HARVARD MUSEUMS OF SCIENCE & CULTURE

FALL 2014 PROGRAMS • EXHIBITS • CLASSES

Collection of Historical Scientific Instruments • Harvard Museum of Natural History
Harvard Semitic Museum • Peabody Museum of Archaeology & Ethnology

HMSC
One world...four museums

The Harvard Museums of Science & Culture (HMSC) offer outstanding permanent galleries, dynamic special exhibits, and captivating public programs for all ages and interests. From a 42-foot-long Kronosaurus to exquisite glass flowers; from massive Maya and Egyptian monuments to finely calibrated scientific instruments acquired by Benjamin Franklin; and from exceptional faculty lectures to gala celebrations and children’s programs, the HMSC museum partnership is a portal to Harvard University’s world-renowned collections and vital research on human civilizations, biodiversity, Earth’s origins, and the history of science. Come see the world, in four museums.

- Collection of Historical Scientific Instruments
- Harvard Museum of Natural History
- Harvard Semitic Museum
- Peabody Museum of Archaeology & Ethnology

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### Images on front cover (clockwise from top left)

**Pocket Sundial (detail)**
Detail of the gnomon (the shadow-casting part) on a portable sundial made in Paris in 1680-1681 by Michael Butterfield. The owner used the little bird’s beak to set the sundial for his latitude. Such sundials for travelers are on view in the Putnam Gallery of the Collection of Historical Scientific Instruments.

**Gallus gallus bankiva Feathers (detail)**
The Red Junglefowl cock sports a vibrant medley of gold, blue, maroon, and orange feathers and a dark metallic-green tail. Red Junglefowl are the wild South Asian ancestors of all domesticated poultry.

**Mummy Case of Padimut (detail)**
Padimut was a wab-priest and metal engraver in the Temple of Amun-Re at Thebes during the 22nd Dynasty (945–712 BCE). Made of cartonnage, a compound of linen, papyrus, and plaster, the case was formed over a mold as a single piece with an opening in the back. Harvard Semitic Museum.

**Double-spouted Peruvian Water Jar (detail)**
Ceramic bottle, double spout with bridge, from the Nazca Province. Early Intermediate period.
Peabody Museum of Archaeology & Ethnology, PM 968-14-30/8493
BIRD EXTINCTIONS IN THE HAWAIIAN ISLANDS

Helen F. James, Curator-in-Charge, Division of Birds, National Museum of Natural History, Smithsonian Institution

Ornithologist Helen James takes us to an archipelago that has been an epicenter for bird extinctions: the Hawaiian Islands. When people first set foot there approximately 800 years ago, the islands were home to a rich diversity of birds that included many unusual—even flightless—species. Most of these birds became extinct after the islands were colonized, leaving behind only their bones. James will discuss her strategies for finding the remains of these extinct species and reconstruct the history of their demise while highlighting lessons that can be drawn from their story.

Lecture. Free and open to the public. HMMH
Thursday, September 18, 6:00 pm
Geological Lecture Hall, 24 Oxford St. 📅

SAVING LEMURS FROM EXTINCTION

Conservation in Action

Patricia Chapple Wright, Professor of Anthropology, Stony Brook University

Primatologist and MacArthur Fellow Patricia Chapple Wright, recipient of the 2014 Indianapolis Prize for her extraordinary contributions to conservation efforts, will discuss her work protecting the lemurs and ecosystems of Madagascar. Wright will share her experiences engaging the Malagasy government, community stakeholders, and scientists in a team effort to integrate conservation with development projects, including one collaboration that led to the establishment of Ranomafana National Park, a UNESCO World Heritage Site in southern Madagascar.

Lecture and Book Signing
Free and open to the public. HMMH PMAE
Thursday, October 2, 6:00 pm
Geological Lecture Hall, 24 Oxford St. 📅
Presented in collaboration with the Indianapolis Prize

LIFE AT COLONIAL HARVARD

The Archaeological Evidence

Diana Loren, Director of Academic Partnerships and Museum Curator, Peabody Museum of Archaeology & Ethnology

Harvard University's 1650 charter founded a multicultural educational setting when it committed the new institution "to the education of the English and Indian Youth of this Country in knowledge and godliness." The Harvard Yard Archaeology Project contributes to renewing that commitment. This fall, the project's team will begin its fourth excavation in Harvard Yard, seeking deeper knowledge of seventeenth-century Harvard College and the Native American and English students. Join Diana Loren in a presentation of the project's findings to date, including printing type from the first printing press in the British colonies, and a preview of the team's excavation goals this fall.

Lecture. Free and open to the public. PMAE
Tuesday, September 23, 6:00 pm. Geological Lecture Hall, 24 Oxford St. 📅

Digging Veritas: The Archaeology and History of the Indian College and Student Life at Colonial Harvard, an exhibition at the Peabody Museum of Archaeology & Ethnology, will be open until 9:00 pm following the lecture.

500 YEARS OF HUMAN DISSECTION

David S. Jones, A. Bernard Ackerman Professor of the Culture of Medicine, Faculty of Arts and Sciences and the Faculty of Medicine, Harvard University
Dominic Hall, Curator, Warren Anatomical Museum, Harvard Medical School

Throughout 500 years of human dissection, anatomists have struggled to maintain access to cadavers amid shifting laws and social mores. This lecture will chronicle the legal and ethical tensions involved in obtaining cadavers and how practices have changed over time. The speakers will discuss how acquisition arrangements once considered to be acceptable, even routine, became problematic and evolved into current donation systems and respectful dissection.

Lecture. Free and open to the public. CHSI
Tuesday, September 16, 6:00 pm
Visit website for location: www.hmsc.harvard.edu 📅
Body of Knowledge: A History of Anatomy, an exhibition at the Collection of Historical Scientific Instruments, will be open until 9:00 pm following the lecture.
AMAZING ARCHAEOLOGY FAIR AT HARVARD

An epic day of archaeological events! Activities take place among the world-famous collections of North American, Maya, and Ancient Near Eastern archaeology held by the Peabody Museum of Archaeology & Ethnology and the Harvard Semitic Museum. Enjoy a behind-the-scenes visit to a major museum lab that helps archaeologists identify excavated animal bones. Are the bones from an ancient human occupation site or last year’s picnic? Researchers will demonstrate techniques using skeletons of modern animals. This is a popular event for school-age children.

Special Event. Regular museum admission rates apply. PMAE HSM
Sunday, October 5, 12:00–5:00 pm
Peabody Museum of Archaeology & Ethnology, 11 Divinity Ave.
Harvard Semitic Museum, 6 Divinity Ave.

STRUNG TOGETHER
Multicellularity and String Quartets

Andrew Berry, Lecturer on Organismic and Evolutionary Biology, Harvard University
Ariel Mitnick, Luke Hsu, DJ Cheek, Rainer Crosett, and Alan Toda-Ambaras, Project LENS

Participate in a lively multidisciplinary evening of science and music that considers organisms and musical ensembles in an entirely new way. In this event, Andrew Berry and the Project LENS performance collaborative will explore connections between multicellularity and the evolution of the string quartet through discussion and a performance of works by Bach, Haydn, Beethoven, and Reich.

Special Event. Free and open to the public. HMSC HSM
Thursday, October 9, 6:00 pm
Visit website for location: www.hmsc.harvard.edu

ADAPTING SPECIES TO A CHANGING WORLD
The Potential of Genome Editing

George Church, Robert Winthrop Professor of Genetics, Harvard Medical School

Innovative new technologies may enable scientists to manipulate ancient and modern DNA to safeguard ecosystems from invasive organisms, help species recover their genetic diversity, and address issues of climate change. However, as geneticist George Church will discuss, while resurrecting mammoths could help maintain the Arctic permafrost, such developments require thoughtful consideration of complex system interactions and potential unintended consequences.

Lecture. Free and open to the public. HMNH
Wednesday, October 15, 6:00 pm
Geological Lecture Hall, 24 Oxford St.

ZOOARCHAEOLOGY LABORATORY OPEN HOUSE

Enjoy a behind-the-scenes visit to a major museum lab that helps archaeologists identify excavated animal bones. Are the bones from an ancient human occupation site or last year’s picnic? Researchers will demonstrate techniques using skeletons of modern animals. This is a popular event for school-age children.

Family Event. Regular museum admission rates apply. PMAE
Monday, October 13 (Columbus Day), 12:00–4:30 pm
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Family Event. Regular museum admission rates apply. PMAE
Monday, October 13 (Columbus Day), 12:00–4:30 pm
Peabody Museum of Archaeology & Ethnology, 11 Divinity Ave.
SWEET AND SPICY LIBATIONS
Andrew Koh, Assistant Professor of Classical Studies, Brandeis University
Joseph A. Greene, Deputy Director and Curator, Harvard Semitic Museum

In 2013, a team of archaeologists working in northern Israel unearthed the storage magazines of a Canaanite palace from 1700 BCE containing remnants of what is considered to be the oldest—and largest—ancient wine cellar in the Near East. Chemical analysis of the jars found at the site suggests the Canaanites drank a strong, sweet wine flavored with an exotic mix of honey, spices, and berries. Join archaeologist Andrew Koh and Phoenician specialist Joseph Greene as they discuss this discovery in the context of the social and cultural history of wine’s emergence in the ancient Near East and the Mediterranean world.

Lecture and Wine Tasting
Registration required: www.hmnc.harvard.edu. HSM
Thursday, October 23, 6:00 pm
Yenching Auditorium, 2 Divinity Ave.

REMEMBERING NORTH AMERICA’S EXTINCT BIRDS
Join us for a screening of The Lost Bird Project, a film that honors five extinct North American birds: the Labrador Duck, the Great Auk, the Heath Hen, the Carolina Parakeet, and the Passenger Pigeon. Directed by Deborah Dickson, the film follows sculptor Todd McGrain as he sets out to create large bronze memorials to these lost birds and to install them in the locations where they were last seen in the wild. A discussion with McGrain and Andy Stern, the film’s executive producer, will follow the screening. A book about the project will also be available for purchase at the museum store.

Film Screening and Book Signing
Free with museum admission. HSM
Saturday, October 25, 2:00 pm
Haller Hall, enter at 26 Oxford St.

HARVARD’S 2ND EVER FUNGUS FAIR
Explore the wondrous world of fungi! Join Harvard students for a closer look at the mushrooms, yeasts, and molds found in gardens, forests, labs—and even in our own refrigerators. Learn about the use of fungi in common foods such as bread and cheese. This is an opportunity to investigate museum collections and participate in hands-on activities and taste tests led by Harvard students.

Special Event. Regular museum admission rates apply. HSM
Saturday, October 25, 10:00 am–1:00 pm
Harvard Museum of Natural History, 26 Oxford St.

DÍA DE LOS MUERTOS/DAY OF THE DEAD
Events will be held at the Peabody Museum of Archaeology & Ethnology, 11 Divinity Avenue. For details, visit: www.peabody.harvard.edu

EVENING CELEBRATION
Celebrate Day of the Dead with a festive evening of music, food, and community. Remember departed loved ones in front of this year’s Día de los Muertos altar, savor Mexican beverages and light refreshments, and enjoy the lively music of the Mariachi Véritas de Harvard and Trio Ollin.

Special Event. Tickets are only available online and must be purchased in advance. PMAE
Tickets on sale October 20: $10 members/$15 nonmembers
Saturday, November 1, 6:00–9:00 pm
Co-sponsored by the Consulate General of Mexico

FAMILY EVENT
Families can enjoy traditional snacks, folk dance, crafts, and live music in festive museum galleries. Decorate a sugar skull and design a message to place upon the Día de los Muertos altar. Experience the customs that make this Mexican holiday a joyful celebration.

Family Event. No advance tickets required. PMAE
Snacks and activities free with museum admission
Skull decorating fee: $5 per skull
Sunday, November 2, 12:00–4:00 pm
ANATOMY AND ETHICAL TRANSGRESSIONS IN NATIONAL SOCIALISM
Sabine Hildebrandt, MD, Assistant Professor of Pediatrics; Lecturer in Global Health and Social Medicine, Harvard Medical School

A traditional tenet in the field of anatomy is that knowledge is gained through work with a dead human body. Anatomists working in Nazi Germany (1935–1945) used bodies of regime victims and also started to work with the “future dead” (prisoners who were subsequently killed) in their medical experiments. Hildebrandt will present the history and context of anatomical research during this period and discuss the relevance of this history to modern anatomy.

Lecture. Free and open to the public. CHSI
Wednesday, November 12, 6:00 pm
Visit website for location: www.hmsc.harvard.edu

Body of Knowledge: A History of Anatomy, an exhibition at the Collection of Historical Scientific Instruments, will be open until 9:00 pm following the lecture.

MUMMIES, MILDEWS, MANNA, AND MOSSES
Four Kingdoms under One Roof
Donald Pfister, Asa Gray Professor of Systematic Botany and Curator of the Farlow Library and Herbarium, Harvard University

The Farlow Library and Herbarium of Cryptogamic Botany is steward of a world-class collection of books, archives, and specimens related to four different types of organisms—fungi, protista, plants, and monera—that play key roles in nature and society. Founded by William G. Farlow in the nineteenth century, the collection celebrates its 90th anniversary in 2014. From expanding our understanding of plant diseases and helping us assess the impact of climate change and habitat destruction on geographic distributions of organisms to offering insights into ancient ecosystems, the Farlow collection advances scientific research that is relevant to society and our understanding of life on Earth. Join mycologist Donald Pfister in an exploration of the history and impact of this unique Harvard collection.

Lecture and Reception. Registration required: www.hmsc.harvard.edu. HMNH
Thursday, November 13, 6:00 pm. Geological Lecture Hall, 24 Oxford St.

Presented in collaboration with the Friends of the Farlow
THE ART AND SCIENCE OF THE UNFEATHERED BIRD
Katrina van Grouw, Artist and Ornithologist
Imagine that you could see beneath the fluff and feather of a bird to view bone and muscle in action. What would this perspective reveal about movement, structure, and evolution? The Unfeathered Bird is a magnum opus, twenty-five years in the making, which features 385 finely-rendered drawings and paintings of 200 bird species. In a presentation intended for artists, scientists, and bird lovers alike, Katrina van Grouw will explain her approach to preparing and drawing the specimens featured in her book and share her insights into bird anatomy and biomechanics.

Lecture and Book Signing. Regular museum admission rates apply. HMNH
Saturday, November 15, 1:00 pm. Haller Hall, enter at 26 Oxford St. ☑

PROTECTING THE ASH TREE
Wabanaki Diplomacy and Sustainability Science in Maine
Darren Ranco, Associate Professor of Anthropology and Coordinator of Native American Research, University of Maine

Brown ash trees sustain the ancestral basket-making traditions of the Wabanaki people of Maine and play a key role in their creation myths. These trees are now threatened by the emerald ash borer, a beetle that has already killed millions of ash trees in the eastern United States. Wabanaki tribes and basket makers have joined forces with foresters, university researchers, and landowners to develop and deploy actions aimed at preventing an invasion by this insect. Anthropologist Darren Ranco discusses how the stakeholders in this interdisciplinary effort are using sustainability science and drawing from Wabanaki forms of diplomacy to influence state and federal responses to the emerald ash borer and prevent the demise of the ash trees central to Wabanaki culture.

Lecture. Free and open to the public. PMAE HMNH
Tuesday, November 18, 6:00 pm. Geological Lecture Hall, 24 Oxford St. ☑

DAVID GORDON LYON AND THE HARVARD SEMITIC MUSEUM
Peter Der Manuelian, Philip J. King Professor of Egyptology and Director of the Harvard Semitic Museum
Joseph A. Greene, Deputy Director and Curator, Harvard Semitic Museum
Adam Aja, Assistant Curator of Collections, Harvard Semitic Museum

Harvard professor David Gordon Lyon (1852-1935) held one of the first Assyriology positions in the United States and worked tirelessly to promote the study of ancient cultures that once flourished in today’s Middle East. Join Peter Der Manuelian, Joseph Greene, and Adam Aja in a discussion of Lyon’s life and contributions that will highlight his interactions with Harvard presidents, millionaires, and other twentieth-century notables, as well as his approach to assembling Harvard’s Ancient Near Eastern collection and establishing the Harvard Semitic Museum. Join the speakers to learn about the museum’s treasures and the exciting transformation it is currently undergoing.

Lecture and Reception. Free and open to the public. HSM
Thursday, December 4, 6:00 pm
Yenching Auditorium, 2 Divinity Ave. ☑
Reception follows in the Harvard Semitic Museum

THE ART AND SCIENCE OF THE UNFEATHERED BIRD
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Lecture. Free and open to the public. PMAE HMNH
Tuesday, November 18, 6:00 pm. Geological Lecture Hall, 24 Oxford St. ☑

The Legacy of Penobscot Canoes: A View from the River, an exhibition at the Peabody Museum of Archaeology & Ethnology, will remain open until 9:00 pm following the lecture. Presented in collaboration with the Arnold Arboretum of Harvard University
UPCOMING EXHIBITS

BIRDS OF THE WORLD
A PERMANENT EXHIBITION OPENING SEPTEMBER 20, 2014
HARVARD MUSEUM OF NATURAL HISTORY

Boasting over 10,000 species, birds are the most diverse land vertebrates on the planet and vary tremendously in habit and size, from diminutive bee hummingbirds to towering 10-foot-high elephant birds. In celebration of these beaked and feathered marvels, the Harvard Museum of Natural History will open the new Birds of the World gallery. This exhibition is the culmination of months of cleaning and restoring mounted bird specimens from the ornithology collection of the Museum of Comparative Zoology, completely refurbishing antique cases, and redesigning the exhibit displays. On the balcony encircling the museum’s Great Mammal Hall, this bright remodeled gallery reflects surprising new scientific discoveries and captures the staggering diversity of birds with many hundreds of stunning specimens from over 200 different families.

This exhibition was made possible by a generous gift in memory of Melvin R. Seiden AB ’52, LLB ’55

See exhibition-related events on pages 2 and 6:
Bird Extinctions in the Hawaiian Islands. Lecture. Thursday, September 18, 6:00 pm
Remembering North America’s Extinct Birds. Film Screening. Saturday, October 25, 2:00 pm

FROM THE NILE TO THE EUPHRATES
Creating the Harvard Semitic Museum

OPENING DECEMBER 5, 2014. HARVARD SEMITIC MUSEUM

This exhibition celebrates the vision of the Harvard Semitic Museum’s founder, David Gordon Lyon (1852–1935). Professor Lyon assembled a rich collection of antiquities from the Semitic cultures of the ancient Near East, including the Holy Land, and created the museum to inspire visitors to discover and explore Semitic contributions to world civilization. The exhibition tells the intriguing story of the museum’s nineteenth-century beginning and features Mesopotamian cuneiform tablets, ancient Palestinian pottery, Egyptian funerary art, and ethnographic treasures, along with Lyon’s own travel and excavation photographs.

See exhibition-related event on page 11:
David Gordon Lyon and the Harvard Semitic Museum
Lecture. Thursday, December 4, 6:00 pm

ARTS OF WAR
Artistry in Weapons across Cultures

OPENING OCTOBER 18, 2014. PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

War has been an attribute of human cultures throughout time, and weapons are crafted with a practical, deadly intent. Nearly as pervasive as war itself is the practice of decorating the objects used to wage it. Arts of War is a new Peabody Museum exhibition that presents the beauty and craftsmanship of war objects drawn from cultures around the world. From maces, clubs, daggers, and spears to shields, helmets, and suits of armor, this exhibition offers museum-goers more than 150 striking examples of weapons that are also extraordinary works of art.

What compels a warrior to deliberately create a weapon infused with beauty that stands in such stark contrast to its intended purpose? And why are war objects so much more common and elaborately decorated than those crafted for peacemaking? Arts of War probes intriguing questions, unveils the stories behind some of the most stunning war objects ever created, and explores the passion and purpose of the people who made them.

See exhibition-related event on page 8:
Beautiful and Deadly: The Arts of War
Lecture. Thursday, November 6, 6:00 pm
KIDS’ DRAWING CLASSES

Come be a part of the museum community. Drawing classes offer kids the opportunity to learn drawing techniques and examine the museum’s collections more closely. Classes are taught by educator and artist Erica Beade.

ANIMAL ARTISTS: A Four-week Course

Ages 7–11

Sketch face-to-face with a zebra, ostrich, or tiger and learn to draw animals from the museum’s collections. Students focus on new animals each week and practice using different media. By the end of this four-week course, students will have gained greater confidence in their skills as well as a new appreciation of the animal world.

Four Tuesdays: October 21, 28, November 4, 18, 3:40–5:00 pm
$80 members/$95 nonmembers. HMNH

CAPTURING BIRDS OF PREY WITH PENCIL AND PAPER

Ages 9–13

Fierce talons, strong beaks, sharp vision? Look closely at hawk, eagle, and owl specimens to discover what makes these birds such excellent hunters. Using specimens in the classroom and galleries, explore how to capture their forms on paper using realistic drawing techniques.

Saturday, November 15, 2:00–3:30 pm
$25 members/$30 nonmembers. HMNH

CAPTURING BIG CATS AND DOGS WITH PENCIL AND PAPER

Ages 9–13

Wolves and coyotes, leopards, and lions! Come explore the world of big cats and dogs. Participants will use close observation and various realistic drawing techniques to capture these animals and bring them to life on the page.

Saturday, December 6, 2:00–3:30 pm
$25 members/$30 nonmembers. HMNH

FAMILY CLASSES

The new Exploring Science Together programs are designed to be a weekend opportunity for adults and children to learn together in a fun, interactive environment. Classes are taught by museum educators with experience teaching learners of all ages.

EXPLORING SCIENCE TOGETHER: PLANTS!

Come dig in the dirt and discover the world of plants! Learn together with hands-on activities that show why plants are such an important part of our daily lives. Participants are encouraged to explore the museum before or after class. All activities are designed for families with children, grades K–5.

Wendy Derjue-Holzer, HMNH Education Director
Saturday, November 8, 10:30 am–12:00 pm
$10 members/$20 nonmembers, per person. HMNH
Includes museum admission.

ADULT DRAWING CLASSES

DRAWING THE ANIMALS

A Three-week Course

Through observation and instruction, students will learn basic drawing skills they can continue to develop on their own. Participants will practice techniques in the classroom, then sketch animals in the galleries, with support and feedback from the course instructor.

Erica Beade, Artist and Educator
Three Saturdays: October 18, 25, November 1, 9:30 am–12:00 pm
$95 members/$110 nonmembers. HMNH

Other family events being held at the Harvard Museums of Science & Culture:

Amazing Archaeology Fair at Harvard: page 4
Zooarchaeology Laboratory Open House: page 5
Harvard’s 2nd Ever Fungus Fair: page 7
Día de los Muertos/Day of the Dead Events: page 7
Harvard Museums of Science & Culture

Information: 617-496-1638  www.hmsc.harvard.edu
See individual websites for holiday closings
Free parking is available at the 52 Oxford Street Garage for all events marked with a ☛. Not applicable to classes or exhibitions.

Collection of Historical Scientific Instruments
1 Oxford Street, Cambridge, MA 02138
Information: 617-495-2779
chsi.harvard.edu
PUTNAM GALLERY
Monday–Friday 11:00 am–4:00 pm
SPECIAL EXHIBITIONS GALLERY
See website for hours

Harvard Semitic Museum
6 Divinity Avenue, Cambridge, MA 02138
Information: 617-495-4631
www.semiticmuseum.fas.harvard.edu
Monday–Friday 10:00 am–4:00 pm
Sunday 1:00–4:00 pm

Harvard Museum of Natural History
26 Oxford Street, Cambridge, MA 02138
Information: 617-496-1027
www.hmnh.harvard.edu
Open daily 9:00 am–5:00 pm

Harvard Semitic Museum
6 Divinity Avenue, Cambridge, MA 02138
Information: 617-495-4631
www.semiticmuseum.fas.harvard.edu
Monday–Friday 10:00 am–4:00 pm
Sunday 1:00–4:00 pm

Peabody Museum of Archaeology & Ethnology
11 Divinity Avenue, Cambridge, MA 02138
Information: 617-496-1027
www.peabody.harvard.edu
Open daily 9:00 am–5:00 pm

PLAN YOUR VISIT
The four HMSM museums are located within a ten-minute walk from Harvard Square. Traveling by public transportation is strongly recommended, as parking near the museums is limited. Please visit the individual museum websites for directions and information on hours, admission, public transportation, parking, and accessibility, as well as additional information on museum programs, exhibits, and special events.

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