The Mission of the Nantucket Maria Mitchell Association is promotion of the legacy of Maria Mitchell and exploration, education and enjoyment of Nantucket’s land, waters and skies beyond.

In fulfilling our mission we recognize the historic persona of Maria Mitchell, the foremost American woman scientist and educator of the 19th century, and her potential impact on contemporary thought by passing on her legacy of intellectual curiosity, respect for and love of nature, learning by doing, and the ideal of individualism.

Maria Mitchell’s contributions to astronomy, science, and education are the basis for our continuing tradition of high quality research and teaching which inspires today’s learners and tomorrow’s scientists.

The NMMA provides scientific resources and educational programs for the community, uses Nantucket Island as an exceptional natural laboratory in which to study science and the environment, and maintains research and/or representative collections of Nantucket’s biodiversity.

We strive to delight our members, supporters, and visitors by providing high quality programs, services, and facilities. We strive to ensure our financial viability and the preservation of our buildings and important collections so that current and future generations can share in this legacy. We strive to collaborate with other institutions (both on- and off-island) to share relevant organizational assets to accomplish these objectives, obtain cost efficiencies, and reduce our impact on the environment.
Dear Members and Friends:

Thank you for your generosity this past year. The gifts you make to the Maria Mitchell Association allow us to accomplish all that you will read about on the pages that follow. Whether it’s our summer camps, school outreach, community programs or research, we know that we could not do any of it without your support. As we embark on our strategic planning process, your ideas, suggestions, participation, and critique sharpen our focus and clarify our vision to make the Maria Mitchell Association a science learning center for the 21st century. We are excited to share with you our plans for our Vestal and Washington Street campuses in the coming months.

Finally, I want to acknowledge my fellow Board members, MMA’s dedicated staff, and our many interns and volunteers who do outstanding work for the Association day in and day out. Thanks to all of you for your exceptional contributions.

Warmest thanks,

John L. Daniels
President, MMA Board of Directors
Letter from the Executive Director

To our Members and Friends:

One hundred and eleven years ago, students of Maria Mitchell from Vassar College and members of the Mitchell Family established the Maria Mitchell Association at One Vestal Street on Nantucket. Over the past century-plus, MMA has focused on the exploration and enjoyment of the natural world of Nantucket. From observing the pristine dark skies, to marine walks in Madaket Harbor, and field trips to Sankaty Head with local school children, the programs and activities we offer are rooted in the legacy of Maria Mitchell – teacher, scientist, and mentor. Our walks, talks, tours, and events feature hands-on learning, guided by knowledgeable staff and interns, and fueled by the spark of curiosity of our members, friends and guests. It is this rich tradition of discovery, learning, exploration, and observation that grounds all of the planning and evaluation we do to insure that your experience of MMA is a meaningful one.

None of these exciting activities and programs would happen without our Galaxy of Support. Thank you to each of you who contribute your time, talent, and treasures to the traditions that make us unique, the ongoing operations we offer daily, and the future aspirations of the Maria Mitchell Association.

Yours truly,

Janet E. Schulte, Ph.D.
Executive Director
HIGHLIGHTS OF 2013

This past year, MMA welcomed Dr. Michael West as Director of Astronomy and awarded Dr. Vladimir Strelnitski the title of Director Emeritus of the Maria Mitchell Observatory. The transition between the two scientists was smooth and productive, leading ultimately to the successful proposal to the National Science Foundation (NSF) to continue the MMA Research Experience for Undergraduates (REU) Program in Astronomy for four more years. This is a remarkable achievement given the recent cuts in funding to the NSF for research and education grants. MMA is truly proud to have attracted such a world caliber astronomer as Dr. West to Nantucket. His presence ensures the continued growth and evolution of our award-winning astronomy programs.

In 2013, MMA reached more people than ever before. In the Education Department, the Summer Discovery camp hit new enrollment highs and added the very popular Family Snorkeling program with the Aquarium staff. The program included tours led by an Aquarium and Education interns at Jetties Beach where participants are able to get an up-close experience with the marine life.

Attendance figures for 2013 include Aquarium visits (7618), Natural Science Museum visits (3464), Mitchell House visits (672), the Vestal Street Observatory visits (269), and Stargazing Nights (1444). Two hundred eighteen (218) people attended the programs and walks offered in the off-season by the Natural Science Museum and another 770 children and adults participated in programs offered in collaboration with other island organizations or in private programs.

<table>
<thead>
<tr>
<th>Attendance Comparison</th>
<th>2013</th>
<th>2012</th>
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</thead>
<tbody>
<tr>
<td>Aquarium</td>
<td>7618</td>
<td>6825</td>
</tr>
<tr>
<td>Natural Science Museum</td>
<td>3464</td>
<td>2959</td>
</tr>
<tr>
<td>Mitchell House</td>
<td>672</td>
<td>711</td>
</tr>
<tr>
<td>Vestal Street Observatory</td>
<td>269</td>
<td>90</td>
</tr>
<tr>
<td>Loines Stargazing Nights</td>
<td>1444</td>
<td>672</td>
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</tbody>
</table>

MMA staffed a table at five of the Saturday morning Farmer’s Markets organized by Sustainable Nantucket. The team’s mission was to educate and spread awareness about what lives in Nantucket Harbor. Environmental Education interns brought mobile touch tanks filled with whelks, hermit crabs, spider crabs, moon snails and shells. The team also brought animal artifacts from the Natural Science Museum for adults and children to see and hold including whelk egg cases and horseshoe crab exoskeletons. New Youth Volunteer Program participants also assisted at the Farmer’s Market table by collecting animals, conducting demonstrations, and answering questions of passers-by.
Work continues on the upgrade of the former Science Library. In September, 2013, the cement tile roof was cleaned and coated. Funded by a Community Preservation Act grant, the roof work and work to be done on the stucco walls will make a significant improvement in the look of our Vestal Street campus.

Most importantly, MMA initiated important strategic planning work with consultant group TDC that is being funded by a Massachusetts Cultural Facilities Grant. The discussions and decisions that will emerge from this process will set a strong course for MMA moving forward and lay the groundwork for future projects. Though it does mean a delay in the new science center planning and building, the MMA Board of Directors made a commitment to embark on this process to better position themselves for future capital projects. Said MMA Board Chair, John Daniels, ‘Analyzing our current and future needs and creating a strong organization will give MMA a strong foundation on which to build its future.’

**EXPLORE: Research and Collections**

All MMA departments maintained an active research agenda in 2013 and continued to work on documenting and improving collections management. Highlights of this impressive body of work by MMA’s staff, interns, members, and volunteers are listed below. For additional information, please call 508.228.9198 and we would be glad to send you a copy of the department specific report that interests you. These detailed reports are submitted to the Executive Director of MMA each year and provide details on the research projects, conference presentations, and publications of the departments’ staff.

**ASTRONOMY**

- The Astronomy Department hosted six summer REU interns who worked with Director, Dr. Michael West, as well as with a “virtual” astronomer. Five astronomers from universities across the United States and Canada assisted in the supervision of the REU student research both remotely and through a visit to Nantucket. Each visiting astronomer also delivered a public lecture. Five of the six students presented at the annual meeting of the American Astronomical Society in Washington, DC.

- The 24-inch telescope at Loines Observatory continues to be an invaluable tool for research, education and public outreach. Despite unusually cloudy skies over Nantucket this past summer, REU students made important observations of
cannibal galaxies during summer 2013, pushing the telescope to its limits and developing their skills as observational astronomers. In November 2013, a request was submitted to the National Science Foundation for funds to purchase a new high-tech instrument for the telescope called an echelle spectrograph; currently we are still awaiting NSF’s decision. Additionally, the telescope was fitted with an eyepiece for the first time, making it one of the largest publicly accessible telescopes in the eastern United States.

- Dr. Michael West published four research papers in collaboration with other astronomers from around the world on the subjects of galaxies and star clusters in the field of astronomy’s leading peer-reviewed journals. He also supervised two doctoral students, and was awarded coveted telescope time at Keck, the European Southern Observatory in La Silla, Chile, and the Australian Astronomical Observatory. Dr. West also presented at the Communicating Astronomy with the Public International Conference in Warsaw, Poland and the American Astronomical Society Annual Meeting. He did additional original research for two articles that he published in the new Sound Magazine, one titled “Spyhoppers and Stargazers: Can Whales See the Stars?” and the other titled “Wampanoag Sky: Language, Loss and the Light of Dead Stars.”

NATURAL SCIENCES

Natural Sciences Department staff actively worked on 12 research projects in 2013.

- In collaboration with the Roger Williams Park Zoo (Providence RI), Nantucket Conservation Foundation, Massachusetts Audubon Society, the Nantucket Land Bank, and the UMass Field Station, MMA is studying the population changes of the American burying beetles on Nantucket.

- In collaboration with Oxbow Associates, Inc. (Acton, MA), the Harvard Museum of Comparative Zoology, and Nantucket High School we are continuing fossil collections on the outcrop below the Sankaty Bluff lighthouse. Previously, our research team found several specimens of a brachiopod, a new addition to the collections.

- In cooperation with National Grid, Nantucket Electric, Linda Loring Nature Foundation, Nantucket Conservation Foundation, Nantucket Land Bank, The Trustees of Reservations, and the UMASS Boston Nantucket Field Station, Dr. Bob Kennedy, MMA Senior Research Fellow, is leading the study of the population dynamics and movements of Nantucket Ospreys.
• This year’s Barn Owl population spring survey banded 43 young and recaptured 11 adult barn owls in 16 nest boxes. The recaptured adults were banded between 2007 and 2012.

• MMA continued the studies of the wild population of Bay Scallops and the factors that affect their distribution, survival and reproduction in Nantucket waters. Dr. Peter Boyce, MMA Research Associate, diligently continues to raise money and lead this research. This year Nantucket high school students were able to participate in the project and presented their research at two public meetings at 33 Washington Street and for the members of the Nantucket Shellfish Advisory Board.

• Each year, from June to early September, through regularly scheduled Marine Ecology Field trips, MMA conducts an inventory of the marine fishes and invertebrates of Nantucket and Madaket Harbors. In 2013, 56 species of Vertebrates and 67 species of Invertebrates were collected in the waters of Nantucket. A list of the Vertebrates and Invertebrates collected this year is found in the “2013 Annual Report Scientific Collecting Permit No. 146078” submitted to the Massachusetts Division of Marine Fisheries.

• Funded by a Nantucket Biodiversity Initiative Grant to Scott Smyers of Oxbow Associates, MMA began conducting a multi-year study to collect baseline data on activity periods, habitat use, life history traits, and approximate densities for the snakes of Nantucket. In 2013, we captured 62 snakes from four sites on Nantucket representing three species (garter, ring-necked, and green snakes).

• In June, we conducted a Nightjar survey along a new and modified route from Hoick’s Hollow Road to the central Moors. Nightjar surveys consist of taking inventory of the number of whip-poor-wills heard or seen. The total number (7) was reported to the state as part of the Massachusetts Division of Fisheries and Wildlife/Northeast Nightjar Surveys program.

• Roadkill surveys continued and 35 records were submitted to the State for their database. Water snakes, garter snakes, deer, and several birds were all documented and placed on the interactive map on the MMA website.

• MMA conducted surveys of spawning Horseshoe Crabs during full moons and new moons this past May and June. Surveys were conducted at three locations: Warren’s Landing, Monomoy Beach and UMass Boston Nantucket Field Station.
• Julia Blyth, Collections Manager, prepared 23 bird specimens for the Edith F. Andrews Ornithological Collection. A total of 53 specimens were accepted for the collection in 2013. Interesting additions include razorbills, Atlantic puffins, and northern saw-whet owls. Ken Blackshaw has been cropping photographs of MMA’s ornithological collection and we are linking the images of bird species with the collections list on the website.

• Maris Humphreys works diligently to database all literature, reports, and miscellaneous publications concerning Nantucket County which comprise the “Nantucket Biodiversity Library.” She presented her work at the Nantucket Biodiversity Conference on November 2, 2013.

MITCHELL HOUSE

• The Mitchell House is the largest piece in our collection of artifacts and this year it saw quite a bit of activity including the re-shingling of its southern façade and the removal of tar paper that had been added when the building was last re-shingled in the 1960s. By closely examining the nail patterns of the shingles, the carpenters determined that this re-shingling was probably only the third time the southern façade was ever shingled! Mitchell House Curator, Jascin Finger wrote several blogs about the on-going conservation work that can be found at “Maria Mitchell’s Attic” on the MMA website, www.mariamitchell.org.

• The Mitchell House Curator also continued to work on her research into Nantucket women including the collaborative living arrangements for women on Nantucket in the nineteenth century, and the unique living arrangements known as “Boston marriages.”

• This year’s Mitchell House intern focused her research on Maria Mitchell’s role as the first woman inducted into the American Academy of Arts and Sciences.

• Mitchell House and the Archives and Special Collections received numerous research requests as well as requests to publish images of Maria Mitchell and her family. Capstone Publishing and the “Farmer’s Almanac” were among the publications that included stories and images of Maria Mitchell. The Hudson River Museum and the American Institute of Physics included images and information about Maria in exhibitions, and Maria Mitchell and the Mitchell House were featured in a Boston Globe article about Amy Brill’s novel, The Movement of Stars.
• Cleaning and moving of the Special Collection books from the former Science Library was finally completed in the early summer! A long and tedious task, each book was dusted with a brush, vacuumed, wiped, packed into a box and then moved to our new climate-controlled space in Drake Cottage where it was then unpacked and shelved. There are roughly 3,000 volumes in the Special Collections, not including Maria Mitchell’s own library. Remaining items in the Archives were also moved, including large format glass slides from the Astronomy Department.

EDUCATE: Educational Programs, Public Outreach and Learning Resources

EDUCATIONAL PROGRAMS

• This year’s Discovery camp saw the addition of the “Island Explorers’ Program,” a discounted program for Nantucket residents during the last two weeks of June prior to the arrival of many summer residents. Thirty-seven students participated in the program. It was a great opportunity for the Environmental Education visiting interns to connect with island families and learn about some of the island’s best outdoor sites from the children who live here.

• MMA had 243 total families participate in the 2013 Discovery camp filling 547 spots, 90% of the total capacity. MMA was again able to offer a 25% discount for two Discovery Program classes to island residents and EGCF, a non-profit organization based out of Southern Connecticut, again provided scholarship to reduce the cost of each class by 80% of the membership rate. Twenty-one children participated in EGCF program and twenty-seven students took advantage of the Island Family Discount.

• The Astronomy department hosted weekly public lectures during the summer months at the 33 Washington Street location. Participants include visiting astronomers in the REU program as well as astronomers from other universities, NASA, and other organizations.

• This year’s summer science learning series included presentations on Erosion Control with representatives from the Nantucket Planning and Land Use Services and the Sconset Bluff Preservation Fund, and Alternative Energy with Massachusetts Secretary of Energy and Environmental Affairs, Rick Sullivan.

• The Astronomy Department developed a series of after-school programs for elementary and middle-school students at the Nantucket Community School. Topics included Space Explorers, Blast Off, Artstronomy, and Robot Explorers.
• Junior Historian classes offered by the Mitchell House staff enrolled 67 children with a wonderful assortment of offerings from candlemaking and tinsmithing to games of the nineteenth century and scrapbooking. Classes were also led on subjects that included Nantucket’s remarkable women, the life of girls on 19th century Nantucket, and the island’s Wampanoag people.

• Mitchell House returned to the Nantucket Elementary School for the fourth year, working with the entire third grade (approximately 130 children) on a history segment about the life of Maria Mitchell and life on Nantucket in the 19th century.

• Mitchell House teamed up with other organizations and professional conservators to host several workshops in 2013 including an Old House Primer, a Bake Oven demonstration, and a “Behind-the-Scenes” tour of Mitchell house. One hundred twenty people (120) participated in these workshops. The Mitchell House Curator also led four classes at the Nantucket Community School which was part of a larger Nantucket history class being taught through the Community School.

• MMA offered field trips and classes to on- and off-island groups. Several classes from the Nantucket Elementary School, the Nantucket Boys and Girls Club, the Nantucket High School, The Children’s House, and The Nantucket Lighthouse School joined MMA staff to learn about life cycles, habitats, the solar system, trees, snakes, spiders, vernal pools, and animal adaptations. Off-island schools included the Waldorf School of Belmont, Stevens College, Connecticut College, Preservation Institute: Nantucket, and New Canaan Country Day School. These students worked with MMA staff from the different departments to learn about astronomy, the natural sciences, and history.

PUBLIC OUTREACH

• More than 3600 members and friends learned about the natural world of Nantucket through MMA’s many marine and nature walks and stargazing programs.

• The Astronomy Department also hosted several private stargazing nights for visiting schools, scout troops, and various Nantucket festivals and events. The Natural Sciences Department also led five marine walks for the Great Harbor Yacht Club day camp during the summer months.
• Thanks to the writing productivity of Dr. Michael West, MMA has been raising its profile through articles he has written for the Inquirer and Mirror, Sound magazine, Wall Street Journal, and USA Today.

• Mentoring young people and fostering their interest in science is a fundamental value of the MMA. No-one does a better job in this area than Andrew McKenna-Foster, Director of Natural Sciences. In addition to the more than 30 young volunteers at the Aquarium each summer, Andrew also mentors dozens of island youth during the off-season. The volunteers help to care for the menagerie of animals that live with us year-round, assist with some programming, and are working in the Collections identifying spiders and skinning birds.

• Students from Worcester Polytechnic Institute lived at the Maria Mitchell Association in Fall 2013 as part of their “Interactive Qualifying” course in their program of study. The students were divided into teams to conduct research projects for different island organizations.

• MMA provided a touch tank for the Nantucket Maritime Festival sponsored by ReMain Nantucket and Egan Maritime Institute in September.

LEARNING RESOURCES

• In response to many requests MMA developed a volunteer program for children ages 9-12. We had 16 individuals participate in our volunteer programs over six weeks. Volunteers assisted at our Farmer’s Market booth by finding animals to showcase and collecting food to feed our aquarium and museum animals.

• MMA launched a new web site in February 2013 at www.mariamitchell.org and has expanded its reach to members and friends through this improved web presence. In addition, MMA’s Facebook page, e-newsletters and Astro-Alerts, Twitter, Pinterest and the blog, “Maria Mitchell’s Attic’ have helped us stay connected to more people than ever before.
ENJOY: The Special Events and Relationships We Celebrate

• The 2013 Annual Meeting was held at 33 Washington Street site on June 21st. Forty-three (43) MMA members and island residents attended. The membership approved a new set of by-laws for the Maria Mitchell Association. Dr. Michael West gave a presentation on “Plans and Possibilities for Astronomy at MMA.” Reports from the President, Treasurer, and Executive Director were also given.

• An Evening with the Stars, MMA’s annual fundraising gala was held on Sunday, July 7th at Sankaty Head Golf Club. MMA’s new one-minute video was presented to rave reviews. Interns greeted and chatted with guests and explained their summer projects. A special thank you to the Gala Committee members whose hard work make this event so enjoyable and to the many Gala Sponsors whose financial support is integral to the event’s success. The evening featured a silent auction with items ranging from a weekend in Charleston to pet portraits and golf matches. More than 200 people attended the Gala which raised critical funds to support MMA’s research, education, and public outreach efforts.

• The annual celebration of Maria Mitchell’s birthday on August 1st at the Vestal Street campus included games and activities led by the Natural Science Department interns, rocketry and activities by the Astronomy REU interns, free tours of the Mitchell House, Observatory and the Natural Science Museum, a small touch tank from the Aquarium, the annual exhibit of Maria Mitchell’s Gold Medal, and a special pilgrimage by the summer staff to Maria’s gravesite following the day’s festivities.

• In June, MMA co-hosted an Author’s Breakfast at the Nantucket Book Festival that featured Amy Brill. Ms. Brill is the author of *The Movement of Stars*, a novel inspired by the life of Maria Mitchell.
Little known to our members and friends, one of the job responsibilities for each MMA staff member is to volunteer in the community and/or their profession. MMA staff offer their time and talents to a variety of organizations including The Nantucket Lighthouse School, The Montessori Children’s House, One Book One Island, the Nantucket Public Schools, the International Astronomical Union’s Working Group on *New Ways of Communicating Astronomy with the Public*, Massachusetts Space Grant Consortium, Prescribed Fire Crew, Nantucket Shellfish Association, Nantucket Biodiversity Initiative, American Arachnology Society, Nantucket Preservation Awards Committee, New England Museum Association, Association of Science and Technology Centers, National Collaborative of Women’s History Sites, Autism Speaks, Historic Structures Advisory Board, Credit for Life Fair, the Nantucket Island Chamber of Commerce, and the Clean Team.
MEMBERSHIP

Membership in the Maria Mitchell Association brings you into the heart of MMA’s activities and programs to explore and learn about the unique and special marine, terrestrial, and celestial “habitats” of Nantucket. Annual Members provide important unrestricted gifts to support our programs. The benefits enjoyed by our members include:

- discounts on classes, programs and workshops;
- invitations to join our citizen science research activities;
- free admission to the Natural Science Museum, the Aquarium, the Mitchell House, Vestal Street Observatory tours, and Stargazing Nights at Loines Observatory;
- a 10% discount in the museum shops;
- a subscription to the E-comet newsletter.

For a complete list of 2013 members, please contact the MMA at (508) 228-9198.

OUR GALAXY OF SUPPORT

Thank you for your generosity! Your Membership Dues, gifts to the Annual Appeal, sponsorships of the Evening with the Stars Gala, and donations to special campaigns allow MMA to continue a legacy of exploration, education, and research.

There are many ways to give to MMA. You may choose to support a specific program or department or give an unrestricted gift which can be directed to where it is most needed. We also hope you will consider the MMA in your estate plans with a bequest. Many of our donors provide support through a gift of stocks or securities, or with a matching gift from their employer. For questions, please contact Executive Director Janet Schulte at 508.228.9198.

2013 DONORS and SUPPORTERS

We strive for accuracy in this list. If your name has been omitted or listed incorrectly, please let us know at 508.228.9198.
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John Copenhaver & Suellen Ward  
Helene & Tim Weld  
Holly & F. Scott Wilson

**GIFTS IN HONOR OF MEMBERS AND FRIENDS**

In Honor of Jacques D’Amboise  
Betty P. Kenan
In Honor of John Daniels  
Dr. & Mrs. R. Huntington Breed

In Honor of Dan Drake  
Betty P. Kenan

In Honor of Tina & Stuart Fientz  
Marcia & Bruce Fowle

In Honor of Sarah Little & Doug Hersh  
Mr. & Mrs. Peter Lull  
Tierney Family

In Honor of Scott Kearby  
Kristen Kearby

In Honor of Linda & Dennis Lynch  
Patty, Dillon, Shane, & Liana Mitnick

In Honor of Toni & Martin McKerrow  
Barbara H. Sutphen

In Memory of Kenneth A. Anderson  
Ken & Cindy Blackshaw

In Memory of Mimi Beman  
Dwight E. Beman

In Memory of Edward T. Broadhurst, Jr.  
Edward T. Broadhurst, III

In Memory of John Cabot  
Blakeslee & Jeanne Barnes

In Memory of Irving Dubinsky  
Blumenstein Family

In Memory of Ronnie Elwell  
Susan Kaplan

In Memory of Dorrit Hoffleit  
Ms. Margaret Doleman  
Judith T. Karpen

In Memory of Patricia Loring  
S. Kimball Buck  
Mr. & Mrs. Michael Cicero

In Memory of Eleanor Lucas  
Maureen & Albert Glowacki

In Memory of Nancy Nelson  
Mary & Al Novissimo

In Memory of Donna Roux  
Roger Roux

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John Archibald  
Leanne Baker  
Dr. & Mrs. David H. Barlow  
Carol & John Bartholdson  
Allan D. Bell  
Carole & Gary Beller  
Dwight Beman  
Cindy & Ken Blackshaw  
Edith Bouriez  
Larry Breakiron  
Patricia & Bernard Brennan  
Lucia & Richard Brimer  
Hannah K. Brown  
Laura & William Buck  
Bonnie J. Buratti, Ph.D.  
Mr. & Mrs. Coleman P. Burke  
Eileen & Robert Butler  
Ellen & Ronald Caplan  
John B. Carroll  
Mr. W. Timothy Cashman  
Sally & Richard Charpie  
Marcia & Allan Chertok  
Virginia Chew  
Mr. & Mrs. Michael Cicero  
Michelle & Jeff Constable  
Caroline, Grace, & Jed Constable  
Gretchen & Gordon Cooney  
Robert P. Coronado  
Patricia Cosgrave  
Christina & Christopher Crampton  
Mr. & Mrs. Pierre Nicolas Uberto Crosby  
Susan & John Daniels  
Lisa & Porter Dawson  
Scott Nathan & Laura DeBonis  
Susan Deutsch  
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Nancy Drinkwater
Karen Dubinsky
Paula & Mort Dukehart
Emma & Isabelle Dunlap
Marsha & Bob Egan
Marcia & Bruce Fowle
Penny & Robert Fox
Rachael Freeman & Sam Slosek
Mary & Herbert Frerichs
Kim & Robert Frisbie
Sharon & Robert Gardner
Julie & Ralph Geer
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Hannah & Randy Gretz
Ruth Grieder
Anne Grieves
Ella Griffiths
Wendy & Benjamin Griswold
Karoly & Henry Gutman
Christine & David Hargrave
Dorothy K. Hesselman
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Larsen Fund
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Toni & Martin McKerrow
Beth & Kevin McMeen
Bunny & Duff Meyercord
Mr. & Mrs. G. Nicholas Miller

Sam Miller
Mr. & Mrs. William C. Miller, IV
Julia & Michael Milone
Beth Moyer
Joan & Michael Nelson
Sally & Michael Orr
Linda & Anthony Parrotto
Bebe Archibald Poor, D.V.M.
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Lauri Robertson
Roger Roux
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Anne P. Strain
Marie & John Sussek
Merrielou & Ned Symes
Ann & George Thom
Tierney Family
Debra & James Treyz
F. Helmut Weymar
Helene & Tim Weld
Randi & Ned Wight
Betty D. Zinn

ORGANIZATIONAL AND FOUNDATION SUPPORT

Community Foundation for Nantucket
Community Preservation Act
EGCF Children’s Foundation
ExxonMobil Foundation
Figawi Charities
The Kenneth and Hazel Roe Foundation
The Long Family
Massachusetts Audubon Society
Massachusetts Space Grant Consortium
M.S. Worthington Foundation, Inc.  
Nantucket Biodiversity Initiative  
Nantucket Conservation Foundation  
Nantucket Education Trust, Inc.  
Nantucket Golf Club Foundation  
Nantucket Island Resorts  
Nantucket Land Bank  
Nantucket Land Council and Great Harbor Yacht Club Marine Grants Program  
Nantucket Shellfish Association  
NASA  
National Science Foundation – Research Experience for Undergraduates Program  
ReMain Nantucket  
Richard Coyle Lilly Foundation  
Roger Williams Park Zoo  
Shellfish and Harbor Advisory Board  
T Theory Foundation  
US Fish and Wildlife Service

**GIFTS TO THE COLLECTIONS OF THE MARIA MITCHELL ASSOCIATION**

The Mitchell House, Archives and Special Collections accepted two gifts in 2013:

Historically appropriate garden plants for the Mitchell House Garden – Liz Coffin

Image of Margaret Harwood taken by Bill Haddon, ca. 1965 – John Stackpole

The Natural Science Department was the recipient of two gifts in 2013:

Two lined seahorses – Ned Manus

A lobster tank and chiller – Joe Pantorno
The Nantucket Maria Mitchell Association
Statement of Financial Position
December 31, 2013
(With Summarized Financial Information for 2012)

Assets

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash and cash equivalents</td>
<td>$919,632</td>
<td>$600,892</td>
</tr>
<tr>
<td>Inventories</td>
<td>2,390</td>
<td>2,878</td>
</tr>
<tr>
<td>Pledges receivables</td>
<td>864,026</td>
<td>922,621</td>
</tr>
<tr>
<td>Other receivables</td>
<td>31,447</td>
<td>4,421</td>
</tr>
<tr>
<td>Investments</td>
<td>3,506,282</td>
<td>3,412,418</td>
</tr>
<tr>
<td>Real estate interests</td>
<td>518,000</td>
<td>318,000</td>
</tr>
<tr>
<td>Remainder interest in property</td>
<td>504,745</td>
<td>455,780</td>
</tr>
<tr>
<td>Deferred expenses</td>
<td>-</td>
<td>7,271</td>
</tr>
<tr>
<td>Property, plant, and equipment, net</td>
<td>4,850,885</td>
<td>4,975,085</td>
</tr>
<tr>
<td></td>
<td>$11,197,407</td>
<td>$10,689,366</td>
</tr>
</tbody>
</table>

Liabilities and Net Assets

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts payable and accrued liabilities</td>
<td>$105,073</td>
<td>$65,091</td>
</tr>
<tr>
<td>Note payable</td>
<td>11,398</td>
<td>16,238</td>
</tr>
<tr>
<td></td>
<td>116,471</td>
<td>81,329</td>
</tr>
</tbody>
</table>

Net assets

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted</td>
<td>6,627,512</td>
<td>6,537,909</td>
</tr>
<tr>
<td>Temporarily restricted</td>
<td>2,524,785</td>
<td>2,141,489</td>
</tr>
<tr>
<td>Permanently restricted</td>
<td>1,928,639</td>
<td>1,928,639</td>
</tr>
</tbody>
</table>

Total net assets

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>11,080,936</td>
<td>10,608,037</td>
</tr>
</tbody>
</table>

|                      | $11,197,407  | $10,689,366  |
The Nantucket Maria Mitchell Association  
Statement of Activities  
Year ended December 31, 2013  
(With Summarized Financial Information for 2012)

### Operating activities: Revenue and support

<table>
<thead>
<tr>
<th></th>
<th>Unrestricted</th>
<th>Temporarily Restricted</th>
<th>Permanently Restricted</th>
<th>Totals 2013</th>
<th>Totals 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programs</td>
<td>$236,777</td>
<td>$-</td>
<td>$-</td>
<td>$236,777</td>
<td>$219,749</td>
</tr>
<tr>
<td>Admissions</td>
<td>36,600</td>
<td>-</td>
<td>-</td>
<td>36,600</td>
<td>38,156</td>
</tr>
<tr>
<td>Museum Shop</td>
<td>15,055</td>
<td>-</td>
<td>-</td>
<td>15,055</td>
<td>18,135</td>
</tr>
<tr>
<td>Memberships</td>
<td>86,315</td>
<td>-</td>
<td>-</td>
<td>86,315</td>
<td>65,694</td>
</tr>
<tr>
<td>Grants</td>
<td>200</td>
<td>126,597</td>
<td>-</td>
<td>126,797</td>
<td>76,571</td>
</tr>
<tr>
<td>Contributions</td>
<td>87,426</td>
<td>-</td>
<td>-</td>
<td>99,529</td>
<td>179,565</td>
</tr>
<tr>
<td>Special events</td>
<td>118,998</td>
<td>-</td>
<td>-</td>
<td>118,998</td>
<td>113,505</td>
</tr>
<tr>
<td>Investment return designated for operations</td>
<td>352,000</td>
<td>-</td>
<td>-</td>
<td>352,000</td>
<td>255,000</td>
</tr>
<tr>
<td>Rental income</td>
<td>33,715</td>
<td>-</td>
<td>-</td>
<td>33,715</td>
<td>36,370</td>
</tr>
<tr>
<td>Interest income</td>
<td>1,632</td>
<td>-</td>
<td>-</td>
<td>1,632</td>
<td>1,688</td>
</tr>
<tr>
<td>Satisfication of program restrictions</td>
<td>165,308</td>
<td>(165,308)</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Satisfication of capital-related activities</td>
<td>407,638</td>
<td>-</td>
<td>-</td>
<td>407,638</td>
<td>378,075</td>
</tr>
<tr>
<td>Total revenue and support</td>
<td>$1,541,664</td>
<td>(26,608)</td>
<td>-</td>
<td>$1,515,056</td>
<td>$1,382,508</td>
</tr>
</tbody>
</table>

### Expenses

<table>
<thead>
<tr>
<th></th>
<th>Unrestricted</th>
<th>Temporarily Restricted</th>
<th>Permanently Restricted</th>
<th>Totals 2013</th>
<th>Totals 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program services</td>
<td>1,345,391</td>
<td>-</td>
<td>-</td>
<td>1,345,391</td>
<td>1,165,793</td>
</tr>
<tr>
<td>Management and general</td>
<td>260,598</td>
<td>-</td>
<td>-</td>
<td>260,598</td>
<td>243,148</td>
</tr>
<tr>
<td>Development</td>
<td>139,937</td>
<td>-</td>
<td>-</td>
<td>139,937</td>
<td>150,100</td>
</tr>
<tr>
<td>Total expenses</td>
<td>$1,745,926</td>
<td>-</td>
<td>-</td>
<td>$1,745,926</td>
<td>$1,559,041</td>
</tr>
</tbody>
</table>

### Change in net assets from operating activities

<table>
<thead>
<tr>
<th></th>
<th>Unrestricted</th>
<th>Temporarily Restricted</th>
<th>Permanently Restricted</th>
<th>Totals 2013</th>
<th>Totals 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-operating activities:</td>
<td>(204,262)</td>
<td>(26,608)</td>
<td>-</td>
<td>(230,870)</td>
<td>(176,533)</td>
</tr>
</tbody>
</table>

### Investment return, less amounts designated for operations

<table>
<thead>
<tr>
<th></th>
<th>Unrestricted</th>
<th>Temporarily Restricted</th>
<th>Permanently Restricted</th>
<th>Totals 2013</th>
<th>Totals 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions and grants restricted for capital activities</td>
<td>-</td>
<td>758,577</td>
<td>-</td>
<td>758,577</td>
<td>284,686</td>
</tr>
<tr>
<td>Donation of remainder interest in property</td>
<td>-</td>
<td>58,965</td>
<td>-</td>
<td>58,965</td>
<td>16,420</td>
</tr>
<tr>
<td>Satisfication of capital restrictions</td>
<td>-</td>
<td>(407,638)</td>
<td>-</td>
<td>(407,638)</td>
<td>(378,075)</td>
</tr>
</tbody>
</table>

### Change in net assets from non-operating activities

<table>
<thead>
<tr>
<th></th>
<th>Unrestricted</th>
<th>Temporarily Restricted</th>
<th>Permanently Restricted</th>
<th>Totals 2013</th>
<th>Totals 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change in net assets</td>
<td>293,865</td>
<td>409,904</td>
<td>-</td>
<td>703,769</td>
<td>44,992</td>
</tr>
<tr>
<td>Net assets, beginning of year</td>
<td>6,537,909</td>
<td>2,141,489</td>
<td>1,928,639</td>
<td>10,608,037</td>
<td>10,739,578</td>
</tr>
</tbody>
</table>

### Net assets, end of year

<table>
<thead>
<tr>
<th></th>
<th>Unrestricted</th>
<th>Temporarily Restricted</th>
<th>Permanently Restricted</th>
<th>Totals 2013</th>
<th>Totals 2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>$6,627,512</td>
<td>$2,524,785</td>
<td>$1,928,639</td>
<td>$11,080,936</td>
<td>$10,608,037</td>
<td></td>
</tr>
</tbody>
</table>

The financial statements for 2013 have been audited by Bollus & Lynch, LLP, who have rendered an unqualified opinion on them. Complete financial statements are available on request.
**MMA BOARD OF DIRECTORS**

**Officers:**
John L. Daniels, President  
Deborah J. Manus, First Vice President  
Caren Lambert, Ph.D., Second Vice President  
Malcolm W. MacNab, M.D., Ph.D., Clerk  
Michael Nelson, Treasurer

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Robert W. Noyes, Ph.D.

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Mary Archibald (Bebe) Poor, D.V.M.  
Edward Symes III  
Howard N. Blitman  
Dennis Cross  
Malcolm W. MacNab, M.D., Ph.D.  
Eileen Rudden
2015 Patty Gibian  
Michael Nelson  
Anne Parks Strain
2017 Patricia L.R. Brennan, Ph.D.  
John L. Daniels  
Judith G. MacLeod  
Deborah Manus  
Helene M. Weld

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Kyra Taylor, Office Manager  
Patricia Roggeveen, Development Director and Campaign Counsel (Through October 2013)  
Joan Alison Stockman, Financial Administrator  
Scott Leonard, Property Manager

**Astronomy**
Michael West, Ph.D., Director of Astronomy  
Gary Walker, M.S., Telescope Engineer and Astronomer  
Vladimir Strelnitski, Ph.D., Director Emeritus of the Maria Mitchell Observatory

**Education**
Whitney Morris, M.Ed., Summer Education Director

**Mitchell House**
Jascin N. Leonardo Finger, M.A., Curator  
Pat Michaelson, Volunteer Tour Guide and Docent  
Maris Humphreys, Volunteer Rare Book and Biodiversity Library Cataloger  
Jacqueline Ray, Student Volunteer, Nantucket Lighthouse School

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Andrew McKenna-Foster, M.S., Director of Natural Science Education and Programs  
Robert S. Kennedy, Ph.D., Senior Research Fellow  
Edith F. Andrews, M.S., Ornithologist Emerita  
Valerie A. Hall, Ph.D., Research Associate  
Peter B. Boyce, Ph.D., Research Associate  
W. Forrest Kennedy, B.S., Aquarium Advisor  
Cheryl Comeau Beaton, Aquarium Advisor

**2013 INTERNS**

**Astronomy (NSF-Research Experience for Undergraduates)**
Baylee Bordwell, Univ. of California, Berkeley ‘14  
Marie Calapa, Univ, of Mass, Amherst ‘14  
Jordan Bledsoe Concannon, University of Hawaii at Hilo ‘15  
Emily Moravec, St. Olaf College, ‘14  
Chantanelle Nava, University of Montana, ‘15  
Will Rhodes, The College of New Jersey, ‘14
Aquarium
Corenna Blewett, B.S., MBA, U. of Rhode Island
Kate Czechowski, Vassar College ‘14
Leigh Habegger, U. of Rhode Island, M.A. candidate
Tiffany DellaVentura, SUNY-ESF ‘14

Lead Environmental Education Instructors
Tom Calvert-Rosenberger, B.S., Texas Christian U.
Paige Collins, Bates College, ’14
Chris Coomey, SUNY-Oswego, ’15
Meredith Fish, Penn. State University, ’15
Zach Gajewski, Virginia Tech University, ’15
Kate Hamre, B.A., Colby College
Glenn Harrington, M.S., U Mass Amherst
Leah Hayden, Lafayette College, ’15
Jorie Heilman, University of Miami, ’15
Charles Kenyon, Bates College ’15
Emily Lansdale, Vassar College, ’14
Sara Miller, Colby College, ’15
Daniel Pratson, St. Mary’s College, ’15
Kellie Walsh, Colby College ’15

Marketing/ Merchandising
Jessica Lefton, Univ. of Puget Sound, B.A.

MMA Marine Science Intern
Jack Dubinsky, The Browning School
Andrew Flax, Sidwell Friends School
Heyward Lathrop, Episcopal High School
Isaac Hersch, Wellesley High School
Ned Manus, Brimmer and May School
Sadie Goetz, Garrison Forest School

Scallop Research Assistants
Oliver Bender, University of Rhode Island
Abi Hines, Nantucket High School
Sophie Proch, Nantucket High School
Mackenzie Welch, Hanover (MA) High School

Mitchell House
Sarah Scott, Mitchell House Intern, Vassar College, B.A.

Natural Science Museum
Julia Blyth, Collections and Exhibit Manager, B.A., Ohio Wesleyan University
Kyle Macsuga, B.S., U. of Connecticut-Storrs
Tabatha Hawkins, B.S., U. of Maine

VOLUNTEERS
Astronomy
Alison Dugas
Emily Shain

Discovery Program Volunteers
Sydney Bramen
Sarah Caplan
Stefano Chiampi
Mason Earle
Jordin Graves
Ella Griffiths
Will Hallett
Ella Mare
Colin McCloskey
Raymond McClure
Kalina Norwood
Elizabeth Pellegrini
Magdalena Robb
Teddy Ryan
Cade Sargent
Miles Savitz

Mitchell House
Patricia Michaelson, Ph.D., Tour Guide
Maris Humphries, Rare Book Cataloger
Jacqueline Ray, Nantucket Lighthouse School

Natural Science
Marcia Aguiar Ornithology
Ginger Andrews Ornithology
Madison Beck Scallops
Kenneth T. Blackshaw Ornithology
Corenna Blewett Scallops
Lois Boland Scallops
Hannah Brown Scallops
Leah Cabral Scallops
Geoff Clayton Scallops
Kelly Coughlin Scallops
Dan Dorfman Scallops
Board and Staff

Jack Dubinsky  Aquarium
Allyson Gaylord  Scallops
Sam Golding  Scallops
David Goodman  Scallops
Steve Heck  Scallops
Maris Humphreys  Biodiversity
Colleen Hurley  Scallops
Allison Kenney  Scallops
Gary Langley  Scallops
Scott Leonard  Horseshoe Crabs
Oliver Long  Fossils/Museum
Andrew McCandless  Scallops
Herb Mittenthal  Scallops
Peter Morrison  Osprey
Dan Mucaro  Scallops
Justine Paradis  Scallops
Steve St. Pierre  Scallops
Denis Toner  Scallops
Susan Toner  Nano Days

Tristram Ravenscroft  Scallops
Natasha Recoder  Scallops
Claude Ropitzky  Scallops
Charlie Ryan  Scallops
Roy Ryder  Scallops
Stephanie Ryder  Scallops
Charlie Szikles  Scallops
Jack Wilson  Scallops
Chandler Zinn  Scallops

**Administration**
Marcia Aguiar
Kenneth Blackshaw
Sally Charpie
Caroline Ellis
Fay Gambee
Barbara Kates-Garnick
Candy Greig
Elvira Harden
Dolly Howell
Jack Kennedy
Judith Lee
Jim Lowe
Tricia Lowe
Karen MacNab
Toni McKerrow
Martin McKerrow
Greg Maskell
Debbie Stackpole Merritt
Kit Noble
Patty Rottmeier
Pam St. Pierre
Esta-Lee Stone
Ruth Thompson
Susan Toner
Hannah Wallace

**Natural Science, 17 years and under**
Daniel Blatt
Paige Boszhardt
Asher Carlson
Christopher Chai
Kelly Clark
Elizabeth Douglass
Kara Falk
Jenna Genther
Jordin Graves
Will Halik
Edward Johnson
Skyler Kardel
India Kilgore
Peter Lindgren
Grace MacAurther
Joe Maloney
Grace Manning
Ned Manus
Isabella Morzano
Colin Olsen
Sam Panner
Sarah Paulsen
Madeleine Phillips
Gabrielle Porter
Sophie Proch
Afnaan Qureshi
Morgan Ravenscroft

**COLLABORATIONS**
The Maria Mitchell Association is proud to establish collaborations with other non-profit organizations and universities to offer the best in programs and to conduct research vital to understanding and preserving Nantucket’s natural areas and to pursue cutting edge research in astronomy using MMA’s telescopes and leading telescopes around the world and in space.
Our collaborating **organizations** are:

American Association of Variable Star Observers
Artists Association of Nantucket
Willis Blount, *Ruthie B*
Boston University
Children’s House of Nantucket
City University of New York
Connecticut College
Egan Maritime Institute
European Southern Observatory
Egan Maritime Institute
European Southern Observatory
International Astronomical Union
Josh Eldridge, *Critter Cruises*
Mark Genthner, *Just Do It Too*
Harvard-Smithsonian Center for Astrophysics
Harvard University Museum of Comparative Zoology
Keck Observatory
Linda Loring Nature Foundation
The Nantucket Lighthouse School
Long Island University
Massachusetts Audubon Society
Massachusetts Division of Marine Fisheries
Monomoy Charters
Nantucket Atheneum
Nantucket Biodiversity Initiative
Nantucket Boys and Girls Club
Nantucket Community Sailing
Nantucket Conservation Foundation
Nantucket Historical Association
Nantucket Islands Land Bank Commission
Nantucket Land Council
Nantucket Marine & Coastal Resources Department
Nantucket Preservation Trust
Nantucket Public Schools
Nantucket Shellfish Association
Nantucket Shipwreck and Lifesaving Museum
National Collaborative of Women’s History Sites
National Grid
National Museum of Natural History
National Research Council of Canada
Oxbow Associates, Inc.
Peking University, China
Pontificia Universidad Católica de Chile
Preservation Institute Nantucket
Roger Williams Park Zoo
Rotary Club of Nantucket
‘Sconset Trust
Shearwater Excursions
The Trustees of Reservations
Tuckernuck Land Trust
University of Arizona
Universidad Nacional Autónoma de México
University of California, Davis
University of Ghent, Belgium
University of Hawaii
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