anonymous (6)

\$100-\$199

Ms. Roxann E. Abbott
Scott and Susan Abell°
Mrs. Mary F. Abraham
Mrs. Marilyn Adams
Mr. and Mrs. Dennis G. Agin°
Mr. Jeremy G. Agnew
Mr. and Mrs. David L. Ammen
Mr. Richard L. Anderson°
Mr. Peter Andruszkiewicz
Dr. and Mrs. Richard A.
Armstrong
Dr. Terry G. Arnold
Asack Electric Co.°
Ms. Rebecca Atwood
Dr. and Mrs. Dennis A. Ausiello
Automotive Computer Services
Ms. Mary C. Averill
Mr. Edwin Axton
Mr. and Mrs. Heinz G.
Bachmann°
Mr. Andrew Bacon
Mr. and Mrs. Ben Bailey, III
Ms. Linda M. Bain
Ms. Karel M. Baloun
Mr. Francisco Bango
Willie J. Banks
Ms. Marsha K. Barber
Mr. Stephen Barker
Mrs. Ellen H. Barras
Ms. Elizabeth Barrett
Mr. Edward G. Barry
Ms. Marie Basile^°
Mr. Michael Bate°
Ms. Jo Ann Bates
Mr. Jack W. Beal
Mr. and Mrs. C. Marshall Beale
Mr. Whitney A. Beals°
Mr. Peter Becker
Ms. Susan C. Beers°
Sassan Behnam
Mr. Thomas Benjamin
Ms. Amy Bennett
Ms. Pamela C. Berger
Ms. Jean Bergeron
Ms. Patricia M. Berlandi
Mr. Jamie D. Berna
Dr. Joan M. Bernhard^°
Ms. Sarah Berry
Mr. John J. Black

Ms. Jennifer Blair
Ms. Deborah A. Blanchet
Mr. and Mrs. Brian W.
Blanchette
Mr. Zach Blatt
Mr. and Mrs. James Bloodgood
Ms. Deborah A. Blum
Mr. Joseph H. Boland°
Mr. Louis J. Bonacci
Ms. Kathy Bosler
Mr. Gary Bosworth
Mr. Sharion A. Boutilier°
Mr. Richard W. Bowman^°
Mr. James D. Boyle
Mr. and Mrs. John Boyle
Mr. Woodward R. Boynton
Brant Rock Fish Market
Mr. S. R. Brand
Ms. Nancy Bravin
Mr. Henry Brawner
Mr. Simon Brennan
Mr. Willard Bridges
Mr. Stephen D. Brinkmann°
Drs. Ernest and
Stephanie Brody
Ms. Deborah Bronk
Ms. Michele Brower
Ms. Jane A. Brown
Mr. Richard Brown
Mr. Charles Browning
Mr. David G. Browning
Ms. Nadia Brugger
Professor* and Mrs. Harry L.
Bryden
Veda Bucko
Ms. Karigene Burke
Ms. Lisa Burke
Mr. and Mrs. Robert F. Burman°
Ms. Delphine Burton
Mrs. Megan Shea Burton
Mr. Paul Burton
Mr. Kent Butler
Ms. Sue Butler
Ms. Anne Buttrick
Ms. Shirley C. Cabral*
Mr. Brian Calderbank
Mr. Durham Caldwell
Mrs. Kristin J. Callahan
Kelsey Campbell

Ms. Shelby Cannon
Mr. Edward H. Cardoza°
Professor and Mrs. Andrew G.
Carey, Jr.°
Mr. Joe Carey
Mr. Judd F. Carlisle
Ms. Michelle S. Carney
Mr. Miles W. Carpenter and
Ms. Yurth Hollow
Dr. Carlos Carrera, M.D.
Mr. John Carroll°
Ms. Mary Ellen Carter
Ms. Susan Casey
Mr. Richard A. Cassaboon, Jr.°
Mr. Peter Castro
Mr. Matthew Cate
Ms. Rita C.E. Cavonius
Mr. Ralph E. Caylor
Ms. Sally Cedarholm
Mr. Normand Chabot
Ka-Kit Chan
Mr. and Mrs. Richard V.
Chapman°
Ms. Michele Chappell
Dr. and Mrs. Richard L.
Chappell°
Dr.^ and Mrs.^ Matthew
Charette
Ms. Jenny Cheadle
Jyhhwa Chen
Woody Chin
Mr. Peter Cholewinski°
Dezhang Chu, Ph.D.*
Mr. Ronald K. Church°
Ms. Barbara G. Clark
Mr. Christopher Clark
Mr. Norman C. Clarke°
Mr. Thomas A. Cleary
Mr. Richard M. Clemence
The Coastal Agency
Ms. Susan Cobb
Dr. Millard F. Coffin
Mr. Mark A. Cofone, V.M.D.
Rear Admiral# and
Mrs. Jay M. Cohen
Kenneth and Virginia Colburn
Dr.# and Mrs. Jeremy S. Collie
Ms. Deborah Collins^°
Mr. Walter Collins

Mr. Marco Colombi
Mrs. Melvin A. Conant°
Concept 2, Inc.
Ms. Mary M. Connelly
Ms. Ardis P. Conner°
Dr. Michael S. Connor# and
Dr. Christine E. Werme
Ms. Lynn Conover and
Mr. Greg Peach
Mr. Dean J. Conway
Mr.# and Mrs. Michael F. Cook
Ms. Sarah S. Cook
Andrew and Karen Coppola°
Ms. Genai Corban°
Mrs. Joan M. Costello°
Mr. Paul Coteus
Mr. Chuck Cotter
Mr. Read Coughlin
Ms. Danielle Covatta Riva
Ms. Kate Cowie-Haskell
Mrs. Mary M. Cox
Mr. and Mrs. Byron A.
Crampton
Mr. Edwin Crawford
Ms. Donna R. Crews
Mr. Eric Critser
Mr. Edward R. Crocker
Ms. Elan Crockett
Ms. Elizabeth T. Crockford^
Mr. and Mrs. Timothy H. Cronin°
Mr. and Mrs. Frederick
T. Crosby
Mrs. Patricia A. Curran
Ms. Irene F. Curtin
Andrew^ and Peggy^ Daly
Mr. Guy R. D'Amelio
Mr. Donald DeAmicis
Ms. Margo de Camp
Mr. Alan Denney
Mr. Richard A. Deojay
Mr. David Derosier^°
Mrs. Linda L. Derr
Ms. Dorothy-Ann DeRuyck
Mr. and Mrs. Brian Derynioski
Mrs. J. D. DeSarro
Ms. Sherrie L. Deveau
Mr. John Devendorf
Mr. Roger Di Gesu
Kate and Peter Diamond

Mr. Donald L. Dick
Dimark Precision
Machining, Inc.
Mr. Dennis F. DiTullio
Dr. Rich W. Dixon
Mr. Nadir Doctor
Ms. Amy L. Donner and
Dr. David A. Mann
Mr. Nathaniel Donson
Mr. William Dopirak, Jr.
Ms. Lynn Dowd
Ms. Melissa Dowd°
Mr. Randall B. Drane°
Mr. Robert M. Drew°
Mr. Ronald Driscoll
Mr. Stephen Dube
Ms. Sara DuBose
Mr. Greg Duggan
Mr. Henry P. Dunbar
Mr. Randolph P. Duncan
Mr. Robert R. Duncan, III
Ms. Deborah R. Dunn
Mr. Pierre S. du Pont
Mr. Frank Dwyer
Mr. Robert Dwyer
Greg and Andrea^ Early°
Mr. Glenn R. Eaton°
Dr. Christopher A. Edwards#
and Ms. Raelene M. Walker°
Mr. Oliver W. Egleston°
Mr. Henry L. Ehrlich
Mrs. Nancy Elliott°
Ms. Sarah E. Emerson
Ms. Lisa G. Enfield
Mr. and Mrs. Robert J. Engel°
Ms. Karen Epstein
Mr. Jim A. Erickson
Mrs. John W. Espy
Deane Evans
Mr. John Evans
Mr. Willard C. Everett°
Mr. David Fahlstrom
Ms. Jolene D. Farago
Mr. Christopher Faris
Dr. John T. Farrar, Jr.^°
Ms. Chelsey Fattal
Mr. Douglas A. Faulkner and
Ms. Carolyn F. Gray
Ms. Barbara Faurot°

Mr. Kevin M. Fay
and Ms. Maura
McCullough
Mrs. Catherine H.
Ferreira°
Mr. David J. Fisch
Mr. James B. Fischer
Mr. David Fishman
Mr. Mark Fitzgerald
Ms. Mary L. Fitzgerald°
Mr. Steve Flanagan°
Mr. Joseph Fleming
Ms. Heather Flewelling
Mr. Peter Flisak
Ms. Judith E. Fox
Ms. Kathy F. Fox
Mr. and Mrs. Richard Francolini°
Mr. C. Eben Franks+
Mr. Steven Franks
Mr. Damian Fraticelli
Mr. and Mrs. Alfred Frattini°
Mr. Brandon Frerichs
Mrs. Martha M. Fuller
Mr. Robert L. Fuller
Ms. Julie R. Furgerson°
Ms. Judith Gabbett°
Mr. and Mrs. Philip Garland
Mr. Michael H. Garner°
Dr. and Mrs. Thomas V.
Geagan°
Mrs. Rebecca W. George
Mr. William W. George
Ms. Elaine Germaine
Mr. Thomas H. Gewecke°
Margaret Gifford°
Ms. Monica Giganti
Dante Gilbert
Ms. Merri A. Gillan°
Mr. Jay Glaser
Mr. Pete Glavas
Mr. Mark Goldberg
Mr. and Mrs. Ray A. Goldberg
Ms. Jennifer Goldstein
Dr. Jay W. Gooch°
Dr. Susan L. Goodman°
Mr. Michael W. Goodwin
Ms. Myra M. Gordon
Ms. Theresa Gordon^
Ms. Radene L. Gordon-Beck

CALLISTO

Jupiter

GANYMEDE

Jupiter

TITAN

Saturn

ENCELADUS

Saturn

EUROPA

Jupiter

TRITON

Neptune

The National Aeronautics and Space Administration (NASA) invested \$7.6 million over five years to create Exploring Ocean Worlds (ExOW), a major new research program headquartered at WHOI, as well as a new national research network to facilitate ocean worlds research. ExOW convenes some of the nation's leading experts in ocean and space research and is the cornerstone of NASA's Network for Ocean Worlds initiative, which aims to accelerate research on planetary bodies with liquid water oceans that may harbor alien life. (Photos by NASA)



Emperor penguins are some of the most iconic marine animals, but an international collaboration that included WHOI revealed that a warming climate may render these majestic penguins extinct by the end of the century. The fate of emperor penguins is largely tied to sea ice, making them particularly vulnerable to warming. (Photo courtesy of Stephanie Jenouvrier, Woods Hole Oceanographic Institution)

Mr. Bud Graham
 Ms. Patricia Graham
 Mr. L. Becker Grandle
 Mrs. Robyn Gray
 Mr. Allen J. Green and
 Ms. Christie A. Coon
 Mr. Phillip M. Green
 Mr. Sam Green
 Mr. Benjamin Greenwood[^]
 Professor James T. Griffith and
 Professor Susan J. Leclair
 Ms. Claire Grueter[°]
 Ms. Elaine A. Gullett
 Mr. and Mrs. Frank Gunnison
 Mr. Lewis E. Hadelman
 Ms. Patricia Hadidian
 Ms. Emily Hagen
 Coryn Hall
 Ms. Mary H. Hall
 Mr. Mark Hamel
 Joseph M. Hamilburg
 Foundation[°]
 Dr. and Mrs. Robert W.
 Hamill, M.D.[°]
 Mr. Tom Hansch
 Mr. Joseph R. Hanslip

Mr. Gary E. Haracz
 Ms. Jane P. Dickenson-Harding[°]
 Mr. Clifford V. Harding, III
 Ms. Lorena Harju
 Mr. Mark S. Harmsen
 Ms. Phyllis Harrington
 Ms. Stephanie Harris
 Ms. Jane Harrity
 Ms. Lillian G. Harter
 Ms. Suzanne M. Hartley
 Ms. Andrea Harvey[^]
 Dr. Jean A. Hattler
 Mr. Paul S. Hausmann
 Mr. William H. Hayes[°]
 Mr. and Mrs. Gary G. Hayward
 Mr. Charles L. Heckheimer
 Mr. Gregory Heeter
 Ms. Krista M. Hennessy and
 Mr. J. Scott McNamara
 Mr. Steven Hepding
 Ms. Sarah E. Herrick
 Ms. Catherine Herrity
 Ms. Elizabeth M. Hett
 Mr. and Mrs. Charles C.
 Hewitt, III
 Mr. and Mrs. Lucius T. Hill, III

Mrs. Lucy B. Hilliard
 Ms. Ann Hindman
 James F. Hindson, M.D.
 Mr. Robert Hinton
 Ms. Carol E. Hanscom and
 Mr. D. J. Hoare
 Mr. John W. Hobbs
 Mr. Albert E. Hodsdon, III
 Mr. Ronald Hoffeld
 Mr. James S. Hogan
 Mr. Philip Holberton
 Mrs. Jacqueline M. Hollister
 Mrs. John F. Holmes[°]
 Mr. Jay Holmes
 Ms. Carlota H. Holton
 Mr. and Mrs. Brian House
 Mr. Greg D. Howard
 Ms. Sharon S. Howard[°]
 Dr. Robert W. Howarth[#] and
 Dr. Roxanne M. Marino
 Ms. Marcia W. Hoyt
 Hubbard Paint & Wallpaper
 Mr. Mike Huck
 Ms. Barbara W. Hughes[°]
 Mr. James Hulme
 Ms. Helen Hunt
 Ms. Laura Huntsman
 Mr. Luke Hutschal

Mr. Terrence Ihnat
 Mr. Peter M. Indresano
 International Ceramic
 Engineering[°]
 Mr. Harry Irwin[°]
 Ms. Martha H. Izzi
 Ms. Cynthia Jacoby
 Mr. Robert L. Jedrey
 Mr. and Mrs. George O. Jenkins[°]
 Mrs. Hilde S. Jerius
 Ms. Carla Jesse
 Mr. David Jewell
 Min J. Jiang
 Mr. Joseph R. John, III
 Mr. Justin C. Johnson[^]
 Dr. Matthew D. Johnson[^]
 Mr. and Mrs. David M. Jones[°]
 Ms. Estelle C. Jones[°]
 Mr. and Mrs. Gerald S. Jones
 Laura[^] and Rob Jones
 Mr. Richard Jones[°]
 Ms. Katherine Joyce[^]
 Dr.^{†#} and Mrs. Terrence M.
 Joyce[°]
 Mr. Robert Judd
 Mr. and Mrs. Michael S. Kaplan
 Mr. Justin Kaput



Mr. Ken Karalis and
Mrs. Vinh Nguyen°
Reverend John C. Karrer
Ms. Nancy M. Kawasaki
Ms. Kathleen E. Kelleher
Mr. Donald F. Keller
Dr. Alice Kelley°
Ms. Jennifer Kelley
Mr. and Mrs. Josef M.
KelIndorfer
Mrs. Judith S. Kelly
Mr. Christopher P. Kenna°
Ms. Doreen Kinsman
Mr.^ and Mrs. Hauke L.
Kite-Powell
Mr. and Mrs. Paul A. Klein°
Ms. Sabrina Kleinknecht
Dr. and Mrs. James M. Klick
Kris Klueg
Mr. Peter Koechley
Ms. Katherine Koh
Mr. Howard Kolodny
Dr. Dennis Kolodziejski°
Ms. Aimee Konieczny
Mr. Nicholas Kouble
Mr. Norman Kraft
Ms. Cynthia A. Kramer
Ali Krug

Ms. Holly Kruper
Ms. Anne Kugielsky
Mr. John Kukulya
Ms. Sandra L. Kurkij
Mr. Carl W. Kurz
Mr. Alexander Kutschke
Mr. Robert Kvaas
Ms. Veronique LaCapra^
Mr. Larry Langford
Mrs. Hope Lapsley°
Mr. and Mrs. Stephen J. Lardie
Mr. Robert Lash
Mr. Patrick D. Laughead
Ms. Charlotte W. Lawrence°
Mr. and Mrs. Warren W. Leach
Ms. Donna P. Leake
Ms. Susan Leavitt
Ms. Lynne B. Leblanc
Ms. Emily Leco
Mr. Donald F. Ledbury
USN (Ret.)
Ms. Michelle Lee
Mr. Randolph Lee
Ms. Janet L. Lefko
Mr. Mark Leighton°
Mr. Mark S. Lerner
Dr. Paul Lerner#
Ms. Clare W. Leslie
Mr.^ and Mrs. H. David Leslie
Mr. Josh Letwinetz
Ms. Virginia Levanti
Mr. Peter E. Levesque
Mr. Andrew S. Levin
Ms. Helena K. Liber
Mr.^ and Mrs.^ Stephen P.
Liberatore
Ms. Christina Light
Robert D. Lille, M.D.
Mr. and Mrs. Lennart Lindberg°
Ms. Debra Linde
Mr. Robert W. Lindstrom
Mr. Edward J. Linky
Ms. Marilyn J. Lockhart
Ms. Cynthia G. Lombardi°
Ms. Madeline London
Ms. Carolyn Barber-Long
Ms. Heather Longa
Mr. and Mrs. Travis D. Loseke°
Mr. Stephen W. Losordo
Ms. Katrin Machaj
Ms. Lisa Maciejowski^
Ms. Betsy Mack
Mr. Edmond Maes
Mr. Ed Maheigan°
Ms. Kaitlyn E. Mainhart
Ms. Anne Malloy

Mr. Robert Mandel
Ms. Constance Maney
Mr. and Mrs. John A. Manley°
Dr. David Mann and
Ms. Amy L. Donner
Mr. Christopher C. Mansfield
Mr. Charles Manson
Ms. Elizabeth R. Marshall
Mr. Joe B. Martin
Mr.^ and Mrs. David R. Martinez
Mrs. Rosanne J. Martino
Mary S. Thompson Trust
Mrs. Doris V. Mattke°
Dr. Cecilie Mauritzen#
Mr. Brett Maxwell
Mr. Stuart H. May°
Mr. Walter F. Maybaum, Jr.
Ms. Barbara Mayers
Mr. Joseph G. McAndrew
Ms. Kathleen McCaffrey
Mr. John F. McCarthy
Ms. Maureen McCarthy
Mr. Paul McCarthy
Mr. Harrison McCaughey
Ms. Maude R. McCoy
Ms. Rebecca J. McFadden
Ms. Mary McGann
Ms. Donna McGinnis
Ms. Julie A. McGrath
Mr. William M. McGroarty
Mr. Edwin McGuire
Mrs. Anne McIlvaine
Mr. Robert McIntire
Ms. Theresa K. McKee and
Mr. Keith von der Heydt°
Ms. Karen McLaughlin
Mr. Lawrence C. McQuade
Mr. John J. Medeiros
Mr. Robert M. Medeiros°
Nawrie Meigs-Brown
Mr. Robert J. Ayers and
Ms. Barbara Meissner
Mr. Michael Meloan
Ms. Isabel Mendez
Mr. Steven Meredith
Dr. Evelyn M. Mervine#
Ms. Antoinette Metaxatos
Mr. Jeffrey Metheny
Ms. Angela Meyer
Mr. and Mrs. Donald S. Miller
Ms. Emma Miller
Ms. Kathryn A. Miller
Ms. Maryethel Miller
Mr. Dudley Miller and
Dr. Sarah G. Allen
Mr. Scot A. Miller

Mr. Thomas F. Miller°
Ms. Mary Miltimore
Ms. Nancy L. Miraldi
Ms. Diane L. Mirlicourtois
Mrs. Nell A. Moeling
Mr. John J. Mohr°
Dr.^ Judith E. McDowell and
Dr. John J. Molongoski
Mr. and Mrs. John E. Monahan°
Mrs. Janet Moore^°
Mr. Richard Moore
Professor Kenneth Mopper#
and Ms. Wei-Wei Jin°
Mr. Aidan Moran°
Mr. Maurice H. Morin
Dr. Archie T. Morrison, III# and
Dr. Hilary A. Morrison
Mr. and Mrs. Robert A. Morse
Mr. and Mrs. Edmund C.
Mortimer°
Mr. Alfred W. Morton°
Mr. and Mrs. Glenn A. Mulno°
Mr. Charles F. Mundhenk
Mr. John J. Munro, III
Ms. Deborah Munster
Ms. Margaret Murphy
Ms. Michaela Murphy
Mrs. Martha Murray°
Ms. Sujata Murty
Mr. Phillip Mustes
Mr. Jeff Myer
Mr. Joseph Myerson
Mr. Thomas Nagel
Ms. Dorsey Naylor
Sue and Tom^ Nemmers°
Ms. Ann L. Newbury
Mrs. Vinh Nguyen
Mr. John Nicewinter
Mr. Frank Niejadlik°
Ms. Ginny L. Noble-Mecewitz°
Mr. Douglas A. Norwood
Mr. Alexander A.
Notopoulos, Jr.°
Judith T. November
Mr. Kenneth Nygard
Ms. Gail M. Oakes
Mr. Christopher W. O'Brien
Mr. Donal C. O'Brien, III
Mr. Timothy D. Ocain
Mr. John J. O'Dea°
Ms. Beverly L. O'Donoghue
Ms. Amy Ogle
Mr. and Mrs. Takahide Ohkami°
Ms. Sherri Olaguez
Ms. Jacqueline R. Olson
Mr. Stephen C. Olsson

Ms. Katherine O'Neill
 Mrs. Anne H. Oppenheim°
 Ms. Carol Orme-Johnson
 Mr. John O'Rourke°
 Mr. Michael Padar
 Ms. Cynthia Palmer
 Mr. Eric Park
 Mr. John Parker^°
 Mr. and Mrs. James D. Parmelee°
 Mr. and Mrs. George Parthemos°
 Mr. and Mrs. Peter H. Partridge°
 Mr. Peter I. Partridge
 Patrick's Enterprises
 Mrs. Kathy Patterson^ and Mr. Richard Patterson°
 Mr. Trevor L. Paulson
 Professor Ann Pearson#
 Mr. Bradford Peck
 Mr. and Mrs. David R. Pedrick
 Ms. Kristy Pegram
 Ms. Jill Pennings
 Ms. Valerie Perkins
 Mr. George A. Peters
 Ms. Heather Peters
 Ms. Theresa Peters
 Ms. Ginnie Peterson
 Ms. Linda H. Peterson
 Mr. Charles O. Phillips, Jr.
 Mr. G. W. Phillips
 Mr. and Mrs. John A. Phillips
 Mr. Furio Picco
 Mr. Richard Pihlgren°
 Mr. and Mrs. Harold Pilskaln, Jr.
 Mr. Joseph Pitz
 Pledgeling Foundation
 PM Enterprises
 Dr. Denise A. Podolski°
 Mr. and Mrs. James R. Porter°
 Mr. Ben Potsaid
 Ms. Judi Poulson
 Mr. Benjamin Pratt°
 Ms. Mary Ann Preskul-Ricca
 Ms. Maxine A. Preston
 Mr. and Mrs. Joseph M. Prior°
 Ms. Kristina Prodouz
 Mr. William Pruitt
 Mr. Christophe Quinn
 Dr. David Ralston^
 Ms. Ellie W. Ramsey
 Anthony J. Ratkowski, Ph.D.
 Mr. Kurt Rausch
 Ms. Lisa M. Raymond^°
 Dr. Cheri A. Recchia#°
 Mr. Gregory R. Redding

Mr. John Redding
 Mr. Colin Reed^°
 Ms. Sarah D. Reeves
 Shepard and Judy Remis°
 Mr. Xavier Reyna
 Ms. Jennifer Rhoades
 Mr. Peter J. Rioux, Jr.^
 Mrs. Betsy Roadman
 Ms. Linda Roberts
 Ms. Ruth E. Roberts
 Mrs. Anne R. Robertson°
 Mr. Joseph C. Robillard°
 Mr. and Mrs. Francis W. Robinson, Jr.
 Mr. Doug Robinson
 Ms. Laura Rocker
 Mr. Andrew K. Rogers
 Ms. Elizabeth Page Rogers
 Mr. William T. Rogers
 Ms. Ann M. Rollins
 Mr. Robert E. Rose
 Dr. Leslie K. Rosenfeld#
 Mr. and Mrs. Leonard G. Rosner°
 Ms. Julie V. Ross°
 Ms. Marina Rottmueller
 Ms. Dorothy R. Rubeski
 Mr. Nate Rudman
 Mr. Peter K. Ryan, Jr.
 Mr. Paul Sanfilippo
 Dr.# and Mrs. Lawrence P. Sanford°
 Mr. and Mrs. Louis E. Sartori°
 Ms. Paula M. Sause
 Mr. and Mrs. William M. Savage°
 Mr. Michael V. Scalzo
 Ms. Donna K. Sceusa
 Ms. Sandra Schild
 Mr. Steven M. Schlecht
 Mrs. Pamela J. Schluter
 Ms. Carolyn Schmidt
 Mrs. Charles W. Schmidt
 Mr. Bernard Schober
 Ms. Gail Schoenbrunn
 Mr. Karl Schoettle
 Dr. Christopher A. Scholin#
 Mr. David Schramm
 Ms. Joan Schumaker°
 Ms. Barbara C. Schwartz
 Mr. Scott Schwertfager
 Mr. Glenn Scott
 Ms. Katherine G. Scott-White
 Mr. and Mrs. Arnold Seastrand
 Ms. Deborah Sedares
 Mr. and Mrs. Earle Seeley, III°
 Dr. Frances A. Segan°
 Ms. Rita Furst Seifert

Mr. Thomas Selby
 Edward B. Seldin, DMD
 Mr. Rhod Sharp
 Mr. Garrett C. Sharpless
 Ms. Alison Sheridan
 Mr. Norman Sheridan
 Mr. and Mrs. Peter M. Sherin
 Ms. Kathleen Shultz
 Dr. and Mrs. James H. Sidel°
 Mr. Albert Siekman
 Ms. Randi Silkman
 Mr. Joseph Silve
 Mr. David Simmons
 Mr. David M. Sinclair
 Mr. Paul E. Singley and Ms. Cheryl K. Letourneau°
 Mr. Brian Smith
 Professor Courtland L. Smith°
 Mr. Daniel A. Smith°
 Ms. Eleanor T. Smith
 Mr. G. Allen Smith^°
 Ms. Nancy Smith
 Ms. Roxanne Snaauw
 Mr. Stanley Snegroff
 Sola Salons Burlington
 Ms. Deborah Sopchak
 Mr. and Mrs. Joseph R. Spadea, Jr.°
 Mr. Judson W. Spalding
 Mr. and Mrs. Larry T. Spencer
 Dr. William S. Spitzer# and Ms. Alexis D. Brooks
 Dr. Robert F. Stallard#
 Mr. Sylvester L. Stamps
 Mr. and Mrs. David Star°
 Mr. Wallace Stark'
 Ms. Linda S. Steaverson
 Mr. and Mrs. Francis R. Stec
 Mr. and Mrs. Peter Steeves
 Mr. Joel Stein
 Mrs. Ann S. Stern°
 Mr. Gene Stewart
 Mr. Christopher Stowell
 Straus Family Charitable Foundation, Inc.
 Ms. Sally B. Strazdins
 Sabine Strnad
 Mr. Jeffrey C. Sturgess°
 Mr. and Mrs. Barry P. Sullivan°
 Mr. John Sutton
 Trudi Swain
 Ms. Kristian Swanson
 Dr. and Mrs. Thomas Swean, Jr.°
 Ms. Lois S. Swick
 Captain Peter W. Symasko
 USN (Ret.)°

Mr. Peter Syski
 Ms. Melanie C. Sze°
 Ms. Susan Szulman
 Ms. Margaret Taft°
 Mr. David P. Tapscott°
 Mr. Derrick Teel
 Mrs. Pamela Tepolt
 Mr. Noel J. Tessier
 Mr. Patrick J. Tetreault and Ms. Cora McAuliffe°
 Mr. Richard C. Tharin
 Deborah A. Thomas, Ph.D.
 Dr. Christine M. Thompson#
 Ms. Claudia S. Mueller Thomson
 Dr. and Mrs. James D. Thorne
 Mrs. Paulette S. Tidd
 Ms. Barbara Toomey
 Mr. Roger D. Torre°
 Ms. Christine L. Toubeau
 Mr. Alec Toumayan°
 Mr. Andrew Traub
 Mr. Paul E. Travaline°
 Dr. and Mrs. Richard J. Tredeau°
 Mr. Donald E. Trites, Jr.
 Ms. Patricia A. Trotter
 Mr. John M. Truedale



Scientists at WHOI and the Applied Physics Lab at the University of Washington were surprised to discover that blue sharks use large, swirling water masses, known as eddies, to fast-track their way down to feed in the ocean twilight zone—a layer of the ocean below the sunlit surface waters estimated to contain the largest collection of life on Earth. Blue sharks are considered a “near threatened” species due to heavy fishing pressure on populations across the globe. (Photo by Nuna Sá)

Dr.*# and Mrs. Brian E. Tucholke°
 Mr. Carl E. Turner°
 Ms. Mandi Turner°
 Mr. and Mrs. Wesley B. Turner
 Ms. Ellen Tynan
 Dr.* and Mrs. Kevin M. Ulmer
 Mr. Tom Ulmer
 Mr. Randall Updegraff
 Mr. John Urban
 Mr. Andrei Ursache
 Mr. William H. Varney, Sr.
 Ms. Rosemary D. Van Antwerp°
 Ms. Marian van Buren
 Dr. John C. Van Leer#
 Ms. Debra Vandiver
 Ms. Jean F. Vankin
 Mr. Daniel Varisco
 Varuna Vahn
 Ms. Susan Vavra
 Ms. Lori A. Verbrugge
 Mr. Eugene Viani and
 Mrs. Elizabeth
 Broadhurst-Viani°
 Ms. Karen D. Vitelli
 Mr. Keith von der Heydt
 Dr. Louis A. Vontver, M.D.
 Ms. Colleen M. Wade°

Ms. Kathy Walburn
 Mr.* and Mrs.* Barrie B. Walden
 Ms. Diane Waldo
 Mr. and Mrs. Gary B. Walker°
 Mr. Rex Walker
 Mr. Francis M. Walley III
 Mr. Stephen Walsh*
 Mr. James H. Ward
 Ms. Grace K. Warnecke
 Mr. Donald Warren
 Mrs. Sandra J. Wassell
 Mr. and Mrs. Winthrop
 Wassenar
 ENS Matthew Watts*°
 Mr. Thomas Webster
 Mr. William O. Webster, Jr.
 Mrs. Ellen Weinberg
 Mr. James S. Weinberg
 Ms. Elizabeth Weir
 Ms. Amanda Weiss
 Mr. Frederick L. Weiss
 Mrs. Ann W. West°
 Mrs. Lynne Whipple
 Major Jack A. White
 USAF (Ret.)
 Dr. Olivia M. and Dr. Terry L.
 White°

Dr. Sheri N. White#^°
 Mr. Steve Whitman
 Ms. Julie A. Whitmire°
 Mr. and Mrs. John A. Whitmore
 Mr. Michael Whitworth
 Mr. and Mrs. William H. Wilhelm°
 Mr. Eric Williams
 Ms. Linda M. Williams
 Mr. Paul Williams
 Mr. Jeffrey Wilson°
 Ms. Joan Wilson-Godeau
 Mr. John F. Winchester
 Ms. Susanna Wing
 Ms. Kathleen Winkler
 Felipe Winsberg
 Mr. Joseph Wise
 Mr. William Wise
 Ms. Joan G. Wolfe
 Ms. Andrea E. Wolga°
 Mr.* and Mrs. Bruce R. Woodin°
 Mrs. Christine M. Wooding
 Ms. Madeline Woods
 Mr. and Mrs. James A.
 Woodward°
 Ms. Martha Wooster
 Mr. Paul A. Worth
 Mrs. Maryanne H. Wray°

Ms. Allison Wright
 Professor and Mrs. Edward L.
 Wright
 Yuyuan Xie
 Mr. and Mrs. Arthur Yarranton°
 Ms. Isabel C. Yoder°
 Mr. Robert Yohe, Jr.
 Mr. David A. Yutzey
 Mr. Greg Zagloba
 Mr. Paul Zalesky
 Ms. Mary Zamore
 Ms. Danielle Zeedick
 Mr. Davin Zehme
 Ms. Natalie Zielinski
 Ms. Mary M. Zielke
 Dr. Victor Zlotnicki*°
 Ms. Carolyn Zolla
 Mr. Stanley Zyskowski

UNDER \$100

Mr. Douglas W. Abbott	Ms. Patricia F. Appelbaum	Mrs. Barbara C. Barrington	Ms. Rachel J. Berger
Mrs. Marie A. Abbott	Ms. Candace Apple	Mr. William E. Barry°	Reverend Robert A. Beringer
Ms. Linda A. Abrams	Mr. Michael Apprill	Ms. Margaret P. Bartenhagen	Mr. and Mrs. George Berkowitz
Mr. Donald A. Abt, V.M.D.	Mr. Paul J. April, Jr.	Ms. Beth Barth	Mr. Paul Berkowitz
Mr. Jan J. Ackerman	Aquamarine Builders Inc.	Ms. Grace Bartlett	Mr. and Mrs. Jeffrey Berlin
Ms. Kimberly J. Adami	Ms. Carol Aramaki	Mr. Martin R. Bartlett	Ms. Francine Berman
Torrey L. Adams	Ms. Marie E. Archambault	Mrs. Amy Barton	Mr. George L. Bernazani
Ms. Veronica M. Adams	Mr. James Armillay	Ms. Mary D. Bass	Mr. Roland W. Bernbeck
Mr. and Mrs. Gary Addiego°	Mr. Peter B. Armstrong	Ms. Barbara A. Bassett	Mr. Mortin Bernstein
Ms. Judith B. Addison	Ms. Diane L. Arnold	Mrs. Lorraine M. Bates°	Mr. Bruce D. Besso°
Dr. Tundi M. Agardy#	Dr. and Mrs. Philip B. Arnold°	Mr. Richard W. Bates	Ms. Joy M. Best
Ms. Marjorie W. Ahlin	Ms. Susan L. Arnold	Mr. Gary Batungbacal	Mr. John Bethell
Mr. Jonathan B. Aibel	Mrs. Deirdre H. Arntz	Ms. Sandra Bauer	Mr. Arthur L. Bettencourt°
Ms. Helen M. Aiello	Arsenault Studio	Ms. Regine Baus	Mrs. Joyce Bickerton
Mr. Frank Aikman	Ms. Amy Artmann	Chris Bausch	Mr. David Bierly
Mr. Richard Akell	Lee J. Ashman	Mr. Robert Bayley	Mr. Clare B. Billing, Jr.
Ms. Wendy L. Akin	Ms. Catherine Ashton	Ms. Elaine Bazarian	Mr. Len Billing
Ms. Cristina Alava	Ms. Kathleen Asmat	Mr. Greg Beadle	Ms. Wendy Billings
Ms. Lucy A. Albetski	Asphalt & Soils Quality Control Consulting	Mr. Howard L. Beagles	Ms. Janet Biondi
Mr. Joseph E. Albiut	Mr. Daniel D. Athey°	Mr. Robert D. Beane	Ms. Nicole Bischoff
Ms. Nina Albright	Mr. Aaron Attwood	Mr. William S. Beard	Mr. Roger A. Bishop
Ms. Helen Aldrich	Mr. Francis Aubuchon	Mr. Kenneth J. Beatrice	Dr. Charles A. Bisselle
Ms. Melissa Aldrich	Mr. Jack Austin	Ms. Karen Beauchaine	Mr. Eugene Bisson
Mr. Richard A. Alexander	Automatech International Inc.	Mr. Andrew Beaulieu	Mr. Eric Bjorneby
Ms. Susan S. R. Alexander°	Mr. Ray Averette	Beautykind Foundation	Mr. Chester D. Blackman, Jr.
Ms. Barbara Allen	Ms. Liz Aye	Mr. Alex J. Becerra°	Mr. Jason F. Blackmore
Mr. and Mrs. John E. Allen	Ms. Deborah Ayers	Mrs. Nancy Becerra	Ms. Joy A. Blackwood
Ms. Pamela B. Allen	Dr. and Mrs. David S. Babin°	Ms. Diane Beck	Mr. Robert Blackwood
Ms. Sandra K. Allen	Mrs. Cheryl Backman	Mr. Donald C. Beck	Mr. Elliot M. Blass
Ms. Sara M. Allen	Ms. Paula M. Bacorn	Mr. Richard S. Beck	Ms. Susie Blemker-Oliver
Mr. Robert C. Allia	Mr. Mark W. Bailey	Mr. Thomas F. Beck	Ms. Deborah Blish
Dale Allison	Mr. Robert E. Bailey	Ms. Patricia Beckenhaupt	Ms. Nini Bloch
Ms. Frances Almeida	Mr. Roy Bailey	Ms. Valerie Becker	Mr. James E. Blough
Mr. Steven C. Altenbernt	Ms. Joellen Baird	Ms. Jane Beckstrom	Ms. Linda A. Blumer+
Mr. Larry Altizer	Mr. Kyle Baker	Ms. Margot Beckett	Ms. Marilyn Blumsack
Mr. Robert Alvine	Mr. Steve Baker	Ms. Sarah Bedrosian	Mrs. Heidi T. Blythe
Mr. Michael C. Amacher	Mrs. Janet Bal	Mr. Gerald Beetham	Ms. Sarah Boardman
Ms. Carol L. Amaral°	Ms. Judy Baldwin	Ms. Annamarie H. Behring^	Mr. Richard G. Boardman
Mr. Marco G. Amato, Jr.	Mr. Thomas M. Baldwin, Jr.	and Mr. Jason K. Musacchia°	Ms. Irene Bobblis
Ms. Ida Amir	Mr. William Baldwin	Dr. Samir R. Belagaje	Ms. Joan K. Bobier
Ms. Catherine Amsden	Mr. Steven Balkau	Mr. and Mrs. Nelson A. Belanger, III	Mr. Harold Bobowicz
Ms. Angeliki Anagnos	Mr. Derek Balke	Ms. Alice C. Belden	Ms. Lauren J. Bode
Mr. George Anchors	Mr. Robert W. Balliett	Ms. Dorothy C. Bell	Ms. Theresa L. Boggis
Ms. Amity Andersen	Mr. Michael Baltzer	Mr. Ross A. Bell	Mr. William J. Bogstad
Mrs. Elaine R. Anderson°	Mr. Thomas C. Banever	Mr. John L. Belle°	Mr. Allen Bohnert
Mr. Fred A. Anderson	Mr. Henry F. Barbour	Ms. Shirley A. Bellmer	Ms. Dina Boldgett
Mr. James F. Anderson	Mr. Thomas L. Barden°	Mr. Norman Beloin	Ms. Crystal Bollinger
Kara Anderson	Mr. Lewellys F. Barker	Ms. Debra Benevides	Ms. Helen S. Bolton
Mr. Kevin Anderson	Ms. Judith S. Barlow°	Ms. Marcia Bennet	Ms. Nancy J. Bolton
Ms. Nedret Andre	Mr. Raymond D. Barnes	Ms. Kelly A. Bennett°	Ms. Priscilla M. Bommer
Mr. James D. Anker	Mr. Roger S. Barnes	Mr. Kenneth W. Bennett	Ms. Kristina Bonilla
Anonymous	Mr. Robert Barney	Ms. Paula Bennett°	Mr. Richard Bonito
Mrs. Christine Antaya	Mr. David Barrett	Mr. Peter H. Berasi	Mr. Joseph Bontrager
Ms. Sofia H. Anthony	Mrs. Susan A. Barrett	Mr. Junius C. Berger	Ms. Katherine Boomer
Ms. Laurie Aparo			Mr. Taylor Boring

Mrs. Irene K. Bossert	Jo R. Brooks	Ms. Phyllis E. Cahoon	Mr. William Chamousis
Mr. Mark S. Bostwick	Mr. Michael A. Brooks	Ms. Carol S. Cairns	Ms. Anne C. Chandler
Mr. James M. Bosworth	Ms. Gail A. Broome	Ms. Cynthia Caja	Mr. John W. Chapman, Jr.
Mrs. Tyson Bottenus	Brotherhood Creative Services	Mrs. Anita L. Calabrese	Ms. Susan E. Chapman
Mr. Paul Bottomley	Vashti D. Brotherhood	Dr. Ann Cali	Ms. Natalie Charkow
Ms. Alexandra Boudette	Mr. Stephan W. Brothers	Mr. Robert J. Callaghan°	Ms. Molly J. Check
Mr. Richard Boulanger	Ms. Elizabeth D. Brown, Ph.D.	Ms. Kathleen Callahan	Mr. John J. Cheney, Jr.
Ms. W. Dawn Boulanger	Ms. Barbara Brown	Mrs. Jane J. Callaway	Ms. Patricia Cherney
Mrs. Virginia G. Bove	Mr. Edward W. Brown°	Ms. Marilyn A. Cameron	Ms. Laura Cheromcha
Mr. Brett Bowden Esq.	Mr. Gene Brown	Ms. Susan Cameron	Ms. Lisa F. Chomack
Mr. Philip R. Bowen	Ms. Judith A. Brown	Theda Camp	Mr. Ronald D. Chomiw
Mr. James E. Bowles	Mrs. Judith R. Brown	Mr. Franco Campanello	Ms. Celia C. Chow
Mr. Glen Bowman	Mr. Kurtis Brown	Mr. Bruce A. Campbell	Mr. Humphrey W. Chow
Mr. Peter Bowman°	Ms. Ronda Brown	Ms. Cynthia Campbell	Ms. Lauren E. Christ
Mr. Dennis Boyce	Mr. Ross Brown	Mr. David M. Canady	Ms. Joan Christenberry
Mr. Leonard J. Boyce and	Ms. Stephanie J. Brown	Ms. Patricia A. Canavan	Mrs. Miroslava Christesen°
Ms. Jean C.K. Pitcairn°	Mr. Stephen Brown	Mrs. Evelyn P. Canfield	Ms. Ellen Christian
Lesley Boyle	Mr. Timothy Brown	Ms. Kirstin van Luling	Ms. Emily F. Christiansen
Mr. John E. Boylston	Mr. James R. Browne	Cape Cod Apartments	Dana Christy
Ms. Lynn Brace	Mr. William Brownstein	Residents	Ms. Beth Chute
Mr. Richard H. Brady Jr.°	Mr. and Mrs. Robert S.	Ms. Penelope G. Caponigro	Ms. Christina Ciarametaro
Ms. Elizabeth Bradford	Bruguiera°	Mr. Edward J. Carafa	Mr. Thomas L. Ciardelli
Mr. Craig Bradley	Mr. Austin Brummund	Mr. and Mrs. Terry F. Cardin	Mr. John D. Ciminello
Ms. Sally S. Bradley	Mr. Domenic Bruni	Ms. Cynthia Carey	Mr. David Clark
Mr. William A. Bradshaw	Mr. Michael S. Bruscino°	Mrs. Pamela S. Carle	Mr. Fred Clark
Mr. William C. Bradshaw	Ms. Lara Bubeck	Ms. Justyna M. Carlson	Ms. Lorelee Clark
Mrs. Marie S. Braga	Mrs. Inga J. Buccella	Mrs. Angela Carmichael	Mrs. Marybeth E. Clark
Ms. JoAnn B. Brand	Ms. Catie Buchanan	Mr. John L. Carmichael°	Ms. Sarah Clark
Mr. Spyros Braoudakis	Mr. Todd Buck	Mr. Andrew G. Carney	Ms. Beth H. Cleary
Ms. Ritamarie Braswell	Mr. Edward V. Buckler	Ms. Susan L. Carney	Ms. Anne Cleaves
Mr. John M. Braver	Mr. John R. Buckley	Mrs. Jane Carpenter	Ms. Joanne Clemons
Ms. Ellen Brawley	Ms. Lucy Bucknell	Ms. Deborah Carr	Mr. Joel P. Cleveland
Ms. Elizabeth Bray	Ms. Phyllis Budne	Dr. Sandra Carriker°	Mr. Thomas E. Clouse, Jr.
Mr. Willie Breig	Ms. Maria A. Bukowski	Mr. John P. Carter	Ms. Rachel B. Coan°
Ms. Geraldine R. Brenia°	Ms. Katharine Bukstein	Mr. Katherine Carter	Ms. Gina Coates
Mr. Michael J. Brenner	Mr. Todd Bulock	Ms. Julia Caruk	Judith E. Cobb
Mr. Herbert Brentlinger	Mr. Stewart Burchard	Mr. Albert J. Caruso	Mr. Wesley J. Cobb
Ms. Melissa A. Brewer	Ms. Jewell Burdette	Mr. and Mrs. Jaime S. Carvalho°	Ms. Marilyne Coblentz
Ms. Jennie E. Bridge	Ms. Kayleigh Burgess	Ms. Phoebe Cascaden	Mr. John A. Cochran
Mr. Samuel E. Bridge	Ms. Ursula Burkhard°	Mr. James Case	Mr. Mark Codington
Mr. and Mrs. Edward F.	Mr. Daniel E. Burns	Jessie Casella	Ms. Anne F. Cogan
Bridgman	Mr. Randolph Burns	Mr. Carl Cassarino	Chris Cogliandro
Mr. Ronald J. Brinegar	Mr. Robert Burpee	Ms. Carla J. Cassity	Ms. Ellen L. Coldren
Mr. William H. Brinegar	Mr. John Burrige°	Mr. George Castillo	Mr. Richard Cole
Mr. Ray Brinka	Ms. Sylvia G. Burrill	Ms. Jeanne Castro	William Cole
Mr. Daniel Brinkman	Mr. and Mrs. Robert E. Burton	Ms. Mary S. Cavanagh	Kim Coleridge
Mr. Richard L. Brisbois	Timon Busha	Mr. Jon Cavuoto	Mr. Jeffrey Collins
Mr. Douglas Brisebois	Ms. Lorri Busick	Ms. Sarah Cawood	Dr. James R. Collins#
Ms. Wanda W. Britt-McDonald	Ms. Jean E. Butgereit	Mr. and Mrs. Ronald A.	Mr. Joshua Collins
Mr. Kenneth Brock	Ms. Anne Butler	Chadderton°	Mr. Leo Collins
Ms. Susan Brock	Mr. John W. Butler, Jr.	Ms. Nancy I. Chaddock	Ms. Phyllis C. Collins
Ms. Laura F. Brodbeck	Ms. Louise Butler	Mr. Harvey Chafitz	Ms. Ernestine B. Columbo
Mr. and Mrs. Joel Broida	Mr. Ernest G. Byers	Ms. Melissa Chalek	Ms. Alma Colvin°
Mr. Carl Brolin	Ms. Jane D. Byrne	Ms. Donna Chambers	Mr. Peter W. Comeau
Mr. Charles L. Brooks	Mr. Thomas J. Byrne	Ms. Susan Chambers	Ms. Hope Compton
Frankye B. Brooks	Ms. Cynthia A. Cable	Ms. Wendy M. Chambers	Mrs. Mary E. Comtois

Mr. Charles P. Cona	Mr. Geoffrey S. Curtis	Mr. Daniel R. Demers°	Mrs. Wilhelmina P. Dreier
Ms. Carolyn J. Conant	Ms. Jane S. Curtis	Mr. William J. Dempsey	Mr. Thompson Drew
Ms. Debra Concannon°	Ms. Joanne C. Curtis	Ms. Linda J. Denis	Ms. Elise Driscoll
Mr. and Mrs. Peter J. Condakes	Mr. Stanley E. Cushing	Ms. Eleanor P. Dennis	Ms. Kathleen Driscoll
Ms. Maria Conde	Ms. Loretta R. Custard	Mr. Robert Dentremont, Sr.	Mrs. Priscilla Droher
Mr. Kevin J. Condon	T. Custer	Ms. Susan Depalma	Mr. David L. DuBois^
Mr. Edward K. Conklin	Ms. Linda J. Cysz	Mr. Frederick J. Deraad	Ms. Jean Dubson
Ms. Catherine F. Conly	Mr. and Mrs. John L. Czelusniak°	Mr. John W. Devine, III	Ms. Jody Ducommun
Ms. Elizabeth M. Connelly	Mr. John T. Daggett	Dr. Sean T. Devine°	Mr. Elliott E. Dudnik
Ms. Kristen Connelly	Ms. Priscilla Daggett°	Jeri Devlin	Mr. Michael Duffy
Ms. Mary J. Connolly	Dr. Kristina A. Dahl#°	Ms. Allison Devore	Mr. Michael F. Duffy
Ms. Catie Connor	Ms. Mary J. Daigle	Mrs. Lauren Dews	Mrs. Ann L. Dugovic
Mr. Michael B. Connor	Ms. Lana J. Daily	Ms. Carol A. Dhimitri	Ms. Beth M. Duguay
Ms. Sheila A. Conroy	Ms. Joan S. Dainer	Mrs. Catherine Di Adamo	Ms. Kathy Dummer
Ms. Judith A. Cook	Mr. Mark W. Dalby	Mrs. Amy Diamant	Ms. Emily Dunnell
Mr. Jeffrey Coombs	Mr. Robert Dalcorn	Mr. Gene Diaz	Ms. Judy E. Dunning
Mr. Charles B. Cooper	Ms. Karen Daly	Ms. Ellen DiCerbo	Ms. Gail A. Dunnrowicz
Ms. Donna R. Cooper°	Mr. Vincent D'Amato	Ms. Pamela S. Dickenson	Mrs. Jennie Dunphy
Ms. Joan Cooper	Mr. John D'Amico	Mr. Joerg Dietrich	Ms. Jacqueline J. Dupon
Mr. David A. Copeland	Ms. Susan O. Daniels°	Ms. Heidi Dietterich	Captain# and Mrs. James L. Durham°
Ms. Virginia M. Copp	Ms. Victoria Dankert	Ms. Lory Diez	Ms. Larain Durr-Beckhorn
Mr. William W. Corcoran	Mr. Andrew D'Annolfo	Mr. Christopher Diggs	Uarda Dush
Ms. Mary K. Cordill°	Mr. Glenn Danziger	Dr. Tom Dignes°	Mr. William P. Dustin
Mr. Paul Cormier	Eugene A. Darkow D.D.S., S.C.	Mr. Henry Dillenbeck	Ms. Cheryl M. Dutra and
Del Cornwell	Ms. Kathleen Darring	Ms. Julia Distefano	Mr. John P. Rufo
Ms. Kerry-Ann da Costa	Mr. Richard A. Davidson	Hayley Ditzler	Per Dutton
Mr. Steven Costion	Mr. Barry Davies	Mr. David Dixon°	Mr. Harold Dwin
Ms. Roberta J. Cota	Mr. Fred W. Davis	Ms. Lisa R. Dobbler	Ms. Susan C. Dybes
B. J. Cotton-Jeffords	Ms. Jean Davis	Mr. Matthew L. Dodds°	Ms. Amanda Dye
Ms. Doris E. Cottrell°	Ms. Pamela K. Davis	Lani K. Dodge	Mr. Charles W. Dyer
Mr. William H. Couch	Mr. Gerry Davitt	Ms. Donna M. Doherty	Ms. Lynn Dziurgot
Ms. Marcella Couchon	Ms. Paula J. Dawson	Mr. Paul L. Doherty°	Ms. Judith M. Dzyak°
Mr. William G. Coughlin	Ms. Joan De Freitas	Ms. Patricia J. Dolan	Ms. Susan D. Earle
Ms. Eileen Craffey	Ms. Kathryn de Graaf	Mr. Manganelli Domenic	Mr. Howard C. Eaton°
Lin L. Craft	Mr. Alessandro De Gregori	Mr. Roger P. Donegan°	Mr. Edward K. Eberhart°
Ms. Lisa Craig	Ms. Suzanne E. De Lesdernier	Ms. Anne P. Donovan	Mr. John L. Edmeston
Mrs. Jennifer F. Crary	Mr. William C. De Sisto	Ms. Patricia E. Donovan	Ms. Aliza Edwards
Ms. Dorlene Crawford	Mr. Wouter de Weerd	Ms. Marissa Doran	Mr. Thomas K. Edwards
Mr. Julius F. Craynock°	Mr. James J. Dean°	Ms. Marjorie Doran	Mr. David Effron
Ms. Ann S. Crocker	Dana G. Deangelis	Ms. Laura Dorfman	Mr. John A. Egan
Mr. Frederick G. Crocker, Jr.	Ms. Mary Jane G. DeBay	Mr. Terry A. Dorschner°	Mr. and Mrs. Patrick M. Eggleston
Cromwell Frame N Art	Ms. Sandra J. Dec	Ms. Anna M. Dos Santos	Mr. William M. Eggleston
Mr. James M. Cronin°	Ms. Cathy H. DeCou	Mr. James Doubleday	Mr. and Mrs. Charles S. Eisenberg
Ms. Susan W. Cronin	Ms. Felicia Dedominicis	Ms. Jayne Doucette^	Chris Eisenberg
Ms. Bonnie L. Crosfield	Ms. Susan Deese	Mr. Brian Dougherty	Ms. Phyllis T. Eisenberg
Ms. Linda J. Crosier	Mr. Christopher L. Defranco	Ms. Patricia R. Douglass	Elizabeth P. Foundation
Mr. Erbin L. Crowell, III	Mr. Rudolph Dehn	Ms. Nancy Dow	Revs Elledge
Ms. Patricia A. Cruise	Ms. Barbara C. deJanvry	Mr. Thomas J. Dowling	Mr. Gordon Elliot
Yaoyi Cui	Mr. Joseph R. Delaney Sr.°	Mr. Charles A. Dowse, III	Mr. John R. Ellis
Mr. Victor Cummings	Mr. Peter C. Delaney	Mr. Alan D. Doyle	Mr. Timothy Ellis
Ms. Marie Cummins	Mrs. Virginia Delaney	Mr. Brian J. Doyle	Ms. Adria A. Elskus
Ms. Nancy B. Curley°	Ms. Martha Delgado	Mr. Thomas Doyle	Ms. Elisabeth C. Emory
Mr. H A. Curran	Ms. Betsy DeLisle	Mrs. Judith Dragotta	Mr. Thomas C. Emory, Jr.°
Ms. Laura P. Curran	Ms. Linda Deluca	Ms. Lynn Drake	
Ms. Mary Ellen Curran°	Mr. Richard Demello	Ms. Nancy J. Drake	
Ms. Dona J. Curti		Ms. Eileen Dranetz	

Ms. Susan Eno	Captain Glenn A. Fletcher	Mr. Ryan Garbe	Mr. Carl W. Gold
Mr. Bruce G. Epperly	USN (Ret.)	Mr. Douglas A. Gardels	Mr. Edward M. Goldberg
Ms. Barbara Epstein	Juancristobal Flores-Garcia	Mr. Alfred R. Gardner	Ms. Sharon K. Goldfarb
Mr. David Erdreich	Ms. Carolyn A. Foland	Ms. Judy K. Gardner°	Ms. Ann Goldsmith
Ms. Patty J. Erickson	Mr. Brian Foley	Mrs. Vivian L. Gardner	Mr. Richard T. Gomes
Mr. James E. Ernst	Mr. Daniel S. Foley	Dr. Elizabeth D.® and	Mr. Donald T. Gomez
Mrs. Cara F. Eschuk	Mrs. Susan E. F. Foley	Mr. Douglas F. Garland°	Ms. Nancy Gongoll
Mr. James D. Eskra	Mr. Stephen Folino	Ms. Marjorie Garlick	Mr. Joel Gonzales
Mr. Douglas Eslinger	Ms. Susan M. Folsom	Ms. Susan J. Garrett	Mr. John Gonzalez
Ms. Aline Euler	Mr. Harold Fong	Ms. Lydia Garvey	Mr. Juan M. Gonzalez
Mr. Dennis Fagan	Mr. Carl S. Fontneau	Mr. William Garwood	C. I. Goodman
Mr. Ray E. Faith°	Ms. Patricia K. Force	Mr. Donald L. Gasho	Mr. Jonathan H. Goodman
Ms. Megan Farias	Ms. Aleta Forcione	Ms. Angelina Gastall	Mr. Don Goodrich
Ms. Mary C. Farmiloe	Ms. Dawn Forgerson	Ms. Karen A. Gates	Dr.* and Mrs. Jeffrey T.
Ms. Jean Farrell	Mrs. Barbara L. Forrester	Mr. Joseph A. Gaudet	Goodwin°
Mr. John J. Farrell	Mr. Carlos Fortes	Mr. Roger C. Gauss	Ms. Molly F. Goodwin
Kelly A. Farrell	Ms. Barbara J. Fortier	Mrs. Anne Marie R. Gauvin	Ms. Nancy J. Goodwin
Mr. Scott Farrow	Ms. Elizabeth Foss	Mr. and Mrs. George M. Gavin	Ms. Valerie Gopinath
Mr. Anthony G. Favale	Mr. Stephen Foster	Ms. Cheri Geckler	Ms. Jacquelyn Gordon
Ms. Virginia Fay	Ms. Donna Fountain	Ms. Louise Geddes	Mr. John F. Gorman
Ms. Paula F. Fazio°	Ms. Veronique Fournier Wynne	Mr. and Mrs. Timothy E. Geers	Ms. Marsha M. Gorman
Mr. Richard D. Feczko	Ms. Judith Fowler	Dr. John P. Geis, II	Mr. and Mrs. Robert Gotschall
Ms. Marilyn J. Feddeler	Mr. Allen R. Fox	Mr. Stephen Geller	Mr. Carl A. Gottlieb
Mr. William J. Feenstra	Mr. Peter C. Fox	Mr. and Mrs. Joan Genereux	Ms. Sarah G. Gottschalk
Mr. David Feinberg	Ms. Ivy Frances°	Mr. Carl Georgeson	Mr. Bill Gould
Mr. Michael M. Fellows	Robin Franck	Mark Germer	Mr. Jeff Grace
Mr. Brooks Fenno, Jr.	Mrs. Kathleen Franco-Anthony	Alexej Getmanov	Ms. Martha P. Grace
Mr. Rodney Fernandez	Mr. Bruce S. Franklin	Ms. Virginia E. Geyer	Mr. David A. Grader
Ms. Carla Feroni	Ms. Joann Franklin-Knox	Mr. John N. Gianakos	Mr. Peter M. Graf
Ms. Alice Ferrick	Mr. James W. Fraser	Mrs. Kathleen A. Giarmona	Ms. Sarah Grallert
Ms. Lillian D. Fesperman	Ms. Maura S. Freckleton	Mr. Kenneth Gible°	Ms. Kathy Granfield
Ms. Christine B. Fields	Ms. Ann K. Freedman	Mrs. Marion A. Gibbon	Ms. Theresa M. Gratis
Mr. Daniel Fields	Ms. Marsha Freedman	Mr. Christopher J. Gibbons	Ms. Linda B. Graves
Mr. Donald J. Filla	Ms. Rebecca F. Freedman	Mr. and Mrs. Craig Gibson	Mr. John R. Grawe
Mr. William O. Finch	Mr. Jason Frey	Ms. Ellen J. Gibson-Kennedy	Mr. Charles Gray
Mrs. Dianne M. Finkelstein	Mr. Robert H. Frey	Mrs. Mary V. Giersch	Mr. Keith E. Gray
Ms. Virginia Finley	Ms. Mary C. Friedlander	Ms. Kay E. Giffin	Mrs. Sandra A. Gray
Virginia Finley	Ms. Barbara Friend^	Ms. Ann Gilbride	Mr. Robert E. Grealish
Ms. Julie B. Finn°	Ms. Anne K. Friis	Mr. Charles W. Gill	Mr. Newton Greaser
Mr. Michael J. Finn°	Ms. Barbara Frischkorn	Ms. Sarah Gillen	Mr. Robert W. Green
Mr. Michael Finnell	Ms. Starlyn A. Frischmuth	Ms. Linda H. Gillet	Mr. Samuel Green
First National Bullion, LLC.	Mr. Saul Frommer	Mr. Tom Gilman	Randal Greene
Ms. Nadine Firth^	Ms. Shirley Frost	Ms. Kathy B. Gilmore	Mr. Brian F. Gregg
Ms. Mary Fischbach	Mr. Louis Fuchs	Mr. James J. Ginley	Mr. Nancy C. Gressinger
Mr. Michael Fishbein	Mr. F. Thomas Fudala	Ms. Deborah S. Giokas	Mr. Bobby L. Grier
Ms. Dori Fisher	Mr. Jonathan A. Fuller°	Mr. Tim Gipe	Mr. Steven Griff
Mr. Tyler Fisher	Mr. David M. Gabree	Mr. David Gladstone	Ms. Dorothy Griffin
Mr. S. J. Fishman	Mr. Peter J. Gabrielli	Ms. Marcia J. Glashagel	Mr. G. Barton Griffin°
Mr. Edward A. Fisichelli	Reverend John P. Gaffney	Mr. David J. Glass	Mr. John L. Griffin
Mrs. Erika Fitzpatrick^	Mr. Gilbert P. Gagnon°	Mr. Keith Glavin^	Ms. Barbara Griffiths
Sean P. Fitzpatrick	C. J. Gainer	Mr. Robert Gleason	Mr. Donald P. Grigas
Ms. Carole J. Flaherty°	Mr. Alan Galster	Mrs. Beth H. Glenn	Mr. Delvin Grindle
Mr. Patrick J. Flaherty°	Ms. Kristin Galvin	Ms. Mary J. Gocher	Ms. Deborah A. Griswold
Mr. Daniel J. Flanagan	Mr. William J. Galvin, Jr.	Mr. Philip A. Goddard	Mrs. Linda Grochowski
Mr. A. M. Fleishman°	Ms. Gwyn Gandy	Mr. Theodore Godlaski	Mrs. Jackie Grodie-Potesta
Mr. Ronald A. Flesher	Mr. Joseph N. Garbak	Ms. Johanna E. Goering	Ms. Kathe Groll

Mr. George Groom	Ms. Jeanne F. Harper	Ms. Edna M. High	Mr. and Mrs. Richard A. Houghton, III
Ms. Barbara Grossman	Mr. Robert C. Harper	Merrill J. Hilf	Mr. John P. Houle and Mrs. Cynthia M. Milano
Ms. Shelby Grossman	Ms. Wendy M. Harrah	Ms. Patricia Hilgendorff	Ms. Vanessa Houston
Mrs. Pauline Grover	Mr. Baxter Harris	Mr. James J. Hill, Jr.	Ms. Bonnie J. Howitz
Ms. Linda S. Grubb	Mr. Donald H. Harris	Mr. Richard T. Hill	HSYC, Inc.
Ms. Christina Guan	Mrs. Donna L. Harris	Ms. Wilma F. Hill	Mr. Brad R. Hubbard
Mr. and Mrs. Peter Gucciardo°	Mr. William E. Harrison	Ms. Edith Hillinger	Ms. Marian M. Hubby
Ms. Susan B. Gudaitis	Ms. Lyn E. Harrod	Ms. Lynn A. Hillman	Ms. Judy Huber
Ms. Kay D. Guild	Mr. Leo Hartke	Dr. Richard Hindmarsh	Mr. Allen A. Huemer°
Mrs. Claire E. Gulick	Mr. and Mrs. Charles Hartman	Hip Decor	Mr. Christian Hughes
Mr. Charles R. Haberlein	Mr. Thomas Hartman	Mr. Gerard J. Hirsch	Mrs. Christine S. Hughes
Mr. Terrence Hackett	Mr. Robert Harvey°	Mrs. Gloria M. Hirschbine	Mr. Denis K. Hughes
Mr. Antoine Hadamard	Ms. Mary B. Hatch	Mr. Joel E. Hirsh	Mr. Frank W. Hughes
Mr. Michael R. Haeger	Ms. Debra L. Hathaway	Mr. Robert W. Hirt	Mr. James P. Hughes
Ms. Carol Haesche	Mr. Donald Haupt	Mrs. Diane A. Hitchcock°	Ms. Karen Hughes
Mr. Gene Hagedorn	Douglas C. Hauschild O.D.	Mr. David R. Hobart	Mr. Ronald W. Hull
Mr. Carl Hagelin	Mr. John Hauser	Ms. Susan P. Hobart	Mr. Randolph Humphrey
Mr. Philip W. Hagenah	Mr. Laurence Hausman	Ms. Peggy Hoburg	Ms. Phyllis L. Hunt*
Mr. James Hagerstrom	Ms. Lillian K. Haversat°	Ms. Clarice M. Hodges	Ms. Joan B. Hunter-Brody
Mr. William D. Hahn	Mr. Thomas J. Havey	Mr. Charles G. Hodgson	Ms. Mary P. Hurry
Mr. James N. Hailey°	Ms. Susan Hawk	Chris Hoefelmeier	Ms. Donna Huskins
J<hompson-Hailstone	Mr. Mark Hawkins	Mrs. Donna K. Hoell	Ms. Carla Hyde
Mr. Robert J. Haiman	Mr. David Hawksworth	Mr. Don Hoff	Mr. David J. Iacono
Andrew S. Haimes PE	Mr. David Hayden	Mr. Daniel Hoffman	Ms. Nina Idelson
Ms. Yvonne D. Haitsma	Mrs. Deborah K. Hayden*	Mr. Daniel J. Hoffman	Kalman V. Illyefalvi
Mr. David B. Hale	Ms. Elizabeth Haynes	Ms. Diane Hoffman	Mr. Clyde N. Inagaki
Mr. Dwight Hall	Mr. Geoffrey A. Heath	Mr. James C. Hogan, Jr.	Ms. Cecile D. Ingram
Mr. Monroe B. Hall	Ms. Jill Heathman	Mr. Thomas S. Hogeland	Mr. John Ingwersen
Mr. Rochester Hall, Jr.	Ms. Pamela M. Hebert	Ms. Maggie A. Hojlio	Mr. Salvatore Insogna
Mr. Russell Hall, Jr.	Mr. Kenneth N. Hebson	Ms. Donna L. Holahan	Ms. Judith Irven
Mr. Earl F. Hallet	Ms. Arlene Hecht	Ms. Rita L. Holahan	Mr. John Irving
Mr. John M. Halloran	Ms. Melissa G. Hegeman*	Ms. Adelle Holcombe	Mr. David Irwin
Ms. Dorothy G. Halmstad°	Mrs. Holly K. Heggie	Ms. Joan P. Holdgate	Mr. Robyn Isaak-Kwon
Ms. Deborah D. Hamilton	Ms. Tiara Heintz	Ms. Nancy H. Holguin	Ms. Linda Isbell
Mr. Harold Hamilton	Ms. Lisa A. Heinz	Ms. Joan E. Hollander	Mr. Nick Iwanisziw
Hamilton Marine Inc.	Mr. and Mrs. Jerome Heller	Ms. Virginia L. Hollander	Mr. Bruce Jacks
Ms. Carolyn S. Hammers	Mr. Martin Helminski	Ms. Kathleen R. Holley	Adriaen M. Jackson°
Mr. William B. Handerhan	Ms. Donna J. Henderson	Mr. Ronald Holley	Ms. Daniel M. Jackson
Ms. Susanne R. Handler	Wendy^ and Michael Henley	Mr. Zane R. Hollingsworth	Ms. Margaret Jackson°
Ms. Nancy R. Haney	Mrs. Dianna Henson	Ms. Cynthia J. Holmes	Ms. Nancy Jackson
Mr. Justin Hannan	Ms. Patty Hentz	Ferrin Holmes	Mr. Vincent J. Jackson
Mr. Thomas G. Hanselmann	Mr. Robert C. Heppler	Ms. Diane L. Holt	Loyal Jacob
Mr. Jorgen L. Hansen°	Ms. Shirley Herd	Mair Honan	Ms. Christina Jacobi
Ms. Delene Hanson	Luz M. Hernandez	Mr. James Hook and Ms. Wen Chyi Shyu°	Reverend Philip Jacobs
Ms. Margaret Hanson	Ms. Madison H. Hernandez	Ms. Leah Hoover	Mr. Mitchell B. Jacoby
Rain Harbison	Ms. Cheryl L. Herwig	Mr. Richard B. Hopkins	Ms. Lynn A. Jacunski
Mr. George L. Hardman	Mrs. Caroline Ferris Hetfield°	Mr. Al Hoppe	Ms. Christina Jameson
Mrs. Jane H. Hardy	Ms. Janet Hettery	Mr. Timothy Horkings	Ms. Laura J. Janken
Mr. Luc Hardy	Mr. Robert M. Hettiger	Mr. Charles Horne	Ms. Constance Janssen
Mr. Robert S. Hardy, Jr.	Mrs. Barbara Heyde	Mrs. Patricia A. Horne	Mr. Ralf L. Jansson
Inner Harmony Natural Hair Care	Mr. and Mrs. Alan J. Hicks°	Mrs. Shirley D. Horowitz	Ms. Pam Jarvis
Mr. James K. Harms	Dr. Walter L. Hicks°	Mr. Stuart Horowitz	Ms. Anne Jellison
Ms. Pamela T. Harms	Ms. Astrid Hiemer	Ms. Cheryl Horton	Ms. Abby Jenkins
Ms. Connie Harns	Ms. Joan B. Higgins	Ms. Constance Horton	Mr. David M. Jenkins
Ms. Judy Harouff	Mr. Michael J. Higgins	James R. Hosmer, D.M.D.	
	Mr. and Mrs. Charles Higginson		

Ms. Judith E. Jenkins	Mr. Paul M. Katsaros	Ms. Judith M. Klem	Ms. Teresa Lachowicz-Chin
Ms. Andrea Jennings	Mr. Richard Katz	Mr. Elmer K. Klumpp	Mr. Hal Lacroix
Mr. Neil Jennings	Mr. Benton F. Kauffman, Jr.	Mr. Jonathan Knight	Ms. Helen Ladner
Mr. Theodore D. Jennings	Mr. Peter T. Kavanaugh	Ms. Phyllis L. Knight	Mr. Jerome S. Lafferty
Mr. Peter G. Jensen	Ms. Beverly J. Kaveney	Mr. Robert C. Knop	Ms. Jacqueline M. Laire°
Ms. Sharon J. Jensen	Kikue Kawanaka	Mrs. Jennifer Knuuttila	Mr. John D. and
Ms. Vickie Jensen	Ms. Leigh Kaylor	Mr. Ronald T. Kobayashi	Mrs. Diane R. Lamb
Mr. Heber Jentzsch	Ms. Suzanne K. Kee	Mr. ^ and Mrs. ^ Mark Koenig	Mr. William Lamb
Sydney Jimenez	Ms. Christa H. Keefe	Mr. Barry R. Kogut	Mr. Edward A. Lambert, Jr.
Ms. Alice Jin	Mr. Brian Keegan	Mr. Wade Kohlmann	Ms. Marie R. Lamson
Ms. Margaret G. Jinerson	Mr. Leo W. Keenan, Jr.	Mr. Thomas E. Kokernak	Mr. Richard B. Landry
Ms. Barbara Johnson	Ms. Katheryn C. Keene	Ms. Claire R. Kolick°	Dr. and Mrs. Roger F. Landry°
Mr. David K. Johnson°	Mr. Larry H. Kehoe	Mr. Robert S. Kollman	Ms. Andrea Landsberg
Ms. Debra A. Johnson	Mrs. Sharon Keller	Ms. Anja S. Kondo°	Mr. Thomas Lane°
Mr. Jeffrey M. Johnson°	Mr. Vaughn Keller	Mr. Andrew Kopp	Mr. David M. Lang
Mr. Jeffrey P. Johnson	Mr. William Kelley	Mr. Ronald Koppel	Ms. Jennifer A. Langhus
Ms. Kathleen Johnson	Mr. Adam Kelly	Ms. Geraldine S. Koppenaal	Ms. Susan W. Langton
Kim Johnson	Ms. Diane M. Kelly	Ms. Barbara L. Korasek	Ms. Constance R.
Larison W. Johnson	Mr. Stephen M. Kelly	Ms. Hilary Kordecki	Lanseigne-Case
Ms. Linda Johnson	Mr. Larry J. Kelts	Ms. Joann Kornblum	Ms. Pamela Larsen
Mr. Michael R. Johnson	Mr. Ronald J. Kemperle	Mr. Shawn Kosior	Ms. Cynthia Larson
Ms. Nancy D. Johnson	Mr. Bruce Kemperman	Mr. Michael J. Kostalik	Mr. Richard A. Larson
Ms. Susannah Johnson	Ms. Judith Kendall	Mr. Donald Kostishack	Mr. Stephen Laubach
Ms. Vivian Johnson°	Ms. Ann T. Kennedy	Dr. Bernard Kosto	Ms. Edith R. Lauderdale
Ms. Jane L. Johnston	Ms. Diana Kennen	Ms. Jill S. Kotch	Mr. Jeffrey R. Laurie
Mr. Robert E. Johnston°	Ms. Christine A. Kenneway	Mr. George J. Kotnour	Ms. Margaret A. Lavallee
Mr. and Mrs. David S. Jones°	Miss Joan D. Kenney	Hassan P. Kourouma	Ms. Kara Law
Ms. Jennifer R. Jones	Mr. Bryan Keohane	Ms. Dorothy Koval	Ms. Susan B. Law
Dr. Linda T. Jones	Ms. Carole L. Kern	Mr. Thomas J. Kozik	Mr. David A. Lawrence
Ms. Mary Jones	Ms. Sheila P. Kerr	Mr. Eugene L. Kramer	Mr. James Lawson
Ms. Nancy P. Jones	Ms. Sandra Kerwin	Ms. Nancy Kramer	Mr. and Mrs. Kevin W. Lawson°
Mr. Richard D. Jones	Mr. Kenneth J. Kessenich	Ms. Beverly A. Krassner-Bulas°	Ms. Katherine M. Leblanc
Mrs. Virginia Crowell Jones°	Ms. Victoria M. Kessler	Mr. David M. Kratz	Mr. Stanton S. Leboutitz
Ms. Lesley C. Jorgensen	Ms. Laura L. Ketchum	Mr. Leonard Kraus	Mr. and Mrs. David B. Lee
Mr. Roger Jou	Ms. Janet Kettner	Mr. and Mrs. Collin Krehbiel	Ms. Kathleen A. Lee
Mr. Josh Judson	Ms. Linda Khoury	Mr. John W. Kreider#	Lassie C. Lee
Ms. Maxine M. June	Mr. Richard Kielely	Mr. Frederick J. Kreitner°	Ms. Julia A. Leichtenberg
Mr. Paul C. Journey	Mr. Patrick Kilmartin	Ms. Leslie Kretchmar	Dr. Pepi F. Leids°
Ms. Marsha Justice	Ms. Linda Kilmer	Mr. Jay J. Krevens	Ms. Janet Leigh
Mr. Steve F. Justis	Mr. Dean F. Kimball	Ms. Elizabeth F. Kroop	Ms. Michele Lemettais
Mrs. Sheila Kaczmarek	Mr. Glen King	Dr. David Krugman	Ms. Joan Lemler°
Kelly L. Kahler	Mr. James King	Mr. Gordon M. Krusen	Mrs. Jean M. Lenard°
Ms. Heather J. Kaiser-Hahn	Jean King	Mr. Harry Kubetz°	Mr. James J. Lennon
Emil K. Kalil, Ph.D.	Ms. Juanita B. King	Mr. Donald Kucera	Mr. William L. Leonard
Mrs. Suzanne M. Kalil	Ms. Shari King	Robert Kucharski, Ph.D.°	Mr. John L. LeShane
Ms. Bonnie Kalison°	Mr. William A. King	Ms. Cheryl Kuchler	Mr. Douglas K. Leslie
Ms. Doreen Kalter	Ms. Lauren Kinghorn	Mr. William B. Kuhl	Mr. Robert Letcavage
Ms. Julie Kampersal	Ms. Linda Kinney	Ms. Marlene Kukuzke	Ms. Lauren Levine
Mr. Robert N. Kapinos	Mr. Dough Kirby	Ms. Jeanne Kulac	Ms. Marcia Levinson
Mr. Arnold Kaplin	Ms. Victoria Kireyev	Mr. Gary E. Kureczka°	Ms. Beverly A. Lewis
Ms. Doris Kapp	Ms. Lisa Kiss	Mr. John L. Kurland	Ms. Kristin Lewis
Ms. Ruth Karl	Alexis Kittner	Mr. James H. Kuypers	Ms. Constance C. Leyland
Ms. Catherine Karr	Mr. Richard T. Kiusalas	L.E.A.P. Unlimited, Inc.	Ms. Deborah Lichniak
Frank Karsmarski°	Mr. Lewis B. Klebanoff, Ph.D.	Ms. Barbara G. La Chance	Mr. David Lichtenstein
Mr. Brian D. Kashner	Mr. Eric Klein	Ms. Kim Lacey	Mr. Mark C. Lieberman
Mr. Rudolph Kass°	Leslie A. Klein	Ms. Susan H. Lacey	Mr. Michael M. Lieberman

Mr. Daniel Liftman	Mr. Oren R. Lyons°	Ms. Cathy Martocello	Mr. Lawrence F. McKeen
Ms. Henrietta P. Light	Mr. Richard F. Lyons	Ms. Eileen J. Marum°	Mrs. Mary M. Johnson-McKeon
Dr. Frances L. Lightsom#	Mr. Stephen Mable	Mr. James Marvin	Mr. David McKinley
Mr. Mark H. Likoff	Mr. William Macanka	Mr. Dennis Mascio	Mr. Jim McKliget
Ms. May L. Lim	Ms. Leeann Macdonald	Mr. James W. Masland	Ms. Genette McKnight
Mr. Ying-Tsong Lin^ and Mrs. Grace Wang^	Ms. Shirley M. MacDonald	Mr. Larry A. Masselink	Mrs. Linda M. McLaren
Li-Jen T. Lin	Mr. Brian T. MacDougall°	Dr. Carla Massey	Mr. Robert McLaughlin
Ms. Amanda Lindberg	Ms. Judith A. MacDougall	Ms. Gladys M. Maston	Mr. Sean McLernon
Mr. Zach Lindsey	Mr. John A. MacIntyre	Ms. Jenna Matthews	Ms. Claire McManus
Mr. Richard C. Lindstrom	Ms. Karen Maciulewicz	Ms. Kathy S. Matthews	Mr. Michael McMaster
Mr. Joseph Lingg	Mr. Peter T. Maclearn	Ms. Trina M. Matthews	Mrs. Isabel S. McMorro
Ms. Patricia Linnehan	Mr. Thomas E. Madden	Ms. Jane Mattson	Ms. Elanie McNally-Fitzpatrick
Ms. Irene W. Lipchus	Ms. Mary G. Maddox	Ms. Barbara E. Matula	Ms. Merrillyn S. McNary
Mr. Douglas A. Lipka	Ms. Judith Madeux	Ms. Mary L. Matuszak	Ms. Mary D. McNiff
Mr. Don Lipsitt	Ms. Phyllis Madison	Ms. Karen Matyasovsky	Ms. Alice O. McNulty
Frances Litrenta, M.D.	Ms. Kathleen C. Magnin	Terry Max	Mr. Charles B. McPherson
Mr. Peter S. Littlefield	Mr. William E. Magnum	Mr. John H. Maxner, Jr.	Ms. Jo A. McQuaide
Mr. Robert C. Litts, II	Mr. David L. Maguire°	Ms. Bonnie J. Maxwell	Ms. Cornelia McVicar
Mr. William Livingston	Mr. and Mrs. Joel Maguire	Mr. William F. May	Mr. David Medeiros
Dr. Andrea L. Llenos#°	Mr. Lawrence Maguire	Mr. John R. Mayfield	Ms. Tamiye Meehan
Mr. Gerald Lloyd	Ms. Carol W. Mahalitic	Ms. Mary E. Mayo	Mr. Anthony Mehle°
Mr. Nancy F. Lob	Mr. Stephen Mahan	Mr. Jeffrey Mazanek	Ms. Louise E. Meier
Mrs. Lisa C. Lockwood	Mr. John J. Maher°	Ms. Diane McAndrews	Ms. Anna Meliones
Mr. Donald C. Loewe	Ms. Sheryl Mahoney	Ms. Merrilynn McAtee	Mr. David Mellins
Ms. Carolyn Lohmann	Mr. Patrick J. Mahoney°	Mr. Daniel McBride	Mr. Brad Mellon
Ms. Patricia F. Lomonaco	Ms. Kerry Mahurin	Mr. Travis McCally	Maria Catalina Melo
Mr. Alan K. Long	Ms. Cassandra A. Major°	Ms. Rachel L. McCann	Mr. Benjamin Mengden
Mr. Howard W. Long	Ms. Stephanie A. Makala	Mrs. Diane McCarthy^	Mr. Phillip Mengel
Mr. James P. Long	Mr. Eugene L. Maki°	Mrs. Marianne E. McCarthy	Mr. Roy Mensch
Mr. Perri Longley	Mr. Boguslaw Malecki	Mr. Alan R. McCarty	Ms. Roberta H. Merrill
Ms. Florence B. Loomis	Mrs. Margaret M. Malkoski	Mr. James McCauley	Mr. Mario J. Messina
Mr. Jeremy L. Loomis	Ms. Sharon Mallard	Ms. Patricia McChesney	Ms. Janet Messineo-Israel
Ms. Lucia Loper	Ms. Kathy Malm	Mr. Aloyse McClellan	Mr. Howard D. Mettee
Estela Lopez	Mrs. Jennifer S. Mancinelli	Ms. Marilyn McClory	Ms. Barbara Metzger
Mr. Merrill Lord	Mr. Edward Mancuso	Ms. Nancy N. McClure	Ms. Mary J. Metzger
Ms. Pamela B. Lord	Mr. William E. Mangum	Mr. and Mrs. David K. McConnell	Ms. Perry L. Metzger
Ms. Angela Lordi	Mr. Dudley Mann	Ms. Robin C. McCormack	Mr. Harry J. Meyer
Ms. Maryellen R. Lorefice	Ms. Linda S. Manning	Mr. Charles E. McCoy	Ms. Julie Michel
Mr. Dan Lorus	Mr. George E. Mansfield	Mr. Michael McCreary	Ms. Julie M. Michurski
Ms. Ellen M. Lovins	Mrs. Elizabeth B. Marass	Mr. Gerald F. McCue°	Ms. Florence J. Middleton
Mr. George H. Lower°	Ms. Cathy Marczyk	Mr. Christopher P. Boyer and Ms. Lynne R. McDonnell	Ms. Patsy Miehi
Mr. Eric R. Lubbs	Mr. Andrew Maretzki	Mr. Edward D. McDowell	Dr. Bruce H. Migdalof
Karol Ludden	Mr. Ronald Margolis	Ms. Mary Lou McElhaney	Mrs. Susan B. Milberg
Mr. John D. Ludwig	Mr. Herb Marshall	Mr. Stephen C. McEvoy	Mr. and Mrs. John J. Millar
Mrs. Dawn R. Lull	Mr. John R. Marshall	Mr. James E. McFarlane	Mr. Samuel Millar
Mr. Paul E. Lundstrom	Mr. Ronald E. Marshall	Ms. Karen McGee	Mrs. Sandra A. Millen
Mr. Vincent J. Lutkus, Jr.	Mr. David Marstrell	Mr. Jeffrey R. McGhie	Ms. Cheryl Miller
Mrs. Sharon Lyden	Ms. Lynn Martell	Ms. Deborah McGinn	Mr. Dan Miller
Ms. Christine Lynch	Ms. Carol Martin	Ms. Clare McGorrian	Lieutenant Colonel Dennis F. Miller, (Ret.)°
Mr. Jonathan D. Lynch	Mrs. Jean A. Martin	Mr. Terrence McGuirk	Ms. Elsa Miller
Mr. Kevin Lynch	Ms. Mary A. Martin	Mr. Robert McHenry	Mr. Jacob R. Miller
Ms. Patricia A. Lynch°	Terry L. Martin	Ms. Jean E. McInnis	Mr. Jeffrey Miller
Ms. Ann L. Lynch-Oasen	Ms. Virginia F. Martin	Ms. Hanna McIntosh	Mr. Lawrence Miller
Mr. William S. Lynn	Mr. William B. Martin	Ms. Linda J. McIntosh	Ms. Peggy J. Miller
Ms. Gail M. Lyons	Martino Planning & Associates Inc.		Ms. Virginia I. Mills

Ms. Maureen A. Milner	Ms. Susan B. Moyers	Ms. Patricia A. Nigro	Ms. Janice D. Oursler
Mr. George Milochik	MPT Enterprises, LLC	Ms. Christina Niland	Mr. Ken Owen
Mrs. Barbara A. Miner	Ms. Dianne Mrak°	Ms. Julie Nolan	Mr. Ron Ozuna
Ms. Patricia J. Minor	Ms. Thelma S. Mrazek	Mrs. Maureen Nolan	Mrs. Cheryl S. Pace
Ms. Stephanie Miserlis	Mr. Walter R. Mucha	Michale A. Noll	Mrs. Donna Pacheco
Mr. Robert A. Mitchell	Mr. Marco Muda	Mr. Edmund J. Noonan	A. Paci
Ms. Mary J. Miuccio	Ms. Charlene Muellenberg	Ms. Marjorie L. Nordeen	Mrs. Susan E. Packard
Mr. Edward J. Mizrahi	Ms. Diane I. Muhr	Ms. Cheryl L. Noroian	Thomas J. Packard, M.D.
Ms. Tillie M. Mizrahi	Mr. John Muir	Mr. Robert H. Norris	Mr. Wayne Packard
Mr. Joseph E. Mockus	Ms. Lisa A. Mula°	Ms. Elisabeth L. North	Mr. Inke Paetau-Robinson
Mr. Robert Moffatt	Ms. Patricia D. Mulay	Mr. H. Clifton Northern, Jr.	Mr. Robert Paglierani
Mr. Richard L. Moffitt	Ms. Joanne Mullen	Ms. Carol A. Nortz°	Mr. William H. Painter
Mr. Ruel R. Mohnkern	Ms. Rosemarie Mullin°	Mr. Rebecca Norwood	Ms. Aditya K. Pal
Ms. Trish L. Mohr	Ms. Cynthia S. Mulvey	Ms. Joan L. Novack	Mr. Aravind Palempati
Mrs. Margaret R. Moir	Mr. Matthias J. Mulvey	Mr. Bertram S. Noyes	Ms. Kerstin M. Palomburo
Mr. Nathan Mollica	Mr. David Muraoka	Ms. Joyce Noyes	Mr. Seth Pantalony
Mr. Roger Mombourquette	Ms. Anne Murphy	Mr. Anthony C. Nunes	Mr. Chris G. Pantos
Ms. Ashley Monday	Mr. James C. Murphy	Ms. Barbara R. Nunes	Mr. Robert A. Paradiso
Mr. Kenneth Monroe	Ms. Karen Murphy	Ms. Edie Nupuf	Mr. Richard Pardi
Ms. Lynda Moody	Ms. Mary A. Murphy	Mr. William Nuzzo	Ms. Kristine Park
Kelsey Moon	Ms. Nancy Murphy	Mr. Mark Nystrom	Ms. Anna Parker
Mr. and Mrs. Peter E. Moon	Ms. Susanne Murphy	Mr. Richard Oake	Mr. Glenn Parker
Ms. Mary Moore	Mr. and Mrs. John A. Murray°	Mr. Robert A. Obst	Mr. Michael Pasley
Ms. Deborah M. Moore	Ms. Lois A. Murray	Ms. Linnea L. Ochs	Mr. David Patton
Mr. Frank Moore, II	Mr. David D. Mussina°	Mr. William M. O'Connell	Mr. and Mrs. Delbert E. Patton
Ms. Janice Moore	Mr. Thomas D. Myers	Ms. Marilyn T. O'Connor	Ms. Diane Paul
Ms. Jane Moosbrucker	Mrs. Lorraine L. Nagy	Mr. Thomas J. O'Connor°	Mr. Bob Paulding
Ms. Priscilla H. Moquin	Mr. and Mrs. Carl K. Narsasian°	Ms. Elizabeth M. O'Donnell	Mrs. Laurie A. Pavao
Mr. Manuel Morales	Mr. Carlo Natelle	Ms. Tatjana Odrljin	Mrs. Patricia S. Paxton
Mr. John M. Moran	Mr. Paul W. Neal	Mr. Michael W. Oellig	Ms. Susan Payette
Mr. Paul D. Moran	Ms. Sally Neal	O'Fallon Counseling Services	Leslie Paynter
Terrance Moran	Ms. Doris C. Neale	Celeste M. Offutt D.V.M.	Mr. James G. Pazzanese and
Mr. Joseph Moreira	Ms. Judy Neeley	Ms. Diane Ohanian	Ms. Kate Grimes
Mrs. Nancy C. Moreland	Ms. Janet L. Nees	Mr. Floyd Okada, M.D.	Mr. Bruce E. Peacock
Mr. Barrett Morgan*	Chris Neff	Mr. Jonathan O'Keefe	Ms. Barbara Pease
Ms. Nancy Morgan	Merri Neidorff	Ms. Molly O'Keefe	Ms. Janet Pedersen
Mr. John A. Moriarty	Ms. Elaine M. Nelson	Mr. Mark R. Olbris	Ms. Christine Pelham
Mr. Teruo Morishige	Ms. Kristian Nelson	Mr. Ed Oliver	Mr. Edward R. Pellegr, Jr.
Ms. Dawnn S. Morken	Mr. Neil C. Nelson	Mr. James B. Olsen°	Mr. and Mrs. Mark D. Pelloth
Ms. Barbara Morland	Ms. Sarah Neroni	Ms. Pamela M. Olsen	Ms. Signa Pendegraft
Hollis B. Morris	Ms. Norma L. Nessier	Charles* and Brenda* Olson	Ms. Barbara Penn
Ms. Karen Morris	Mrs. Catherine Nettsheim	Ms. Jane I. Olson	Ms. Yvonne Penzakov
Mr. Larry Morris	Ms. Kendra Neville	Mr. Richard E. Olson	Mr. John F. Pereira
Mr. Walter F. Morris	Mr. Darien S. Newlander	Ms. Christine M. O'Neill	Mr. Stephen G. Peremes
Mr. Jeffrey S. Morrison°	Mr. Elliot Newman	Mr. John O'Neill	Mr. Theodore Perez
Mrs. Judith A. Morrison	Mr. George L. Newsome	Mrs. Vilma R. O'Neill	Ms. Allison Perkel
Ms. Linda Morrison	Mr. Charles T. Nichols°	Ms. Penny Ordway	Mr. Charles A. Perkins
Ms. Martha L. Morrison	Ms. Janice E. Nichols	Ms. Loriann Orlando	Ms. Rebecca Perkins
Ms. Priscilla A. Morrison	Ms. Margaret J. Nichols	Mr. John E. Oroke	Mr. Evelyn B. Perlman
Mr. Daniel J. Morrissey	Mr. Peter Nichols	Ms. Maureen Orourke	Eli Perrone
Mr. James W. Morrissey°	Mr. Phillip J. Nichols	Ms. Jean R. Orsini°	Ms. Isobel Perry
Mr. Eugene H. Morrow, Jr.	Ms. Kathleen C. Nicolas	Ms. Laura Osteen	Mr. Joe Perry
Mr. and Mrs. Harold S. Morrow	Mr. Maurice B. Nieland	Mr. James Ostheimer	Mr. John G. Pescaia°
Ms. Sara Jane Moss	Ms. Carolyn Nielson	Mr. Michael A. O'Sullivan	Kent Peterson and
Ms. Paula X. Mossaides	Ms. Nancy S. Nies	Mrs. Judi Oswald	Loeta Rogers
Mr. Gene A. Moulton	Ms. Janet Niewald	Mr. Dane Ouellette	Mr. Lois Peterson

Mrs. Kristin Peterson-Ishaq	Mr. Walter Powers	Mr. C.D. Prescott Reynard	Mr. James Rogowski
Mr. Robert E. Petrucci	Mr. Jonathan Pranitis	Ms. Diana L. Reynolds	Ms. Margaret Roland
Mr. Jeffrey P. Petrucelly	Ms. Gail A. Pratt	Ms. Georganne S. Reynolds	Ms. Katharine P. Rolfe
Ms. Joann E. Pettersen	Ms. Judith Pratt	Mr. James F. Reynolds	Mrs. Kathy L. Rollison
Mr. Albert R. Pettingill	Ms. Sylvia L. Press	Mr. Matthew R. Reynolds	Mr. Joseph P. Romeo
Mr. James Petty	Mr. Melvin Preuss	Mr. Kenneth E. Rhodes	Mr. Edward P. Rosado
Dr. Bernhard	Ms. Margaret P. Price	Ms. Carol E. Riccio	Mr. F. P. Rose
Peucker-Ehrenbrink^°	Mr. David M. Prichard	Mr. John Rice	Mr. Jay D. Rose and
Ms. Catherine M. Phelan	Mr. Jeffrey A. Pride	Ms. Judy Rice	Ms. Melanie Malherbe
Mr. Daniel Phelan, II	Mrs. Anita H. Prince	Ms. Maxine M. Rice	Mr. Dennis R. Rosenberg
Ms. Patricia C. Phillips°	Ms. Doris A. Proctor	Mrs. Corinne Rich	Mr. Gregory Rosenblatt
Mrs. Jeanne L. Philo	Ms. Dorothy A. Proctor	Mr. Richard M. Richards	Mr. Mark Rosenstein
Mr. Philip A. Piccola	Ms. Barbara E. Procum°	Ms. Sarah L. Richards	Mr. Robert H. Ross
Mrs. Mary F. Pickering	Ms. Elizabeth Proffitt	Mr. David Richardson	Ms. Patricia Rothermel
Ms. Roxana Pickering	Kyle D. Pruett, M.D.	Ms. Dawn Richardson	Ms. Mary A. Rothman
Mrs. Bertha Piekarewicz	Ms. Emily Pruyn	Mr. Donald W. Richardson°	Mr. Seymour Rothstein
Mr. Adam Pierce	Ms. Sally J. Pullen	Mr. Herbert Richardson	Ms. Lindsay Rotter
Ms. Rhonda Pierce	Ms. Elisabeth H. Putnam	Ms. Susan L. Richman	Mrs. Linda E. Rowe
Mr. Richard Piersol	Ms. Adelaide Queeney	Mr. Christian P. Ridley°	Mr. Peter N. Rowe
Ms. Kathryn N. Pigford	Quikpoint Inc.	Ms. Fern Ridley	RT Solutions Inc.
Ms. Victoria Pike	Mr. Edward W. Quill	Mr. Ted Riegel	Eric J. Ruby, M.D.
Mr. Thomas Pilitz	Ms. Sharon M. Rabesa	Mr. Robert Riemer	Mr. Roger A. Ruddick
Mr. Winslow S. Pillsbury°	Mr. Robert W. Race	Mr. Richard Riggs	Ms. Janice C. Rudolf
Dr. and Mrs. Paul Pin	Ms. Sonia Ragir	Mr. and Mrs. Roger S. Riggs	Mr. Richard Ruest
Ms. Marcia A. Pincus	Ms. Susan Raisbeck°	Ms. Carmela M. Rigoli	Ms. Marie P. Rule
Ms. Karen Pipkin^	Mr. Arthur Raisfeld	Mrs. Sandrine Riley	Mr. Keith B. Runion
Ms. Linda Pirolli	Ms. Ellen J. Raleigh	Mrs. Pamela E. Rinaldi	Mr. Gordon S. Russell
Mr. Theodore K. Pisciotta	M. P. Rancourt	Ms. Analuisa Rinconne	Mr. Irwin R. Russell, Jr.
Mr. Theodore Pitas	Mr. Michael Randall	Mr. Larry D. Ripley°	Claire and John J. Russell
Mr. Anthony Pitone	Mrs. Christine Randolph°	Mr. Arthur J. Ristino	Ms. Marcia L. Russell
Mr. Joseph Plandowski	Mr. Mark Ransome	Ms. Kara Ritchie	Mr. Robert J. Russo
Mr. Robert Platner	Dr.^ and Mrs. Mark A. Rapo°	Mrs. Anne F. Rittenhouse	Mr. Stuart W. Rutledge
Mr. Stephen Platte	Ms. Ann M. Raterman	Ms. Sheila A. Rivenburg	Commander Ronald E. Ruys
Ms. Susan Pleadwell	Mr. Lou Ratte	Dr. Bill Rivers D.V.M.	USN (Ret.)
Ms. Elise J. Plocharczyk	Mr. Thomas Rauch	Mr. Kevin M. Robb	RV & Sons Builders LLC
Ms. Maria W. Plonczynski	Mr. Alan Raymond	Mrs. Alice S. Robbins	Ms. Lisa Ryan°
Carmen V. Pollack	Ms. Deborah A. Reale	Ms. Colleen H. Robbins	Mr. Michael J. Ryan
Mr. David W. Pollock	Ms. Bridget Rebillard	Mr. Daniel K. Roberts	Mr. Richard A. Rys
Mr. Donald Polonis°	Ms. Lois Reckitt	Ms. Jacqueline Roberts	Mrs. Gladys R. Rysman
Ms. Jane Pontius	Ms. Patricia M. Reddy	Ms. Kathleen Roberts	Mr. Stuart Sabol
Ms. Carole A. Ponto	Mr. Graham M. Redinger	Dr. Kathy Robie-suh	Mr. Brian L. Salem°
Ms. Melinda L. Poole	Kim Redmond	Mr. Benjamin Robinson	Ms. Sue Salesky
Mr. Stephen E. Poole	Mr. David L. Reed	Mr. and Mrs. Don R. Robinson°	Mr. Samuel S. Saltonstall
Mrs. Karen B. Pooley	Mr. Keven Reed	Ms. Mary E. Robinson	Mr. and Mrs. William G.
Mr. Joseph Porcaro	Mrs. Ingeborg M. Reichenbach	Ms. Murray Robinson	Saltonstall, Jr.
Ms. Christine Porrello	Ms. Mary Beth Reilly	Ms. Elaine B. Roche	Mr. Lee S. Saltzberg
Mr. Paul Port	Ms. Nancy J. Reiss°	Ms. Mary R. Roche	Ms. Ruth F. Samuels
Mr. Ross W. Porter	Jeryl Reitzel	Mr. and Mrs. Glenn W. Rock	Mr. Don Samuelson
Mr. William H. Porter, Jr.°	Mr. David G. Remington	Ms. Sharon Rodgers	Mr. Scott D. Sanicki
Ms. Regina Porzio	Mr. Geoffrey U. Rendell	Ms. Lori C. V. Roediger	Mrs. Rita D. Santom
Mr. Thomas Potavin	Ms. Helen I. Renegar°	Mr. Marc Roelke°	Ms. Sara Santoro
Ms. Harriet Potter	Mr. Joseph P. Renna	Mr. Karl Roenke	Mr. Gerald H. Santos
Mr. Leonard L. Potter	Ms. Ruth A. Reppeto°	Mrs. Lori L. Roeper	Ms. Marie E. Santry
Mr. and Mrs. Stephen R. Potter	Ms. Susan Resnick	Mr. Dennis M. Rogers	Mr. Robert L. Sarvis
Ms. Karen Pounds	Ms. Susan Retz	Mrs. Lynn S. Rogers	Mr. David Sattely
Dr. Jeffrey D. Powell, M.D.	Mr. Jay Revell	Mr. Paul K. Rogers, III	Mr. James Sauer

Mr. Christopher R. Saunders	Mr. Thomas D. Sepe	Ms. Edith Sisson	Mrs. Beverly G. Spares
Ms. Judith M. Saunders	Mr. Bryan Settelen	Mr. Philip Sittnick	Mrs. Annamarie F. Sparks
Mrs. Karen B. Savarese	Mr. Philip J. Sevigny°	Mr. Thomas S. Skees	Luise Speakman
Ms. Janis Saylor°	Mr. William H. Sewell, II	Ms. Joan B. Skeffington	Ms. Nancy S. Spears
Mr. Joseph B. Scalata	Ms. Susan E. Shabica	Mr. Michael Stenz and Mrs. Eva Skibild	Ms. Aliceann Speicher
Mrs. April J. Scarlett	Mr. Steven Shalno	Mr. John J. Skiffington	Ms. Patricia R. Spencer
Ms. Ann Leonesio-Scerbo	Ms. Maribeth Shanley	Mr. Joseph J. Skolnik	Mark C. Spiers, D.M.D.
Mr. Richard E. Schaefer	Mr. Edward J. Shannahan	Ms. Michelle Skowron	Shawn J. Spinney
Richardson Schell	Mr. Charles Shapiro	Mr. Leo Slaggie	Mr. Clifford Spohr°
Mr. Donald F. Schemack	Mr. Ere M. Sharp°	Mr. Wesley Slate, Jr.	Charlotte Stafford
Donald H. Scherling, M.D.	Mr. John J. Shaughnessy, Sr.	Mrs. Elizabeth A. Slaughter	Mr. Gary F. Stanley
Ms. Claire M. Schilling	Ms. Beth A. Shaw	Dr. Robert F. Slifkin	Ms. Linda Stantial
Ms. Phyllis Schlemmer	Mr. Henry Shea	Mr. Edward F. Slinski	Mr. John A. Stanton, Jr.
Mr. Robert Schley	Mr. Kevin J. Shea	Ms. Patricia Sliwkoski	Mrs. Frederic A. Stanwood, Jr.°
Mr. Joseph Schmeltz	Mr. Leo S. Shea	Nesya Sloane	Ms. Victoria R. Starczak^ and Dr. James R. Weinberg
Ms. Mary Kay Schmidt	Mr. James Sheehan	Mr. James Slock	State Of Wisconsin
Mr. Patrick J. Schmitz	Ms. Carolyn J. Sheild°	Ms. Melinda Y. Small	Mr. Christian Stauber
Ms. Mary C. Schoenkecht	Mr. Roger A. Shell	Mr. Al Smith	Ms. Linda L. Stavola
Ms. Susan Schoenung	Mr. Henry C. Shelley	Ms. Barbara T. Smith	Mr. John R. Stearns
Algonquin Regional High School	Ms. Daphne Shen	Ms. Diane N. Smith	Ms. Pamela Steckler
Ms. Dorothy J. Schooley	Mr. Robert Lloyd J. Shepherd°	Mr. and Mrs. Dok B. Smith	Ms. Carol Stedenfeld
Mr. David B. Schott	Ms. Melinda Sherbs	Ms. Elaine L. Smith	Ms. Shannon G. Steele
Mr. Stephen Schram	Mr. Kevin Sheridan	Mr. Frederick B. Smith	Mr. Bill Stefanech
Mrs. Mary E. Schreiber	Ms. Margaret A. Sheridan	Mr. J. Bailey Smith	Burma R. Stelmak
Kelsey M. Schroeder	Mr. Arthur Sherman	Mr. John E. Smith, Jr.	Ms. Janet M. Stephens
Ms. Verna H. Schubert	Ms. Leah F. Sherman	Ms. Katrina Smith	Ms. Mary G. Stephenson
Mr. Arthur Schuff	Ms. Sylvia Sherman	Ms. Leslee K. Smith	Mr. and Mrs. Jerome S. Stern
Mr. David T. Schuh	Mr. Thomas J. Shetka	Ms. Lynn A. Smith	Meiera Stern
Ms. Barbara L. Schuldt	Mr. Thomas D. Shipp°	Mr. Melvin L. Smith	Ms. Betty J. Stevens
Madeline Schulenklopper	Ms. Theresa I. Shireman	Ms. Rachel Smith	Mr. Charles R. Stevens
Mr. Jake Schultz	Mr. and Mrs. Daniel C. Shively	Mrs. Susan H. Smith	Mr. Darrell Stevens
Mr. Ron Schultz	Mr. Norman E. Shore	Toni Smith	Mrs. Maxine P. Stevens
Mr. Richard D. Schulze	Mr. Stefan P. Shoup	Ms. Velda Smith	Mr. James Stevenson
Dr. Jean B. Schumaker	Carol Shreder	Ms. Carole E. Smudin°	Kerry Stevenson
Mr. Rodney L. Schumann	Mr. Adam L. Shrier	Mr. Jefferson D. Smythe	Mr. Jack Steward
Dr. Alan G. Schwartz	Ms. Alice Shull	Mr. David Snodgrass	Mr. Carl M. Stewart
Joel Schwartz	Tracy Siani	Mr. Charles Snow	Mr. Reed F. Stewart
Mr. Sam Schwartz	Mr. David W. Sibor, Jr.	Mr. Robert M. Snow	Ms. Suzanne H. Stewart
Ms. Karen Scott	Mr. Jim Sidorchuk	Mr. Mark H. Snyder	Ms. Karen Stickle
Ms. Melissa T. Scott	Ms. Judy Siegfried	Ms. Patricia Snyder	Mr. Robert R. Stidwell°
Mr. Peter Scott	Ms. Ann Sies	Mr. Charles W. Soderstrom	Dr. John Still
Mr. Robert D. Scott	Mr. John E. Sill	Ms. Jo M. Solet	Mr. Gene H. Stinchcomb
Tracy V. Scott	Mr. Eugenio P. Silva°	Ms. Maryellen Solomon-Ager	Mrs. Rebecca A. Stock
Ms. Michelle Scripoch	Mr. Stephen L. Silva	Ms. Kristine Soly°	Mrs. Margaret Stockman
Mrs. Claire S. Scully	Mr. Nathan M. Silverstein	Ms. Patricia Somerset	Ms. Molly Stone
Ms. Ingeborg V. Seaboyer	Mr. Steven Silverstein	Mr. John S. Sonin	Mr. David Stonehill
Mr. Jonathan Seals	Mr. Henry Simard	Kazuhiro Sonoda	Ms. Dorothy Stracher
Mr. Robert C. Seamans, III	Ms. Christine Simpson	Ms. Cynthia I. Sorensen	Mrs. Audrey Straight
Mr. Richard Secrist°	Ms. Georgia A. Simpson	Ms. Dale Sostad	Mr. Robert Strange
Ms. Maria A. Sedotti	Ms. Lucille C. Sims	Mr. James Souders	Ms. Beverly L. Stravers
Mr. Thomas Seguin	Ms. Gayle Simundza°	Mr. Franklin Soultz	Ms. Mary V. Stempel
Mr. Eric W. Seidler°	Ms. Iris L. Sindelar	Mr. Roger D. Southworth	Ms. Linda H. Stretch
Dr. Robert C. Seidler°	Ms. Charlotte W. Singer	Mr. James B. Spalding, Jr.	James Strieby°
Ms. Jane Seilitz	Mr. Ronald G. Singerman	Ms. Cynthia Sparacino	Dr. Jack L. Strominger
Ms. Julie E. Semp	Ms. Patricia R. Sinnott°	Ms. Karen Sparaco	Mrs. Carol Strougo
	Ms. Donna M. Sisak		

Mr. David A. Stuntz	Ms. Elizabeth H. Theofan	Mrs. Barbara J. Trostenson	Mr. Albert Vingoe
Mr. and Mrs. Kenneth L. Sullivan	Ms. Diane S. Thomas	Ms. Michelle Trotta	Peeranut Visetsuth
Ms. Diane Summerhill	Mrs. David Thompson	Mr. Steven Trow	Ms. Maria F. Vitagliano
Ms. Autumn Summers	Mr. Edmond F. Thompson	Mr. Dwight D. Trueblood	Ms. Lilliana Vitelli
Mrs. Shirley L. Suntken	Ms. Elizabeth J. Thompson	Mr. Keith L. Truesdale	Mr. Frank A. Vizcarra
Ms. Lorita A. Sutton	Mr. Gary Thompson	Ms. Pamela Truesdale and Mr. James Vieira°	Mr. Christopher von Keyserling
Simone Swan	Ms. Jennifer Thompson	Mrs. Jane M. Trunkey	Mr. John S. Vounatso
Ms. Roberta Swanson	Mr. Stephen R. Thompson	Tracy Tufillaro	Mr. John B. Wagner
Mr. George H. Swartz	Mr. Mark Thornberry	Mr. and Mrs. Stephen A. Turner°	Ms. Sarah Q. Wagner
Jil M. Swearingen	Mr. Robert Thornburg	Ms. Patricia A. Turney	Mrs. Karen P. Wakefield
Mr. Sean Sweeney	Mr. John L. Thorndike	Ms. Martha Twigg	Mr. Robert Waldman
Mr. Judith P. Sweeney	Mr. Christopher Thorne	Pat C. Tyron	Mr. Stephen P. Walker
Mr. Carl R. Swenson	Ms. Beverly Thornton°	Ms. Ethel Tzizik°	Ms. Susan J. Walker
Mr. David A. Swink	Mr. William Thorpe	Mr. James Ubich	Ms. Sheila Wallace
Ms. Lenore C. Sylvan	Ms. Enid Thuermer°	Mr. Antone S. Ujhelyi	Mr. Stephen A. Wallace
Ms. Anne M. Sylvia	Mr. Christopher Thuesen	Volker and Mary Ulbrich°	Ms. Annellen M. Walsh
Mr. Bart Szafnicki	Mr. Marc Thur	Ms. Diane Ullman	Ms. Carolyn Walsh
Ms. Victoria Szatalowicz	Ms. Linda B. Thurber	Ms. Beth Ullom	Ms. Cornelia D. Walsh
Ms. Irene J. Szeliga	Tracey Thurston	Ms. Janet Underhill	Ms. Rose Walsh
Ms. Marleen Szymanski	Dana B. Tiberi	Ms. Sandra Underhill	Ms. Sandra Walters
Mr. Haris Tabakovic	Mr.^ and Mrs. Ronald L. Timm, II°	Ms. Susan L. Unger	Mr. Michael S. Walton
Mr. Linton E. Taber°	Ms. Catherine Timothy	Ms. Gina Urbani Lynch	Mr. Paul Waltz
Ms. Kathy Taber-Post	Mrs. Thelma A. Tisdale	Ms. Mary D. Uva	Ms. Chandra E. Walz
Amir Tadayon	Mr. Thomas W. Titsworth	Mr. Fred P. Vaintzettel	Mr. Juan Wang
Mr. Sherman Taishoff	Ms. Roberta B. Todd	Ms. Teresita G. Valadez	Mr. Paul Ward
Mr. and Mrs. Alan C. Tang	Mrs. Cynthia B. Tokarczuk	Ms. April Valentine	Mrs. Susan S. Ward
Dr. Nathaniel Tarn°	Ms. Cynthia Tolbert	Ms. Gloria Vanbibber	Ms. Deborah N. Warren
Mr. Hannes Tarnay	Mr. David J. Tollefson	Ms. Dorothy Vance-Booth	Ms. Kristin Wartell
Mrs. Sandra L. Tasker	Ms. Kayce A. Tomcho	Ms. Marjorie Van Cleef	Ms. April Warwick
Ms. Josephine H. Tate	Mr. Michael Tong	Ms. Victoria A. Vandembord	Mrs. George B. Wasserman°
Mr. Susan D. Tatelman	Mr. Thomas J. Toomey	Vanderbilt's Wharf LTD	Ms. Christine M. Waters
Ms. Jennifer Taub	Mr. Clyde P. Topping	Mr. Eric Vanheukelom	Ms. Lynne Watson
Ms. Amy Taubert	Mr. Paul Toussaint	Mrs. Cindy L. Vannier°	Ms. Wendy P. Watson
Ms. Colleen A. Taylor°	Mr. and Mrs. John T. Townsend	Mr. Daniel H. Van Winkle	Mr. William E. Watts
Ms. Ellen R. Taylor	Mrs. Patricia E. True	Ms. Denise A. Varca	Ms. Diana K. Weatherby
Mr. Marc S. Taylor°	Mr. Daniel Tracey	Mr. Murat Varinli	Mr. Scott C. Weaver
Ms. Tracy J. Taylor	Ms. Virginia Tracy	Mr. Joseph E. Varisco	Donna E. Webber
Mr. Richard E. Tedoldi	Mr. Scott R. Trainor	Ms. Rachael Vassalotti	Mr. Ted Weber
Ms. Kelly Teets	Ms. Veronica E. Trammell°	Ms. Amy J. Vaughn	Mr. Thomas N. Weber°
Ms. Cynthia Tefft	Mr. Thomas Tran	Ms. Stephanie A. Velez	Mr. Arthur E. Webster
Patrick TenHooen	Mrs. Marion Tratnyek	Mr. Carl Veltri	Ms. Katharine K. Webster
Ms. Alison Terjesen	Mr. David M. Trautman	Mrs. Suzanne J. Veltri	Mr. Thomas Webster
Mr. John B. Tessicini	Mr. Jack W. Travis	Ms. Lisa A. Ventre	Mrs. Nancy Y. Wechsler
Mr. William G. Tester	Mr. Paul A. Travis	Mr. Carl A. Ventrice, Jr.	Dr. Robert A. Weeks
Ms. Dale Thackeray	Ms. Roberta Trefts	Mr. Richard K. Vesely	Tara Wegener
Ms. Pamela Thallner°	Ms. Geraldine A. Tricarico	Richard G. Viagrande, D.M.D.	Ms. Dian K. Wehrle
The Natural Connection	Mr. Bruce W. Tripp°	Ms. Carol A. Vifquain	Mr. and Mrs. William Weil°
Mr. Jack Theo	Ms. Pamela G. Tripp	Reverend Ginny M. Vigrass	Mr. Alan Weinberg
	Ms. Susan L. Tripp		Mrs. Elizabeth P. Weinstein

Ms. Alison Weinstock	Mrs. Rose T. Wilkins	Mr. Justin Wolf	Florette Yen
Ms. Naomi M. Weisman	Mr. Thomas A. Wilkins	Ms. Betty L. Wolfe	Mr. Yuen-Ming David Yih
Ms. Estelle Weiss	Mr. Harold A. Wilkinson	Mr. Vaughn B. Wolford	Mr. J. Byard Yoder
Ms. Judy Weiss	Jayne Wilkinson	Mr. Scott E. Wolpert	Mr. Alan Young
Mr. Roy Weiss	Ms. Jean Willard	Mrs. Laura Wong	Mr. Chester E. Young
Ms. Beth A. Wellnitz°	Mr. Philip D. Willett	Ms. Charlene L. Wood	Mr. Craig C. Young
Ms. Barbara Wells	Ms. Alicia R. Williams	Ms. Martha C. Wood	Mr. Demos Young
Ms. Diane J. Welter	Ms. Barbara P. Williams	Ms. Jennifer Woodman	Mr. Geoffrey W. Young
Mr. Erik Wennberg	Ms. Barbara R. Williams	Ms. Whitney W. Woodmansee	Ms. Jane G. Young
Mr. Denise Wernikoff	Mr. Chris Williams	Mr. Jeff Woodruff	Ms. Janet A. Young°
Mr. Thomas J. Wertheimer	Mr. James Williams	Alexis Woods	Ms. Jeanette Young
Mrs. Bette A. West	Mr. John T. Williams	Mr. and Mrs. Donald Woods	Dr.† and Mrs. Robert A. Young
Ms. Leslie D. West	Ms. Mary J. Williams	Ms. Dorothy B. Woods	Mr. Stephen Yozell
Ms. Carolyn E. Westerfield	Mr. Peter J. Williams	Ms. Ann E. Woodward	Ms. Patricia Yukna
Mr. Robert S. Wetmore	Mr. and Mrs. William Williams	Mr. Ralph F. Woodward, Jr.	Ms. Margaret E. Zablotny
Mr. Paul M. Wexelblat	Mr.† and Mrs. William J. Williams	Mr. Bruce M. Woodworth	Mrs. Muriel Zaginailoff
Ms. Lois D. Whealey		Working Earth Organic Gardening & Landscaping, Inc.	Ms. Rose-Marie Zaharek
Herbert Whitaker	Ms. Jeanne S. Willis	Ms. Dorothy Workman	Mr. Peter Zakrewski
Ms. Elizabeth M. Whitcomb	Mr. Jan-Olaf Willums	Ms. Sandra L. Wozny	Mr. Charles W. Zantor
Mr. David N. White	Dr.† and Mrs. Christopher J. Willy USN (Ret.)°	Mr. Norman Wright	Ms. Beverly K. Zapalac
Mr. George A. White, Jr.	Mrs. Carol A. Wilson	Ms. Christina Wu	Chris Zappala
Mr. James D. White	Ms. Janice Wilson	Yuying Wu and QianHui Liang	Ms. Amanda Zarle
Mr. Ronald A. White°	Ms. Priscilla Wilson	Ms. Joanne Wuschke	Mr. William Zdon
Mr. Ronald E. White	Mr. Steve R. Wilson°	Mrs. Lucinda V. Wykle-Rosenberg	Ms. Elsie Zeese
Ms. Patty A. Whitecotton	Mr. Robert Wilsterman	Ms. Marjorie M. Wylde	Ms. Claudia Zeien
Mr. Larry Whitman	Ms. Pamela Winston°	Mr. Byron F. T. Wynn, III	Mr. Paul Zengara
Ms. Grace Whitmer	Mr. Matthew A. Winter	Mr. Michael Yager	Ms. Leann M. Zeoli
Mr. Jeffrey B. Whitmore	Ms. Katharine Winthrop	Mr. Paul A. Yamamoto	Dr. Shuguang Zhang and Mrs. Dorothy R. Langsley
Mr. Mark Whitney	Ms. Martha Winzler	Hassie Yankelovich	Mr. Louis C. Zicht°
Mr. and Mrs. Peyton T. Whitney°	Ms. Margaret Witham	Ms. Jane Yankocy°	Mr. Max Zimmerman
Mr. David O. Whittemore°	Mr. Jeffrey Witherell	Mrs. Donna M. Yargeau	Ms. Patricia K. Zingheim
Mr. and Mrs. Justin Wickens°	Ms. Paige Wittig	Mr. Douglas Yarnall	Mr. John A. Zinkowski°
Ms. Karen L. Widing	Ms. Margot Wizansky	Mitsuru Yasuhara	Mrs. Ronit Ziv-Kreger
Mr. David Wiesner	Ms. Patricia Wojceiszak	Ms. Barbara Yellin	Ms. Deana M. Zosky
Mr. Douglas Wight	Mr. Frank H. Wojciechowski		Mr. Wilfred H. Zurbrugg
Mr. Harvey L. Williams, III°	Mr. John S. Wojcik		
Mr. Richard Wilkins			

MATCHING GIFT COMPANIES

Aetna Foundation, Inc.	ExxonMobil Foundation	The David and Lucile Packard Foundation	Union Pacific Railroad Company
Allegro MicroSystems, LLC	Grayce B. Kerr Fund, Inc.	Raytheon Company	
Bank of America	IBM Corporation	Salesforce.org	
The Boeing Company Gift Match Program	The John D. and Catherine T. MacArthur Foundation	State Street Foundation	
Colgate-Palmolive Company	Millennium Matching Gifts	Stone Point Capital	

BOOKS AND JOURNALS

Brook Aldrich	Nancy Moulton Elliott
Alexander Byron	Patrick J. Flaherty

HONOR GIFTS

In Honor of Scott and

Sharon Alemany

Mr. Jeffrey Metheny

In Honor of Madison E. Ayers

Mr. Stephen Barker

In Honor of Neil Baleva

Mr. Barry Lyon

In Honor of Andrew Barnard

Mr. Barry Lyon

In Honor of Rachel

Blaszakowsky

Ms. Holly de la Chapelle

In Honor of Alex Boston

Ms. Kristy Pegram

In Honor of Sumner Brooks

Ms. Sarah D. Reeves

In Honor of Andrea Burke

Network For Good

In Honor of Megan M. Carroll

Mr. and Mrs. Robert S.

Bruguere

In Honor of Riva Chatterjee

Ms. Ida Amir

Ms. Aleta Forcione

Meiera Stern

Mr. Juan Wang

In Honor of Arthur D. Colburn

Ms. Susan Colburn Nevler

and Mr. Stephen K. Gattis

In Honor of Charlie C. Crowley

Ms. Nancy Crowley

In Honor of Stephen and Jama

Cucchiaro

Ms. Elizabeth Ciarci

In Honor of Sara G. Dent

Mr. John Biglow

Ms. Helen Hunt

Ms. Pamela K. McClelland

Mr. John Reichenbach

In Honor of Tansy Diaz

Mr. Barry Lyon

In Honor of Ellen P. Donaldson

Mr. and Mrs. Bernie Cain

In Honor of Sally C. Dowd

Mr. W. F. Dowd, IV

In Honor of Robert C.

Ducommun

Dr. and Mrs. Robert F.

Tranbaugh

In Honor of Robert Ducommun

Mr. and Mrs. John T. Colas

In Honor of Rob Ellison

Mr. Barry Lyon

In Honor of Rocker/

Paci Family

Ms. Laura Rocker

In Honor of Carl Fink

Ms. Lauren Levine

In Honor of Ella Gatfield

Mr. William Baldwin

In Honor of Clint LaVigne &

Will Graham

Rugie Holland

Mr. Ronald Imada

Mr. Aaron Kaplan

Ms. Jenny Klein

Ms. Kate Lehrer

Mr. Alexandra Maggioni

Ms. Barbara Mayers

Ms. Kathleen McCaffrey

Mr. Hans Verstegen

In Honor of Caryn Hanan

Mr. Barry Lyon

In Honor of Steven G. Hoch

FJC

In Honor of Genevieve Howell

Mr. Barry Lyon

In Honor of Susan E.

Humphris

Ms. Carolyn J. Sheild

In Honor of J. B. John

Mr. Joseph R. John, III

In Honor of Jochen Klinke

Mr. Barry Lyon

In Honor of Elizabeth

Leatherman

Ms. Carlota H. Holton

In Honor of Gary Lennon

Ms. Hanna McIntosh

In Honor of Weil, Gotshal &

Manges LLP

Ms. Emily Bales

Ms. Donna Huskins

In Honor of Emiley Z. Lockhart

Ms. Marilyn J. Lockhart

In Honor of Victoria H. Lowell

Ms. Elizabeth Foss

In Honor of Alison M.

Macdonald

Ms. Sally Cedarholm

In Honor of Robert R. Marshak

Ms. Andrea Landsberg

In Honor of David R. Martinez

Mr. and Mrs. David R.

Martinez

In Honor of Sharon McCarthy

Ms. Maureen McCarthy

In Honor of Nathaniel C. Miller

Ms. Maryethel Miller

In Honor of Thomas Mitchell

Mr. Barry Lyon

In Honor of Michael J. Moore

Ms. Lisa Burke

Mr. Larry Morris

In Honor of Jeffrey and

Jacqui Morby

Mrs. Dorothy Beckwith

Mr. Joseph L. Bower

Mr. S. R. Brand

Mr. and Mrs. Paul R. Bridges

Cox Family Fund

Elan Enterprise Inc.

Sheila R. Fine 2001

Revocable Trust

The Hajim Family Foundation

Dr. Jean A. Hattler

Ivan Bereznicki

Associates, Inc.

Dr. Rosabeth M. Kanter

Dr. and Mrs. Glenn Larsen

Lazo Charitable Fund

Ms. Janet Markel

Ms. Caroline Maruska

Mary S Thompson Trust

Mr. and Mrs. Joe Neely

Ms. Julia W. Norman

Mr. Emery G. Olcott

Omaha Community

Foundation

David & Linda Paresky

Robert & Leah Rukeyser

Mr. and Mrs. Herbert Shear

Mr. Jamee W. Todd

Mr. Grace K. Warnecke

In Honor of Nic Morris

Ms. Katrina D. Morris

In Honor of Megan E. Munster

Ms. Deborah Munster

In Honor of Dave Murphy

Mr. Barry Lyon

In Honor of Jane B. Neumann

Grayce B. Kerr Fund, Inc.

In Honor of Nelson Pickering

Ms. Roxana Pickering

In Honor of Richard F.

Pittenger

Ms. Elizabeth Page Rogers

In Honor of Jerry Place

Ms. Heather Peters

In Honor of Myrle E. Porter

Ms. Elena Schmidt

In Honor of Robin Powell Mandjes
 Ms. Elizabeth W. Adams and
 Mr. Clifford Lasser

In Honor of Dave Samyn
 Ms. Susan Cobb

In Honor of Sophia Smith
 Mr. Aaron Attwood
 Mr. Timothy Ellis
 Ms. Rachel Smith

In Honor of Deepa Sondagar
 Mr. Barry Lyon

In Honor of Eric Stein
 Charlotte Stafford

In Honor of Jeremy Josef Stranc
 Mr. Bertram S. Noyes
 Ms. Carolyn Walsh

In Honor of Gwyneth C. Strange
 Mr. Robert Strange

In Honor of Maarten 't Hooft
 Mrs. Sara Cohen

In Honor of James Teets
 Ms. Kelly Teets

In Honor of Peter A. Traykovski
 Mrs. Catherine Traykovski

In Honor of Joseph A. Trotta
 Ms. Michelle Trotta

In Honor of Audrey Vinton
 Ms. Betsy Mack

In Honor of Thomas B. Wheeler
 Mrs. and Mr. Elizabeth C. Soule

In Honor of Mackenzie Williams
 Mr. Barry Lyon

In Honor of Jane Ylvisaker
 Ms. Carlota H. Holton

MEMORY GIFTS

In Memory of Richard D. Abrams
 Mr. James P. Rosenfield

In Memory of Dr. and Mrs. Edward Adelberg
 Mr. Jonathan B. Aibel

In Memory of Kathy Barlow
 Ms. Randi Silkman

In Memory of J. Mathis Bloodgood
 Mr. and Mrs. James Bloodgood

In Memory of James M. and Ruth P. Clark
 Dr. and Mrs. William U. Shipley

In Memory of Helen M. Desmond
 Cape Cod Apartments Residents

In Memory of Thomas J. Devine
 Ms. Linda Boothby
 Mr. and Mrs. Jacob F. Brown, II
 Ms. Lucy Bucknell
 Mrs. John W. Espy
 Mrs. Jean F. Geniesse
 Mr. and Mrs. Joseph C. Hoopes, Jr.
 Mrs. Amabel G. James
 Ms. Jane L. Johnston
 Mrs. Marilee B. Matteson
 Mrs. Anne McIlvaine
 Mr. Lawrence C. McQuade
 Mr. John P. Polodori
 Mrs. Eliot B. Stewart

In Memory of Dr. Paul Englund
 Ms. Diane McMahon-Pratt

In Memory of Richard Alan Fisher
 Ms. Elizabeth Bray
 Mr. and Mrs. Edward F. Bridgman
 Mr. Steven Craig
 Mr. John Devendorf
 Mr. Tyler Fisher
 Ms. Stephanie Harris
 Mr. David Jewell
 Ms. Karen McGee
 Ms. Anna Meliones
 Mr. and Mrs. Donald S. Miller
 Ms. Joanne Mullen

In Memory of Cameron E. Gifford
 Margaret Gifford

In Memory of John Green
 Mr. Sam Green

In Memory of William H. Greer
 Ms. Johanna Hunter

In Memory of Richard E. Hall
 Ms. Frances Almeida
 Mr. Paul Berkowitz
 Ms. Elaine Germaine
 Ms. Martha H. Izzi
 Ms. Aimee Konieczny
 Ms. Anne Malloy
 Ms. Karen McLaughlin
 Ms. Katherine O'Neill
 Ms. Yvonne Penzakov
 Ms. Judy Rice
 Mrs. Sandrine Riley
 Ms. Elaine B. Roche
 Mr. Albert Siekman
 Mr. Thomas Tran

In Memory of Harold Hestnes
 Mrs. Harold Hestnes

In Memory of Llewellya Hills
 Ms. Mary Zamore

In Memory of Lisina Hoch
 Dr. and Mrs. Robert B. Gagosian
 Mrs. Jacqueline M. Hollister

In Memory of Anna M. "Nancy" and Harold P. Hollum
 Mr. Harold P. Hollum, Jr.

In Memory of Weston "Dusty" Howland, Jr.
 Ms. Hester H. Whitcher

In Memory of James B. Hurlock
 Mr. and Mrs. Thomas J. O'Sullivan
 Vanguard Charitable

In Memory of Douglas L. Inman
 Mr. and Mrs. Winthrop Wassenar

In Memory of Dr Kurt J Isselbacher
 Ms. Nancy Bravin

In Memory of Breene M. Kerr
 Grayce B. Kerr Fund, Inc.

In Memory of Henry M. Kidder
 Mr. and Mrs. John T. Kidder

In Memory of John F. Maher
 Mrs. John F. Maher
 Records-Johnston Family Foundation, Inc.

In Memory of Joseph Manna
 Ms. Susan Depalma

In Memory of Jane Carroll McCormack
 Ms. Elizabeth Page Rogers
 Dr. and Mrs. Richard J. Tredeau

In Memory of Barbara McKeever
 Ms. Michelle Lee





In Memory of Elizabeth C.

Metcalf

Mr. Bradford Peck

In Memory of Jack Moakley

Ms. Mary McGann

In Memory of Boyd Nick

Mr. and Mrs. Frank Gunnison

In Memory of E. Bradley

Oldenburg, Jr.

Ms. Holly Kruper

Mr. Joseph Wise

In Memory of Leelu

Papayanopulos

Ms. Elsie Zeese

In Memory of Walter H.G. Paul

Ms. Natasha Paul

In Memory of Theresa S. Pinel

Ms. Kristen Connelly

Mr. John A. Moriarty

In Memory of Philip S.

Robertson

Mrs. Philip S. Robertson

In Memory of Don Smith

Mr. Ben Potsaid

In Memory of Walter A. Smith

James and Elizabeth Pickman

In Memory of Henry M.

Stommel

Mr. and Mrs. George P.

Knapp, III

Dr. Elijah Stommel and

Ms. Jasmin E. Bihler

In Memory of Jeremy J. Stranc

Ms. Sandra Kerwin

In Memory of Elijah Kent

Swift, III

Mr. John Gault

Ms. Marcia W. Hoyt

Ms. Mary Lou McElhaney

Ms. Mary Kay Schmidt

In Memory of E. Kent Swift, Jr.

and Arlette B. Swift

Peter and Jeannine Jeffrey

In Memory of David S. Thomas

Mr. John-David Thomas

In Memory of Charles W. Tidd

Mrs. Paulette S. Tidd

In Memory of John Philip

Trinkhaus

Mr. Thomas K. Edwards

In Memory of Ralph F. Vaccaro

Mr. and Mrs. Paul A. Klein

In Memory of

Margareta Veronis

Dr. and Mrs. Kenneth H. Brink

In Memory of Redwood Wright

Ms. Isobel Perry

In Memory of Ayse Yalcinkaya

Mr. and Mrs. Mete Yalcinkaya

In Memory of Tony Zocchi

Ms. Judy Baldwin

Ms. Shirley Frost

BEQUESTS *Established in 2019*

Estate of Dr. Charles M. Weiss

Estate of Mr. Louis M. Rusitzky

ENDOWED FUNDS *Established in 2019*

Deerbrook Ocean Science Acceleration Fund

Hall-Pratt Student Fellowship Fund

Laurence P. Madin Research Accelerator Fund

Shellfish aquaculture in the coastal waters of East Africa holds great potential to provide a stable, healthy source of protein as well as new economic opportunities for entire communities. In Zanzibar, Tanzania, most people live on less than two U.S. dollars per day. Collecting shellfish is a task traditionally carried out by women, and if a woman is able to build a small shellfish farming operation, she can dramatically improve economic prospects for herself and her family. (Photo by Hauke Kite-Powell © Woods Hole Oceanographic Institution)

Paul M. Fye Society Members

THE WOODS HOLE OCEANOGRAPHIC INSTITUTION IS PRIVILEGED TO RECOGNIZE MEMBERS OF THE PAUL M. FYE SOCIETY, WHICH HONORS INDIVIDUALS WHO SUPPORT THE FINANCIAL STABILITY OF THE INSTITUTION THROUGH CHARITABLE BEQUESTS AND LIFE INCOME GIFTS.

The Society is named for former Director Paul M. Fye, whose leadership and vision helped build the foundation that will support ocean science and education well into the future.

For information on gifts that provide income and tax benefits, contact Jim Flynn, Director of Major Gifts and Planned Giving, (508) 289-2018 or jfflynn@whoi.edu.

Mr. Jon E. Abrams	Mrs. Martha S. Ferguson	Geoffrey and Dorothy Jenkins	Reverend Julie F. Nelson*
Ms. Martha L. Adams	Mr. and Mrs. Jeffrey A. Fernandez	Mr. Marshall Jones	Jane Bishop Neumann
Mr.* and Mrs. Arthur Yorke Allen	Sean P. Fitzpatrick	Dr. and Mrs. Terrence M. Joyce	Mr. and Mrs. Walter P. Noonan
Mrs. Arnold B. Arons*	James A. Flynn, Jr. and Claudia C. Mosher	Mr. and Mrs. William J. Kealy	Ms. Lois M. Norcross
Dr. Susan K. and Dr.* James P. Avery	Michele S. Foster	Mr. and Mrs. Paul J. Keeler	Mr. Floyd C. Norton
Liz and Rod Berens	Mr. G. Ray Funkhouser	Mr. Thomas Keffer	Mr. and Mrs. John F. O'Brien
Joan Bok	Dr. and Mrs. Robert B. Gagosian	Dr. John E. Kelly	Mr. and Mrs. James H. Orr, Jr.
Mr. and Mrs. Edward C. Brainard, II	Mr. and Mrs. Jan T. Galkowski	Mr. and Mrs. Matthew Kerrigan	Captain Michael F. Palmieri
Dr. and Mrs. Kenneth H. Brink	Ms. Margery P. Goodale	Mr. Keith Kraus	Mr. and Mrs. B. Waring Partridge
Mrs. Jean P. Buchanan	Mr. John R. Green	Dr. and Mrs. Eric L. Kronenberg	Mr. Peter Patzig*
Ms. Ursula Burkhard	Mr. and Mrs. Hugh D. S. Greenway	Mr. George A. Kurlychek	Dr. Joseph Pedlosky
Mr. Steven Callahan and Ms. Kathleen Massamini	Peter J. Hamre M.D.*	Mr. Randall R. Lagman	Dr. and Mrs. John W. Peirce
Mr. and Mrs. William L. Carlton	Mr. and Mrs. Stanley Harlow	Dr. Mark C. Lueg	Guy and Julie Petersen
Ms. Gayle B. Causey*	Mrs. Robert D. Harrington, Jr.	Professor M. Lynne Markus	Mr. and Mrs. Carl E. Peterson
Mr. Byron A. Crampton	Mr. Gary G. Hayward	Georgette C. McConnell	Rear Admiral and Mrs. Richard F. Pittenger USN (Ret.)
Mr. and Mrs. Robert S. Cunningham, Sr.	Mr. and Mrs. John L. Heyl	Mr. and Mrs. Peter H. McCormick	Dr. Robert P. Porter
Andrew and Peggy Daly	Mrs. Lisina M. Hoch*	Mrs. Renville H. McMann	John and Lesley Reilly
Mr. Alfred T. Dengler and Ms. Leslie A. Paine	Dr. Ann L. Hollick	Mr. Denman K. McNear	Mr. Frederick B. Rentschler*
Mr. and Mrs. George E. Dick	Mrs. Jacqueline M. Hollister	Mr.* and Mrs. Frank A. Medeiros	Margaret and Dick Rhoads
Captain and Mrs. Robertson P. Dinsmore USCG (Ret.)	M. A. B. Holmes*	Mr. Newton P. S. Merrill	Dr. and Mrs. Adrian Richards
Mr. and Mrs. Harold J. Doeblor	Dr. Lilli S. Hornig*	Dr. Nancy S. Milburn	Mrs. Anne R. Robertson
	Mr. Kinnaid Howland	Mr.* and Mrs. Carleton Mitchell	Dr. David A. Ross and Edith H. Ross
	Jefferson E. Hughes, Jr.	Mr. John J. Mohr	Maureen and Joe Roxe
	Dr. and Mrs. James D. Irish	Mr. and Mrs. James E. Moltz	Commander Edward S. Ruete USN (Ret.)*
		Mr. Thomas D. Mullins	
		Ms. Mary J. Nefedov*	

Mr. Louis M. Rusitzky*
Mr. and Mrs. Albert I. Salama
Mr. and Mrs. John W. Sawyer
Mrs. John E. Sawyer*
Mr. David B. Scully and
 Ms. Lisa C. Colgate
Mr. and Mrs. John A. Scully
Dr. Cecily Cannan Selby
Mr. and Mrs. Daniel H. Shearer
Dr. and Mrs. William U. Shipley
Dr. and Mrs. Edward R.
 Sholkovitz
Mr. and Mrs. Frank Smith
Mrs. Walter A. Smith*
Dr. and Mrs. Daniel H. Stuermer
Mrs. Arlette B. Swift*
Dr. Christopher R. Tapscott and
 Susan Schultz Tapscott
Professor and Mrs. Keith S.
 Thomson
Mr. David B. Tilton
Maurice and Shirley Tripanier
Mrs. Frederica W. Valois
Mrs. Natasha van Bentum
Marjorie M. von Stade*
Mrs. Louise E. Von Damm
Dr. Ferris T. Webster
Dr. Charles M. Weiss*
Mr. F. Thomas Westcott*
Mr. and Mrs. Thomas B.
 Wheeler
Dr. Jean K. Whelan
Dr. and Mrs. Albert J.
 Williams, III
Mr. and Mrs. F. Beecher
 Wooding*
Rose Marie and
 Edmund Woollen
Dr. and Mrs. Robert A. Young
Anonymous (6)



WHOI engineer Casey Machado and WHOI deep-sea biologist Tim Shank, along with NASA's Jet Propulsion Laboratory, designed *Orpheus*—named after a mythological Greek hero who made it to the underworld and back—to plumb the farthest reaches of the ocean below 20,000 feet, an area known as the hadal zone. *Orpheus* is one of an emerging class of autonomous underwater vehicles designed to explore the ocean at these extreme depths, where bizarre creatures flourish under crushing pressure. Photo by Evan Kovacs, Marine Imaging Technologies, LLC / Courtesy of Woods Hole Oceanographic Institution

WHOI Leadership

OFFICERS OF THE BOARD

Chairman of the Board of Trustees

Mr. David B. Scully

Vice Chairman of the Board of Trustees

Mr. Jefferson E. Hughes, Jr.

Chairman of the Corporation

Mr. Steven G. Hoch

Chairman of the Life Trustees

Mr. Joseph C. Hoopes, Jr.

President and Director

Mr. Mark R. Abbott

Treasurer

Mrs. Anne C. Kronenberg

Secretary of the Corporation

Mr. Christopher C. Land

BOARD OF TRUSTEES

Dr. James A. Austin, Jr.

Mr. Robert M. Baylis

Dr. Cullen Buie

Mr. H. Lawrence Clark

Mr. James M. Clark, Jr.

Mr. Samuel R. Coleman

Dr. Alfred T. Dengler

Mrs. Sara G. Dent

Mr. Robert C. Ducommun

Mr. Michael P. Esposito, III

Mr. Lawrence K. Fish

Ms. Margaret A. Flanagan

Mrs. Michele S. Foster

The Honorable Christine H. Fox

Mr. Clinton P. Harris

Mr. Steven G. Hoch

Mr. Jefferson E. Hughes, Jr.

Mr. John R. Kreider

Mrs. Anne C. Kronenberg

Mrs. Joyce L. Moss

Mrs. Robin Powell Mandjes

Admiral John M. Richardson

Mr. James P. Rosenfield

Ms. Linda J. Sallop

Mr. D. Alec Sargent

Mr. William C. Schmidt, II

Mr. David B. Scully

Mr. Hardwick Simmons

Mr. Jonathan M. Stavis

Mr. Stephen E. Taylor

Ms. Jean C. Tempel

Mr. Thomas J. Tierney

Mr. Edward J. Tregurtha

Mr. Charles G. Ward, III

Ms. Maria Wilhelm

EX OFFICIO TRUSTEES

Dr. Mark R. Abbott

Mr. Christopher C. Land

LIFE TRUSTEES

Mr. Arthur Yorke Allen*

Mr. Rodney B. Berens

Mr. Gerald W. Blakeley, Jr.

Mrs. Joan T. Bok

Professor Lewis M. Branscomb

Mr. Coleman P. Burke

Mr. Louis W. Cabot

Dr. Rita R. Colwell

Mr. James L. Dunlap

Dr. Sylvia A. Earle

Dr. Robert A. Frosch

Mr. Robert F. Hoerle

Mr. Joseph C. Hoopes, Jr.

Mr. Robert L. James

Mr. Eric H. Jostrom

Mrs. Georgette C. McConnell

Mr. Newton P. S. Merrill

Mrs. Nancy S. Milburn

Mr. James E. Moltz

Mr. George K. Moss

Mr. Thomas D. Mullins

Ms. Nancy S. Newcomb

Mr. John F. O'Brien

Mr. Joseph F. Patton, Jr.

Mr. Carl E. Peterson

Mr. Reuben F. Richards

Mr. Joseph D. Roxe

Mr. George F. Russell, Jr.

Mr. John A. Scully

Dr. Cecily Cannan Selby

Professor Robert M. Solow

General Gordon R. Sullivan

USA (Ret.)

Mr. Maurice Tempelman

Mr. Geoffrey A. Thompson*

Mr. Thomas B. Wheeler

Mr. Edmund B. Woollen

Mr. Arthur H. Zeikel

CORPORATION MEMBERS

Mr. Osmar J. Abib Jr.

Mr. Rex D. Adams

Ms. Elizabeth W. Adams

Mr. Tawhid Ali

Mr. Eric B. Anderson

Mrs. Carol Armstrong

Mr. Peter A. Aron

Dr. Susan K. Avery

Joseph S. Barr, Jr., M.D.

Christopher T. Barrow,

CFA, CIC

Mr. Christopher R. Bayles

Dr. Barbara S. Beltz

Mr. Andy F. Bessette

Mr. Hugh B. Bolton

Mr. Todd Bourell

Mr. Edward C. Brainard, II

Dr. Michael Braun

Mr. Richard M. Burnes, Jr.

Mr. Timothy P. Burns

Mrs. Sarah J. Cavanaugh

Mr. Samuel R. Coleman

Dr. Noelle M.

Conway-Schempf

Ms. Trudy Cox

Mr. Gorham L. Cross, Jr.

Mrs. Daphne Hoch

Cunningham

Mr. Stephen M. Curry

Mr. J.H. Dow Davis

Mr. Robert A. Day, Jr.

Mr. Stephen M. D. Day

Mr. Colin Day	Ms. Laura A. Johnson	Mrs. Doris Meister	Dr. Thomas O. Stair
Rear Admiral Craig E. Dorman, USN (Ret.)	Mr. William J. Kealy	Mr. Dean Miltimore	Mr. Jonathan M. Stavis
Mr. John R. Drexel, IV	Mr. Paul J. Keeler	Mr. Walter P. Noonan	Dr. Peter J. Stein
Mr. David Ernst	Mr. Thomas Keffer	Mr. James H. Orr, Jr.	Gregory S. Stone, Ph.D.
Coburn D. Everdell, AIA	Mr. Thomas C. Kehler	Mr. B. Waring Partridge, IV	Mr. John F. Swope
Mr. Robert E. Fallon	Mr. Scott D. Krentzman	Mr. James Pickman	Dr. Christopher R. Tapscott
Dr. John W. Farrington	Mrs. Molly S. Ladd	Mr. Joseph Piscina	Professor Keith S. Thomson
Mr. Clark B. Freise	Robert W. Langdon M.D.	Rear Admiral Richard F. Pittenger USN (Ret.)	Mr. Peter F. Tobeason
Robert B. Gagosian, Ph.D.	Mrs. Timothea S. Larr	Mr. Gene H. Porter	Mr. Felix F. Twaalfhoven
Professor Richard A. Goldsby	Mrs. Elizabeth Leatherman	Mr. Robert L. Rosbe, Jr.	Mr. John H. Tyler
Ms. Sherri W. Goodman	Mr. Charlie E. Leonard IV	Dr. David A. Ross	Mrs. Emily V. Wade
Mr. Hugh D. S. Greenway	Mr. Paul H. Levine	Mr. William A. Rugh	Mr. Peter K. Wallace
Mrs. Ann T. Hale	Dr. Marlon R. Lewis	Mr. James A. Rullo	Mr. John P. Waterman
Mrs. Clare J. Harrington	Ms. Crea S. Lintilhac	George P. Sakellaris, PE	Dr. Peter H. Wiebe
Mr. John L. Heyl	Ms. Susan C. Livingston	Mrs. Anya C. Salama	Ms. Sunita L. Williams
Mr. Steven G. Hoch	Mrs. Emiley Z. Lockhart	Mr. John W. Sawyer	Mr. Charles F. Willis, IV
Ann L. Hollick, Ph.D.	Mr. George C. Lodge, Jr.	Emily H. Schorer, CCP	Ms. Sarah M. Winchester
Mr. Stanley K. Honey	Mr. Hambleton D. Lord	Mr. Stephen A. Scullen, III	Mr. Kenneth R. Woodcock
Dr. Yuki Honjo	Dr. Charles M. Lucas	Mr. J. Richard Semels	Mrs. Priscilla B. Woods
Mr. Kinnaird Howland	Dr. James R. Luyten	William U. Shipley, M.D.	Barbara J. Wu, Ph.D.
Mr. Matthew H. Hurlock	Mr. Cameron K. Mackey	Dr. Elisabeth L. Sikes	Mr. Devdutt D. Yellurkar
Mr. Hamilton E. James	Dr. Laurence P. Madin	Mr. William P.N. Smith	Dr. James A. Yoder
Mrs. Jane P. Jamieson	Dr. Judith E. McDowell	Mr. Edgar W. Soule	Mr. David A. Yuknat
Mr. Geoffrey H. Jenkins	Mr. Denman K. McNear	Dr. Paul E. Speer	Ms. Jamie R. Zimmerman
	Mr. Gilbert Meister		

EX OFFICIO MEMBERS

Mr. Jeffrey A. Fernandez	Mr. Robert S. C. Munier	Dr. Margaret K. Tivey
Mr. Samuel C. Harp	Dr. Richard W. Murray	

WHOI DALLAS CHAPTER STEERING COMMITTEE

Mr. James M. Clark, Jr., Chair	Mr. Paul Devereux	Robert W. Langdon M.D.
Mr. Imad K. Anboubia	Mr. Stephen Giles	Mr. Frank A. Stroube

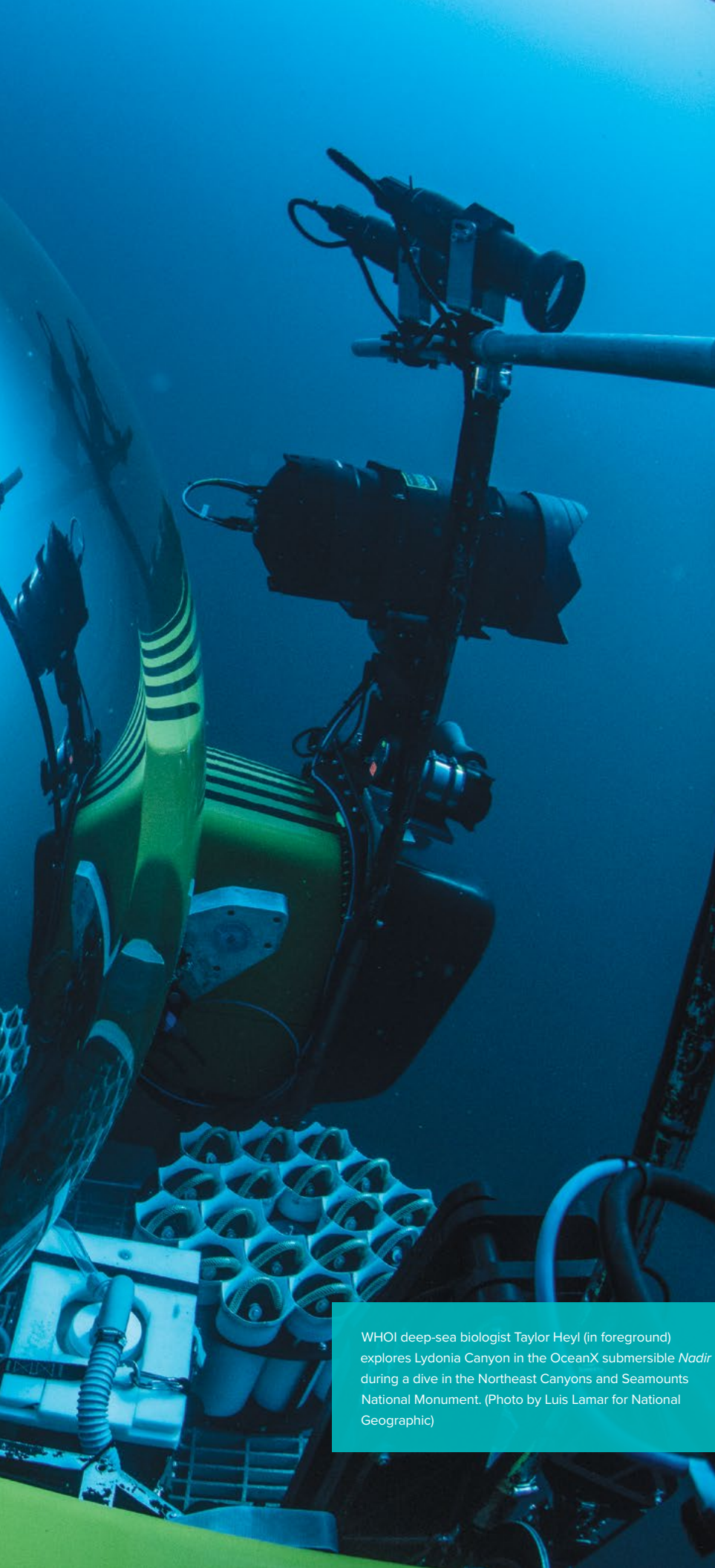
WHOI NEW ENGLAND CHAPTER STEERING COMMITTEE

Mr. Eric B. Anderson, Co-Chair	Mr. Stephen M. Curry	Mrs. Robin Powell Mandjes	Ms. Sarah M. Winchester
Mr. Christopher R. Bayles, Co-Chair	Ms. Margaret A. Flanagan	Mr. James P. Rosenfield	Mrs. David A. Yuknat
Mrs. Emiley Z. Lockhart, Co-Chair	Mr. Clinton P. Harris	Mr. Alexander C. Saltonstall	
	Mrs. Molly S. Ladd	Mr. William C. Schmidt	
	Ms. Jillian McGrath	Mr. Jonathan M. Stavis	

WHOI NEW YORK CHAPTER STEERING COMMITTEE

Mr. Samuel R. Coleman, Co-Chair	Mr. Joseph C. Hoopes, Jr.	Mr. Gilbert Meister	Mrs. Anya C. Salama
Mr. Peter F. Tobeason, Co-Chair	Mr. Matthew H. Hurlock	Mr. Newton P.S. Merrill	Mr. Edward J. Tregurtha
Mr. Robert C. Ducommun	Ms. Anne C. Kronenberg	Mr. Dean Miltimore	
Mr. Robert E. Fallon	Mrs. Timothea S. Larr	Mrs. Joyce L. Moss	
	Mrs. Doris Meister	Ms. Sally Rocker	





WHOI deep-sea biologist Taylor Heyl (in foreground) explores Lydonia Canyon in the OceanX submersible *Nadir* during a dive in the Northeast Canyons and Seamounts National Monument. (Photo by Luis Lamar for National Geographic)

INSTITUTION LEADERSHIP

President and Director

Dr. Mark R. Abbott

Deputy Director and Vice

President for Research

Dr. Richard W. Murray

Vice President for Academic

Programs and Dean

Dr. Margaret K. Tivey

Vice President for Marine

Facilities and Operations

Mr. Robert S.C. Munier

Vice President of Operations

and Chief Financial Officer

Mr. Jeffrey A. Fernandez

Vice President for Business

and Legal Affairs,

General Counsel

Mr. Christopher C. Land

Vice President for

Advancement and Chief

Marketing Officer

Mr. Samuel C. Harp

RESEARCH DEPARTMENT CHAIRS

Applied Ocean Physics and

Engineering Department

Dr. Dennis J. McGillicuddy, Jr.

Biology Department

Dr. Lauren S. Mullineaux

Geology and Geophysics

Department

Dr. Rob L. Evans

Marine Chemistry and

Geochemistry Department

Dr. Bernhard

Peucker-Ehrenbrink

Marine Policy Center

Dr. Michael G. Neubert

Physical Oceanography

Department

Dr. Amy S. Bower

2019 Financial Statements

WE ARE PLEASED TO PRESENT THE 2019 AUDITED FINANCIAL STATEMENTS OF THE WOODS HOLE OCEANOGRAPHIC INSTITUTION (WHOI) AND ARE GRATEFUL TO OUR MANY FUNDERS, BOTH PRIVATE AND FEDERAL, FOR THEIR SUPPORT OF WHOI'S MISSION OF OCEAN RESEARCH, EXPLORATION, AND EDUCATION.

The Institution met many of our financial and operational goals, including balancing the unrestricted budget, full paydown of our line of credit balance, the continuation of our "Investment in Science Program", and maintaining stable revenue despite continued pressure on Federal science budgets. In addition, our efforts to hire and retain a stable science and engineering workforce bore fruit, reinforcing the overall capability of WHOI staff. Notably, our total funded Sponsored Research increased by 17.5% vs. last year, mainly due to increased funding from the National Science Foundation. In addition, the board and WHOI management's efforts to secure bond funding in 2018 for a new secure research facility at

Quissett paid off, enabling the launch of this strategic construction project in 2019. A major highlight was also that the WHOI endowment performed well thanks to sound investment strategies, contributing to a strong balance sheet for the year. We are grateful to our trustees for their fiduciary guidance.

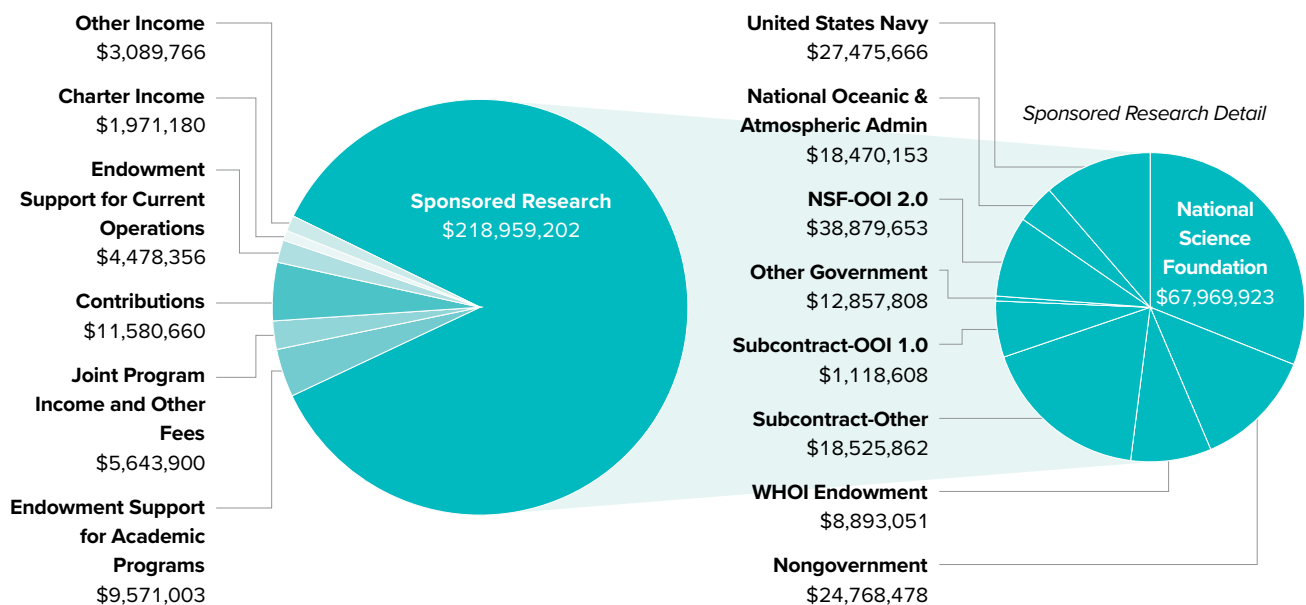
STATEMENT OF FINANCIAL POSITION

At December 31, 2019 WHOI's total assets were \$638.5 million, total liabilities were \$272.3 million and total net assets were \$366.2 million.

Net assets represent the accumulated financial strength of a not-for-profit organization and are an

REVENUES

Total: \$255,294,067



important gauge of its ability to carry out its mission. The Institution issued \$75.5 million in MassDevelopment Fixed Rate Revenue Bonds Series 2018, during 2018. The Institution received net proceeds of \$85.5 million, of this amount \$50.7 million was used to retire the Series 2008 Bonds, with the remaining amount to be used for future renovations and maintenance projects throughout the Institution along with building of new facilities. The Federal government allows interest and depreciation for real property and equipment in the Institution's overhead rates for reimbursement. Principal payments on the Series 2018 Bonds began in 2019.

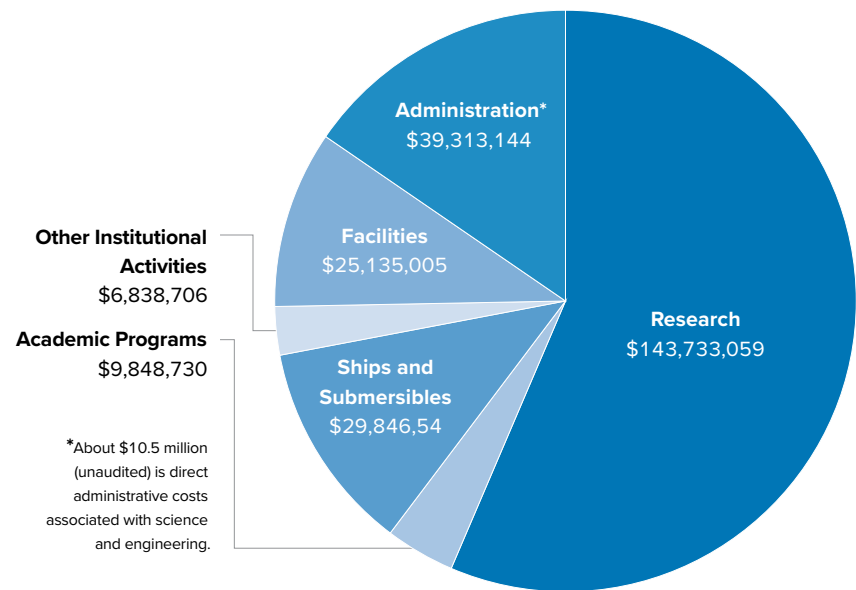
The endowment, \$434.0 million, represents 68% of the total assets at December 31, 2019.

STATEMENT OF ACTIVITIES

WHOI's total operating revenues increased by \$36.9 million; from \$218.4 million in 2018 to \$255.3 million in 2019; and the Institution's change in net assets from operating activities was \$.6 million.

EXPENSES

Total: \$254,715,193



\$20.4 million of endowment income and appreciation was distributed to operations as follows:

- Education \$8.9 million
- Research \$7.0 million
- Unrestricted \$4.5 million

The Institution had Facilities and Administration costs of \$64.5 million, and approximately 84% of that amount, \$54.0 million, was recovered from the government and non-government research. This included \$1.9 million of interest associated with the Series 2018 Bonds. The remainder was institutional expenses.

Philanthropy continues to play a larger role in meeting both the research and educational programming obligations. Current-use giving and endowment income accounted for 30.3% of the institution's revenue. Four-thousand-one-hundred-and-fifty-three supporters invested \$28,658,657 in high-impact ocean science at WHOI in fiscal year 2019. The continued expansion of the donor base at all levels remains an essential growth strategy in the coming years.



SUMMARY

Looking ahead, we will continue to hire talented individuals to carry out the WHOI mission, will focus on maintaining a balanced budget to fund our work while keeping overhead costs low, and anticipate exploring new fundraising and investment strategies to assure our ongoing position as a groundbreaking leader in oceanography for the benefit of humanity.

WHOI FUELS THE BLUE ECONOMY

A 2019 STUDY BY THE UNIVERSITY OF MASSACHUSETTS DONAHUE INSTITUTE UNDERSCORES WHO'S ROLE IN THE BLUE ECONOMY

MAJOR FINDINGS OF THE STUDY SAY THAT:



WHOI brings in
\$200 MILLION
federal dollars annually to Massachusetts.



WHOI leads the state in
**NATIONAL SCIENCE
FOUNDATION FUNDING**
and is the 5th largest recipient of NSF funding nationally.



WHO's operations translates to
3,898 JOBS, \$186.5 MILLION IN WAGES
\$333.7 million value added to Gross Domestic Product, and \$603.8 million in business revenue.



THE BLUE TECH ECONOMY
contributes \$2.6 billion in earnings and supports nearly 25,000 ocean-related jobs in Massachusetts, four percent of which are with WHOI.



Locally, WHOI is the
SECOND LARGEST EMPLOYER
on Cape Cod (after Cape Cod Healthcare), and supports the region in coastal planning, resource management, and habitat protection.



Experimental Machinist DC Collasius working on a lathe in the DunkWorks Lab, a maker space for ocean-related innovations that works with other marine robotics institutions in the region to advance the Blue Economy in Southeast Massachusetts and nearby regions. (Photo by Tom Kleindinst © Woods Hole Oceanographic Institution)



WOODS HOLE
OCEANOGRAPHIC
INSTITUTION

266 Woods Hole Road
Woods Hole, MA 02543-1050
www.whoi.edu