



# HARVARD MUSEUMS OF SCIENCE & CULTURE

SPRING 2020 PROGRAMS • EXHIBITS • CLASSES

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





Samoa bark cloth (*siapo*), collected in Fiji, c. 1911. Gift of Dr. R. B. Dixon, 1912. Peabody Museum of Archaeology & Ethnology #12-31-70/84109

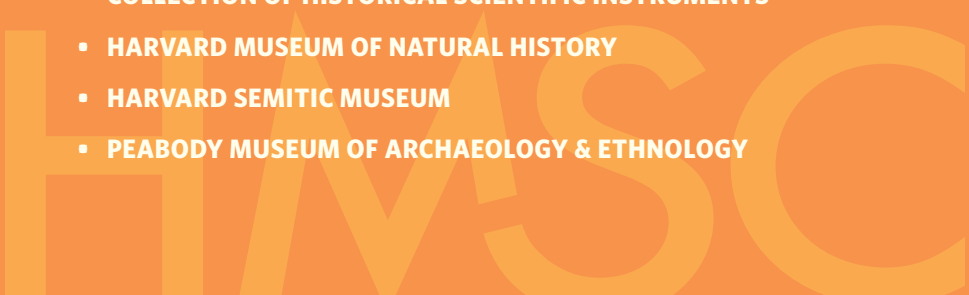
# One world. Four museums.

The Harvard Museums of Science & Culture are at the heart of a community dedicated to advancing research, teaching, and learning. As the public face of several Harvard museums, we aim to share the excitement and relevance of the University's diverse scholarship and to offer rewarding learning experiences for all ages.

Our Spring programs span a broad range of topics as vital and diverse as the museums themselves. Get a taste of the social and environmental values of chocolate producers. Learn who really discovered evolution. Unearth the earliest-known burial practices of the Stone Age. Dive into a Phoenician shipwreck in the new *Mediterranean Marketplaces* exhibition. Discover surprising innovations that shaped the Glass Flowers and marvel at their accuracy and beauty, revealed in a stunning new book of photography.


Visit the museums, participate in programs, and engage in meaningful conversations where science, art, and culture converge.

- **COLLECTION OF HISTORICAL SCIENTIFIC INSTRUMENTS**
- **HARVARD MUSEUM OF NATURAL HISTORY**
- **HARVARD SEMITIC MUSEUM**
- **PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY**

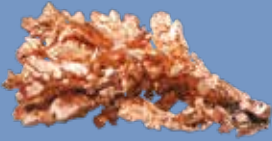


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Free parking is available at the 52 Oxford Street Garage for all events marked with a  (not applicable to classes or exhibitions).

## FRONT COVER IMAGES (clockwise from top left)



### Copper specimen

Copper was the first metal used by humans nearly 10,000 years ago. Keweenaw Peninsula, Michigan. Mineralogical and Geological Museum #138609



### Gorgoneion (mask of Medusa) Cameo

Two-layer sardonyx mounted on gold pendant. Late second and early third centuries. Gift of Nancy Lapp (provenance uncertain). Harvard Semitic Museum #2019.2.1



### Coin balance and weights in original box

When money traded hands in the seventeenth century, men of business did not accept a silver or gold coin on its face value. They weighed each coin with a balance like this to determine how much precious metal was in it. Giellis Joerse, Rotterdam, 1631-1664. Collection of Historical Scientific Instruments #DW0987




### Anishinaabe birch bark basket with lid

Native American women in the Northeast have been making decorative baskets to trade and sell to Euroamericans since the seventeenth century. The maker of this basket used dyed and undyed porcupine quills to create the designs. Manitoulin Island, Ontario. Late twentieth century. Peabody Museum of Archaeology & Ethnology #995-29-10/73205A

Saturday, February 8, 10:00 am–4:00 pm

## I ♥ Science

Awaken your love of science with activities led by Harvard scientists, graduate students, and enthusiastic explorers. Meet scientists who investigate fossils, microbes, and carnivorous plants. Hear short talks on current research at Harvard. Explore fermenting microbes in action as they perform in a musical art installation! Bring your own collections to show to local shell and mineral clubs. This program has something for everyone and is appropriate for children and adults of all ages.

Special Event. Regular museum admission rates apply. **HMNH**  
Harvard Museum of Natural History, 26 Oxford Street 



Tuesday, February 11, 6:00 pm


## What Makes Chocolate “Good”?

CARLA D. MARTIN

Founder and Executive Director, Fine Cacao and Chocolate Institute; Lecturer, Harvard University



The social and environmental values underlying artisanal chocolate production have become increasingly important in its marketing. Good taste is paramount, of course, but how does one measure “social goodness,” and what additional value does it add for the consumer? Chocolate makers’ interests often diverge from those of cacao producers, and industry stakeholders have not clearly addressed these concerns. Carla Martin will examine the cacao-chocolate industry and highlight the often-conflicting goals that can create gaps in social and environmental responsibility. A chocolate tasting will follow the program.

Lecture and Special Event. **PMAE HMNH**  
Geological Lecture Hall, 24 Oxford Street   
Advance registration required  
Visit [hmsc.harvard.edu](http://hmsc.harvard.edu) for event details

Thursday, February 13, 6:00 pm


## Ancient Egyptian Culture and Its Continuity in Modern Egypt

FAYZA HAIKAL

Professor of Egyptology, The American University in Cairo



Egypt's recorded history spans six thousand years and is therefore one of the longest and best known in the world. Today, Egyptians practice several religious, artistic, and social traditions that can be traced to ancient Egypt, demonstrating the power and longevity of cultural memory. Drawing on research in archaeology, Egyptian art, writing, and culture, Fayza Haikal will examine Egyptian society's cultural expressions from antiquity to the present, focusing on language, spirituality, superstitions, funerary traditions, and folklore.

Lecture. Free and open to the public. **HSM**  
Geological Lecture Hall, 24 Oxford Street 


Thursday, February 20, 6:00 pm

## Infectious Cancers in Tasmanian Devils

MARK MARGRES

Sarah and Daniel Hrdy Fellow in Conservation Biology  
Department of Organismic and Evolutionary Biology, Harvard University

The Tasmanian devil is the world's largest living carnivorous marsupial. This species was once abundant in Australia, but today is only found on the island of Tasmania, where it is at risk of extinction due to two rare, contagious cancers. Mark Margres will discuss how this species is adapting in response to these diseases, whether there is any hope for the Tasmanian devil to avoid extinction, and what can be learned about human cancers from studying the disease in other animal species.

Lecture. Free and open to the public. **HMNH**  
Geological Lecture Hall, 24 Oxford Street 



Wednesday, February 26, 6:00 pm

## Olfaction in Science and Society

CATHERINE DULAC

Higgins Professor of Molecular and Cellular Biology  
Lee and Ezpeleta Professor of Arts and Sciences, Harvard University

DAWN GOLDWORM

President and Chief Creative, 12.29

VENKATESH MURTHY

Raymond Leo Erikson Life Sciences Professor of Molecular and Cellular Biology, Harvard University



The sense of smell plays a critical role in human behavior, from warning us of potential dangers to attracting us to certain foods, places, and people. Harvard scientists Catherine Dulac and Venkatesh Murthy study the molecules, cells, and brain circuits that underlie olfaction and the social behaviors that aromas can elicit. In this program, they will engage in a conversation with internationally recognized olfactive expert Dawn Goldworm to discuss how neurobiological research on olfaction relates to our everyday experiences.

Lecture. Free and open to the public. **HMNH**

Geological Lecture Hall, 24 Oxford Street 

Presented in collaboration with the Harvard Brain Science Initiative

Thursday, February 27, 6:00 pm

## The Ancient Maya Response to Climate Change: A Cautionary Tale

BILLIE L. TURNER II

Regents Professor and Gilbert F. White Professor of Environment and Society, School of Geographical Sciences and Urban Planning and the School of Sustainability, Arizona State University



Ancient Maya civilization suffered a major demise between the tenth and eleventh centuries. The causes continue to be investigated and debated. Paleoenvironmental research over the past twenty years has revealed that the demise coincided with a prolonged, intensive drought that extended across the region, providing compelling evidence that climate change played a key role in the collapse of the Maya. Billie Turner will examine this evidence and the complex social and environmental conditions that affected Maya societies.

**Gordon R. Willey Lecture and Reception**

Free and open to the public. **PMAE HMNH**

Geological Lecture Hall, 24 Oxford Street 

Presented in collaboration with the David Rockefeller Center for Latin American Studies, Harvard University

Saturday, February 29, 1:00-4:00 pm

## Dig into Dinner (Ages 4-8)

Explore the new *Resetting the Table* exhibition, starting at the dinner table set for a party. Family-friendly activities about what we eat will be set up throughout the gallery: drop in for smell stations, Play-Doh® desserts, games with prizes, and a raffle of dinner for two at a Harvard Square restaurant.

Special Event. Regular museum admission rates apply. **PMAE**  
Peabody Museum, 11 Divinity Avenue



Tuesday, March 3, 6:00 pm

## Who Discovered Evolution?

WILLIAM FRIEDMAN

Arnold Professor of Organismic and Evolutionary Biology  
Director of the Arnold Arboretum, Harvard University



Charles Darwin is commonly cited as the person who “discovered” evolution. But, the historical record shows that roughly seventy different individuals published work on the topic of evolution between 1748 and 1859, the year that Darwin published *On the Origin of Species*.

These early thinkers, now almost entirely forgotten, included biologists, geologists, horticulturists, physicians, clergymen, atheists, philosophers, teachers, and poets. William Friedman will discuss the ideas of these pre-Darwinian evolutionists, place Darwin in a broader historical context, and examine the nature of scientific discovery and attribution.



### Evolution Matters Lecture Series

Free and open to the public. **HMNH CHSI**

Geological Lecture Hall, 24 Oxford Street 

Series supported by a generous gift from Drs. Herman and Joan Suit

Thursday, March 5, 6:00 pm


## The Khufu Boat

BOB BRIER

Senior Research Fellow, Long Island University



In 1954, Egyptian archaeologist Kamal el-Mallakh discovered a 144-foot ship buried next to the Great Pyramid of Giza. The Khufu boat—one of the oldest-known planked vessels from antiquity—was interred in honor of Khufu, the pharaoh who built the Great Pyramid. Bob Brier will discuss what is known about the design, propulsion, and function of this 4,600-year-old ship, based on recent tank tests conducted on a model. He will also highlight plans to build a full-scale replica of the vessel and to place it on the Nile.

Lecture. Free and open to the public. **HSM**  
Geological Lecture Hall, 24 Oxford Street   
Presented by the Harvard Semitic Museum with support from the Marcella Tilles Memorial Fund

Tuesday, March 10, 6:00 pm


## Early Archaeology of the Pacific

MATTHEW SPRIGGS

Laureate Fellow and Professor of Archaeology, Australian National University, Australia



The earliest European explorations in the Pacific region sparked speculation about the origins of Pacific Islanders. In the late nineteenth and early twentieth centuries, several archaeological studies were made in Polynesia, Micronesia, Island Melanesia, Australia, and New Guinea. Matthew Spriggs will discuss the findings of a five-year project to understand the early history of Pacific archaeology and its contributions to our understanding of human settlement in the region.

Lecture. Free and open to the public. **PMAE**  
Geological Lecture Hall, 24 Oxford Street 

Thursday, March 19, 6:00 pm

## Does Food Have a Gender?

**BARBARA HABER** Food Historian  
**LYDIA SHIRE** Chef, Restaurateur, and Entrepreneur

Food is an indispensable part of culture and a symbol of profound social and political realities. Using Virginia Woolf's essay *A Room of One's Own* as a jumping point, Barbara Haber and Lydia Shire will discuss the connections among culinary history, women's history, and social history, highlighting how food and cooking have been—and continue to be used—to mark gender roles. Moderated by Louisa Kasdon, CEO and Founder of Let's Talk About Food.

Lecture. Free and open to the public. **PMAE**  
Geological Lecture Hall, 24 Oxford Street ⓘ  
Advance registration required. Visit [hmssc.harvard.edu](https://hmssc.harvard.edu) for details.  
Presented in collaboration with Let's Talk About Food



Tuesday, March 24, 6:00 pm

## Love and Death in the Stone Age

**MARY C. STINER**  
Regents Professor, School of Anthropology, University of Arizona

Humans are the only animal species that bury their dead, and this practice is preserved in Paleolithic sites as early as 120,000 years ago. The emergence of burial traditions in this time period implies that both Neanderthals and early humans had already begun to conceive of the individual as unique and irreplaceable. Mary Stiner will discuss the archaeological evidence for burial practices in the Paleolithic, the earliest-known ritualized bridge between the living and the deceased in human evolutionary history.

**Hallam L. Movius, Jr. Lecture and Reception**  
Free and open to the public. **PMAE**  
Geological Lecture Hall, 24 Oxford Street ⓘ



Sunday, March 29, 1:00–4:00 pm

## Amazing Archaeology Fair at Harvard

Celebrate the glamour, labor, and discoveries of archaeology at Harvard. Join Harvard student archaeologists in the museum galleries as they share their experience from excavations around the world and across time. Explore what archaeologists do and examine artifacts from the teaching collection. Make a visit behind the scenes to the Zooarchaeology lab that helps scientists identify animal bones. Hands-on activities will be available for all ages. Activities are spread across both the Peabody Museum and the Harvard Semitic Museum.

Special Event. Regular museum admission rates apply. **PMAE HSM**

11 Divinity Avenue. Visit [peabody.harvard.edu](http://peabody.harvard.edu) for event details 



Wednesday, April 1, 6:00 pm

## Wonderful Cambrian Beasts

JAVIER ORTEGA-HERNÁNDEZ

Assistant Professor of Organismic and Evolutionary Biology; Curator of Invertebrate Paleontology, Museum of Comparative Zoology, Harvard University



Earth is home to a vast diversity of organisms that collectively define the modern biosphere. How did this diversity come to be? Javier Ortega-Hernández will discuss his approach to answering this question by studying organisms that lived more than half a billion years ago in the Cambrian Period (541–485 million years ago). By focusing on the earliest-known animals—some of the most versatile to ever exist—Ortega-Hernández aims to reconstruct the early evolutionary history of major animal groups and contribute to our understanding of Earth's biodiversity.

### Evolution Matters Lecture Series

Free and open to the public. **HMNH**

Geological Lecture Hall, 24 Oxford Street 

Series supported by a generous gift from Drs. Herman and Joan Suit

Tuesday, April 14, 6:00 pm

## Taking the Smithsonian's Fossil Halls into the Twenty-First Century

**MATTHEW CARRANO**

Curator of Dinosauria, National Museum of Natural History, Smithsonian Institution

Fossils provide evidence of how organisms have evolved and ecosystems have changed through time—and offer clues to our present and future. The Smithsonian's National Museum of Natural History recently completed a seven-year renovation of its Fossil Hall, the largest in the institution's history. Matthew Carrano, lead curator of the Fossil Hall, will describe the museum's approach to creating a modern, relevant exhibition for the twenty-first century, featuring new research and more than seven hundred fossils. His talk will detail the goals, processes, and results of this enormous project, while highlighting the key topics selected to enhance the public's understanding of the evolution of life on Earth.



### Evolution Matters Lecture Series

Free and open to the public. **HMNH**

Geological Lecture Hall, 24 Oxford Street 

Series supported by a generous gift from Drs. Herman and Joan Suit

Monday, April 20, 6:00 pm

## Apprenticeship in Ancient Egypt


**WILLEKE WENDRICH**

Joan Silsbee Chair of African Cultural Archaeology

Professor of Egyptian Archaeology and Digital Humanities, University of California, Los Angeles



Archaeologists study stylistic and technological changes in excavated materials—especially pottery—to better understand developments in ancient Egyptian society. However, little attention has focused on using the archaeological record to understand the transfer of cultural knowledge. How did people learn the arts and crafts of potters, basket makers, metalworkers, and scribes? Willeke Wendrich will explore the social history of learning in ancient Egypt and what it can teach us about the present.

Lecture. Free and open to the public. **HSM**  
Geological Lecture Hall, 24 Oxford Street 

Thursday, April 23, 10:00 am–2:00 pm

## Meet a Scientist at the Harvard Museum of Natural History



Come see the world through the eyes of a scientist and explore what research reveals about life on our planet. Graduate students from the Harvard departments of Organismic and Evolutionary Biology, Human Evolutionary Biology, Molecular and Cellular Biology, and Earth and Planetary Sciences will share their research with hands-on activities in the galleries of the HMNH. All activities will be designed to actively engage families in learning more about science and exciting new discoveries about the natural world we live in.

Special Event. Regular museum admission rates apply. **HMNH**  
Harvard Museum of Natural History, 26 Oxford Street  
Part of the Cambridge Science Festival

Thursday, April 23, 6:00 pm


## The Obsidian Mirror: Literature and Archaeology in Mexico

JUAN VILLORO  
Author and Journalist



Mexican authors Octavio Paz, Carlos Fuentes, José Emilio Pacheco, Salvador Novo, Rubén Bonifaz Nuño, and Rosario Castellanos, among others, have sought to use language to explore and recover the links between Mexico's Indigenous peoples and its contemporary society. Focusing on Mexico's pre-Hispanic past, Juan Villoro will explore the intimate and evocative relationships among literature, archaeology, and culture.

### Eduardo Matos Moctezuma Lecture Series

Free and open to the public. **PMAE**  
Geological Lecture Hall, 24 Oxford Street   
Co-sponsored by the David Rockefeller Center for Latin American Studies, the Harvard Divinity School, the Moses Mesoamerican Archive, and the Peabody Museum of Archaeology & Ethnology

Saturday, April 25, 2:00–3:30 pm

## Diving with a Purpose: A Fifteen-Year Odyssey

JAY HAIGLER

Master Scuba Diver Trainer, Professional Association of Diving Instructors  
Scientific Diver and Diving Safety Officer, National Association of Black Scuba Divers Foundation  
Board Member and Lead Instructor, Diving with a Purpose

ALBERT JOSÉ JONES

Professor Emeritus, Marine & Environmental Science, University of the District of Columbia  
Founder of Underwater Adventure Seekers Scuba Diving Club  
Cofounder of the National Association of Black Scuba Divers

Diving with a Purpose is an organization dedicated to the documentation and protection of African slave trade shipwrecks and the maritime history and culture of African Americans. Jay Haigler and Albert José Jones will share a documentary on the organization's work and recent discoveries. They will discuss the importance of submerged heritage resources in advancing the fields of maritime archaeology and ocean conservation and the need for a better understanding of the transatlantic slave trade and its global, cultural, and social-economic impact on society.



Film Screening & Discussion. Free and open to the public. PMAE HMNH  
Geological Lecture Hall, 24 Oxford Street ④

Thursday, April 30, 6:00 pm

## The Last Common Ancestor

ASHLEY S. HAMMOND

Assistant Professor, Richard Gilder Graduate School  
Biological Anthropology Curator, American Museum of Natural History

The last common ancestor of chimpanzees and modern humans is believed to have evolved in Africa six to eight million years ago. Finding fossil apes and hominins—extinct members of the human lineage—from this period has been challenging. Ashley Hammond will discuss her approach to identifying key evolutionary adaptations of this last common ancestor using 3D technology, analyses of known fossils, and field research at six-million-year-old sites in Kenya. Hammond's research aims to clarify the origins of bipedality, a key adaptation in human evolution.



**Evolution Matters Lecture Series**

Free and open to the public. HMNH PMAE  
Geological Lecture Hall, 24 Oxford Street ④

Series supported by a generous gift from Drs. Herman and Joan Suit

Thursday, May 21, 6:00 pm

## From the Hands of the Makers

JENNIFER BROWN, Collection Manager, Ware Collection of Blaschka Glass Models of Plants

NATALJA KENT, Photographer, *The Glass Flowers: Marvels of Art and Science at Harvard*

SCOTT E. FULTON, Head Conservator, Ware Collection of Blaschka Glass Models of Plants

DONALD H. PFISTER, Asa Gray Professor of Systematic Botany and Curator of the Farlow Library and Herbarium of Cryptogamic Botany



From 1886 to 1936, Leopold and Rudolf Blaschka applied their artistic talents and knowledge of natural history to create an exquisite collection of glass models of plants to support the botanical education of Harvard students and the public. This program will explore the history, conservation, and relevance of the Glass Flowers in the twenty-first century, and introduce the publication *The Glass Flowers: Marvels of Art and Science at Harvard*, a compendium of new photographs that captures the beauty and magnificent detail of the models.

Lecture, Book Signing, and New Exhibit Preview

Free and open to the public. **HMNH**

Geological Lecture Hall, 24 Oxford Street 

Saturday, June 20, 5:00–9:00 pm

## Summer Solstice Celebration 2020

### Night at the Harvard Museums of Science & Culture

Celebrate the longest day of the year and mark the beginning of the summer at the Harvard Museums of Science & Culture. Enjoy free admission to four museums and access to special performances. Make flower crowns and other sun-inspired crafts and learn about the astronomical significance of the solstice. Save the date for this festive community event and stay tuned for details.

Special Event. Free and open to the public. For all ages. **HMSC**

Visit [hmsc.harvard.edu](https://hmsc.harvard.edu) for event details 



Saturday, July 25, 7:00–10:00 pm

## An Evening for Foodies: A 21+ Event

Join us on a culinary journey from the ancient Mediterranean to New England. Enjoy tastings, beverages, music, and activities while mingling at two new exhibits, *Mediterranean Marketplaces* and *Resetting the Table: Food and Our Changing Tastes*, at adjacent Harvard museums. Stay tuned for the full program!

Special Event (21+ Only). **PMAE HSM**

Advance tickets required: \$30 members/\$35 nonmembers ⓘ

Presented in collaboration with Let's Talk About Food

Visit [hmsc.harvard.edu](http://hmsc.harvard.edu) for event details.



Thursday, August 20, 5:30–9:00 pm

## HMSC Member Appreciation Night at the Museums

Save the date for this annual summer event for members of all ages. This year, join us at the Harvard Semitic Museum to enjoy the new exhibition *Mediterranean Marketplaces*, taste foods from the region, try your hand at some ancient games, and interact with the collection in other fun ways. Light refreshments will be served. Not a member? Read about membership benefits on page 22.

Reservations open Monday, July 27. **HMSC**

Harvard Semitic Museum, 6 Divinity Avenue ⓘ



# New and Upcoming

## Uncovering Pacific Pasts

Harvard's Early Endeavors in Oceanic Anthropology

### PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

Open Saturday, March 7, 2020–Sunday, March 7, 2021



This small new exhibit explores how early Harvard scholars influenced the development of anthropology and archaeology in the Pacific region. Produced in collaboration with over thirty other museums around the world, Harvard's contributing exhibit will feature historical images and objects from the Peabody collections, including intricately carved Fijian clubs, models of distinctive Pacific outriggers, and a striking example of Samoan bark

cloth (*siapo*). Together they weave a compelling narrative about the ideas, people, and networks pivotal to both early understandings and ongoing studies of Oceania.

## Resetting the Table

Food and Our Changing Tastes

### PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

Open November 16, 2019–Sunday, November 28, 2021



This new exhibit explores food choices and eating habits in the United States, including the sometimes hidden, but always important, ways in which our tables are shaped by cultural, historical, political, and technological influences. Selections from ten Harvard University collections are featured.

# Exhibitions

## Mediterranean Marketplaces

Connecting the Ancient World

### HARVARD SEMITIC MUSEUM

Opens Sunday, April 5, 2020 (*permanent exhibit*)

Member Preview: Thursday, April 2

Modern consumers use the Internet and digital banking to acquire the latest products, but ancient peoples were also connected via complex marketplaces, where they traded, bought, and sold goods across their known world and beyond. Engage with the busy lives of farmers, craftsmen, travelers, and traders in *Mediterranean Marketplaces*. Discover ancient tablets and money used to facilitate commerce, and stunning ceramic, glass, and metalwork traded across the region. Use multimedia displays to examine the details of ancient objects and view underwater video of a Phoenician shipwreck. Peer into the ship's hold and touch precise replicas of one of its ceramic amphoras, as well as the farming and weaving tools used to make the products it carried.



# Upcoming Exhibitions

## From the Hands of the Makers

Innovation and Conservation of the Blaschka Glass Flowers

### **HARVARD MUSEUM OF NATURAL HISTORY**

Open Saturday, May 23, 2020–Monday, January 4, 2021

This new exhibit documents a half-century of model making by glass artist-scientists Leopold and Rudolf Blaschka. From 1886 to 1936 they together, and then Rudolf alone, produced increasingly realistic models through experimentation with techniques and materials. Refinements in the use of colored glass, pigments, and paint, as well as experimentation with glass formulations and surface coatings, gave life to leaves and flowers. This exhibit features a selection of spectacular models that help illustrate how the Blaschka methods and materials evolved over time, and it highlights how knowledge of these techniques shapes the conservation practices now employed to preserve these models.



# Glass Flowers in Print!



## ***Glass Flowers***

*Marvels of Art and Science at Harvard*

Photography by: Natalja Kent

Text by: Jennifer Brown, Scott E. Fulton, and Donald H. Pfister

144 pages / \$24.95 USD / Scala Arts Publishers / Publication date: June 2020

From orchids to bananas, rhododendrons to lilies, Leopold and Rudolf Blaschka created a stunning array of glass models of plants from around the world. Working exclusively for Harvard University in the late nineteenth and early twentieth centuries, the Blaschkas applied their artistic expertise and botanical knowledge to craft an extraordinary collection for Harvard students, researchers, and the public. The precise shaping and delicate coloring of the models renders lifelike details that fool the eye. Such detail is captured in dazzling new photographs of models that inspire wonder and blur the line between the real and the human-made.

# Museum Classes

## Adult Classes

All skill levels welcome

Saturday, February 29, 9:30 am–12:30 pm

### Drawing Butterflies and Moths in Colored Pencil

Instructor: Erica Beade

Explore the beauty of butterflies and moths using preserved museum specimens. This three-hour workshop will introduce observational drawing techniques with pencil and then dive into colored-pencil techniques to create a rich, vibrant image. \$58 members/\$65 nonmembers

Saturday, March 21, 9:30–11:30 am

### Sketching and Mindfulness

Instructor: Erica Beade

Taught by a professional artist and long-term, casual mindfulness practitioner, this two-hour workshop will explore how sketching can be a practice for deepening mindful awareness of our surroundings and how such awareness can enrich our sketching practice by helping quiet our inner voices. Participants will observe and draw natural objects from the museum's collections. \$54 members/\$60 nonmembers

Saturday, March 28, 10:00 am–4:00 pm

### Small Mammal Taxidermy Workshop

Instructor: Mickey Alice Kwapis *Adults 18+*

Learn about the history of taxidermy and then start your own taxidermy project! Using tanned hides, students will craft their own mannequin heads and bodies, learn how to set eyes and wire limbs, groom, pose, and more. At the conclusion of the workshop, students will keep their own small mammal mount. \$225 members/\$250 nonmembers

## For All Ages

All skill levels welcome

### Three One-Hour Entomology Workshops

Instructor: Mickey Alice Kwapis

Fun, engaging classes that can be enjoyed by all ages. Using sustainably sourced materials, students will learn about development, anatomy, and evolution by preparing and preserving arthropod specimens.

Sunday, March 29, 10:00–11:00 am

### Pinning and Learning

Giant Purple Grasshopper

\$45 members/\$50 nonmembers

Sunday, March 29, 11:30 am–12:30 pm

### Pinning and Learning

Atlas Beetle

\$45 members/\$50 nonmembers

Sunday, March 29, 1:00–2:00 pm

### Pinning and Learning

Forest Scorpion

\$45 members/\$50 nonmembers

All classes held at 26 Oxford Street

Advance registration is required  
For easy online registration, visit  
[hmsc.harvard.edu/education](https://hmsc.harvard.edu/education)

# Explore More!

## GUIDED TOURS

### HARVARD MUSEUM OF NATURAL HISTORY

#### **GLASS FLOWERS GROUP TOURS** • The Ware Collection of Blaschka Glass Models of Plants

Groups can reserve docent-led tours of the famous Blaschka Glass Flowers and *Sea Creatures in Glass* exhibits on Tuesday and Thursday afternoons. Advance registration is required. Registration, capacity, and fee information: [hmnh.harvard.edu/group-visits](https://hmnh.harvard.edu/group-visits)

### PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

#### **HIGHLIGHTS TOURS** • 45 minutes. Free with regular admission. Led by trained Harvard students.

Drop-in tours designed for adult visitors, led by Harvard student guides on Fridays, Saturdays, and Sundays during the academic year. Group tours may also be scheduled for other times. Available in select languages by advance request. Schedule, reservation, and tour topic information: [peabody.harvard.edu/visit](https://peabody.harvard.edu/visit)

#### **QUICK STOPS** • 25 minutes. Free with regular admission. Led by trained Harvard students.

Jump into a lively, informal chat with a trained Harvard student about a few particularly interesting museum artifacts and handle replicas of museum objects. Topics change daily and can focus on anything from Hopi pots, gongs, and Princess Leia to trays of glass eyes and life-size models of the "Typical American." Offered twice a week, reservations not required and coincide with free admission times for Massachusetts residents. Schedule and location: [peabody.harvard.edu/visit](https://peabody.harvard.edu/visit)

### HARVARD SEMITIC MUSEUM

#### **TOUCH TOURS** • 60 minutes. Free, but advance registration required. Led by trained guides.

Available for blind and visually impaired visitors, this interactive tour explores the *Stone to Silicone* exhibition featuring ancient Mesopotamia. Touchable replicas created by museum staff and Harvard students coupled with oral description spark discussion about the art in the Assyrian palace of King Ashurnasirpal II. Service animals are welcome.

For more information: [semiticmuseum.fas.harvard.edu/visit](https://semiticmuseum.fas.harvard.edu/visit)

#### **SELF-GUIDED AUGMENTED REALITY APP** • The Dream Stela of the Great Sphinx at Giza

Holding a free tablet device (available at the front desk), visitors can experience the stela in its original context between the paws of the Great Sphinx. Activated buttons enable the visitor to pop up translations of the stela hieroglyphs and to learn about the Sphinx, Giza, and King Thutmose IV.

For more information: [semiticmuseum.fas.harvard.edu/visit](https://semiticmuseum.fas.harvard.edu/visit)

SPRING 2020 LECTURE SERIES

# EVOLUTION MATTERS



Tuesday, March 3, 6:00 pm

## Who Discovered Evolution?

WILLIAM FRIEDMAN

Arnold Professor of Organismic and Evolutionary Biology; Director of the Arnold Arboretum, Harvard University



Tuesday, April 14, 6:00 pm

## Taking the Smithsonian's Fossil Halls into the Twenty-First Century

MATTHEW CARRANO

Curator of Dinosauria, National Museum of Natural History, Smithsonian Institution



Wednesday, April 1, 6:00 pm

## Wonderful Cambrian Beasts

JAVIER ORTEGA-HERNÁNDEZ

Assistant Professor of Organismic and Evolutionary Biology; Curator of Invertebrate Paleontology, Museum of Comparative Zoology Harvard University



Thursday, April 30, 6:00 pm

## The Last Common Ancestor

ASHLEY S. HAMMOND

Assistant Professor, Richard Gilder Graduate School; Biological Anthropology Curator, American Museum of Natural History

**HARVARD MUSEUM OF NATURAL HISTORY**

Free and open to the public • Free parking at 52 Oxford Street Garage  
Series supported by a generous gift from Drs. Herman and Joan Suit


**HMSC** HARVARD MUSEUMS OF SCIENCE & CULTURE

# The Shop at HMNH

Inspired by  
the museum  
collections



HMNH members receive a 10% everyday discount  
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# One membership. Four museums... and countless opportunities!

Membership in the Harvard Museums of Science & Culture opens the doors to four museums and provides special access and opportunities. In return, members support everything we do, from free public lectures and educational outreach to new exhibitions.



## Museum Access

HMSC members enjoy great benefits that include unlimited admission to all four HMSC museums, the Harvard Art Museums, and science centers worldwide through the ASTC Travel Passport Program.



## Additional Benefits

HMSC offers members special prices on classes, discounts in our museum shops, and access to several Harvard libraries. Free parking and guest passes are included at some membership levels.



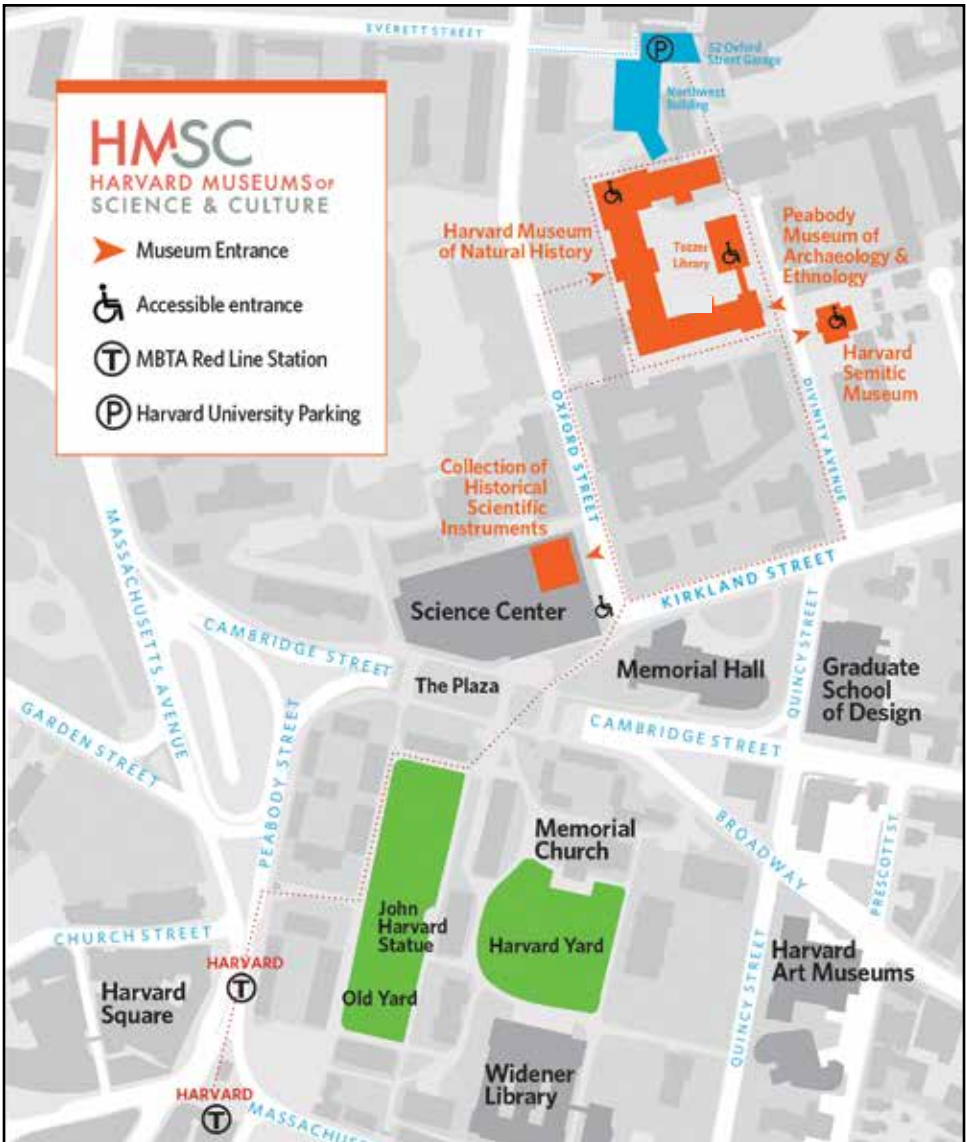
## Exclusive Events

Members receive invitations to exclusive programs, including curator-led exhibit tours and opportunities to go behind the scenes into Harvard's vast museum collections. During recent events, members have viewed rarely seen gold and jewels from the Mineralogical and Geological Museum and visited the Museum of Comparative Zoology's collection storage areas to see penguins, learn about adaptations in arctic mammals, and touch ancient fossils.

*See the August 20 Member Night on page 13*

For a full list of benefits or to become a member today, visit [hmsc.harvard.edu/membership](https://hmsc.harvard.edu/membership)

**Contact the Membership/Development Office**  
617-496-6972 or [members@hmsc.harvard.edu](mailto:members@hmsc.harvard.edu)



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Page 14 top: Model of an Outrigger Canoe (*vaka*) Tatakoto Atoll, French Polynesia. Gift of Alexander Agassiz, 1905. ©President and Fellows of Harvard College, Peabody Museum of Archaeology and Ethnology, #05-270/64866.

Page 14 bottom: Birch bark basket decorated with porcupine quillwork, Anishinaabe artist, early 20th century. #06-32-10/66574 ©President and Fellows of Harvard College, Peabody Museum of Archaeology and Ethnology.

Page 14 left: Greek silver coins, 5th century BC. Harvard Semitic Museum #1982.2.291.

Page 14 right: Pale-blue double Kohl flask, 4th-5th century AD. Harvard Semitic Museum #1902.5210

Page 16 left to right: *Platanus orientalis* (Model 728), Rudolf Blaschka, 1906; *Sisyrinchium bellum* (Model 426), Leopold and Rudolf Blaschka, 1894; *Hypericum ascyron* (Model 676), Rudolf Blaschka, 1900. The Ware Collection of Blaschka Glass Models of Plants, Harvard University Herbaria/Harvard Museum of Natural History. Photography by Natalja Kent © President and Fellows of Harvard College

Page 17: glass flower detail: *Dichanthelium xanthophyllum* (Model 774), Rudolf Blaschka, 1923. The Ware Collection of Blaschka Glass Models of Plants, Harvard University Herbaria/Harvard Museum of Natural History. Photography by Natalja Kent © President and Fellows of Harvard College

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Back cover: Green glass bowl. Harvard Semitic Museum #1907.7.33


# Plan Your Visit

The four HMSC museums are located within an eight-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. Persons with disabilities who would like to request accommodations or have questions about physical access can email: [lectures@hmsc.harvard.edu](mailto:lectures@hmsc.harvard.edu) in advance of the program or visit.

## GENERAL INFORMATION

General HMSC Information: 617-496-1638 / [hmsc.harvard.edu](http://hmsc.harvard.edu)

See individual websites for holiday closings

Free event 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](http://chsi.harvard.edu)

Putnam Gallery and the Special Exhibition Gallery are open:

Sunday–Friday, 11:00 am–4:00 pm / closed Saturdays

## HARVARD MUSEUM OF NATURAL HISTORY

26 Oxford Street, Cambridge, MA 02138

Information: 617-495-3045 / [hmn.harvard.edu](http://hmn.harvard.edu)

Open daily 9:00 am–5:00 pm

## HARVARD SEMITIC MUSEUM

6 Divinity Avenue, Cambridge, MA 02138

Information: 617-495-4631 / [semiticmuseum.fas.harvard.edu](http://semiticmuseum.fas.harvard.edu)

Sunday–Friday, 11:00 am–4:00 pm / closed Saturdays

## PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

11 Divinity Avenue, Cambridge, MA 02138

Information: 617-496-1027 / [peabody.harvard.edu](http://peabody.harvard.edu)

Open daily 9:00 am–5:00 pm

## HMSC SPRING 2020 EVENTS CALENDAR

**Saturday, February 8, 10:00 am–4:00 pm**  
**I ♥ Science**

**Tuesday, February 11, 6:00 pm**  
**What Makes Chocolate “Good”?**  
Carla D. Martin

**Thursday, February 13, 6:00 pm**  
**Ancient Egyptian Culture and Its Continuity in Modern Egypt**  
Fayza Haikal

**Thursday, February 20, 6:00 pm**  
**Infectious Cancers in Tasmanian Devils**  
Mark Margres

**Wednesday, February 26, 6:00 pm**  
**Olfaction in Science and Society**  
Catherine Dulac, Dawn Goldworm, Venkatesh Murthy

**Thursday, February 27, 6:00 pm**  
**The Ancient Maya Response to Climate Change**  
Billie L. Turner II  
Gordon R. Willey Lecture and Reception

**Saturday, February 29, 1:00–4:00 pm**  
**Dig into Dinner (Ages 4–8)**

**Tuesday, March 3, 6:00 pm**  
**Who Discovered Evolution?**  
William Friedman  
Evolution Matters Lecture Series

**Thursday, March 5, 6:00 pm**  
**The Khufu Boat**  
Bob Brier

**Tuesday, March 10, 6:00 pm**  
**Early Archaeology of the Pacific**  
Matthew Spriggs

**Thursday, March 19, 6:00 pm**  
**Does Food Have a Gender?**  
Barbara Haber, Lydia Shire, Louisa Kasdon

**Tuesday, March 24, 6:00 pm**  
**Love and Death in the Stone Age**  
Mary C. Stiner  
Hallam L. Movius, Jr. Lecture and Reception

**Sunday, March 29, 1:00–4:00 pm**  
**Amazing Archaeology Fair at Harvard**

**Wednesday, April 1, 6:00 pm**  
**Wonderful Cambrian Beasts**  
Javier Ortega-Hernández  
Evolution Matters Lecture Series

**Tuesday, April 14, 6:00 pm**  
**Taking the Smithsonian’s Fossil Halls into the Twenty-First Century**  
Matthew Carrano  
Evolution Matters Lecture Series

**Monday, April 20, 6:00 pm**  
**Apprenticeship in Ancient Egypt**  
Willeke Wendrich

**Thursday, April 23, 10:00 am–2:00 pm**  
**Meet a Scientist at the Harvard Museum of Natural History**

**Thursday, April 23, 6:00 pm**  
**The Obsidian Mirror: Literature and Archaeology in Mexico**  
Juan Villoro  
Eduardo Matos Moctezuma Lecture Series

**Saturday, April 25, 2:00–3:30 pm**  
**Diving with a Purpose: A Fifteen-Year Odyssey**  
Jay Haigler, Albert José Jones

**Thursday, April 30, 6:00 pm**  
**The Last Common Ancestor**  
Ashley S. Hammond  
Evolution Matters Lecture Series

**Thursday, May 21, 6:00 pm**  
**From the Hands of the Makers**  
Jennifer Brown, Natalja Kent, Scott E. Fulton, Donald H. Pfister

**Sunday, June 21, 5:00–9:00 pm**  
**Summer Solstice Celebration 2020**  
Night at the Harvard Museums of Science & Culture

**Saturday, July 25, 7:00–10:00 pm**  
**An Evening for Foodies: A 21+ Event**

**Thursday, August 20, 5:30–9:00 pm**  
**HMSC Member Appreciation Night at the Museums**

**HMSC** HARVARD MUSEUMS OF SCIENCE & CULTURE

Harvard University, 26 Oxford Street, Cambridge, MA 02138

Opens Sunday, April 5, 2020

**Mediterranean Marketplaces**  
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HARVARD SEMITIC MUSEUM

