

Celebrating the 200th Birthday of Maria Mitchell

The Nantucket Maria Mitchell Association

2018 Annual Report

Nantucket's Science Center



**Maria
Mitchell**
Association
Nantucket's
Science Center

mariamitchell.org

***“The step, however small, which is in
advance of the world, shows the greatness
of the person, whether that step be taken
with brain, with heart, or with hands.”***

- Maria Mitchell



Mission Statement



The mission of the Nantucket Maria Mitchell Association is to promote 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 nineteenth 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.

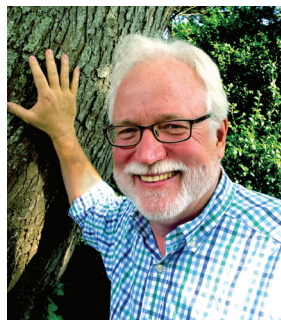
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Executive Director's Report

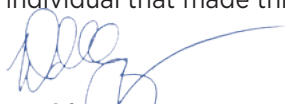
2018 Was A Monumental Year At The Maria Mitchell Association

In addition to the over 500 events and programs undertaken by the hard-working staff, interns, and volunteers and through the generous support of our members and donors, we celebrated a truly momentous event, the 200th anniversary of the birth of America's first woman astronomer, Maria Mitchell. We had numerous celebrations throughout the year to ensure that Maria's life's work was fittingly recognized. From the MMA-created exhibit at the Nantucket Historical Association's Whaling Museum about the life and legacy of Maria Mitchell, to the window honoring our namesake that the MMA was invited to create at Hingham Bank on Main Street, to the new Maria Mitchell Women of Science Symposium, to the one-woman play about Maria Mitchell written by Vassar graduate Barbara Duffy and co-produced with the Dreamland Theater, it was a robust and full year! In addition to the work of the Maria Mitchell Association's staff and board, it is important to recognize the Town of Nantucket and its support of numerous special programs throughout the celebratory year.



In addition to the celebrations surrounding the 200th, the MMA was proud to open the newly renovated Research Center. The Research Center, housed in the MMA's former Science Library at 2 Vestal Street, includes a state-of-the-art science classroom, laboratory space, and climate-controlled storage areas for its over one hundred year old biological collections that have been continuously collected on Nantucket and represent a unique and important collection of the island's biodiversity. Opened on May 25, 2018 with a wonderful opening reception, remarks were made by Nathaniel Philbrick and the MMA's former Director of Natural Science, Eileen McGrath, both former and now honorary board members of the MMA. Since its opening, the Research Center has been actively used by researchers, students, interns, and as a meeting space for the science community - from both on the island and off.

2018 was a year to remember. On behalf of the MMA supporters, the thousands of individuals and hundreds of students who benefited from the good work of the Maria Mitchell Association, we are all indebted to the individual that made this all possible, Maria Mitchell.



David Gagnon
Executive Director



As we marked the 200th year since Maria's birth, the Astronomy Department hosted several special events to celebrate and honor the legacy of Maria Mitchell.

The flagship National Science Foundation Research Experience for Undergraduates (NSF-REU) program received 210 applications for the six available positions. After an extensive review process, including phone interviews of the short-listed candidates, six excellent students were selected. (Please see "Board, Staff, Interns & Volunteers" on page 28.)

Each student was paired with an individual research project – with topics ranging from exo-planets and stars to galaxy formation and cosmology – and was mentored by Dr. Jorgenson, Gary Walker, and in some cases, an additional affiliated astronomer. This summer, we were joined by five affiliated astronomers. (Please see page 28.)

This summer, with the help of affiliated astronomer Dr. Rodolfo Montez, we implemented a new Python bootcamp – a

two-day long intensive workshop aimed at getting the students up to speed on the latest computer programming language widely used in astrophysics. At the end of the summer, all of the students presented ten-minute talks on their research projects to the public as part of the MMA's Science Speaker Series.

In January 2019, the interns successfully presented research posters at the American Astronomical Society (AAS) meeting in Seattle, Washington. We are happy to report that intern Caeley Pittman was awarded the prestigious Chambliss Astronomy Achievement Award for her research poster, entitled "Searching for Intermediate-Mass Black Holes in the Optical Time Domain," and completed under the guidance of Drs. Gezari and Jorgenson. The AAS also saw the occurrence of the fourth annual Maria Mitchell Observatory alumni breakfast. Generously sponsored by Princeton Instruments, Planewave, Ball Aerospace, and the Giant Magellan Telescope, the breakfast brought together over forty MMO alumni and friends.

Astronomy

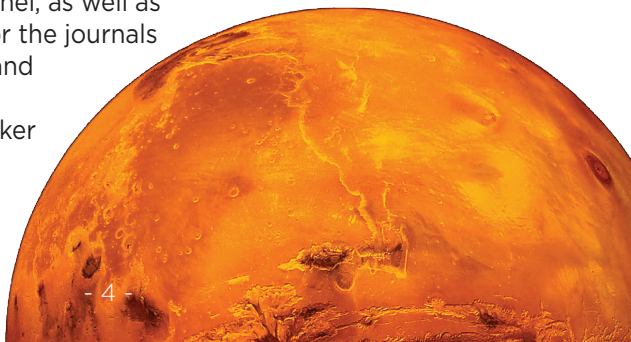
It was a particularly bad summer for fog, forcing us to cancel nearly half of our public Open Nights at Loines Observatory. Overall, we welcomed nearly 1,600 visitors and made \$14,000 in income from summer Open Nights at Loines. Daytime tours of the Vestal Street Observatory saw an increase in visitation from previous summers to 210 visitors. We continued to offer and provide private Open Nights for various groups, from the Nantucket New School, to both off- and on-island Boy and Girl Scout troops, and numerous private parties.

We are happy to report that summer 2016 NSF-REU student Tanveer Karim's paper on his MMO summer research project was accepted for publication by the top astrophysics journal, *The Astrophysical Journal*. The title of his paper is "Probing the Southern Fermi Bubble in Ultraviolet Absorption using Distant AGNs." The team included MMO Affiliated Astronomer Dr. Andrew Fox (Space Telescope Science Institute) and Dr. Jorgenson. Karim is currently in his third year as an astrophysics PhD student at Harvard College.

In the winter of 2018, the MMO hosted Bennington College Field Work Term student Ariel Mora. Under the tutelage of Gary Walker and Dr. Jorgenson, Mora used both the Loines 24-inch telescope and the Sierra Remote Observatory to study the unusual, optical flickering behavior of star VO694 Mon. Mora was then accepted into the TAURUS summer research program at the University of Texas, Austin and seems well on his way to a productive career in astrophysics.

In April, Dr. Jorgenson was invited to give the astrophysics colloquium at the University of Massachusetts, Amherst, where she was hosted by Dr. Martha Hanner, a longtime MMA supporter and former MMO summer intern. Dr. Jorgenson gave a four-part lecture series on the planets (and beyond!) at the Nantucket Atheneum. In November, Dr. Jorgenson was invited to the Center for Astrophysics | Harvard & Smithsonian to sit on a career panel.

Dr. Jorgenson began a biweekly radio interview series called "Looking Skyward" that airs on the Cape and Islands National Public Radio (NPR) station. During the show, Dr. Jorgenson discusses the latest astronomy news with Brian Morris, the host of the local portion of "All Things Considered" radio program. Dr. Jorgenson continued to serve on professional scientific committees such as the Hubble Space Telescope Time Allocation Committee and the National Science Foundation Scientific Review Panel, as well as acted as a manuscript referee for the journals *Science*, *Astrophysical Journal*, and *Monthly Notices of the Royal Astronomical Society*. Gary Walker continued to serve in his role as secretary of the American Association of Variable Star Observers.



In 2018, the Natural Science Department continued its goals of preserving and displaying the biodiversity of Nantucket County and conducting research on invertebrates, snakes, birds, and marine biodiversity. The Aquarium and Natural Science Museum were open from June 4 through August 31. As Dr. Emily Goldstein Murphy was on maternity leave during the summer, Shelley Dresser took on full responsibility for the operations and management of both the Aquarium and Natural Science Museum, as well as coordinating staff around the various research projects. Visitation at the Aquarium was down by 250 compared to 2017 with a total visitation of 5,727. In contrast, the Museum's visits were up by 196 for a total of 2,520 visitors. The Aquarium remains the main entry point of guests into the MMA properties. This year's Aquarium interns did a particularly great job of guiding people to visit other properties with their passes and were especially successful at selling memberships.



Research programs consisted of continuing projects and new projects. The MMA continued to collaborate with the Nantucket Conservation Foundations on the long running Whip-poor-will survey and regional horseshoe crab survey. The American Burying Beetle project was reinvigorated this year with reintroductions of captive bred beetles from the Roger Williams Park Zoo. This began the first of five years of planned reintroductions to bolster the population on Nantucket. We continued green crab research with the Nantucket Land Council and while the data has not yet been analyzed, a quick glance notes there were very few recaptures. It is not clear whether we will get good estimations of population or density from the data from 2018. The Museum interns also participated in field work focusing on Snake Fungal Disease and on monitoring bats.

We again traded fish with Marjorie Williams at the Cape Cod Museum of Natural History. We collected fish from her in the late spring and she collected fish from us in the late summer in return. Several tropical fish came into the Aquarium over the summer and they are now on display in the Museum.



Natural Science



Natural Science Collections Manager Julia Blyth returned to prepare specimens and work on the collections maintenance. All biological collections are in the Specify database. With the Research Center opened, all of the Biological Collections were moved from the basement of Hinchman to the new climate-controlled storage located in the basement of the Research Center. Many members of the Nantucket Biodiversity Initiative and interns helped move the collections while we hired professional movers to carry the cabinets.

The gift shops were administrated by Shelley Dresser, Assistant Director of Development, and Trinity Foreman, Executive Administrator. The Board determined that the gift shops should move away from plastic items and towards higher-end items and educational toys.

The Nantucket Science Festival was held March 16, 2018 from 10 am - 2 pm at the Nantucket High School. Over 400 island children and adults explored science through hands-on activities in robotics, renewable energy and electricity, magnetism, potential energy in engineering, space exploration, sensory crafts, and more. Many organizations across the island also supported this year's event including the Nantucket High School Tech Club, the Linda Loring Nature Foundation, the Nantucket Conservation Foundation, ACK Smart, SmartPower, and the Exploration Station.



The Education Department continued to provide programs throughout the school year for island children in grades K-5. In 2018, the MMA offered three after-school series including “Land, Seas and Skies of Nantucket” and “ARTstronomy” for grades K-2, and “Chemistry is Out of this World” for grades 3-5. Classroom programs included “Trees and the Community” for all 5th grade classes in both public and private schools, “All About Reptiles” for the Children’s House, and a seven-week series on reptiles as an enrichment program for third graders at the Nantucket Intermediate School. The department also hosted a “Beach Exploration” field trip at Harbor Flats for all public school kindergarteners, assisted the Nantucket Land Council in vernal pool programs at Squam Swamp, and led salt marsh ecology lessons for 7th and 8th graders from the New Canaan Country Day School.

The MMA continued to offer a vacation camp in April, but did not offer a winter camp in 2018. “Home ECONomics” was held April 17-21. Thanks to the generosity of the Adam Bloom Scholarship Fund, the MMA provided one full scholarship and two partial scholarships for this week of camp.

The 4th Annual Nantucket Science Festival was held on March 17, 2018. Due to the popularity of the growing Science Festival, the event was held in the high school gymnasium which provided much more floor space and higher ceilings for such activities as stomp rocket and catapult design challenges. It was a smashing success with over 425 people in attendance.

On March 14, 2018, Kim Botelho, MMA’s Director of Education; Emily Goldstein-Murphy, MMA’s Director of Natural Science; and Pauline Cronin, Nantucket Community School’s (NCS) Early Childhood Education Coordinator received the Secretary’s Award for Excellence in Energy and Environmental Education for their roles as lead organizers for the Annual Nantucket Science Festival which has been held on the third Saturday of March since 2015. Both, Kim and Pauline have been instrumental since the event’s inception and Emily joined the team in 2017. The MMA held a Science Festival for many years but it was re-invigorated in 2015.

The MMA and NCS also received special recognition from the Massachusetts House of Representatives for their collaboration on this event. The awards were presented at the Massachusetts State House by Secretary Matthew Beaton and Kris Scopinich, chair of the Secretary’s Advisory Group for Energy and Environmental Education.

Despite being short staffed during August, our busiest month, the MMA reached more families and generated more income than ever before and was voted best children’s activity on Nantucket by *Cape Cod Life* magazine. For the first time in the programs history, over 600 camp spaces were filled with a total of 617 participants.

Education

Thanks to the generosity of EGCF, a nonprofit foundation, the MMA awarded eleven partial scholarships and eleven full scholarships totaling \$9,285. This year, thirteen of twenty-two or 59% of the scholarships went to girls. This is up 4% from last year and only the second year since the scholarship began that they have been awarded to more girls than boys.

Since 2015, the MMA has been growing food for the food pantry in its Giving Garden. Campers enrolled in “Green Guardians” for 10-12 year olds and teens enrolled in the Naturalist Leadership Program, “Community Service and Ecology” for 13-16 year olds helped maintain the garden. Until 2018, the MMA shared a small garden in the Nantucket Community Garden and was only able to grow a small amount of produce. In 2018, the MMA was thrilled to finally have its own plot and thanks to the generosity of the Cape Cod Five Foundation, the Education Department was able to install a 20'x20' deer fence and purchase materials for raised garden beds and trellises to get started. In April, Jordan McHugh, a former education intern with extensive gardening experience, joined the Education Department as an extended-season Education Coordinator. In May, the MMA hosted Charlemont Academy and their students helped to build the raised beds and filled them with soil and compost. Thanks to their effort and the youth enrolled in the MMA service programs, it was an amazing season. 130 bunches of greens, 226 root vegetables, 24 squash, 9 gallons of beans, 46 pints of tomatoes, 24 peppers, 170 tomatillos, and more were delivered to the Nantucket Food Pantry!

On Saturday, September 22, 2018, the MMA joined forces with the Nantucket Conservation Foundation (NCF) for the first “All About Bats” public program. The program began with an indoor presentation by Kim Botelho and viewing of bats from the MMA’s biological collections. Following the indoor presentation, the group met up with NCF’s Danielle O’Dell who leads the research efforts for bat populations on Nantucket. This research is focused primarily on Northern Long eared bats - a population that is stable on the island and not impacted by white nose syndrome which has devastated populations across the country. During the field portion, participants learned about the research, how NCF collects data through mist netting, and had the opportunity to see four long-eared bats up-close.



In 2018, the MMA’s Director of Education, Kim Botelho, continued to serve as a Board Member and Environmental Literacy Representative for the Massachusetts Environmental Education Society (MEES). She was selected to represent MEES for the North American Association of Environmental Education’s Affiliate Workshop in Pacific Grove, CA and at the national conference in Spokane, WA. During 2018, she also began discussions with the New England Environmental Alliance to create a stronger regional network and improve resources for state boards across New England.

Mitchell House, Archives & Special Collections

As was expected, the year 2018 was action-packed, exciting, and exhausting as we celebrated Maria Mitchell's 200th Birthday. It was the MMA's opportunity to celebrate America's first woman astronomer, her accomplishments, and all that the MMA does to perpetuate and preserve her legacy.

For 2018, we continued with our popular Mitchell House programs for children, as well as adult preservation workshops on stone monument conservation, the "Dar-ing Daughters of Nantucket" walk, and the collaborative "Four Centuries Domestic Architecture" walk with Nantucket Preservation Trust and the Nantucket Historical Association. New classes are planned for the summer of 2018 - including a Mitchell House History camp that will be a week-long, all day adventure for children.

Conservation as always is a year-round task - from a focused and conservation-minded dusting and vacuuming to keep dust, insects, and mildew at bay, to focusing down on specific artifacts for their maintenance and conservation. One of the largest conservation project in 2018 was the processing of a large dinnerware set once owned by Mary and Peleg Mitchell Junior and used in the house at 1 Vestal from 1836-1902. This Ridgeway Pottery Asiatic Palaces pattern, donated by two of Peleg's and Mary's descendants - Line Farr and Martha Kent - was a perfect project for the summer intern, Kelly Bernatzky. It allowed all levels of the accession and conservation process to be completed by the intern - becoming a useful and wonderful teaching tool. And, it was a wonderful and unexpected gift. Further conservation projects included removing all artifacts from the "long closet" and cleaning its shelves and properly cleaning all of the porcelain and other objects inside. This also allowed for the better creation of space for the new acquisition noted above. We were also able to finally complete the restoration of the fence at Prospect Hill where Maria Mitchell is buried thanks in part to a grant from the Community Preservation Act.

As noted, Maria Mitchell's 200th Birthday, was a busy year. We kicked off the 200th with a "Women in Science on Nantucket" panel organized by the Mitchell House Curator and MMA Deputy Director, Jascin Leonardo Finger, and co-hosted it with the Nantucket Atheneum in March - Women's History Month. Moderated by the MMA's Director of Natural Science, Emily Goldstein-Murphy, the panelists included: Tara Riley, Town Shellfish Biologist; Regina Jorgenson, MMA Astronomer; Sarah Bois, Director of Research and Education at the Linda Loring Nature Foundation; Emily Molden, Resource Ecologist at the Nantucket Land Council; and Karen Beattie, Director of Science and Stewardship at the Nantucket Conservation Foundation. It was a well-attended event - with a great group of young female students - with great questions - from the high school.

The MMA Deputy Director and Mitchell House Curator, Jascin Leonardo Finger, was invited to write, design, and install an exhibit at the Nantucket Historical Association's Whaling Museum. Titled "Celebrating Maria Mitchell and Her

Mitchell House, Archives & Special Collections

Legacy,” the exhibit allowed little-known or seen artifacts and archives to come out of the Mitchell House and MMA Archives and Special Collections. Installed in the museum’s “Island Home Gallery”, it included items from the MMA’s other departments as well, weaving the story of Mitchell’s life and her legacy that continues today in the MMA. The exhibit opening occurred in April and will run through early winter 2019. The curator also created, designed, and installed a window at Hingham Bank on Main Street. It included images, quotes, and brief information on Maria Mitchell and the MMA – celebrating her life and legacy. Finally, the curator also created and designed two bulletin boards which were installed at the Nantucket Elementary School and Nantucket Intermediate School for Women’s History Month – the focus of course being on Maria.

The curator was also invited to speak at a Linda Loring Nature Foundation Science Pub about Nantucket women, highlighting women in science on Nantucket. And she and the MMA’s Executive Director presented at a NHA Brown Bag Lunch on Mitchell, her legacy, and the events of the 200th. Additionally, they sat for a television spot on Maria Mitchell and the 200th’s activities on NCTV and the curator was also interviewed by Brian Morris of WCAI, the local Cape and Islands NPR station, concerning Maria’s 200th.

The summer included a special Birthday Speaker series organized by the curator. David Baron, author of *American Eclipse*; Dava Sobel, author of *The Glass Universe*, *Longitude*, *Galileo’s Daughter*, and numerous other science-related books, and J. Drew Lanham, author of *The Home Place* and also an ornithologist and professor of wildlife biology at Clemson University were the invited speakers. Baron and Lanham were co-hosted at the Atheneum in June and August, while Sobel was co-hosted with the Nantucket Historical Association in July – just before Mitchell’s 200th birthday.

Of course, August 1, 2018 saw a HUGE crowd on Vestal Street with music of the period by Susan Berman and friends, falconer Tom Mullholland and Houdini[†], and children’s book author Hayley Barrett talking about her soon to be released picture book *What Miss Mitchell Saw* and completing fun activities about telescopes with children. And a smaller but continuing event – the Seven Sisters Tea – also occurred during the summer. During this event, women who attended the Seven Sisters colleges meet for a get-together to celebrate Maria Mitchell and the first women’s colleges – once of which – Vassar – Maria Mitchell taught at.

And throughout the year, the Mitchell House had numerous research inquiries and requests for use of historic images in multiple publications. This number only grew with the celebration of her 200th birthday year. Mitchell and the MMA were also the focus of multi-page articles including in *Cape Cod Life*.

The year 2018 was particularly busy as we moved the Natural Science collections to their new home in the Research Center as the site was completed and the Education Department was able to find a new home of its own as well. Additionally, the MMA continued to focus on the preservation and repair of all of our buildings, particularly on Vestal Street.



Research Center: After a spring of final touches including interior painting, HVAC completion, moving the natural science collections from Hinchman House to the new Center, and cleaning and shelving all the former circulating collection of books, the Research Center was opened to the public. On May 25, 2018, the MMA held a reception and ribbon cutting for donors to the Research Center, MMA Members, and the people who worked so hard to conserve and restore the building. Author and islander, as well as former board member, Nathaniel Philbrick and the MMA's former Director of Natural Science and also former board member, Eileen McGrath, officiated. Both Philbrick and McGrath are also MMA honorary board members. After the opening, smaller modifications and changes were made to the outside of the building, including improved landscaping.

Hinchman House: A focus was placed on the dormitory space in the winter of 2018 with new appliances to replace old, failing or broken appliances. A new furnace was installed given that the old one had finally come to its end. But with this, we were able to make some modifications and now have one new efficient hot water heater instead of two. New kitchen supplies were purchased for the interns and overnight visitors who use the dormitory space. Finally, the move of the Natural Science collections to the new Research Center allowed for the main cellar of Hinchman House to be converted into the Education Department's offices and classroom spaces. With the assistance of a matching grant from the Massachusetts Cultural Facilities Fund and a grant from the M. S. Worthington Foundation, we were able to work with Riptide Finishes to repair and coat the floor – it looks like the ocean! – and to create a walled office space for the Director of Education with Matt Anderson Carpentry and Nicholson Electrical. Improved lighting was installed and we received a donation of slightly used lab-style tables from the Eaglebrook School in western Massachusetts.

Facilities

Drake Cottage: The Administrative and dorm spaces saw some updates in 2018. These included new flooring in various places in the guest room, a new refrigerator for the dorm, and some plumbing updates in the office kitchenette.

Maria Mitchell (MMO) and Loines Observatories: An effort was started to raise funds for a new, expanded deck at Loines Observatory which will provide a better viewing experience, more benches, and a larger space for our visitors. Designs were completed by island architect Milton Rowland and much of his time was donated to the MMA. Drawings were further enhanced with full engineering plans and the MMA hopes to begin this project in 2020. Historic District Commission approval has been granted, as well as a building permit. In the fall, with a generous gift, the MMA was able to work with landscaper Greg Maskell to replant the wildflower and native species garden in front of the MMO.

Aquarium and Washington Street Properties: These sites saw various repairs, as well as a new chest freezer for the Aquarium to store food for the marine life and stand-by ice packs to be used as chillers if a chiller tank breaks down. A new hot water heater was installed, plumbing repairs were made, and various repairs were made to the decks at the Aquarium.

General: The MMA received all new signage on its buildings, allowing us to update the old signs with the newer logo of the MMA. In addition, a new way-finding sign at Milk and Vestal Streets was created to replace the old sign – allowing the MMA to add the Research Center to the map and other updates. Teak benches were also purchased. One is named in honor of Eileen McGrath, the MMA's former Natural Science Director, and in memory of Edith Andrews, the MMA's former ornithologist and Mitchell House Curator. The second bench was purchased by the family of birder Marvin Greenberg and named in his memory.

In 2018, after many years of work, the Mitchell House was finally able to restore the fence at the Mitchell family lot where Maria Mitchell is buried with several of her siblings, her aunt, and her parents. This restoration was funded with a grant from the Community Preservation Act and the fence is based on historic images. Fittingly, it was completed a few months before the anniversary of Maria's birth.



Development & Communications

The Department spent a great deal of time preparing and executing the 200th birthday of Maria Mitchell. More than twenty-two events were held ranging from small and intimate to loud and celebratory. Thanks to the Nantucket Land Bank, the MMA took over the field adjacent to the Aquarium. With a tent, lights, food, drink, and a band, the MMA celebrated the accomplishments of Maria Mitchell. The event was held Friday, August 10. Additionally, to celebrate the 200th birthday of Maria Mitchell, The Town's



Department of Culture and Tourism collaborated with the MMA to produce a walking tour of touch points in Maria's life. The Department also collaborated on and paid for enamel lapel pins featuring the 200th's logo. The pins were distributed island wide and received with great enthusiasm.

To celebrate the discovery of the comet on October 1, 1847 from atop the roof of the Pacific Bank in Nantucket, the MMA and Bank of America hosted a free cocktail event for approximately 150 people in the very place where Maria lived from 1836 - 1861.

The MMA produced its first professional video of the Maria Mitchell Association with the help of Yellow Productions, a Nantucket-based video production company. The video is approximately four minutes long and features all that the MMA has to offer. The video helps the MMA to build its image while also informing viewers about the programs and collections offered by the MMA. The video was played at the Dreamland Theater prior to the start of each movie.

As in past years, the Department created and produced the "Business Sponsor Book", which outlines how a company can become involved in supporting the MMA. Additionally, the "Summer Program Book" was produced, listing all of the programs offered by the MMA, including Summer Discovery programs.



The Nantucket Red Tie Soirée, the largest fundraiser for the MMA, was held again at the Sankaty Head Golf Club on Sunday, July 8. The silent auction had a record number of items donated and the event was sold out. Special guest for the evening was Ambassador Rufus Gifford of Denmark.

Maria Mitchell Women In Science Symposium

The 200th Birthday year closed with the highly anticipated first Maria Mitchell Women in Science Symposium. The first MMWISS was a HUGE success and sold out! After over a year of planning, it all came to fruition on October 4-5, 2019 in Wellesley, Massachusetts at the Babson Executive Conference Center. Women and men from all walks of STEM (Science, Technology, Engineering, Mathematics) were in attendance – from college students to those who were in the late stages of their careers or already in retirement. They came to celebrate Maria Mitchell and what she did for women in science and to celebrate one another. They came to hear from others, to develop real-world solutions for women and girls in STEM, and to create new paths of opportunity and a support system for women in STEM. It was a unique hands-on experience in which attendees developed solutions that could be taken back to a person's school/place of work/institution. Attendees met as a group for much of the Symposium and then met in smaller, assigned salons that provided safe spaces for people to talk about issues and how to solve them. The keynote speakers were: author Dava Sobel, Israel Munson Professor of Physics and Astronomy and Director of the Yale University Center for Astrophysics Meg Urry, Ph. D., Kate Kirby, Ph.D. the Director of the American Physical Society, and Jill Tarter, Ph.D. the Director Emeritus of SETI. The four keynotes were also the recipients of the newly revived Maria Mitchell Women in Science Award. The MMA founded this award and presented it for many years until it no longer occurred. The MMWISS was the moment to bring it back and the awardees were very excited and honored to receive the honor.

The MMWISS panels were moderated by Heather Goldstone, Ph.D. science editor at WCAI the Cape and Islands NPR Station, and panelists and topics were as follows:

Recruitment: How To Bring Women and Girls into STEM

Shirley Malcom, Ph. D., *Director of Education and Human Resources Programs, American Association for the Advancement of Science*

Christine Kelley, Ph. D., *Professor of Mathematics, University of Nebraska*

Regina Jorgenson, Ph. D., *Director of Astronomy, MMA*

Megan Spencer, *Novartis Community Exploration and Learning Lab, Novartis Biomedical Institutes*

Maria Mitchell Women In Science Symposium

Retention: Strategies for Stemming the Leaky Pipeline and Ending Unconscious Bias

Colette Salyk, Ph. D. *Assistant Professor of Astronomy, Vassar College*

Jackie MacDonald, Ph.D. *Associate Professor, Department of Environmental Sciences and Engineering, University of North Carolina*

Cecilia Arragon, Ph.D., *Professor in Department of Human Centered Design and Engineering and Senior Data Science Fellow, University of Washington*

The Future: Where Are We Going and How Do We Get There? The Future of Women and Girls in STEM

Dr. Anne LaCasce, *Associate Professor of Medicine, Lymphoma Specialist, Director of Dana-Farber/Partners CancerCare Fellowship in Hematology/Oncology, Dana-Farber Cancer Center*

Susana Widicus Weaver, Ph.D. *Associate Professor and Director of Graduate Studies Department of Chemistry, Emory University*

Russette Lyons, Ph.D., *Director of Novartis Community Exploration and Learning Lab, Novartis Institutes for Biomedical Research*

Kate Kirby, Ph.D., *Executive Officer, American Physical Society*

Sponsors of the First MMWISS were: *Dana-Farber Cancer Institute, Mount Holyoke College, Vassar College, Brainpickings.org, Schwartz Hannum PC, MassBio, Nantucket Conservation Foundation, Linda Loring Nature Foundation, American Philosophical Society, Novartis Institutes for Biomedical Research, Kenan Institute for Engineering, Technology and Science, MA Space (NASA) Grant Consortium, National Science Foundation, Tupancy-Harris Foundation, Boston Red Sox Foundation, Sheila David, Jascin Leonardo Finger, D.E. Shaw & Co., American Astronomical Society.*



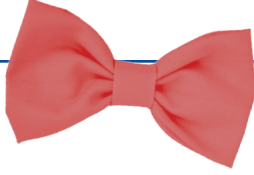
Galaxy of Support

97.7 WACK	Jack Wills
ACK 4170 w/ Peddler	Jewel in the Sea
Ambrosia	Jeweler's Gallery of Nantucket
Annie and the Tees, Inc.	Juice Bar
Atlantic	Kidding Around
Aunt Leah's Fudge	Lady Bird Lingerie
Beverly Barlow	Laura Qureshi
The Black Dog	Leggiadro
Boston Red Sox Foundation	Lilly Pulitzer
Breezin' Up	Lynx Educational Foundation
Cape Air & Nantucket Airlines	Martin McKerrow
Centre Pointe	Melissa David Salon & Spa
Centre Street Bistro	Milly & Grace
Charleston Shoe Company	Monelle
Christopher Bonelli	Nantucket Beach Chair
The Club Car	Nantucket Bike Shop
Coastal	Nantucket Book Partners
Craftmasters	Nantucket Clothing Company
Cross Rip Outfitters	Nantucket Coffee Roasters
Current Vintage	Nantucket Culinary
DATTCO	Nantucket Diva Salon
D. Dream Atelier	Nantucket Light Shop
Darya Salon & Spa	Nantucket Peddler
David Sharpe	Nantucket Pool & Spa Center
East End Gallery	The Nantucket Project
Endeavor Sailling Excursions	Nantucket Surf Club
Eric Savetsky	Nantucket Walkabout
Four Winds Craft Guild	Nantucket Whaler
Freedman's of Nantucket	Native Shoes
Fresh	Nobby Clothes Shop
Francine Ouellette	Pageo Jewelers
Force5	Parchment
Fusaro's Homemade Italian	Patina
G.S. Hill Gallery	Peter England Nantucket
Geronimo's Pet Supplies	Perch
Ginger Andrews	Ralph Lauren
Grey Salt	RJ Miller Salon & Spa
Haberdashery	Robert Frazier
Handlebar Café	Robert Miklos
Haul-Over Nantucket	Sayle's Seafood
Henley & Sloane	Schulan's Fairlawn, Inc.
Hepburn	The Sea Grille
Ice	Shari's Place
Isabel Harvey	Skar Jewelry
Island Bike Company	Skinny Dip
Island Cashmere	Slip 14
Island Company	Space
The Islander	Straight Wharf Restaurant
It's a Shore Thing	Susan Lister Locke Jeweler
J. McLaughlin	

Galaxy of Support

Merrillou & Ned Symes
The Tavern
Thai House
Toy Boat
Trinity Collection
The Westmoor Club

University of Nantucket
Valero & Sons, Inc.
The Vanderbilt Gallery
Victoria Greenhood Jewelry Design
Zero Main on Centre



Red-Tie Soirée

Business Sponsors

\$2,500

Hingham Institution for Savings
US Trust

\$1,500

Atlantic East Real Estate
Fisher Real Estate
Nantucket House Antiques &
Interior Design
Nantucket Pharmacy

Individual Sponsors

\$20,000

Bebe Archibald Poor, DVM, MS

\$5,000

John G. Archibald
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Gayle & Joseph Santucci, Jr.

\$2,500

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Anne & Chad Gifford
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Maureen Phillips & Dr. Douglas Horst

\$1,250

Mariann Berg Hundahl Appley
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Laura Debonis & Scott Nathan
John & Margaret Falk
Joe Grause
Lisa Larson
Judy Lee & Robert Schwarzenbach
Judy & John MacLeod
Nathaniel & Melissa Philbrick
Eileen Rudden & Josh Posner
William & Laurie Schutt
Ned & Merrielou Symes
Helene & Francis (Tim) Weld

Soirée Donations

William & Kathie Beattie
Ann Buttrick
Dennis & Anne Cross
Fay Gambee
Dr. Henry Gewirtz
Haul-Over Nantucket
Bruce & Ann Hall Kaplan
Ann and Hardy Oliver
Diana R. Regan

200th on the Harbor

Cisco Brewers
Ana & Michael Ericksen
Margaret & John Falk
Missy & Chris Griffiths
Tina & Michael Jemison
Toni & Martin McKerrow

Supporting Members

Business Members

\$1,000

Bartlett's Ocean View Farm
Island Lumber Co., Inc.

\$500

Fisher Real Estate
Hyline Cruises
Sylvia Antiques

\$250

Glidden's Island Seafood
Nantucket Walkabout

Individual Supporting Members

\$2,500

Susan & Michael Baer

Galaxy of Support

\$1,000

Andrew Forsyth & Kelly Williams
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Philip & Janet Villiotte
Catherine & Thomas Walkey

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Andre & Suellen Perold
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Dennis & Anne Cross
Chip Carver & Anne DeLaney
Joseph & Cheryl DiMartino
Barbara & James Duffy
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Sam & Ellen Phelan
Maureen Phillips & Dr. Douglas Horst
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Seth & Jennifer Stier
Jonathan Swain

Annual Fund

\$10,000+

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Unitrust
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John S. Weatherley Charitable Foundation
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Rita Allen Foundation
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Christine Ryan & Curt Burwell

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Vicki & Gerald Platt

Galaxy of Support

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Robert & Constance Walkingshaw
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Nantucket Home Health Care, Inc.
Nantucket Island Resorts
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Will Brown Fund
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William Wilson
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Alexandra Yurkosky
Barbara Zachary
Carlyn & Jon Zehner

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In Memory of Barbara Vigneau
Cindy & Kenneth Blackshaw
Joan H. Manley

In Memory of E. Dorrit Hoffleit, Ph.D
Carol Day
Judith Karpen

In Memory of Dr. Emilia Belserene, Ph.D
Joan H. Manley

In Memory of Edith Andrews
Ginger Andrews
Trish Pastuszak

Galaxy of Support

In Memory of John H. Cabot

Jeanne & Blakeslee Barnes

In Memory of Joyce A. Mark

Valerie Bouvier

Toriann & Tommy Pienciak

In Memory of Terrence H. Laundry

T Theory Foundation

In Memory of Marvin Greenberg

Fifi Greenberg

Toby Ann Greenberg

Kim & Tom Griswold

Kathleen Hay Designs

In Memory of Duncan Wall

Suzanne Lee Wall

In Honor of Jascin Leonardo Finger

Constance & Robert Walkingshaw

In Honor of Sadie Goetze

Nell & Mitchell Goetze

In Honor of Daniel W. Drake

Betty P. Kenan

In Honor of Gary Walker

Margaret & Peter Hoyt

Grant Support

Cape Cod 5 Foundation

CARE for the Cape & Islands

Community Foundation for Nantucket

Edith Andrews Fund

Ella George Children's Foundation

Highland Street Foundation

Massachusetts Cultural Council

M. S. Worthington Foundation

Nantucket Garden Club

Nantucket Golf Club Foundation

Nantucket Shellfish Association

National Science Foundation

NCH Community Health Fund

ReMain Nantucket Fund

Town of Nantucket - Community

Preservation Committee

Tupancy-Harris Foundation

Restricted Gifts

Adam Bloom Scholarship Fund

Drs. Margaret & John Goldman

Susan & Larry Levin

Astronomy

Association of Universities for Research in
Astronomy

Big Kid Science

Digitalis Education Solutions, Inc.

Martha Hanner

Planewave Instruments

Princeton Instruments

Barn Owl / Osprey Program

Nancy & Doug Abbey

Leanne Marie Bell

Maureen & Howard Blitman

Ruth & Robi Blumenstein

Susan & Coleman Burke

Margaret & John Falk

Sarah & William Goodman

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Sonya Keene & John Moy

Maria & Peter Kellner

Sarah & Rick Knauft

Susan & William Learnard

Sherry Lowe

Helen & James Manchester

Meg Reynolds & William McKee

Nina Pollock

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Ann & George Thom

Meredith & Richard Tolsdorf

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Birdathon

Gillian & James Duda

Elissa Gilgen

Beverly Hall

Debra Hopkins

Virginia & Richard Irwin

Sonya Keene & John Moy

Anne & Robert Kennedy
Barbara & Bill Maple
Andrew McKenna-Foster
Kat Robinson Grieder

Education Program

AI & Mary Novissimo Giving Fund -
Scholarships
Ardmore Toyota - Internships
Ella George Children's Foundation
North American Assoc. for Environmental
Education
Toyota Dealer Match Program - Internships
Stephen Welch

Loines Deck Campaign

Archibald Family Foundation
John G. Archibald
Nancy Beebe
Jeanne Berk
Susan Blount & Rick Bard
Constance & Harrington Bischof
Burwell Family
Marcia & Allan Chertok
Carol & Erik Christensen
Culligan Family
Lisa & Porter Dawson
Anne & Robert Drapeau
Jere Freedman
Jane & Joseph Gifun
Margaret & John Goldman
Amy & Brett Harsch
Benjamin P. Holder
Kimberley Homer
Elizabeth Jacobsen
Sonya Keene & John Moy
Mary Longacre
Millhiser & Dickson Families
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Mary & AI Novissimo
Maureen Phillips & Douglas Horst
Maria Popova
Ellen & Homer Ray
Mary & David Sharpe
Shuch Family
Yvette St. Jean
Esta-Lee & Harris Stone
Leigh Topham

Mitchell House

Caroline W. Farr
Happy & Samuel Shipley, III
Vassar College MMA Fellowship - Internship

Tree Project

ACKsent Design
Island Treasures LLC
Nantucket Garden Club
Nantucket Rotary Club

Natural Science

Burwell Family Fund - Bird Observation
Exhibit
Laura & Abrar Qureshi - Bay Scallop
Research

Science Speaker Series

Don Allen Auto Services
Cisco Brewers

Program Book Sponsors

ACK Dental Art
Allied Group
BPC Architecture
Christopher's Home Furnishings
Hanley Construction & Development
Hatch's Package Store
Jordan Real Estate
Killen Real Estate
Nantucket Architecture Group
Nantucket Dermatology
Nantucket Energy
Nantucket House Antiques & Interior Design
Pinwheels, Inc.
Pioneer Cleaning
Quidley & Company
Rachel Dixon LLC
The Tile Room
The Water Closet
Tixodes LLC
Wicked Island Bakery
Yellow Productions
Young's Bicycle Shop & Car Rental



Donations and Gifts

Mitchell House and the Archives and Special Collections received several gifts this year. They included:

Happy Shipley \$2,000 for use in Mitchell House Conservation

Robert⁺ and Nina Hellman - various natural science related books

Joan Manley - painting of the rear of MMA Science Library by Dan Durand, carved marble owl head on black marble by Jane Stroup (former MMA librarian)

Virginia Andrews - hand-held brass and tin lantern, ca. 1870

Line Farr and Martha Kent - dinnerware belonging to Mary and Peleg Mitchell Jr and used at 1 Vestal Street, thirty-eight pieces including platters, soup tureen, and vegetable platters in Ridgeway's Asiatic Palaces pattern, blue and white.

Line Farr \$250.00 for Mitchell House Conservation



Financial Report

THE NANTUCKET MARIA MITCHELL ASSOCIATION, INC.

STATEMENT OF FINANCIAL POSITION

DECEMBER 31, 2018

(With Summarized Financial Information for 2017)

	2018	2017
Assets		
Cash	\$ 357,355	\$ 743,360
Receivables		
Contributions	114,626	126,376
Grants	29,691	-
Other	31,959	45,051
Prepaid expenses and other assets	9,844	9,210
Investments	2,575,712	3,056,066
Note receivable	235,000	235,000
Remainder interest in property	1,270,669	1,205,568
Property and equipment, net	6,616,073	5,281,822
	<u>\$ 11,240,929</u>	<u>\$ 10,702,453</u>
Liabilities and Net Assets		
Current liabilities		
Accounts payable and accrued liabilities	\$ 152,791	\$ 173,268
Current maturities of long-term debt	12,408	-
Refundable grants	200,000	-
	<u>365,199</u>	<u>173,268</u>
Total current liabilities	365,199	173,268
Long-term debt, less current maturities	1,065,605	-
	<u>1,430,804</u>	<u>173,268</u>
Total liabilities	1,430,804	173,268
Net assets		
Without donor restrictions	6,330,984	6,691,687
With donor restrictions	3,479,141	3,837,498
	<u>9,810,125</u>	<u>10,529,185</u>
Total net assets	9,810,125	10,529,185
	<u>\$ 11,240,929</u>	<u>\$ 10,702,453</u>

Financial Report

THE NANTUCKET MARIA MITCHELL ASSOCIATION, INC.

STATEMENT OF ACTIVITIES

YEAR ENDED DECEMBER 31, 2018

(With Summarized Financial Information for 2017)

	Without Donor Restrictions	With Donor Restrictions	Totals	
			2018	2017
Operating activities:				
Revenue and support				
Contributions	\$ 323,874	\$ 35,392	\$ 359,266	\$ 341,347
Grants	146,434	31,235	177,669	222,860
Programs	410,266	-	410,266	302,421
Admissions	54,019	-	54,019	55,988
Memberships	84,750	-	84,750	93,895
Museum Shop	17,314	-	17,314	16,665
Special fundraising events				
Gross proceeds	182,006	-	182,006	160,027
Less: Direct benefit to donors	78,899	-	78,899	44,699
Net revenue from special fundraising events	103,107	-	103,107	115,328
Investment return designated for operations	129,050	-	129,050	142,550
Rental income	49,570	-	49,570	70,145
Interest income	2,943	-	2,943	2,782
Net assets released from restriction				
Satisfaction of program restrictions	123,049	(123,049)	-	-
Total revenue and support	1,444,376	(56,422)	1,387,954	1,363,981
Expenses				
Program services	1,140,087	-	1,140,087	1,026,070
Management and general	470,448	-	470,448	391,737
Development	277,926	-	277,926	264,721
Total expenses	1,888,461	-	1,888,461	1,682,528
Change in net assets from operating activities	(444,085)	(56,422)	(500,507)	(318,547)
Non-operating activities:				
Investment return, less amounts designated for operations	(34,008)	(247,896)	(281,904)	346,821
Contributions and grants restricted for capital activities	-	10,000	10,000	36,772
Loss on uncollectible contributions receivable	-	(11,750)	(11,750)	(22,500)
Donation of remainder interest in property	-	65,101	65,101	-
Net assets released from restriction				
Satisfaction of capital related restrictions	117,390	(117,390)	-	-
Change in net assets from non-operating activities	83,382	(301,935)	(218,553)	361,093
Change in net assets	(360,703)	(358,357)	(719,060)	42,546
Net assets, beginning of year	6,691,687	3,837,498	10,529,185	10,486,639
Net assets, end of year	\$ 6,330,984	\$ 3,479,141	\$ 9,810,125	\$ 10,529,185

Board, Staff, Interns & Volunteers

Board of Directors as of October 17, 2018

Helene Weld, President (*June 2018 -*)
Deborah Manus (*June 2016 - June 2018*)
Judy MacLeod, Vice President
Curt Burwell, Treasurer
Joseph Santucci, Jr., Clerk
Richard Bard
Beverly Barlow
Margaret Falk
Chris Griffiths
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Toni McKerrow
Michael Nelson
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Katherine Rhode, Ph.D.
Brian Sullivan
Edward Symes III
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Daniel Drake, Joan Gulley, Judith Lee,
Malcolm MacNab, M.D., Ph.D.,
Eileen McGrath, Nathaniel Philbrick,
Anne Parks Strain, Derek Till

Administration

Executive Director

David Gagnon

Development Director

George Donnelly

Associate Director of Development and Special Projects

Shelley Dresser

Executive Administrator and Market- ing/Event Coordinator

Trinity Foreman (*until August 2018*)
Lydia Gullicksen (*Starting in September
2018*)

Finance & Information Administrator

Katharine Robinson Grieder

Data Specialist

Vince Murphy

Marketing Intern

Lydia Gullicksen

Natural Science

Director of Natural Science

Emily Goldstein-Murphy, Ph.D.

Natural Science Affiliated Staff

Robert S. Kennedy, Ph.D.
*Senior Research Fellow, MMA
and Department of Ornithology,
Harvard University Museum of
Comparative Zoology*

Valerie A. Hall, Ph.D.
Research Associate, Scallops

Andrew McKenna-Foster
Research Associate, Spiders

Andrew McCandless
Research Associate, Eel Grass

MMA Natural Science Museum in Hinchman House

Virginia Andrews
Field Ornithologist
Julia Blyth
Collections Manager

Interns

Elisabeth Sorrows
B.A., Earlham College

Julia Barrone
B.S., Framingham State University

Emily Gagne
Junior, University of Maine

Board, Staff, Interns & Volunteers

MMA Aquarium

Kara Falck, Manager
Junior, Providence College

Jack Dubinsky, Manager
B.A., The Evergreen State College

Interns

Isabella Gaw
B.A., Skidmore College

Kylie Schubert
*Senior, Northern
Arizona University*

Setse Bush
Junior, Vassar College

Astronomy

Director of Astronomy

Regina Jorgenson, Ph.D

Telescope Engineer

Gary Walker

Astronomy Interns

Anne Blackwell
College of William and Mary

Katie Chapman
Colgate University

Jay Chittidi
Vassar College

PJ Gibson
Willamette University

Alexandra Mannings
University of Alabama

Caeley Pittman
William Jewel College

Affiliated Astronomers

Dr. Terri Brandt
NASA, Goddard Space Flight Center

Dr. Suvi Gezari
University of Maryland

Dr. Lindsay King
University of Texas, Dallas

Dr. Rodolfo Montez, Jr.
*Chandra X-Ray Center, Smithsonian
Astrophysical Observatory, Center for
Astrophysics | Harvard & Smithsonian*

Dr. Philip Muirhead
Boston University

Education

Director of Education

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Education Coordinator

Jordan McHugh

Assistant Camp Director/Aquatics Director

Chris Coomey

Discovery Program Instructors

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Nicholas Brown
Chi Bui
Ann Carter
Eileen Daley
Samantha Flagg
Emily Herz
Kaitlin Hunt
David Paasche
Victoria Read
Lydia Silber
Alexandra Webb

Pop-Up Science Intern

Saoirse Ryan

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Mitchell House, Archives & Special Collections

MMA Deputy Director and Mitchell House Curator

Jascin N. Leonardo Finger

Mitchell House Intern

Kelly Bernatzky
Vassar College 2019

Volunteer Tour Guide

Avery Hylton
Patricia Michaelson, Ph.D

Student Volunteer

Keira Reidy-Dack

Natural Science Volunteers

Adult Volunteers:

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Trish Pastuzak
Scott Leonard
Annie Mendelsohn
Vincent Murphy
Tucker Taylor
Saoirse Ryan
Zach Dusseau
Kim Horyn
Danielle O'Dell
Seth Englebourg
Jed Williams
Cormac Collier
Sarah Bois
Patrick Gregorich
Cailin Duke
Tobias Glidden
Cheryl Beaton

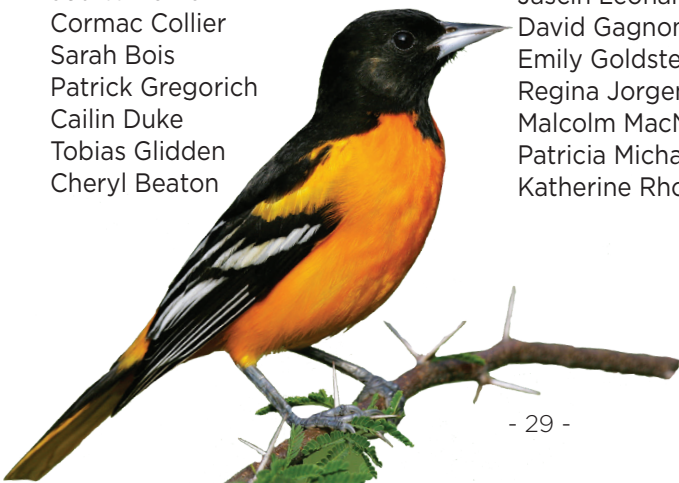
Museum and Aquarium Student Volunteers:

Ava Waig	Angus Gauffin
Gus Von Lazar	Mairead Burwell
Cat Buccino	Maya Albright
Kyle Steele	Daniel Blatt
Elizabeth Pellegrini	Shea Lyden
Isabella Lopez	Alex Yuen
Clyde Kelley	Derek Sokol
Stefano Chiampo	Alex Ratowski
Brogan O'Hearn	Matthew Kihiczak
Connor Brennan	Katherine Kihiczak
Faizaan Qureshi	Mia Sheyner
Olivia Barlow	Tori Dixon
Andrew Breckenridge	Rachel Blatt
Sophia Roosevelt	Gigi Griffith
Chris Petrella	Daisy Hancock
Chase Dallin	Lucy Ward
Juliana Brenner	Hayley Bidwell
Greta Leissa	Jenna Genthner
Mason Kucik	
Sydney Bramen	

Maria Mitchell Women in Science

Symposium Committee Members:

Sarah T. Bois, Ph.D.
Joel Bowman, Ph.D.
Sheila David
George Donnelly
Shelley Dresser
Jascin Leonardo Finger
David Gagnon
Emily Goldstein Murphy, Ph.D.
Regina Jorgenson, Ph.D.
Malcolm MacNab, M.D., Ph.D.
Patricia Michaelson, Ph.D.
Katherine Rhode, Ph.D.



Research

The MMA conducts several ongoing research programs both on its own and with various collaborators.

American Burying Beetle

Lou Perrotti, *Director of Conservation Programs, Roger Williams Park Zoo*

Cynthia Corsair, *U.S. Fish and Wildlife Service*

Anita Barstow, *U.S. Fish and Wildlife Service*

Brandon Quinby, *Purdue University, Ph.D. student*

Scallops, Shellfish

Dr. Steve Estabrooks, *Scallop Researcher*

Tara M. Riley, *Town of Nantucket Shellfish Biologist*

Dr. Valerie Hall, *MMA Scallop Researcher*

Horseshoe Crabs, Insects, Bats

Dr. Derek Perry, *Massachusetts Division of Marine Fisheries*

Dr. Jennifer Karberg, *Research Supervisor, Nantucket Conservation Foundation*

Danielle O'Dell, *Research Technician/Field Supervisor, Nantucket Conservation Foundation*

Snakes, Birds

Danielle O'Dell, *Research Technician/Field Supervisor, Nantucket Conservation Foundation*

Scott Smyers, *Environmental Consultant, Oxbow Associates Inc.*

Joe Martinez, *Curatorial Assistant, Museum of Comparative Zoology*

Green Crabs

Emily Molden, *Nantucket Land Council*
Cormac Collier, *Nantucket Land Council*

Jeff Carlson, *Natural Resources Department, Town of Nantucket*
J.C. Johnsen, *Natural Resources Department, Town of Nantucket*

Other

Jessica Cundiff, *Curatorial Associate/Collections Manager, Museum of Comparative Zoology, Sankaty fossils*
Karen Beattie, *Manager of the Department of Science and Stewardship, Nantucket Conservation Foundation*

Dr. Kevin Esvelt and Joanna Buchthal, *MIT, Mice Against Ticks Project*

Herbarium

Roberta Lombardi, *Herbarium Assistant, UMass Amherst*
Pam Polloni, *Research Assistant, Woods Hole Oceanographic Institute*
Kelly Omand, *Research Technician/Field Supervisor, Nantucket Conservation Foundation*



Collaborators

The Maria Mitchell Association is proud to establish collaborations with other non-profit organizations and universities in order to offer the best in programs and to conduct research vital to understanding and preserving Nantucket's natural areas, history, and to pursue cutting edge research in astronomy using the MMA's telescopes and leading telescopes around the world and in space.

ACKclimate	Massachusetts Institute of Technology	National Research Council of Canada
American Society of Mammalogists	U.S. Fish and Wildlife Service	Oxbow Associates, Inc.
American Arachnology Society	Massachusetts Division of Marine Fisheries	Pontificia Universidad Católica de Chile
American Association of Variable Star Observers	Museum of Comparative Zoology	Preservation Institute Nantucket
Artists Association of Nantucket	Jason Bridges, Nantucket Bike Tours	Prospect Hill Cemetery Association
Boston University	Town of Nantucket Natural Resources Department	Purdue University
Cape Cod Museum of Natural History	Monomoy Charters	Roger Williams Park Zoo
City University of New York	Montessori Children's House of Nantucket	Rotary Club of Nantucket
Connecticut College	Nantucket Atheneum	Sconset Trust
Egan Maritime Institute	Nantucket Biodiversity Initiative	Shearwater Excursions
European Southern Observatory	Nantucket Boys and Girls Club	Town of Nantucket
International Astronomical Union	Nantucket Community Sailing	The Trustees of Reservations
Josh Eldridge, "Critter Cruises"	Nantucket Community Television	Tuckernuck Land Trust
Mark Genthner, <i>Just Do It, Too</i>	Nantucket Conservation Foundation	University of Arizona
Harvard-Smithsonian Center for Astrophysics	Nantucket Girl Scouts	Universidad Nacional Autónoma de México
Harvard University Museum of Comparative Zoology	Nantucket Historical Association	University of California, Davis
The Irish Wildlife Trust	Nantucket Islands Land Bank	University of Hawaii
Keck Observatory	Nantucket Land Council	UMass Amherst
Linda Loring Nature Foundation	Nantucket Lighthouse School	UMass Boston Nantucket Field Station
Long Island University	Nantucket Marine & Coastal Resources Department	UMass Dartmouth School of Marine Science & Technology
The Mammal Society (UK)	Nantucket Preservation Trust	University of North Carolina at Charlotte
Marine Biological Laboratory	Nantucket Public Schools	University of Paris, France
Massachusetts Audubon Society	Nantucket Shellfish Association	University of Rhode Island
Massachusetts Division of Marine Fisheries	Nantucket Shipwreck & Lifesaving Museum	University of Western Australia
Massachusetts Space Grant Consortium	National Collaborative of Women's History Sites	U.S. Fish and Wildlife Service
	National Museum of Natural History	The Wildlife Society
		Woods Hole Oceanographic Institute
		Vassar College
		Yale University

Publications & Presentations

Astronomy Publications:

Karim, Md T., Fox, A., Jenkins, E., Bordoloi, R., Wakker, B., Savage, B., Lockman, F., Crawford, S., Jorgenson, R. A., Bland-Hawtorn, J., "Probing the Southern Fermi Bubble in Ultraviolet Absorption Using Distant AGNs," 2018, ApJ, 860, 98.

Beltz, H., Jorgenson, R. A., Rafelski, M. "A High Redshift Survey of Lyman Limit Systems." 2018, American Astronomical Society Meeting Abstracts #231, #357.02.

Ayers, M., Gezari, S., & Liu, T. "Searching for Signatures of Supermassive Black Hole Binaries." 2018, American Astronomical Society Meeting Abstracts #231, #347.18.

Benjamin, T., & Brandt, T. J. "Investigating y-ray Emission from the Westerlund 1 Massive Star Cluster." 2018, American Astronomical Society Meeting Abstracts #231, #344.14.

Bowyer, R. "Mapping Dark Matter in Simulated Galaxy Clusters." 2018, American Astronomical Society Meeting Abstracts #231, #252.10

Brzycki, B., & Silvia, D. "Observational Tracers of Hot and Cold Gas in Isolated Galaxy Simulations." 2018, American Astronomical Society Meeting Abstracts #231, #149.53.

Thomashow, E., Jorgenson, R. A., Strelitski, V., Walker, G., Maria Mitchell Observatory (MMO) Research Experiences for Undergraduate (REU) Interns, "Two-Decade Monitoring of MWC349 in Optical and Radio: New Results." 2018, American Astronomical Society Meeting Abstracts #231, #136.10.



Mitchell House Presentations:

Nantucket Historical Association
Brown Bag Lunch - Jascin N.
Leonardo Finger Curator and
Deputy Director and David
Gagnon, MMA Executive
Director - Maria Mitchell's 200th.



MARIA MITCHELL
AMERICA'S FIRST WOMAN ASTRONOMER



**Maria
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Nantucket's
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