

CARNEGIE MUSEUM OF NATURAL HISTORY

PROGRAMS FOR  
**SCHOOLS &  
TEACHERS**

2011-2012 SCHOOL YEAR



## Programs for Schools & Teachers

### 2011-2012 School Year

Carnegie Museum of Natural History advances science literacy, generates new scientific knowledge, and inspires visitors of all ages to become passionate about nature and science.

For information about the programs listed in this brochure as well as other educational programs, visit [www.carnegiemnh.org/programs](http://www.carnegiemnh.org/programs) or call 412.622.3289.

Programs in this brochure are subject to change or cancellation. Unless otherwise noted, Member discounts do not apply to programs listed in this brochure.

For information about museum exhibitions, planning a visit, ongoing research, and upcoming events, visit our website at [www.carnegiemnh.org](http://www.carnegiemnh.org) or call 412.622.3131.

#### GENERAL MUSEUM HOURS

Tuesday–Saturday	10 a.m.–5 p.m.
Thursday	10 a.m.–8 p.m.
Sunday	Noon–5 p.m.
Monday	Closed
Open Mondays after Independence Day and before Labor Day; check the website for additional hours.	

#### DINING OPTIONS

##### *Carnegie Café*

Self-serve quality dining. Reservations required for groups of 10 or more; call 412.622.3225.

##### *Fossil Fuels*

Family-friendly meals, including a variety of fast foods.

##### *Brown Bag Lunchroom*

Bring your own lunches or pre-order box lunches. Ideal for medium to large groups. Reservations required when you book your visit.

##### *Outdoor Sculpture Court*

Weather permitting, your group is welcome to eat in our outdoor courtyard.

#### PARKING

Hourly parking is available in the museum's garage. Buses will be directed to off-site parking.

#### ACCESSIBILITY

The museum is accessible to all. All programs can be adapted to meet the needs of students and visitors. For questions or assistance, feel free to call ahead at 412.622.3382 or check our website at [www.carnegiemnh.org/visit/access.html](http://www.carnegiemnh.org/visit/access.html).

#### SCHOLARSHIPS

Scholarships for school groups who need assistance with field trip funding, including transportation, are sponsored by Target. To find out whether your school qualifies, call 412.622.3291.

## Exhibitions

### READ MY PINS: THE MADELEINE ALBRIGHT COLLECTION

December 13, 2011–March 4, 2012

This world-famous exhibition and the accompanying book reveal an intriguing story of American history and foreign policy as told through more than 200 of Secretary Albright's pins. Read My Pins demonstrates the power of jewelry to communicate through a style and language all its own. This exhibition has been organized by the Museum of Arts and Design in New York. Generous support for this exhibition was provided by Bren Simon and for the exhibition catalogue by St. John Knits.

### LORD OF THE CRANE FLIES

Ongoing

This exhibition focuses on Carnegie Museum Invertebrate Zoologist Chen Young's nearly 30 years of work on crane flies. The exhibition includes photographs, illustrations, specimens, and video about crane flies—what they are, where they live, how they are collected and studied, and why they are an important part of the planet we share.

### M IS FOR MUSEUM

October 15, 2011–August 26, 2012

Kids and grown-ups, guided by the ABCs, discover the wonders of one of America's best natural history museums! It's an exciting journey into the behind-the-scenes world of amazing museum objects and the scientists who care for and study them. Designed for visitors 5 to 13 years old, M is for Museum features multimedia and hands-on activities that help curious young audiences discover how museums help protect, explore, and explain the cultures of the world and nature in all its wonder.

### PERMANENT EXHIBITION HALLS

For information about our permanent exhibition halls visit [www.carnegiemnh.org/exhibitions/halls.html](http://www.carnegiemnh.org/exhibitions/halls.html).

- Alcoa Foundation Hall of American Indians
- Benedum Hall of Geology
- Bonehunters Quarry
- Botany Hall
- Cenozoic Hall: Ice Age Mammals
- *Dinosaurs in Their Time*
- Discovery Room
- Earth Theater
- Experimental Gallery
- Hall of African Wildlife
- Hall of North American Wildlife
- Hillman Hall of Minerals & Gems
- *PaleoLab*
- Polar World: Wyckoff Hall of Arctic Life
- Population Impact
- Walton Hall of Ancient Egypt

## Overnight Adventures and Pajama Nights

Families, school and homeschool groups, scout troops, and youth groups—bring your sleeping bags for a “camping” experience inside the museum! Sleep tight in the company of a rhinoceros, or party in your PJs next to a grizzly. Enjoy snacks, hands-on projects, museum tours, guest appearances, and games. Overnights include a continental breakfast. Don’t forget to explore the other exhibition areas with your free admission the next day!

	Recommended Ages	Scheduling	Chaperones
<b>OVERNIGHT ADVENTURES</b>	Must be at least 6 years old	Friday, 7 p.m. to Saturday, 9:30 a.m.	One adult for every 1–5 children (6 children=2 adults, etc.). Children must be accompanied by a parent or adult chaperone; adults must stay through entire overnight.
<b>Fee</b> \$40 per person, including chaperones. Fee includes a \$10 non-refundable deposit due within 30 days of booking, and must be paid in full no later than one month in advance of the overnight. Unpaid reservations may result in cancellation of a program. No refund will be granted for withdrawals made with less than thirty days’ notice.			

	Recommended Ages	Scheduling	Chaperones
<b>PAJAMA NIGHTS</b>	2 to 8 years old	Saturday, 5:30–8:30 p.m.	One adult for every child
<b>Fee</b> \$25 per person, including chaperones. Fee includes a \$10 non-refundable deposit in the event of withdrawal, and must be paid in full at time of registration. No refund will be granted for withdrawals made with less than thirty days’ notice.			

### Reservations

Contact Group Visits at 412.622.3289 or [GroupVisits@carnegiemuseums.org](mailto:GroupVisits@carnegiemuseums.org).

### Accommodations

Participants sleep on carpeted and tiled floors as a group. No tents or air mattresses are permitted; sleeping bags, pillows, and a sleeping pad work well. Please dress appropriately for community sleeping. Access to electrical outlets available for special needs.

### Meals

Please, to preserve our exhibits and collections, no outside food or drink. Overnights do not include dinner; please make sure participants have had their evening meal prior to arriving. Breakfast includes cereal, milk, juice, muffins or mini donuts, bagels, fruit, coffee, and tea. Please contact us to discuss special dietary needs.

## OVERNIGHT ADVENTURE AND PAJAMA NIGHT THEMES

Check the website for complete descriptions: [www.carnegiemnh.org/programs/overnights.html](http://www.carnegiemnh.org/programs/overnights.html)

### Overnights

Powdermill Nature Reserve Family Overnights

March 16

April 20

Dino-ROAR!

November 19 (Saturday–Sunday program)

December 2

January 6

February 11 (Saturday–Sunday program)

March 16

Night of the Living Carnegie

March 30

All in One

February 3

April 13

CSI: Carnegie Science Investigator

January 27

Nighttime on the Nile

February 24

Slumber Safari

April 20

### Pajama Nights

Dino-rific Pajama Party

October 29

December 10

January 14

February 18

April 14

Pajama Safari

January 21

March 23

## PRIVATE OVERNIGHT ADVENTURES

Schedule a private overnight for your group! Choose from any of the themes described on our website.

Advance notice of at least eight weeks is required. Maximum participants: 120; smaller groups

pay 75-person minimum. Check the website for a full schedule and descriptions:

[www.carnegiemnh.org/programs/overnights.html](http://www.carnegiemnh.org/programs/overnights.html)

## Guided Tours, Classes, and Immersive Experiences

### How to Register

1. Choose a guided tour (pp. 5–6), or class topic (p. 7). Tours and classes may be combined; call for details.
2. Choose any desired Immersive Experiences (p. 8): Bonehunters Quarry, Discovery Room, or Earth Theater.
3. Call Group Visits at 412.622.3289 between 9 a.m. and 4:30 p.m. to register at least four weeks prior to your intended visit.
4. For other programs, please call or email the contact indicated for each program.

You can also try our online tour requests: [www.cmoa.org/group tours](http://www.cmoa.org/group tours)

## Guided Tours

Our exhibitions become your classroom as students explore and make their own discoveries about natural history, using the museum as a laboratory for critical thinking. Educator guides are available for some tours.

	1-Hour Tour	90-Minute Tour	Two 1-Hour Tours
<b>Tour price per person</b> (Includes museum admission)	\$7 (\$70 minimum per group)	\$8.50 (\$85 minimum per group)	\$10 (\$100 minimum per group)

### Scheduling

Guided tours and group classes are available during regular museum hours. Additional Immersive Experiences in Bonehunters Quarry, Discovery Room, and Earth Theater are available weekdays, 10 a.m.–1 p.m.

### Reservations

Contact Group Visits at 412.622.3289 or [GroupVisits@carnegiemuseums.org](mailto:GroupVisits@carnegiemuseums.org).

### Fees

Payment in full is required one week before scheduled class date.

### Chaperones

- Pre-K/Kindergarten: One adult per five children
- Grades 1 and up: One adult per ten children
- Required chaperones are admitted free; additional adults pay \$10.

### Recommended Ages

- Tours for Pre-K and K groups are one-hour tours modified to last 45 minutes; the minimum age is 4 years.
- One-hour tours are for grades 1–12.
- Tours lasting more than one hour are designed for grades 6–12 or when combining several exhibition galleries.

### Accessibility

When you book your tour please let us know if there is anything we can do to better meet the needs of your group.

## TOUR SEASONS

### Prime Season

April 10–June 12, 2012

The museum offers pre-programmed, 1-hour tours that include stops in our most popular exhibitions and halls.

- Animal Adaptations
- Three Cultures
- Evolution of Life
- Geology
- Pennsylvania Natural History
- **NEW TOUR!** Experience M is for Museum

Schedule a guided experience in this special exhibition focusing on how Carnegie Museum of Natural History explores, explains, and protects the natural world. Your group explores scientific methods, considers evidence, engages in activities, and interacts with museum educators.

### Off-season

January 3–April 9, 2012 or

June 13–December 31, 2012

Enjoy an even richer experience in the off-season, when you can design your own tour! Explore a single hall in depth or investigate multiple galleries. All off-season tours include hands-on activities that enhance the educational experience.

## SPANISH-LANGUAGE TOURS

### Grades 3–12

Tours are available year-round for groups wishing to improve their Spanish conversation and listening skills:

- Dinosaurios
- El Artico
- Egipto
- Los Indios de Norteamerica

## Classes

### Delve deeper and learn more!

Classes for groups are a great way to orient your learners to the museum or go deeper into a particular topic such as biodiversity, evolution, or world cultures. Groups from Pre-K to high school engage in student-centered inquiry guided by museum educators who are fluent in our world-class scientific research and exhibitions. Classes are a combination of unique hands-on experiences in our classrooms, lab, and exhibitions, and may include take-home projects.

	1-Hour Class	90-Minute Class	2-Hour Class
Class price per person (includes museum admission; \$100 minimum per group)	\$8	\$9	\$11

### Scheduling

Programs are scheduled Tuesday–Saturday, 10 a.m.–3 p.m.

### Reservations

Contact Group Visits at 412.622.3289 or [GroupVisits@carnegiemuseums.org](mailto:GroupVisits@carnegiemuseums.org). Pre-registration is required. Classes must be scheduled at least four weeks in advance. Please reserve early, as demand for classes is high, especially during the spring months.

### Fees

Additional materials fee for some classes indicated in class descriptions online. Payment in full is required one week before scheduled class date.

### Chaperones

- Pre-K/Kindergarten: One adult per five children
- Grades 1 and up: One adult per ten children
- Required chaperones are admitted free; additional adults pay \$10.

## WHAT YOU WILL EXPERIENCE

Classes include a topical introduction, hands-on classroom inquiry, and an exhibition hall activity in 90 minutes of instructional time. These experiences orient your group to the museum for further exploration once your class has ended.

Shorter, 1-hour classes can be customized to include either classroom inquiry or an exhibition hall activity. This option is encouraged for Pre-K groups or groups of any age who want to focus time spent with our museum educators on a single activity or exhibition hall experience.

If your group is interested in exploring science careers in more detail, our 2-hour classes allow time for in-depth inquiry and a conversation with a scientist who studies and cares for the collections at the Museum of Natural History.

### Sample Topics

Check [www.carnegiemnh.org/programs](http://www.carnegiemnh.org/programs) for complete class listings.

- Archaeology Detectives
- DNA Analysis
- Family Dinosaur Dig
- Going on Safari
- Rock Hounds

## Immersive Experiences

Enhance your museum visit with an additional immersive experience! The base price for classes and tours includes museum admission. For an extra \$1 per person, schedule a half-hour visit to Bonehunters Quarry or the Discovery Room, or choose an Earth Theater Movie. For \$2 more per person, schedule an Earth Theater Virtual Tour.

Bonehunters Quarry OR Discovery Room OR Earth Theater	Additional \$1 per person
Earth Theater Virtual Tour	Additional \$2 per person

### DISCOVERY ROOM

Calling all nature lovers to the Discovery “please touch” Room! Investigate our world through hands-on activities, real and replica specimens and artifacts, and other exciting adventures that enhance nature and science learning for children and adults.

#### Scheduling

Reservations may be made for 30-minute sessions. One group may use the room during each 30-minute session. A maximum of 20 participants may be accommodated per session.

For more information contact Rhonda Kelly at 412.622.1950 or KellyR@carnegiemnh.org.

### EARTH THEATER

Earth Theater is a state-of-the-art immersive digital theater that takes visitors on the scientific adventure of a lifetime! A wraparound screen whisks the audience out of their seats and into an unforgettable world of exploration. Seating is limited to 65 people.

#### Sample Shows

- Dinosaur Prophecy
- Ice Worlds
- Virtual Egyptian Temple Tour
- Virtual Seneca Village Tour

Bring Earth Theater to your location! Read about Discovery Dome programs in the Museum on the Move section on p. 10.

See the website for a complete list of additional topics and descriptions at [www.carnegiemnh.org/programs/groups.html](http://www.carnegiemnh.org/programs/groups.html).

### BONEHUNTERS QUARRY

#### For Grades 5 and under

Experience the thrill of hands-on excavation in our interactive fossil dig! Using real tools just like paleontologists do in the field, scrape away simulated earth and rock to reveal realistic fossil casts. Museum educators interpret the experience and help identify the finds.

#### Scheduling

Reservations may be made for 30-minute sessions. One group may use the room during each 30-minute session. A maximum of 20 participants may be accommodated per session.

## Educational Loan Collection

The museum's loan program helps educators create enduring learning experiences by providing thousands of items including minerals, fossils, wildlife mounts, and thematic kits on subjects ranging from ancient Egypt to tropical forests. To help young learners build literacy skills, many loan boxes contain copies of relevant children's literature.

### Reservations

Contact 412.622.3292 or [McSheaP@carnegiemnh.org](mailto:McSheaP@carnegiemnh.org). Materials may be borrowed for up to three weeks. There is no limit on the number of items that may be requested.

### Fees

Standard loans: \$50

Annual registration for unlimited loans: \$150 for facilities with enrollment of 400 and under; \$200 for all other facilities.

### Available Materials

- Thematic Loan Kits contain specimens, artifacts or replicas, and related audio-visual and printed materials.
- Topical Boxes are groups of specimens or artifacts packaged as a single unit.
- Animal Specimen Cases are portable cases displaying actual mounted specimens.

### SAMPLE TOPICS

Download the full catalogue from the website:

[www.carnegiemnh.org/assets/programs/ELC\\_Catalogue.pdf](http://www.carnegiemnh.org/assets/programs/ELC_Catalogue.pdf)

- Archaeology: Tools and Technology
- Desert Wildlife
- Dinosaurs: Mesozoic Marvels
- Horns and Antlers
- The Monongahela: Prehistoric Pennsylvanians
- Pittsburgh Rocks
- Poisonous Plants
- Whales

## Museum on the Move

Bring Carnegie Museum of Natural History to your location! We are committed to making science accessible and letting children know that everyone can do science. All programs meet state and national standards to support your educational goals. Programming is available for Pre-K to eighth grade classrooms and school assemblies.

**Museum on the Move now includes expanded offerings.** In addition, our educational programs can be adapted to community centers and hospital settings as well as other individual or group settings for those with physical or mental disabilities. Please contact us to learn how our programs can meet your group's needs.

Visit the website for full program descriptions, suggested grades, and more:

[www.carnegiemnh.org/programs/outreach.html](http://www.carnegiemnh.org/programs/outreach.html)

	Maximum Participants	Scheduling	Fees
DISCOVERY DOME	55 young children or 40 middle schoolers	Half-day (up to 5 shows in 3 hours)	\$400
		Full-day (up to 10 shows)	\$475
SCIENCE ON STAGE	200 per show	One show	\$325 (\$130 per each additional show)
TRAVELING CLASSROOM	25 per presentation	One presentation	\$100 (\$50 per each additional presentation)

### Financial Assistance

Don't let cost be a barrier. If your group is in financial need, funding may be available. Please call us to discuss your options.

### Accessibility

We are happy to work with you to adapt our programs to meet the needs of your group.

### Travel Expenses

Carnegie Museum of Natural History charges one-way travel expenses in accordance with the current IRS standard mileage rate. Travel of more than 76 miles may require an additional overnight fee of \$150.

## DISCOVERY DOME

Bring the museum's state-of-the-art video technology to your location! Explore world cultures and natural science topics in the immersive video environment of our traveling inflatable dome. All shows are available in English; some shows are also available in Spanish, French, or Hebrew. Visit [www.carnegiemnh.org/programs/dome.html](http://www.carnegiemnh.org/programs/dome.html) for a complete show list.

### Reservations

Contact Erik Schuckers at 412.622.3291 or [SchuckersE@carnegiemnh.org](mailto:SchuckersE@carnegiemnh.org).

### **Sample Shows**

- Amazing Astronomers of Antiquity
- Dinosaur Prophecy
- Earth's Wild Ride

### **SCIENCE ON STAGE**

Explore the natural world with a cast of colorful characters in full theatrical stage productions that bring science to life through theater.

#### **Reservations**

Contact Michael List at 412.622.3282 or ListM@carnegiemnh.org at least six weeks in advance.

#### **Sample Topics**

- It's a Bird, It's a Plane...It's a Bug?!
- Treasure Hunt: Pirates of the Monongahela
- It's a Wonderful Biodiverse Life

Science on Stage is a participant of the Shop n' Save S.E.E.D. program. Contact us for more information on this program and how it may cover visit fees. Science on Stage is supported by a grant from Dominion.

### **TRAVELING CLASSROOM**

Enhance and enrich your curriculum with Pre-K to eighth grade classroom and after-school programs based on the museum's collections! Each 45-minute session uses visual and hands-on materials for a guided inquiry experience. A follow-up activity is provided so that the discovery can continue after the program. If you previously participated in *Museum on the Move*, Traveling Classroom is for you.

#### **Reservations**

Contact Lenore Adler at 412.688.8687 or AdlerL@carnegiemnh.org.

#### **Sample Topics**

- Dino-mite Dinosaurs
- Inuit: Life in the Arctic
- Western Pennsylvania's Biomes: Living on the Edge

## Distance Learning

Visit the museum without ever leaving your seat! Interactive videoconferences between your location and the museum can introduce new topics, enable you to explore familiar topics at a deeper level, or prepare groups for an upcoming museum visit. Museum staff and your group see, hear, and speak with each other in real time!

### **Scheduling**

Programs must be reserved two weeks in advance.

### **Reservations**

Contact us at 412.622.3292 or [IDEA@carnegiemnh.org](mailto:IDEA@carnegiemnh.org).

### **Fees**

- Single Session: \$125; discounts available for multiple programs
- Meet the Scientist Series: \$150

## SESSIONS

### **Single Session Videoconferences**

Programs are aligned with state and national academic standards for cultural, biodiversity, earth science, and technology topics, and may be modified to address your students' study units.

### **Meet the Scientist Series**

Scientists at Carnegie Museum of Natural History conduct research from the Arctic to the tropics. Create an opportunity for your group to interact with the men and women who conduct the scientific inquiry that is the key component of the museum's mission.

## SAMPLE TOPICS

Programs are 45 to 60 minutes long.

- Fossil Clues to Ancient Life
- Rocks and Minerals
- The Iroquois People
- Nature Views through a Scanning Electron Microscope
- Pennsylvania Biodiversity
- Understanding Dinosaurs

See the website for a full list of Distance Learning topics:

[www.carnegiemnh.org/programs/distance.html](http://www.carnegiemnh.org/programs/distance.html)

## Powdermill Nature Reserve

Powdermill Nature Reserve, the environmental research center of Carnegie Museum of Natural History, is located in Rector, PA, amidst the rolling Laurel Highlands, home to wildflowers, trees, songbirds, salamanders, and many other wild things. The classroom and exhibition areas in the nature center as well as the trails outside provide meeting and program spaces for field trips and workshops. The world-class research programs at Powdermill take advantage of the biodiversity of the Allegheny Mountains.

### Scheduling

Activities are 1.5 to 2.5 hours long, depending on the age of the group and the activity selected; two programs with a lunch break can be arranged.

### Reservations

Contact the Powdermill Education Department at 724.593.6105.

### Fees

- 1.5-hour program: \$6 per person; minimum \$60 per group
- 2- or 2.5-hour program: \$7 per person; minimum \$70 per group

### Chaperones

One adult required for every 15 children. Maximum group size is 45.

### Sample Topics

Check [www.carnegiemnh.org/programs/groups-powdermill.html](http://www.carnegiemnh.org/programs/groups-powdermill.html) for full list of group topics and descriptions.

- Animal Adaptations and Habitat
- Creative Writing in the Outdoors
- Energy Flow: The Sun to You
- Investigating Insects
- Land Use Simulation
- Seasonal Changes
- Shapes, Patterns, and Numbers in Nature
- Stream Sense
- The Closer You Look

## FREE PUBLIC PROGRAMMING

Powdermill Nature Reserve offers lectures, indoor and outdoor activities, and exhibitions year-round for naturalists of all ages! Visit the website at [www.carnegiemnh.org/programs/powdermill.html](http://www.carnegiemnh.org/programs/powdermill.html) for a complete schedule.

All of these programs are supported by the Mudge Environmental Education Program and the Martha Edwards Lazear Foundation. Free weekend programming sponsored by Plextronics.

## Academic Standards

Carnegie Museum of Natural History can help educators address state standards. If you teach in Pennsylvania, Ohio, or West Virginia or are required to address national standards in your work, we can assist you in identifying the corresponding relevant standards for each museum program.

Our versatile teaching resources enhance lessons for arts and humanities, reading, writing, speaking, and listening.

If you and your colleagues develop effective lesson units that make use of museum materials, we would love to know about them! Send your stories to [cmnhweb@carnegiemnh.org](mailto:cmnhweb@carnegiemnh.org). For example, art educators have long used taxidermy mounts from the museum's educational loan program as drawing models, and press releases from the museum website have been used for creative writing assignments.

## New! Teacher Loyalty Program

We value teachers and invite you to join our teachers-only loyalty program, which offers free and exclusive benefits just for you!

We'll send you a Teacher Loyalty Program pass, entitling you to a year of free admission for yourself. This pass isn't for school or field trip visits: it's our gift to you personally to thank you for your hard work in the classroom. Teacher Loyalty Program participation also earns you 50% off admission for up to three guests, Member pricing for adult programs, invitations to cocktail parties and social events, special workshops, and Act 48 credits for museum classes and tours.

Visit [www.carnegiemnh.org/scripts/loyalty-form.asp](http://www.carnegiemnh.org/scripts/loyalty-form.asp) to sign up.

## Adopt A Bird Band

To celebrate 50 years of bird migration research, Carnegie Museum of Natural History has launched Adopt-A-Bird-Band. The program invites nature lovers of all ages to become personally involved in supporting the vital biodiversity and conservation research at the core of the museum's mission.

Adoptions are a great activity for science classes, nature clubs, and conservation enthusiasts, or for anyone who wants to celebrate birds in a unique and special way!

Bird banding and the Adopt-A-Bird-Band program are projects of Carnegie Museum of Natural History's Center for Biodiversity and Ecosystems.

Carnegie Museum of Natural History is partnering with the Laurel Foundation for a matching grant challenge for the Adopt-A-Bird-Band fundraising effort benefiting bird migration research at the museum's biological research station, Powdermill Nature Reserve. If the museum raises at least \$20,000 in support from individuals in this program before June 3, 2012, the Laurel Foundation will generously match the contribution with a \$20,000 gift.

### Visit the website

Explore [www.carnegiemnh.org/adopt](http://www.carnegiemnh.org/adopt) to browse available birds and program benefits, including certificates of adoption, replica bird bands, and alerts about our bird migration research.