



# HARVARD MUSEUMS OF SCIENCE & CULTURE

**SPRING 2019 PROGRAMS • EXHIBITS • CLASSES**

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





Detail of PRINCESS FLOWER, *Tibouchina semidecandra*. Ware Collection of Blaschka Glass Models of Plants

# One world. Four museums.

The Harvard Museums of Science & Culture are at the heart of a community dedicated to being at the forefront of research, teaching, and learning. As the public face of several Harvard museums, we aim to convey the excitement and relevance of discoveries made daily on campus, and to offer learning opportunities that reflect the University's diverse scholarship.

This spring we celebrate the tenth anniversary of the Evolution Matters Lecture Series, which explores all aspects—historical and contemporary—of evolutionary science, the foundational concept in biology. We also examine the wide-ranging interests of Harvard faculty, from studies of Earth and the Moon to the history of immigrant physicians in the American health care system. Programs such as I Heart Science and the Amazing Archaeology Fair showcase the research of Harvard graduate students—the scholars of the future. And, as academic work continues to dissolve barriers among disciplines, we feature programs that explore the connections between the arts and sciences.

We welcome you to join us on a far-reaching exploration of the natural world, scientific innovation, and human cultural history. 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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Free parking is available at the 52 Oxford Street Garage for all events marked with a (not applicable to classes or exhibitions). The April 5 and April 17 events will have free parking at the Broadway Garage, 7 Felton Street.

## FRONT COVER IMAGES (clockwise from top left)



### Chinese Raw Silk Dyed Aniline Red

Shanks of magenta raw silk coil within a glass bottle labeled "Chemical Library of Harvard College." Placed there in 1891, samples like this document the lab's work on synthetic dyes for the textile industry. Collection of Historical Scientific Instruments #4711



### Women's Embroidered Dress and Jacket

Syria. Late nineteenth century AD. Likely made of cotton. Purchased from D. Tarazi & Sons, Jerusalem. On view in *From the Nile to the Euphrates: Creating the Harvard Semitic Museum*. Harvard Semitic Museum #1902.39.4a/b



### Black-Cowled Oriole Nest

A native of the Caribbean, the Black-Cowled Oriole, *Icterus dominicensis prothemelas*, weaves grasses or other flexible vegetation into a pouch-shaped nest similar to those made by other New World orioles. On view in the second-floor bird-nest display at the HMNH. Museum of Comparative Zoology, Harvard University #364267



### Mola (Panel from a Kuna Woman's Blouse)

Traditional twentieth-century women's blouses of Panama's Kuna people include reverse appliqué textile panels called "molás." Sometimes embroidered, molas feature the natural world and daily life in original ways, creating statements of Indigenous identity. This one, from Panama's San Blas Islands, includes people, umbrellas, and flags. Peabody Museum of Archaeology & Ethnology #971-14-20/23884

SPRING 2019 LECTURE SERIES

# EVOLUTION

CELEBRATING TEN YEARS EXPLORING NEW



Thursday, February 28, 6:00 pm

## Evolution Matters: David Quammen and Carl Zimmer

DAVID QUAMMEN Author and Journalist

CARL ZIMMER Author and *New York Times* Columnist

In celebration of the tenth anniversary of the Evolution Matters Lecture Series at HMNH, two of the world's best-known science writers will engage in a lively and wide-ranging conversation about the most important idea in biology—evolution.

Thursday, April 18, 6:00 pm

## Frontiers in Evolution

ANDREW J. BERRY, MODERATOR

Lecturer on Organismic and Evolutionary Biology, Harvard University

Join us for a series of short “flash” lectures, presented by Harvard graduate students, to learn about the range of questions that scientists are asking today about evolution.

# MATTERS

IDEAS IN EVOLUTIONARY SCIENCE



Thursday, March 28, 6:00 pm

## Viruses: The Good, the Bad, and the Ugly

PAUL TURNER

Elihu Professor of Ecology and Evolutionary Biology and Microbiology Program Faculty Member, Yale University

Paul Turner will discuss the “good, bad, and ugly” effects of viruses, from how they wreak havoc in biological systems to how they are used to control pests and develop cancer treatments.

Presented in collaboration with the Microbial Sciences Initiative at Harvard University



Wednesday, April 10, 6:00 pm

## Chasing Ants (And Their Microbes) in the Rainforest

CORRIE MOREAU

Moser Professor of Arthropod Biosystematics and Biodiversity, Cornell University

Ants rely on the microbial communities living in their guts to process food and make strong armor. Corrie Moreau will examine this unique aspect of ant biology and what it tells us about ants in terrestrial ecosystems.

Presented in collaboration with the Microbial Sciences Initiative at Harvard University

SUPPORTED BY A GENEROUS GIFT FROM

DRS. HERMAN AND JOAN SUIT

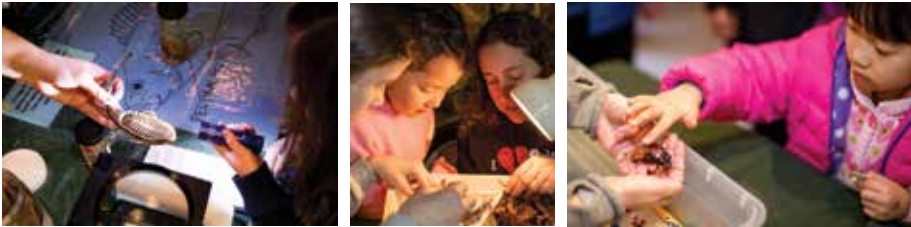
Saturday, February 9, 10:00 am–4:00 pm

## I ♥ Science

### A Museum Festival for All Ages

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. Observe tiny, tough tardigrades (microscopic “water bears”), and make your own model of one. Bring your own collections to show to local shell and mineral clubs. This annual festival 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



Wednesday, February 13, 6:00 pm

## Traces and Tracks

### Journeys with the San

PAUL WEINBERG  
Photographer



For nearly three decades, Paul Weinberg has traveled to Namibia, Botswana, and South Africa to document the lives of hunter-gatherer communities, the San (Africa’s first people), and their struggles to hang on to their land, culture, and values as they faced serious threats by outside settlers. Weinberg will discuss his book *Traces and Tracks* (2017, Jacana Media), the culmination of his thirty-year journey, featuring essays and over 100 photographs that convey the modern-day San’s daily lives, their relationship to nature and game parks, and their ways of adjusting to a fast-changing world.

Lecture and Book Signing. Free and open to the public. **PMAE**  
Geological Lecture Hall, 24 Oxford Street  
Presented in collaboration with Documentary Educational Resources



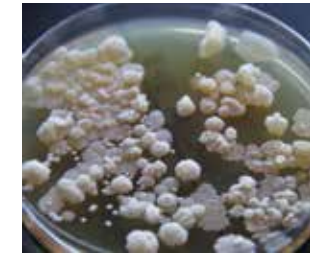
Thursday, February 14, 6:00 pm

## Designing Living Things

CHRISTINA AGAPAKIS  
Creative Director, Ginkgo Bioworks

Biology can be a design medium: scientists can now “write” DNA and manipulate microbial behavior. In the future, they could also reshape entire ecosystems. Christina Agapakis is a synthetic biologist, writer, and artist who collaborates with engineers, designers, artists, and social scientists to explore the many unexpected connections between microbiology, technology, art, and popular culture. In this lecture, she will discuss current and potential uses of biotechnology in various fields from agriculture and medicine to consumer goods and renewable energy.

Lecture. Free and open to the public. **HMNH**  
Geological Lecture Hall, 24 Oxford Street  
Presented in collaboration with the  
Microbial Sciences Initiative at Harvard University



Wednesday, February 20, 6:00 pm

## The Amazonian Travels of Richard Evans Schultes

MARK PLOTKIN  
Co-Founder and President, the Amazon Conservation Team

BRIAN HETTLER  
GIS and New Technologies Manager, the Amazon Conservation Team

Richard Evans Schultes—ethnobotanist, taxonomist, writer, photographer, and Harvard professor—is regarded as one of the most important plant explorers of the twentieth century. In 1941, Schultes traveled to the Amazon rainforest on a mission to study how Indigenous peoples used plants for medicinal, ritual, and practical purposes. A new interactive online map, produced by the Amazon Conservation Team, traces the landscapes and cultures that Schultes explored in the Colombian Amazon. Plotkin and Hettler will share this map and discuss the relevance of Schultes’ travels and collections for science, conservation, and education in the twenty-first century.

Lecture. Free and open to the public. **HMNH PMAE**  
Geological Lecture Hall, 24 Oxford Street  
Presented in collaboration with the Amazon Conservation Team and the David Rockefeller Center for Latin American Studies  
Reception supported by the Harvard Chapter of Sigma Xi



Thursday, February 21, 6:00 pm

## Magic and Demonology in Ancient Egypt

RITA LUCARELLI

Assistant Professor of Egyptology, Department of Near Eastern Studies; Assistant Curator of Egyptology, Phoebe A. Hearst Museum of Anthropology, University of California, Berkeley



Ancient Egyptian texts and objects associated with funerary rituals often include references to “magic” and “demons.” Rita Lucarelli will look at how these concepts were defined and used in ancient Egypt, with a special focus on the roles that demons played in magical practices and spells. Through an examination of textual and material sources produced from the early Pharaonic to the Greco-Roman periods, she will also address how Egyptian beliefs about demons compare with those of other ancient cultures.

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

Thursday, February 28, 6:00 pm

## Evolution Matters: David Quammen and Carl Zimmer

DAVID QUAMMEN

Author and Journalist

CARL ZIMMER

Author and *New York Times* Columnist

Celebrating the tenth anniversary of the Evolution Matters Lecture Series, two of the world’s best-known science writers will engage in a lively and wide-ranging conversation. From a discussion of their latest books on heredity and the history of life on Earth to the story of how two English majors became award-winning practitioners of scientific non-fiction, they will explore the most important idea in biology—evolution.

**Evolution Matters Lecture Series**

Special Event and Book Signing. 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, March 5, 6:00 pm

## Making the Earth and Moon

REBECCA A. FISCHER

Clare Boothe Luce Assistant Professor, Department of Earth and Planetary Sciences, Harvard University

Earth formed 4.5 billion years ago in a series of giant collisions between other planetary bodies, the last of which produced the Moon. The fingerprints of this process can be seen in the chemical compositions of Earth and the Moon, which are remarkably similar. Mathematical models of Earth’s growth, the Moon’s formation, and their evolution to form metallic cores with rocky mantles and crusts offer greater understanding of these observations. Rebecca Fischer will look at the hypotheses for how Earth and the Moon came to be geochemical twins and she will present new models that offer insight into why this occurred.

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



Tuesday, March 12, 6:00 pm

## The Care of Foreigners Immigrant Physicians and the U.S. Health Care System

ERAM ALAM

Assistant Professor of History of Science, Harvard University

In 1965, the United States invited thousands of physicians from other countries to fill vacancies that could not be filled with American doctors. While this strategy was meant to be a short-term solution, it became a permanent feature of the U.S. health care system. Today, one quarter of practicing doctors in the U.S. are international medical graduates. Eram Alam will discuss the sociopolitical circumstances that encouraged physician migration to the U.S., the enduring consequences of this migration to communities across the country, and the challenges that immigrant doctors face in the U.S.

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



Thursday, March 14, 6:00 pm


## Art and Science Converge in the Deep Sea

LILY SIMONSON  
Painter

PETER R. GIRGUIS  
Professor of Organismic and Evolutionary Biology, Harvard University



Lily Simonson and Peter Girguis exemplify the long tradition of artists and scientists working in tandem to explore new worlds—in their case, the magnificent deep sea. Simonson will discuss how the immersive, glowing canvases in her current exhibition at the Harvard Museum of Natural History, *Lily Simonson: Painting the Deep*, have been shaped by collaborations with scientists—whether exploring the depths of the ocean in a submersible or scuba diving beneath Antarctic sea ice. Girguis, in turn, will reveal how working at sea with an artist has shaped his research and enabled him to see familiar organisms and environments in new ways.

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


Tuesday, March 26, 5:30–7:00 pm

## Celebrate Nowruz



Celebrate the Persian New Year and the beginning of spring with poetry, live music, traditional sweets, and an introduction to the traditional *haft seen* table. More than 3,000 years old, Nowruz (“new day”) originated in ancient Persia and became a popular celebration in communities influenced by Persian culture, including Iran, the Caucasus, Central Asia, and Western China. Drop in for a presentation of Nowruz customs and activities and help build community for 1398, the new year in the Persian calendar.

Presented in collaboration with the Davis Center for Russian and Eurasian Studies, the Center for Middle Eastern Studies, the Harvard GSAS Iranian Student Association, the Harvard College Iranian Association, and the Alwaleed Islamic Studies Program, Harvard University


Special Event. Open to the public. Free with advance registration. **HSM**  
Registration required by March 23 at [semiticmuseum.fas.harvard.edu](http://semiticmuseum.fas.harvard.edu)  
Harvard Semitic Museum, 6 Divinity Avenue 

Wednesday, March 27, 6:00 pm

## Ancient Egyptian Gardens

CHRISTIAN E. LOEBEN  
Egyptologist and Keeper of Egyptian and Islamic Arts,  
Museum August Kestner, Hanover, Germany

The oldest documented gardens in the world are from ancient Egypt. Gardens were described in hieroglyphic texts and depicted in paintings, and many have been recovered through archaeology. From these sources we know that ancient Egyptians maintained gardens at temples and tombs, as well as at royal palaces and local residences. Drawing on comparisons among paintings of gardens from over fifty Egyptian tombs and archaeological garden sites, Christian Loeben will highlight the symbolism and functions of gardens in the religious and personal lives of ancient Egyptians.

Lecture. Free and open to the public. **HSM**  
Geological Lecture Hall, 26 Oxford Street 



Thursday, March 28, 6:00 pm

## Viruses: The Good, the Bad, and the Ugly

PAUL TURNER  
Elihu Professor of Ecology and Evolutionary Biology and  
Microbiology Program Faculty Member, Yale University

Viruses are the tiniest but most numerous inhabitants of Earth. Although notorious for causing deadly epidemics, not all viruses are bad. Many are beneficial to their hosts and several play key roles in maintaining the health of ecosystems. Paul Turner will discuss the “good, bad, and ugly” effects of viruses, from how they invade organisms and wreak havoc in biological systems to how they are used to control pests and develop cancer treatments, among other medical therapies.

**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  
Presented in collaboration with the Microbial Sciences Initiative at  
Harvard University



Sunday, March 31, 12:00–4:00 pm

## Amazing Archaeology Fair at Harvard

Join Harvard archaeology students in the museum galleries as they share their experience from excavations around the world and across time. Examine artifacts and see what archaeologists do. Try launching a spear with a spear thrower (weather permitting), carve cuneiform writing on clay, and experience up-to-the-minute technologies such as 3D printing and augmented reality. Test your listening skills in the World Music Challenge game hosted by colleagues from the social anthropology department. Activities will be spread across both the Peabody and the Harvard Semitic Museums. *Enter at the Peabody Museum before 12:00 pm for free admission.*

Special Event. Regular museum admission rates apply. **PMAE HSM**  
11 Divinity Avenue. Visit website for event details: [peabody.harvard.edu](http://peabody.harvard.edu) ⓘ



Tuesday, April 2, 6:00 pm

## Living with White Sharks

GREGORY SKOMAL

Program Manager and Senior Scientist, Massachusetts Division of Marine Fisheries



The Cape Cod white shark population has increased in recent years in response to the dramatic increase in the seal population. Shark sightings—some close to popular swimming and surfing beaches—are becoming more frequent and negative interactions between sharks and humans have become a real concern. Gregory Skomal has studied and tracked white sharks in the Atlantic for more than 30 years. In this lecture, he will examine the behavior, ecology, natural history, and population dynamics of this species, and how scientific research can help sharks and humans coexist in the Cape Cod waters.

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

Wednesday, April 3, 6:00 pm

## The Making of a Theban Tomb Chapel

MELINDA HARTWIG

Curator of Ancient Egyptian, Nubian, and Near Eastern Art, Michael C. Carlos Museum, Emory University

Thebes, one of Egypt's largest archaeological sites, is famous for its numerous tombs and temples that offer an unparalleled window into ancient Egyptian culture and craftsmanship. Melinda Hartwig will discuss the painting and texts found in the unfinished Theban tomb chapel of Neferrenpet (known as Theban Tomb 43) dating to Egypt's eighteenth dynasty. She will show what they reveal about the career and family of the tomb's owner, the craftsmen who decorated the tomb, and more generally the artistic approach to making and decorating tombs in ancient Egypt.

Lecture. Free and open to the public. **HSM**  
For event location, visit [semiticmuseum.fas.harvard.edu](http://semiticmuseum.fas.harvard.edu) ⓘ  
Presented with the support from the Marcella Tilles Memorial Fund



Friday, April 5, 6:00 pm

## CHERMAN > A PERUVIAN GRAFIK XPERIENZ

CHERMAN

Graphic Artist

Cherman (Germán Quino Ganoza) is a graphic artist known for his portraits of more than 300 Peruvian cultural, historical, and political icons. Influenced by comics, cartoons, TV series, urban life, and gastronomy, Cherman's work aims to showcase and reflect the multifaceted dimensions of Peruvian society and identity—often with humor and incisive social commentary. Cherman will reflect on his art over the past 30 years, discuss the roots of his pop aesthetic, and share the philosophy behind his current work in *Chermany*, an imagined nation where graphic art exists in its purest form and where everything is possible.

Lecture. Free and open to the public. **PMAE**  
Tsai Auditorium, 1730 Cambridge Street  
Complimentary parking: Broadway Garage, 7 Felton Street ⓘ  
Presented in collaboration with the David Rockefeller Center for Latin American Studies and the Harvard Art Museums



Tuesday, April 9, 6:00 pm

## Self-Domestication in Bonobos and Other Wild Animals

RICHARD WRANGHAM

Ruth Moore Professor of Biological Anthropology,  
Department of Human Evolutionary Biology, Harvard University



Domesticated animals such as dogs, pigs, and horses often sport floppy ears, patches of white hair, and other features that are unknown in their wild ancestors. These traits—collectively referred to by scientists as a “domestication syndrome”—are the result of breeding less aggressive individuals. Drawing from his new book, *The Goodness Paradox* (2019, Pantheon Books), Richard Wrangham will show that our cousin apes, the bonobos, also exhibit a domestication syndrome, making them the first clear example of a “wild domesticate.” Self-domestication in the wild now seems likely to be a widespread phenomenon, responsible even for the evolution of our own species, *Homo sapiens*.

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

Wednesday, April 10, 6:00 pm

## Chasing Ants (And Their Microbes) in the Rainforest

CORRIE MOREAU

Moser Professor of Arthropod Biosystematics and Biodiversity, Cornell University



Microbes play critical roles in the biology and health of human beings, but we are not the only species that benefits from intimate relationships with microbes. Ants, for instance, rely on the microbial communities living in their guts to process food and make strong armor. Corrie Moreau will discuss this unique aspect of ant biology and what it tells us about the diversity and dominance of ants in terrestrial ecosystems, the evolutionary history of social insects, and the broad-scale evolutionary patterns of life.

**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 Presented in collaboration with the Microbial Sciences Initiative at Harvard University

Tuesday, April 16, 6:00 pm

## The Mexican Revolution of 1910

A Sociohistorical Interpretation

JAVIER GARCADIIEGO DANTÁN

Historian and Author; Director, Academia Mexicana de la Historia; Former President of El Colegio de México

A rigged election and a political crisis among competing elites, middle classes, and rural workers: What could go wrong? The Mexican Revolution of 1910 began as a multilocal revolt against the 35-year regime of dictator Porfirio Díaz and evolved into a national revolution and civil war lasting nearly a decade. Javier Garciadiego—a leading historian of Mexico’s revolution—will discuss the precursors, armed struggles, political factions, U.S. manipulations, and triumphs of Mexico’s revolution, including the development of a landmark constitution—one of the first in the world to enshrine social rights.

**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 Moses Mesoamerican Archive, and Harvard Divinity School



Wednesday, April 17, 6:00 pm

## The American Land Museum

Places as Cultural Artifacts

MATTHEW COOLIDGE

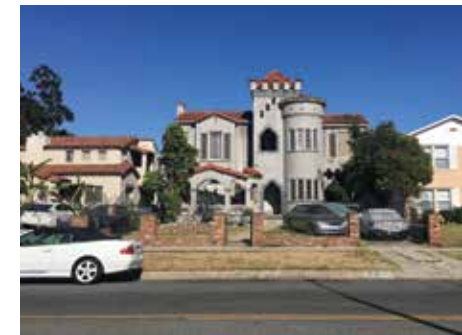
Director, Center for Land Use Interpretation

The Center for Land Use Interpretation explores how land in the United States is apportioned, utilized, and perceived. Through exhibitions and public programs, the Center interprets built landscapes—from landfills and urban waterfalls to artificial lakes—as cultural artifacts that help define contemporary American life and culture. Coolidge will discuss the Center’s approach to finding meaning in the intentional and incidental forms we create and also talk about the Center’s efforts to develop the American Land Museum, a curated selection of locations across the country that exemplify our relationship with the American landscape.

**Curatorial Innovations Lecture.** Free and Open to the Public. HMSC

Menschel Hall, Harvard Art Museums, 32 Quincy Street Complimentary parking: Broadway Garage, 7 Felton Street

Presented in collaboration with the Harvard Art Museums and the Harvard Graduate School of Design



Thursday, April 18, 10:00 am-12:00 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 and our planet. Graduate students from the departments of Organismic and Evolutionary Biology, Human Evolutionary Biology, Molecular and Cellular Biology, and Earth and Planetary Sciences at Harvard University will share their research with hands-on activities in the HMNH galleries. 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 Presented in collaboration with the Cambridge Science Festival

Thursday, April 18, 6:00 pm

## Frontiers in Evolution

MODERATED BY ANDREW J. BERRY

Lecturer on Organismic and Evolutionary Biology, Harvard University



New approaches to studying evolutionary processes, from genomics to big data, have revolutionized the study of organisms across geological time and geographical space. Join us for a series of short “flash” lectures presented by Harvard graduate students and learn about the range of questions that scientists are asking today about evolution.

### Evolution Matters Lecture Series

Special Event. 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 Presented in collaboration with the Cambridge Science Festival

Thursday, April 25, 6:00 pm

## Caspian: The Elements

CHLOE DEWE MATHEWS

Artist, Photographer, and Filmmaker

For five years British photographer Chloe Dewe Mathews traveled through the countries surrounding the Caspian Sea: Kazakhstan, Azerbaijan, Turkmenistan, Russia, and Iran. In images that range from stark and elemental to lush and mysterious, she recorded the vastly diverse peoples, politics, and geography of Central Asia, centering always on the great inland sea. In this conversation with Makeda Best, Richard L. Menschel Curator of Photography at the Harvard Art Museums, Dewe Mathews will discuss her project and new book, *Caspian: The Elements* (2018, Aperture and Peabody Museum Press), along with her new Peabody Museum exhibition.

Exhibition Preview, Book Signing, and Reception. Free and open to the public. **PMAE** Geological Lecture Hall, 24 Oxford Street



Wednesday, May 1, 6:00 pm

## New England in the South Seas Two Centuries of Trade and Exploration

INGRID AHLGREN

Curator of Oceania, Peabody Museum of Archaeology & Ethnology

As early as the 1700s, the fledgling United States actively explored and exchanged goods with the islands across the great wide Pacific Ocean. New England—and Massachusetts in particular—played an active, varied role in these explorations, which included the China Pacific trade, the whaling industry, the foreign Christian ministries, and the Trust Territory of the Pacific Islands. Ingrid Ahlgren will illuminate some of these historical legacies and show how Peabody Museum objects can shed light on the unique relationships and exchanges between Pacific Islanders and New Englanders.

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



Tuesday, May 21, 6:00 pm

### Preserving Zapotec Weaving Practices

PORFIRIO GUTIÉRREZ

Zapotec Master Dyer and Textile Artist

The town of Teotitlán Del Valle in the Mexican state of Oaxaca is renowned for its weaving traditions and its importance as a Zapotec cultural center. Porfirio Gutiérrez will examine the rich history of Zapotec weaving from the perspective of its practitioners. He will also discuss his studio's role in preserving and promoting the use of natural dyes in his community, and abroad, using pigments derived from plants and insects.

Lecture. Free and open to the public. PMAE

Geological Lecture Hall, 24 Oxford Street

Visit [peabody.harvard.edu](http://peabody.harvard.edu) for information on wool-dyeing workshops with Porfirio Gutiérrez on May 18-19, 2019



Friday, June 21, 5:00-9:00 pm

### Summer Solstice Celebration 2019

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

Celebrate the longest day of the year and mark the beginning of the summer season at the Harvard Museums of Science and 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 very festive event and stay tuned for details.

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

Presented by Harvard Museums of Science & Culture

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



Saturday, July 20, 7:00-10:00 pm

### A Lunar Soirée

Celebrate the fiftieth anniversary of the 1969 moon landing at this one-of-a-kind evening event exclusively for guests 21+. Enjoy cocktails, beer, light refreshments, and 60s music, as well as moon-inspired demonstrations and activities. Stay tuned for the full program!

Special Event. HMNH PMAE

Advance tickets required: \$20 members/\$25 nonmembers

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



Thursday, August 22, 5:30-8:30 pm

### Annual HMSC Member Appreciation Night

Save the date for our second annual HMSC Member Appreciation Night. Members of all ages can take part in family-friendly activities, view specimens up close, and interact with the collections in new and fun ways. Light refreshments will be served. Not a member? Read about membership benefits on page 22.



# SPRING 2019 NEW EXHIBITS

## Climate Change

HARVARD MUSEUM OF NATURAL HISTORY  
Open Now. Ongoing Exhibition

The Harvard Museum of Natural History has just opened an important new exhibit on climate change that draws on the latest science about our warming climate, the global and local consequences, and what we can do to prepare for its effects. This multimedia exhibit includes engaging video and storm simulations, a “check your knowledge” interactive station, and a dramatic inside look at a high-tech Argo float from the Woods Hole Oceanographic Institution—one of 4,000 deployed worldwide to monitor global oceans and climate.

Developed in collaboration with the Harvard University Center for the Environment, *Climate Change* offers visitors the hard facts about one of the world’s greatest challenges.

*This exhibit was made possible with generous financial support from Clark Bernard MBA '68 and Susana Bernard, together with support from Jonathan Goldstein MBA '90 and Kaia, Annika, and Skylar Goldstein in honor of Professor James J. McCarthy and Sue McCarthy.*



**Satellite Image of California's Camp Fire**

Extreme drought and record heat have laid the groundwork for hugely destructive and deadly wildfires, including the now infamous “Camp Fire,” seen here a few hours after it ignited on November 8, 2018.



## Caspian: The Elements

Chloe Dewe Mathews

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY  
Saturday, April 27, 2019–Monday, February 17, 2020

*Caspian: The Elements* is a new exhibit featuring the evocative imagery of Chloe Dewe Mathews, the 2014 recipient of the Peabody Museum’s Robert Gardner Fellowship in Photography. The exhibit documents her extraordinary five-year journey through the contested borderlands of the Caspian Sea, and reveals the essential role played by elemental materials like oil, rock, and uranium in the practical, artistic, spiritual, and therapeutic aspects of daily life. *Caspian: The Elements* is a powerful photographic narrative that explores the deep links between the peoples of the Caspian and their enigmatic and coveted landscapes.

*See exhibition-related lecture by Chloe Dewe Mathews on page 15.*

# Museum Classes

## FAMILY PROGRAMS

Family Programs (families with elementary-age children 5 years+ and one adult required). Fees: \$15 members/\$25 nonmembers. Fees are per person and include museum admission. Reservations required.



Sunday, February 10

10:00-11:30 am or 1:00-2:30 pm HSM

### Exploring Culture Together: Olives!

Ages 6+ with an adult

Meet at Peabody Museum, 11 Divinity Avenue

Instructor: Andrew Majewski

Saturday, March 2, 10:30 am-12:00 pm HMNH

### Exploring Science Together: Minerals!

Instructor: Amy Gunzelmann

Saturday, May 11, 10:30 am-12:00 pm HMNH

### Exploring Science Together: Marine Life!

Instructor: Amy Gunzelmann

Saturday, July 13, 10:30 am-12:00 pm HMNH

### Exploring Science Together: Bugs!

Instructor: Amy Gunzelmann



## ADULT CLASSES

All skill levels are welcome.



Saturday, March 9, 9:30 am-12:30 pm HMNH

### Plumage and Personality An Art and Science Workshop

\$45 members/\$55 nonmembers

Instructors: Dakota McCoy and Erica Beade



Four Saturdays: 9:30-11:30 am HMNH

March 30, April 6, 13, and 27

### The Art of Botanical Drawing

A Four-Session Course

\$110 members/\$130 nonmembers

Instructor: Erica Beade

All classes are held at 26 Oxford Street unless otherwise indicated.

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

# Explore More!

## GUIDED TOURS

### HARVARD MUSEUM OF NATURAL HISTORY

#### 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. For registration, capacity, and fee information, visit [hmn.harvard.edu/group-visits](http://hmn.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 French, Spanish, or Mandarin by advance request. For schedule, reservation, and tour topic information, visit [peabody.harvard.edu/visit](http://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 eyes and monuments to the "Typical Human." Offered twice a week, reservations not required, and coincide with free admission times for Massachusetts residents. For schedule and location, visit [peabody.harvard.edu/visit](http://peabody.harvard.edu/visit).

### HARVARD SEMITIC MUSEUM

#### Lunchtime tours: 30 minutes. Free. Monthly. Led by trained docents.

Free 30-minute lunchtime tours each month. Individualized group tours can also be scheduled. For more information, visit [semiticmuseum.fas.harvard.edu/visit](http://semiticmuseum.fas.harvard.edu/visit).

## SELF-GUIDED TOURS

### MOBILE GALLERY GUIDES

*Dreaming the Sphinx* HSM

*From the Nile to the Euphrates: Creating the Harvard Semitic Museum* HSM

*Digging Veritas: Archaeology and History of the Indian College and*

*Student Life at Colonial Harvard* PMAE



# 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.

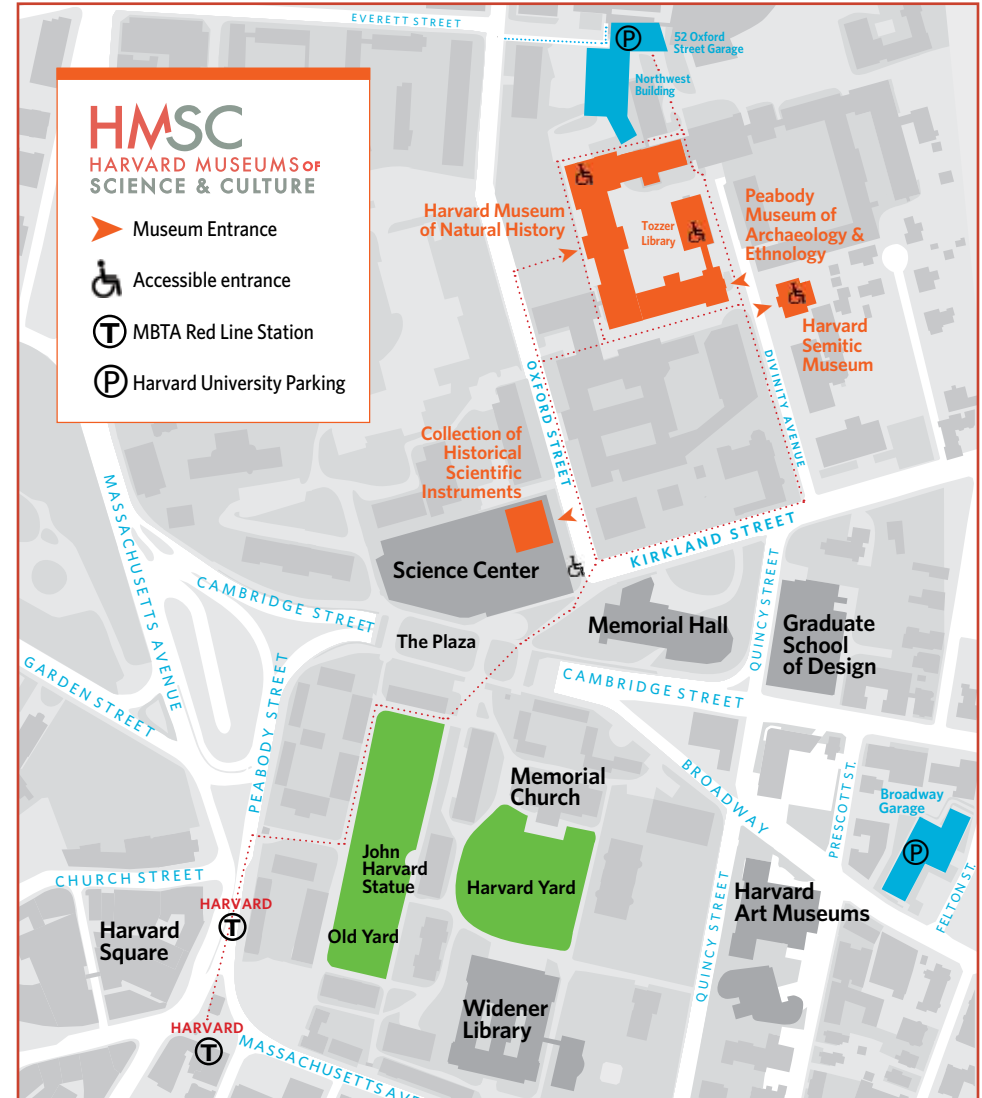
## Exclusive Events

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 touched extraordinary fossils from the Museum of Comparative Zoology's paleontology collections, learned about artifacts in the Peabody Museum, and viewed rarely seen gold and jewels from the Mineralogical and Geological Museum.

See the *August 22 Member's Night* on page 17!

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

## 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: 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



Saturday, February 9, 10:00 am–4:00 pm  
**I Heart Science: A Museum Festival**

Wednesday, February 13, 6:00 pm  
**Traces and Tracks**  
Paul Weinberg

Thursday, February 14, 6:00 pm  
**Designing Living Things**  
Christina Agapakis

Wednesday, February 20, 6:00 pm  
**The Amazonian Travels of Richard Evans Schultes**  
Mark Plotkin and Brian Hettler

Thursday, February 21, 6:00 pm  
**Magic and Demonology in Ancient Egypt**  
Rita Lucarelli

Thursday, February 28, 6:00 pm  
**Evolution Matters**  
David Quammen and Carl Zimmer  
Evolution Matters Lecture Series

Tuesday, March 5, 6:00 pm  
**Making the Earth and Moon**  
Rebecca A. Fischer

Tuesday, March 12, 6:00 pm  
**The Care of Foreigners**  
Eram Alam

Thursday, March 14, 6:00 pm  
**Art and Science Converge in the Deep Sea**  
Lily Simonson and Peter R. Girguis

Tuesday, March 26, 5:30–7:00 pm  
**Celebrate Nowruz**

Wednesday, March 27, 6:00 pm  
**Ancient Egyptian Gardens**  
Christian E. Loeben

Thursday, March 28, 6:00 pm  
**Viruses: The Good, the Bad, and the Ugly**  
Paul Turner  
Evolution Matters Lecture Series

Sunday, March 31, 12:00–4:00 pm  
**Amazing Archaeology Fair at Harvard**

Tuesday, April 2, 6:00 pm  
**Living with White Sharks**  
Gregory Skomal

Wednesday, April 3, 6:00 pm  
**The Making of a Theban Tomb Chapel**  
Melinda Hartwig

Friday, April 5, 6:00 pm  
**CHERMANY > A PERUVIAN GRAFIK XPERIENZ**  
Cherman

Tuesday, April 9, 6:00 pm  
**Self-Domestication in Bonobos and Other Wild Animals**  
Richard Wrangham

Wednesday, April 10, 6:00 pm  
**Chasing Ants (And Their Microbes) in the Rainforest**  
Corrie Moreau  
Evolution Matters Lecture Series

Tuesday, April 16, 6:00 pm  
**The Mexican Revolution of 1910**  
Javier Garciadiego Dantán  
Eduardo Matos Moctezuma Lecture Series

Wednesday, April 17, 6:00 pm  
**The American Land Museum**  
Matthew Coolidge  
Curatorial Innovations Lecture

Thursday, April 18, 10:00 am–12:00 pm  
**Meet a Scientist at the Harvard Museum of Natural History**

Thursday, April 18, 6:00 pm  
**Frontiers in Evolution**  
Moderator, Andrew Berry  
Evolution Matters Lecture Series

Thursday, April 25, 6:00 pm  
**Caspian: The Elements**  
Chloe Dewe Mathews

Wednesday, May 1, 6:00 pm  
**New England in the South Seas**  
Ingrid Ahlgren

Tuesday, May 21, 6:00 pm  
**Preserving Zapotec Weaving Traditions**  
Porfirio Gutiérrez

Friday, June 21, 5:00–9:00 pm  
**Summer Solstice Celebration 2019**

April 27, 2019–February 17, 2020

**CASPIAN: THE ELEMENTS**

**Chloe Dewe Mathews**

2014 Recipient of the Peabody Museum  
Robert Gardner Fellowship in Photography

