

EDUCATION PROGRAMS

2018-2019



SUFFOLK COUNTY
VANDERBILT
Mansion | Museum | Planetarium

The Vanderbilt Museum Education Department

The Vanderbilt Museum and Planetarium offers quality programs that meet the specific needs of K-12 educators in New York. We support New York State learning standards and practices with special emphasis on STEAM education. Our educators use the museum and planetarium's unique resources to offer innovative programs that encourage student involvement in the learning process by creating, listening to exciting stories, seeing new and amazing things, and through play and discovery.

Many exhibition and program themes focus upon Long Island's Gold Coast Era. Programs also concentrate on William K. Vanderbilt II's desire that his marine, natural history, and ethnographic collections promote appreciation and understanding of the marvelous diversity of life, other cultures, and scientific knowledge. Planetarium programming, more specifically, focuses on scientific knowledge and seeks to capture Mr. Vanderbilt's sense of adventure and exploration through state-of-the-art entertainment.

**All programs can be tailored to meet the requirements of students with special needs.
Please contact our reservationist for further information.**

**For customized programs, see contact details for Lorraine S. Vernola (Planetarium) and
Beth Laxer-Limmer (Museum Education) in the staff listings, in the Planning Your Visit section.**



Learning about the wonders of ocean life



Vanderbilt educator teaches students about corals and shells



*"Thank you for teaching me things
that I would never imagine."
4th Grade Student,
*California Avenue Elementary School,
Uniondale**

Students study and make sketches of specimens in the Hall of Fishes

PLANETARIUM PROGRAMS

Planetarium Fulldome Shows

A “fulldome” show is an award-winning, pre-recorded planetarium program. Each show is 30 minutes long and, with the addition of a 30-minute star talk, becomes a one-hour program. “Season of Light” is 55 minutes long with no star talk.

To Space and Back – Grades 4 - 12

To Space and Back explores how our modern lives have been changed by international space program discoveries – from devices we use daily to tools that make medicine and engineering breakthroughs possible.

Surgeons use a “cool” laser developed to study the Earth’s atmosphere from space to safely vaporize blockages in arteries, allowing blood to flow freely. Cell phones and their apps rely on satellite communications, vital products of space technology. These technologies, which help us to discover a universe of unimaginable scale and beauty, also influence the way we live. This program includes a live Star Talk.

Dynamic Earth: Exploring Earth’s Climate Change – Grades 6 - 12

Dynamic Earth explores concepts and terms essential to understanding climate: the relationship of Earth and the Sun; life and the carbon cycle; plate tectonics and its role in the carbon cycle; comparison with Venus; and perspective on climate change.

Stars – Grades 4 - 12

Every star has a story. Some are as old as time, faint and almost forgotten. Others burn bright and end their lives in powerful explosions. New stars are created every day, born of vast clouds of gas and dust. Through every phase of their existence, stars release the energy that powers the Universe. Journey to the farthest reaches of the galaxy and experience both the awesome beauty and destructive power of Stars.

Earth, Moon and Sun – Grades 3 - 4

This Planetarium show explores lunar phases, and lunar and solar eclipses. Also covered are the characteristics of the Earth, Moon, and Sun – including craters formed by asteroid and meteor impacts, Maria (seas), mountains and NASA’s historic lunar landing.

Two Small Pieces of Glass: the Amazing Telescope – Grades 4-12 – New!

Follow two students as they interact with a female astronomer at a star party. Along the way, the students learn the history of the telescope from Galileo’s modifications to a child’s spyglass – using two small pieces of glass – to the launch of the NASA/ESA Hubble Space Telescope and the future of astronomy. This show, which aims to engage and appeal to audiences of all ages, explores the wonders and discoveries made by astronomers over the last 400 years.

Season of Light – Family audiences

(December only)

This program – an elegant, sophisticated, non-denominational show for the winter holiday season – includes some astronomy. Find out about Northern winter constellations, why there are seasons, and possible astronomical explanations for a “star over Bethlehem.” This recorded program runs 35 minutes, preceded by a 15-minute live Star Talk.

PLANETARIUM LASER SHOWS – NEW! 25 minutes

Since the dawn of time, we have sought to understand the nature of the universe. Before the advent of tools for studying earth and sky, our ancestors personified the heavens and forces of nature with their gods and goddesses. Take a journey through time and space and be greeted by constellations, sail across a starry night sky, and experience the wonders of our universe told with story and laser light.

Paradigm Shifts and Legends of the Night Sky: Perseus and Andromeda

The story of Perseus and Andromeda, which represents the fall constellations.

Paradigm Shifts and Legends of the Night Sky: Orion

The story of Orion the Great Hunter, which represents the winter constellations.



Planetarium – Jennifer Vacca photo

PLANETARIUM LIVE LECTURE PROGRAMS

One hour

Let’s Look Up! Pre-K & Kindergarten

“Stormy the Cat” and “Rocket the Dog” introduce young students to the wonders of

the sky. They learn how the Earth spins or rotates as it orbits the Sun. Stormy shows how we predict weather by observing different clouds. Children meet “Oscar the Sun,” who sings about the Sun and its features. Rocket gives a nighttime talk about the stars, constellations and the Moon. We join Stormy and Rocket in their homemade space ship and blast off to visit and learn about the planets.

Space Adventure on the Moon Grades 1 - 2

What is the Harvest Moon? Why does the Moon’s shape change? This introduction to the night sky has the answers. The show discusses the properties of the Sun, our closest star, and how they affect weather through the Water Cycle.

Students view the night sky, discuss visible planets and constellations, and learn about the Moon’s origin and changing phases as it orbits the Earth. After a trip to the Moon, we examine its features and watch Apollo lunar-mission astronauts perform a gravity experiment. Back at school, students can replicate this experiment and observe the outcome.

Take a Wild Ride Through the Solar System
Grades 1 - 3

How do stars and planets differ – and how can you tell them apart when you view the night sky? The program reviews the definitions of stars and planets. Students observe the Earth rotating as it revolves around the Sun and learn about the Sun’s features and their effect on the Earth through weather and the Water Cycle. We view the current night sky and discuss constellations and their mythological origins. Students observe the Moon’s phases during the month and which Moon phase occurs that night. Our star trip into space allows an in-depth study of each planet and a comparison with our own planet’s characteristics.

The Vital Triangle **Grades 4 - 6**

What are the reasons for the seasons? What causes an eclipse? To answer these questions, this program focuses on the relationships among the Sun, Earth and Moon and their individual characteristics. We observe how these objects rotate and revolve in our solar system models, and why we see the same side of the Moon. We discuss lunar phases and watch the Moon change shape during the month. We explore how the Sun, Moon and Earth affect one another through tides, lunar and solar eclipses, and seasons.

Exploring the Solar System **Grades 5 - 8**

This in-depth look at the solar system – which uses NASA’s latest information – includes the Sun, Planets, Dwarf Planets, Asteroids, Kuiper Belt and Oort Cloud of Comets. We review the definitions of stars and planets, geocentric and heliocentric solar system models, and the formation of stars and solar systems in nebulae. We learn how to view Polaris to determine compass points in the night sky and which direction to face to observe the Sun, Moon and the planets.

Earth Science Review – NEW! **Grades 8-12**

This program covers the topics in the Astronomy section of the Earth Science Regents exam. Information covered: rotation and revolution of the Earth, position of the rising Sun throughout the year, elevation of Polaris with changing latitude, evidence of Earth’s rotation and revolution, identifying major constellations, stellar evolution, star trails, and expansion of the universe. Please call to customize this section for your classes.

“I would describe the educator as a storyteller who completely captures the attention of her audience. Her enthusiasm and passion for sharing of knowledge is amazing.”
Camp Avenue School, North Merrick

MUSEUM PROGRAMS IN HISTORY
AND SCIENCE

Exploring the Universe: the Vanderbilt’s Traveling Astronomy Outreach Program – NEW!

Grades 3-12 | 90 minutes

In this unique, interactive STEAM experience, students explore astronomy through demonstrations, hands-on activities and thought-provoking projects. The curriculum supports New York State Next Generation Science Standards and engages students through scientific inquiry. Students participate in a three-part astronomy course including a multi-media presentation, a small group activity, and a solar telescope observation lab.

To register, call Vanderbilt astronomy educator Roger Ledgister, 631-854-5548.

Science Safari **Grades Pre-K - 4 | One Hour**



Observing animals in their habitats

Join us on safari! Discover the diversity of nature represented in the collections of the Memorial Wing and Stoll Wing wildlife dioramas. This program includes a hands-on examination of preserved mammal, reptile and bird

specimens.

Sea Search **Grades Pre-K - 5 | One Hour**

Come and explore William Vanderbilt’s marine collection and discover the wonder of the planet’s oceans. This program includes a hands-on examination of preserved invertebrate, fish and mammal specimens.

Sharks **Grades 1 - 5 | One Hour**

Visit the Hall of Fishes and wildlife dioramas and discover the fascinating variety of sharks in the world’s oceans. Students will examine preserved shark specimens and create shark-tooth necklaces.

The Gold Coast **Grades 4 - 8 | One Hour**

Open a door to Long Island history with a visit to William Vanderbilt’s summer estate, Eagle’s Nest. Tour the Spanish Revival mansion and discover Vanderbilt’s passion for automobile racing, yachting and collecting, and learn about the culture of Long Island during the country-house era of the early twentieth century.



Rosamond and William Vanderbilt

The World of Mr. Vanderbilt
Grades 2 - 5 | One Hour

Explore William Vanderbilt’s collections of natural-history specimens and cultural artifacts and appreciate the beauty of the estate’s architecture and landscape in every

season. This program includes tours of the Hall of Fishes, Memorial Wing galleries, wildlife dioramas, courtyards, and gardens.

Animal Habitats

Grades 1 - 4 | Two Hours

Tour the Memorial and Stoll Wings, come face-to-face with animals in naturalistic settings and discover the diversity of life from the rainforests to the Sudan grasslands. This program includes a hands-on examination of preserved specimens and the creation of individual dioramas.

Butterflies and Moths

Grades 2 - 4 | Two Hours

William Vanderbilt’s global collection of butterflies and moths offer an up-close encounter with some of the planet’s most magnificent creatures. Students will enjoy using costumes to illustrate the characteristics of insects. This program includes a hunt for specimens and a creative project.

Egyptian Mummies

Grades 5 - 8 | Two Hours



Creative projects

In 1931, William Vanderbilt traveled around the world on his ocean-going yacht, Alva. In Cairo, Egypt, he purchased a mummy and sarcophagus for his museum. Students will examine CT scans and X-rays that reveal information about the life and death of this ancient person. This program includes a slide presentation and a creative project.

Hawaii and the Islands of the South Pacific
Grades 2 - 5 | Two Hours

Aloha! Discover the unique cultures and natural world of the islands of the South Pacific through William Vanderbilt’s collections. Tours of the Memorial Wing galleries include a hunt for cultural artifacts and invertebrate specimens. The program concludes with a creative project of replica outrigger canoes.

Identification and Classification
Grades 4 - 8 | Two Hours

In 1926, 1928 and 1931, William Vanderbilt explored the world’s oceans in search of marine specimens for his museum. He employed scientists and artists to identify and illustrate his finds. Visit the Hall of Fishes and Invertebrate Gallery, discover the diversity among the global collections of marine animals, and explore taxonomy. Students examine preserved specimens and create individual watercolor illustrations of them.

If Walls Could Talk:
The Architecture of a Gold Coast Mansion
Grades 4 - 8 | Two Hours

Visit Eagle’s Nest and discover the eclectic personality of William Vanderbilt’s summer residence. Tour the Mansion, visit the Memorial Wing galleries, and search for architectural elements in the courtyard. This program concludes with students creating replica castle doors.

Marine Habitats

Grades 3 - 6 | Two Hours



Learning about marine invertebrates

Visit the marine collections of William Vanderbilt and explore the vertical distribution of life found in the open ocean. This program includes an examination of preserved invertebrate, fish and mammal specimens and a creative project.

Netherlands to New York

Grades 4 - 8 | Two Hours

Come visit the summer residence and collections of William K. Vanderbilt II and discover how the Vanderbilt family contributed to the development of New York State.

The world of Mr. Vanderbilt

Grades 6 - 8 | One Hour

Explore William Vanderbilt's collections of natural-history specimens and cultural artifacts and appreciate the beauty of the estate's architecture and landscape in every season. This program includes tours of the Hall of Fishes, Memorial Wing galleries, wildlife dioramas, courtyards, and gardens.



Sketching specimens in the Hall of Fishes

Scientific illustration

Grades 7 - 12 | Two hours

Between 1920 and 1935, William K. Vanderbilt II commanded voyages of marine discovery throughout the world. Artist and curator William Belanske aided in scientific investigation,

and recorded specimens to be included in Vanderbilt's published journals. Scientists from the American Museum of Natural History provided scientific classification for the collection, and various illustrators contributed articulate renderings of marine invertebrates for the accompanying catalogs. Students tour the Hall of Fishes, explore the structure of preserved fish and marine invertebrates, and learn about the methods of preservation used in the collections. Each student will complete an individual illustration in watercolor.

Planetarium cover photo by Jennifer Vacca

"Very patient and explained information well to English language learners."

Milton L. Olive Middle School, Wyandanch



Above: Educator talks about marine specimens; below: Terrace view of Northport Bay



SUFFOLK COUNTY

VANDERBILT

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Please visit www.vanderbiltmuseum.org
for further information on each program.

Fees per Person

One-hour Museum program.....\$8
 One-hour Museum outreach program
 \$9 (minimum 20 students)
 Two-hour Museum program.....\$12
 One-hour Planetarium program ... \$8
 Extended Planetarium program.....
 add \$4 per additional half-hour *

One-hour Museum program and
 Planetarium show..... \$13
 Two-hour Museum program and
 Planetarium show..... \$16
 * *School trips can be customized by
 adding 30-minute shows*

One complimentary ticket will be
 issued for every 25 paid admissions
 that are booked on the same day of the
 school trip. There is a \$1 discount per
 person for booking trips that will take
 place during September, January, and
 February.

Timetable

One-hour museum programs begin at
 10:00 a.m., 11:15 a.m., and
 12:45 p.m.,
 Two-hour museum programs begin at
 10:00 a.m., and 12:15 p.m.
 Planetarium shows begin at 10:00 a.m.,
 11:15 a.m., and 12:45 p.m.

Contract

Once a reservation is made, a contract
 will be sent with program descriptions
 and directions. Please review the
 information, sign, and return a copy
 within 30 days with the deposit or your
 reservation will be cancelled.

Payment

To secure the reservation, a \$75 deposit
 is due within 30 days of booking your
 trip. The balance is required 30 days
 prior to your visit. The deposit will be
 refunded if the trip is cancelled 90 days

prior to the trip date. Program fees can
 be paid by check or major credit card.
 Purchase orders referencing the trip
 date, reservation number or program
 name, and number of participants
 should be mailed or faxed directly to
 631-854-5530. Any reservations added
 to the trip that are not included in the
 original purchase order must be paid
 for in advance.

Cancellations

Deposits cannot be refunded for trips
 cancelled within 90 days of the trip
 date. Groups will be charged for all
 students reserved on the contract.
 The Museum must be notified of any
 changes in attendance numbers at
 least 30 days prior to your trip. We may
 not be able to accommodate additions
 and cannot issue refunds for absences.

Arrival Time

Please arrive 15 minutes before the
 start of your scheduled program.
 Programs begin promptly, and we
 cannot accommodate late-comers.

Lunch

Students should bring a bag lunch.
 Picnic tables are available in the upper
 parking lot. The Museum does not have
 indoor lunch facilities.

Accessibility

The Mansion and Museum are
 partially accessible. However, we will
 make reasonable accommodations for
 individuals and groups. Please inform
 the Reservations Office in advance.

Attire

There is considerable walking between
 buildings, and programs are held rain
 or shine. Sneakers and flat walking
 shoes are recommended.

Security

The Vanderbilt has a professional
 security staff and all Museum property
 and buildings are under 24-hour video
 surveillance.

Gift Shop

When you make your reservation, you
 may request that the Museum opens
 the Gift Shop. Additionally, you may
 arrange for advanced purchases of
 certain gift items.

Weather-Related Museum Closings

The Museum will be closed when the
 Harborfields School District is closed
 due to inclement weather. In the event
 of a delayed opening in Harborfields,
 please call
 631-854-5539 or 631-854-5579 to see
 if we are open.

**School visits are by appointment only.
 Please Call the Reservations Office at
 631-854-5539 to schedule a visit.**

Assistant Director of Public Programming

Lorraine S. Vernola
 631-854-5538
lorraine@vanderbiltmuseum.org

Manager of Museum Education

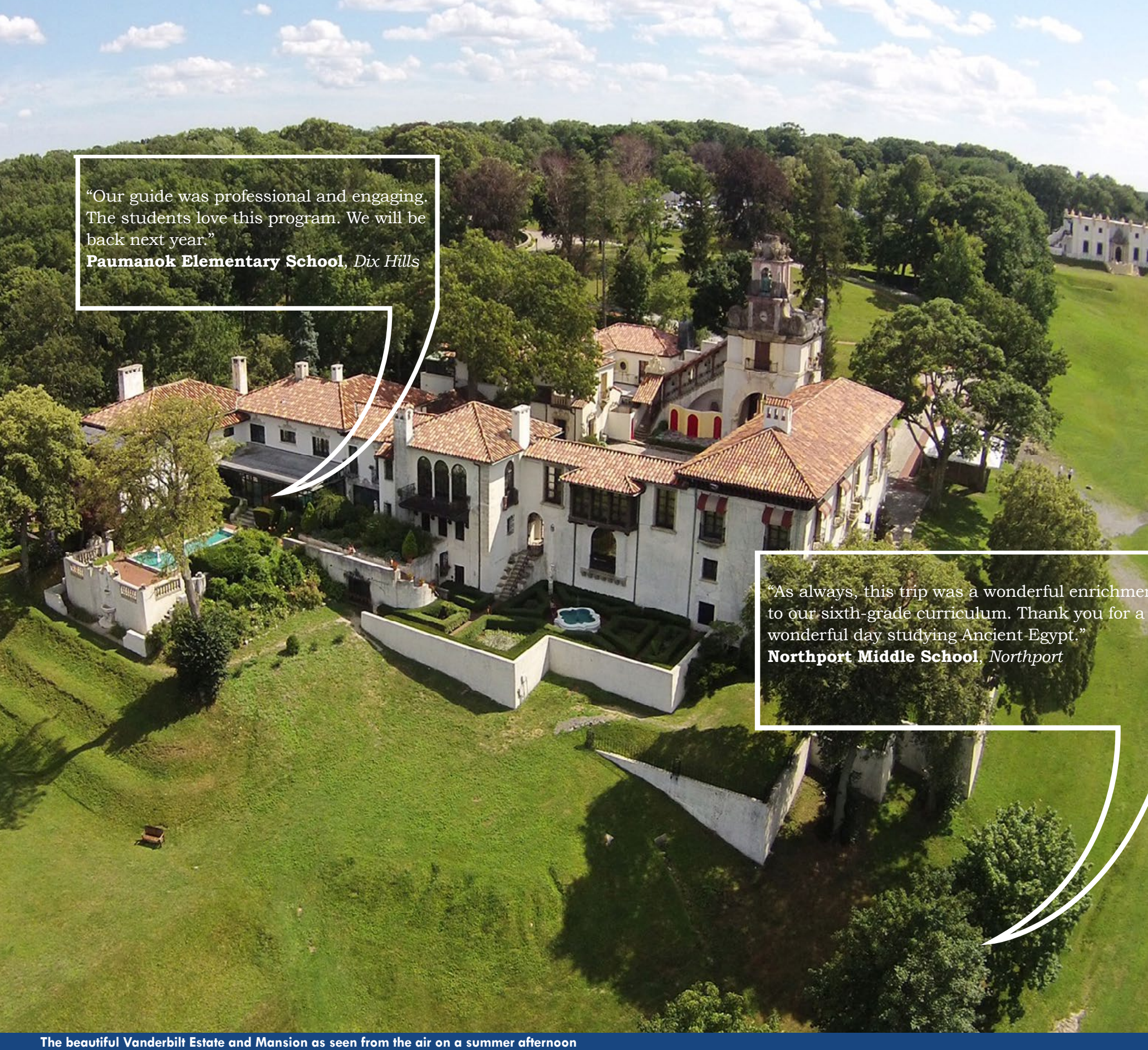
Beth Laxer-Limmer
 631-854-5552
beth@vanderbiltmuseum.org

Astronomy Outreach Educator

Roger Ledgister
 631-854-5548
roger.ledgister@gmail.com

Reservations Coordinator

Dawn Vendryes-Jackson
 631-854-5539
dawn@vanderbiltmuseum.org



"Our guide was professional and engaging.
The students love this program. We will be
back next year."

Paumanok Elementary School, Dix Hills

"As always, this trip was a wonderful enrichment
to our sixth-grade curriculum. Thank you for a
wonderful day studying Ancient Egypt."

Northport Middle School, Northport



The Hall of Fishes: World's largest collection of pre-atomic era marine specimens



Students enjoy a view of the estate and water from The Hall of Fishes



Students show the rain sticks they created

"My high school Astronomy classes and I were very impressed with the Planetarium and staff. Lorraine helped me plan every detail of our customized trip: two Planetarium programs of our choice and a guided Star Talk.

"Students were absolutely blown away by 'Black Holes' and 'To Space and Back.' Our stellar experience was educational and exciting, a great way to expose science students to the enchanting world of astronomy. I will be planning a Planetarium field trip for all of my future astronomy classes!"

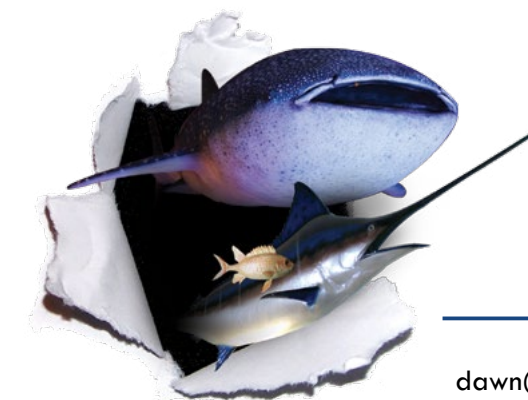
Jenny Serigano, Ward Melville High School Physics Department

GEMINISTAR III

The Reichert Planetarium's advanced Konica Minolta Star Ball and projector

WHAT MAKES THE VANDERBILT UNIQUE

- › Largest planetarium on Long Island
- › Significant natural history collections
- › 22 wild-animal habitat dioramas
- › World's largest taxidermied fish: 32-foot Whale Shark
- › Largest assemblage of privately-collected, pre-atomic era marine specimens
- › Historic mansion is a time capsule of the Great Gatsby era



PO Box 0605
180 Little Neck Road
Centerport, NY
11721-0605

631-854-5539
dawn@vanderbiltmuseum.org
vanderbiltmuseum.org



INTERNATIONAL
IPS
PLANETARIUM SOCIETY, INC.



DISCOVER THE VANDERBILT