

HARVARD MUSEUMS OF SCIENCE & CULTURE

# SPRING 2022

COLLECTION OF HISTORICAL SCIENTIFIC INSTRUMENTS

HARVARD MUSEUM OF NATURAL HISTORY

HARVARD MUSEUM OF THE ANCIENT NEAR EAST

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

# One world. Four museums.

“Let us spend one day as deliberately as Nature”

As we welcome a new year ripe with promise and intention, I am reminded of philosopher, naturalist, and Massachusetts's own native son, Henry David Thoreau, and his urging to “let us spend one day as deliberately as Nature.” Thoreau’s clarion call to intentionally lean into our surroundings and learn from nature—and by extension, the global community to which we all belong—is a fitting metaphor for our Spring 2022 season of exhibits, programs, classes, gallery tours, and educational experiences.

The Harvard Museums of Science & Culture invite you to examine the natural world and climate change at the intersections of science, art, and history through our interactive exhibition, *In Search of Thoreau’s Flowers: An Exploration of Change and Loss*. Delve into the remarkable history of the tiny insect that made Mexico an epicenter of technological innovation and transformed the landscape of Indigenous textiles and art with our bilingual online exhibition, *Cochineal: How Mexico Made the World See Red*. Explore the intricate African knowledge systems that traversed the transatlantic slave trade and informed rice cultivation practices in the Americas and Gullah Geechee descendant community culture and subsistence traditions in our mini-installation *Rice: A Story of Africa and the Americas*.

In addition to our onsite experiences, we hope you’ll tune in for an extraordinary season of virtual programs and evening lectures by prized scholars and interdisciplinary thinkers from across the sciences and humanities.

Our Spring programming was designed with vision and intentionality as we, too, strive to act as “deliberately as Nature.” We hope you enjoy what we have in store.

**Brenda Tindal**  
Executive Director, Harvard Museums of Science & Culture



# Un mundo. Cuatro museos.

## “Tan deliberadamente como la Naturaleza”

Al darle la bienvenida a un nuevo año lleno de promesas e intenciones, me acuerdo del filósofo, naturalista y originario de Massachusetts, Henry David Thoreau, y su exhortación a “pasar un día tan deliberadamente como la naturaleza.” La invitación de Thoreau para acercarnos intencionalmente a nuestro entorno y aprender de la naturaleza—y, por extensión, de la comunidad global a la que todos pertenecemos—es una metáfora adecuada para nuestra temporada de exposiciones, programas, clases, visitas a galerías y experiencias educativas durante la primavera del 2022.

Los Museos de Ciencia y Cultura de Harvard le invitan a examinar el mundo natural y el cambio climático en las intersecciones de la ciencia, el arte y la historia a través de nuestra exposición interactiva, *En Busca de las Flores de Thoreau: Una Exploración del Cambio y la Pérdida*. Adéntrese en la extraordinaria historia de la producción de pigmentos a base de insectos que convirtió a México en un epicentro de innovación tecnológica y transformó el paisaje de los textiles y el arte indígena con nuestra exposición bilingüe, *Cochinilla: Cómo México Hizo que el Mundo Viera el Rojo*. Explore los intrincados sistemas de conocimiento africanos que acompañaron la trata transatlántica de esclavos y que contribuyeron a las prácticas de cultivo del arroz en las Américas y la cultura de la comunidad descendiente de Gullah Geechee y las tradiciones de subsistencia en nuestra mini instalación *Arroz: Una Historia de África y las Américas*.

Además de nuestras experiencias en locación, esperamos que nos acompañe en una excelente temporada de programas virtuales y conferencias nocturnas con prestigiosos académicos y pensadores interdisciplinarios de las ciencias y las humanidades.

Nuestra programación de primavera fue diseñada con visión e intencionalidad, ya que nosotros también nos esforzamos por actuar “deliberadamente como la Naturaleza.” Esperamos que disfrute lo que hemos preparado.

**Brenda Tindal**

Directora Ejecutiva, Museos de Ciencia y Cultura de Harvard



# Welcome Back to the Museums!

The Harvard Museums of Science & Culture are open to the public. As the health and safety of visitors and staff is our top priority, admissions are currently limited and reservations are REQUIRED. Tickets are not currently available for unreserved admissions. Check our website for updates to this policy [Please reserve your spot on our website.](#)

For a streamlined admission process and a positive visitor experience, we strongly encourage you to [review our COVID-19 protocols and admission policies.](#)

## **HARVARD MUSEUM OF NATURAL HISTORY**

Hours: Open daily from 9:00 am to 5:00 pm

### **General Admission**

Adults: \$15.00

Harvard ID Holders: Free

Youth ages 3-18: \$10.00

Free for members

Seniors (65+): \$13.00

Non-Harvard students with ID: \$10.00

Youth under 3: Free

## **PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY**

Hours: Open daily from 9:00 am to 5:00 pm

### **General Admission**

Adults: \$15.00

Harvard ID Holders: Free

Youth ages 3-18: \$10.00

Free for members

Seniors (65+): \$13.00

Non-Harvard students with ID: \$10.00

Youth under 3: Free

## **COLLECTION OF HISTORICAL SCIENTIFIC INSTRUMENTS**

Hours: Sunday–Friday from 11:00 am to 4:00 pm

**General Admission: Free**

## **HARVARD MUSEUM OF THE ANCIENT NEAR EAST**

Hours: Sunday–Friday from 11:00 am to 4:00 pm

# How to Join HMSC Virtual Events

## To Register for an Event

- Visit our [Upcoming Events page](#)
- Find a program in calendar listing and select its registration link
- Complete and submit the registration form
- After submitting, you will receive a Zoom link to the program

Activate this link in your email a few minutes before the program's starting time

- [Download the free Zoom app](#) in advance
  - Your audio and video settings are automatically disabled during the webinar, providing privacy
- .....

- Visit the HMSC website for [tips on maximizing your Zoom connection](#)
- If you experience technical difficulties using Zoom, we recommend visiting the [Zoom Help Center](#)
- Questions? Please email: [hmscprograms@hmsc.harvard.edu](mailto:hmscprograms@hmsc.harvard.edu)

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## ABOUT THE COVER IMAGE



*Lygodium palmatum*

Pigment print made from Specimen 26  
HUH-0641, Box 28, Portfolio 6, Folder 5  
Thoreau's Herbarium sheet  
Harvard University Herbaria

Though best known for his writings, Henry David Thoreau was also an amateur botanist whose collection and documentation of plants in Concord, Massachusetts, still resonates in climate change studies today. This image, created by artist Leah Sobsey for the new HMNH exhibit, *In Search of Thoreau's Flowers: An Exploration of Change and Loss*, reveals one of Thoreau's plant specimens—an American climbing fern, *Lygodium palmatum*—in a new light through a pigment print inspired by cyanotype process, a nineteenth-century photographic technique invented around the time Thoreau lived at Walden Pond.

# FREE VIRTUAL LECTURE & CONVERSATION

Tuesday, February 15, 6:00–7:00 pm ET. Advance Registration Required

In collaboration with the Harvard Art Museums

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY



## Benin Bronzes in Context

### SARAH ANITA CLUNIS

Director of Academic Partnerships and Curator of African Collections  
Peabody Museum of Archaeology & Ethnology, Harvard University

IN CONVERSATION WITH

### DIANA DIPAOLO LOREN

Senior Curator, Peabody Museum of Archaeology and Ethnology, Harvard University

The Kingdom of Benin, a highly centralized state founded in the thirteenth century in southwestern Nigeria, dominated trade with Europeans on the Nigerian coast from the late 1400s until the end of the 1900s. Ruled by a divine king, or oba, the Benin Kingdom relied on specialized guilds to create the elaborate court regalia that adorned the palace

of the oba. Bronze plaques, ivory statuettes, and delicate coral-beaded items were used to establish status and validate the oba's power. In 1897 a British expeditionary force invaded Benin, plundered the palace, and burned it to the ground. Items linked to this expedition were then sent to museums around the world, including both the Harvard Art Museums and Harvard's Peabody Museum. In "Benin Bronzes in Context," Sarah Clunis will look at objects currently in the care of Harvard and discuss the way that these objects represent an iconographic and contextual story of trade, contact, and crossroads between cultures.

Diana Loren will moderate a discussion after the presentation.



# FREE VIRTUAL FILM SCREENING & CONVERSATION

Thursday, February 17, 6:00–7:00 pm ET. Advance Registration Required

In collaboration with the Theatre, Dance, and Media Program, Harvard University

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

## We Dance: An Exploration of Movement, Foodways, and Environment

From the world-renowned Wideman Davis Dance Company and award-winning filmmakers Ethan Payne and Brian Foster, *We Dance* is a love story, deconstructed and distilled into its most elemental ingredients. Dreams. Memories. Family. Environments. In this 12-minute film, Tanya Wideman-Davis and Thaddeus Davis take us from Chicago, Montgomery, and New York to the point where their lives meet and become one. Along the way, they honor and signify on Black American art, poetry, and literature. In this conversation with Sarah Clunis, they will discuss the film and delve into the importance of movement and migration to Black American identity, lived experience, and consciousness. And show how all of our stories are kept—in the places we've been, in the food we eat, and in the dreams that we so steadfastly chase.

### THADDEUS DAVIS

Codirector, Wideman Davis Dance;  
Associate Professor, Departments of Theatre and Dance and of African American Studies, University of South Carolina

### TANYA WIDEMAN-DAVIS

Codirector, Wideman Davis Dance;  
Associate Professor, Departments of Theatre and Dance and of African American Studies, University of South Carolina

### IN CONVERSATION WITH

### SARAH ANITA CLUNIS

Director of Academic Partnerships and Curator of African Collections, Peabody Museum of Archaeology & Ethnology

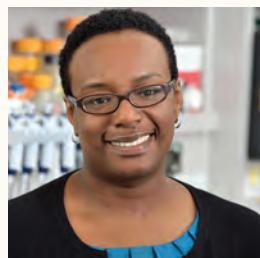


# FREE VIRTUAL BOOK DISCUSSION

Wednesday, February 23, 6:00-7:00 pm ET

Advance Registration Required

HARVARD MUSEUM OF NATURAL HISTORY



## Lessons from Plants

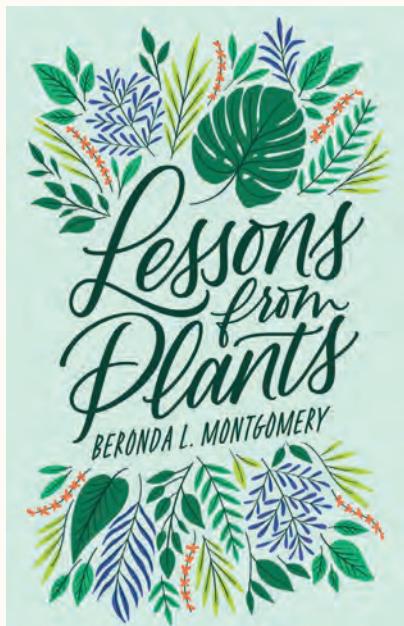
### BERONDA L. MONTGOMERY

Foundation Professor of Biochemistry & Molecular Biology and Microbiology & Molecular Genetics, Michigan State University

IN CONVERSATION WITH

### BRENDA TINDAL

Executive Director, Harvard Museums of Science & Culture



Plants are essential to humans and the environment: they provide food, absorb carbon dioxide, produce oxygen, serve multiple ecosystem functions, and beautify landscapes. In *Lessons from Plants* (Harvard University Press, 2021) Beronda Montgomery invites us to appreciate our interdependence with plants and the many lessons that can be gained from an understanding of the ways in which plants grow, adapt, and thrive. In this conversation with Brenda Tindal, she will address what plants can teach us about relating to one another, building diverse communities and being resilient.

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Order [\*Lessons from Plants\*](#) from the Harvard University Press website

# FREE VIRTUAL LECTURE

Thursday, February 24, 6:00–7:00 pm ET

Advance Registration Required

**HARVARD MUSEUM OF THE ANCIENT NEAR EAST**

## On the Literacy and Education of Ancient Egyptian Artists

**DIMITRI LABOURY**

Associate Professor of Ancient Egyptian Art History, Archaeology, History and History of Religions

Research Director, Belgian National Fund for Scientific Research in Ancient Egyptian Art History and Archaeology

Director of the Ancient Egyptian Art Historical Research Unit  
University of Liège, Belgium



One of the salient characteristics of ancient Egypt, undoubtedly, is its hieroglyphic script. The “code” to decipher this writing system was cracked precisely two hundred years ago, in 1822, by the brilliant French linguist Jean-François Champollion—the founding father of Egyptology. The complexity of Egyptian hieroglyphs resulted in a low literacy rate among the Pharaonic population. In this lecture, Dimitri Laboury will address the level(s) of literacy and scholarly education among the makers of the countless hieroglyphic monuments that help make ancient Egypt so famous. Was every ancient Egyptian artist capable of reading and writing hieroglyphs? And in that society, who were the real experts in hieroglyphic writing?

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**Presented with support from the  
Marcella Tilles Memorial Fund**

# FREE VIRTUAL MEMBER EVENT: BEHIND-THE-SCREENS

Monday, February 28, 6:00-7:00 pm ET

**Advance Registration Required by Friday, February 25**

Questions? Email [Membership](#)

**HARVARD MUSEUMS OF SCIENCE & CULTURE**

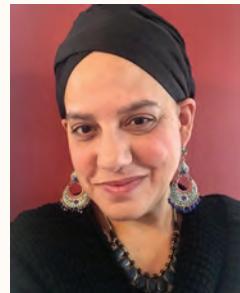
**PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY**

## Behind-the-Screens with Sarah Anita Clunis

Director of Academic Partnerships

Curator of African Collections

Peabody Museum of Archaeology & Ethnology



Located in the Kasaï Oriental Province along the Sankuru River in the central part of the Democratic Republic of Congo, the Kuba identify themselves as the children of Woot and the tale of their origins is often reenacted in masquerades for the royal Kuba court. The focus of this Black History Month Behind-the-Screens is a conversation with Peabody

Curator of African Collections, Sarah Clunis, about three royal Kuba masks—housed at Harvard’s Peabody Museum—that as a triad re-enact the founding of the Kuba kingdom and highlight the significance of gender and status in Kuba political systems and Kuba life.



This program will be held in the Zoom Meeting format to provide an interactive experience.

Not a member? [Become a member today](#) so that you can join us on February 28!

# FREE VIRTUAL BOOK PRESENTATION & CONVERSATION

Thursday, March 3, 6:00-7:00 pm ET. Advance Registration Required

HARVARD MUSEUM OF NATURAL HISTORY

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

COLLECTION OF HISTORICAL SCIENTIFIC INSTRUMENTS



## The Maternal Imprint

SARAH RICHARDSON

Professor of the History of Science and of Studies of Women, Gender, and Sexuality, Harvard University

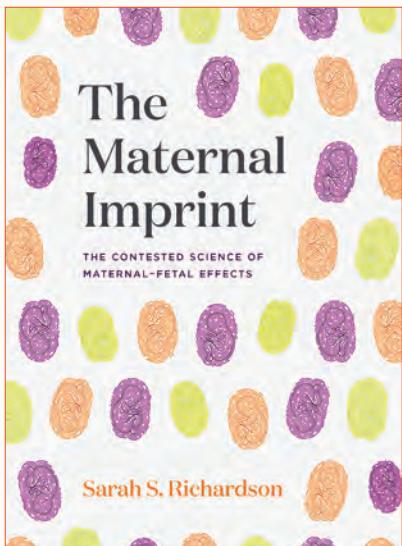
IN CONVERSATION WITH

EMILY OSTER

Professor of Economics, Brown University

At the turn of the twentieth century, any notion that a pregnant woman could alter her offspring's physical and behavioral traits was dismissed as it was believed that a child's fate was set by its genes and upbringing. Today, a wide body of interdisciplinary research

argues that a woman's experiences, behaviors, and physiology can have life-altering effects on offspring development. Drawing on her new book, *The Maternal Imprint*, (University of Chicago Press, 2021), leading gender and science scholar Sarah Richardson will examine how our ideas about heredity and maternal-fetal effects have evolved over the last fifty years. A conversation with economist and bestselling author Emily Oster will follow.



Order *The Maternal Imprint* from the University of Chicago Press website

# FREE VIRTUAL LECTURE

Wednesday, March 23, 6:00-7:00 pm ET

Advance Registration Required

HARVARD MUSEUM OF NATURAL HISTORY

## Restoring Ecosystems in a Time of Ongoing Global Change



### DAVID MORENO MATEOS

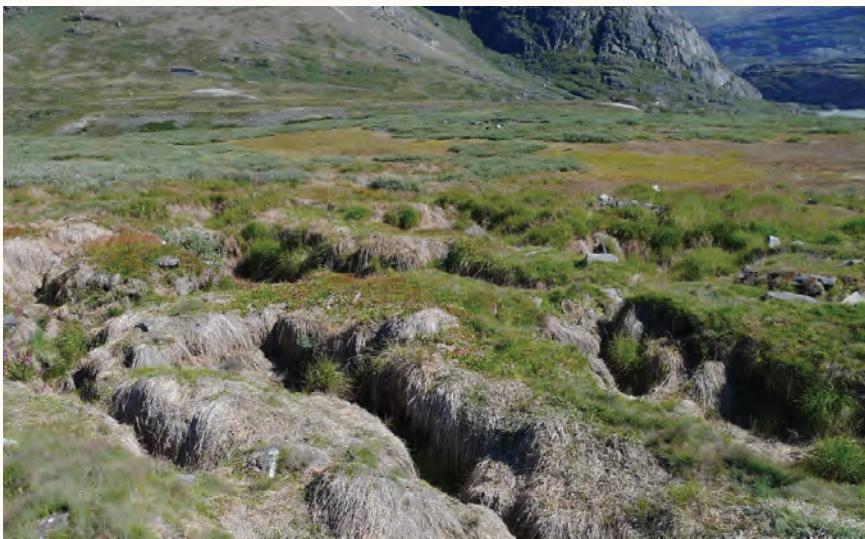
Assistant Professor of Landscape Architecture, Harvard Graduate School of Design

Affiliate of the Department of Organismic and Evolutionary Biology, Harvard University

How long does it take for an ecosystem to recover after it is disturbed or destroyed by human activities? How do we know when an ecosystem has recovered? In this lecture, restoration ecologist David Moreno Mateos will discuss the traditional methods used to assess the recovery of terrestrial ecosystems—such as changes in biodiversity or soil carbon levels—and highlight their limitations. He will make a case for more comprehensive and long-term approaches to understanding and measuring ecosystem recovery and highlight their potential for enhancing environmental policies and large-scale restoration strategies.

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This program is supported by the Michael V. Dyett Lecture Fund



# IN-PERSON SPECIAL EVENT FOR ALL AGES

Sunday, March 27, 1:00–4:00 pm. Free with regular admission  
11 Divinity Avenue and 6 Divinity Avenue, Cambridge  
Free Parking at the 52 Oxford Street Garage

**PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY**

**HARVARD MUSEUM OF THE ANCIENT NEAR EAST**

## Amazing Archaeology Fair at Harvard

Experience an epic day of archaeological events with the family! Activities are scattered across two adjacent museums. Explore Native North American, Central American, Egyptian, Mesopotamian, and Mediterranean archaeology. Throw a spear with a spear thrower. Talk to student archaeologists who excavate in locations around the world.



# FREE VIRTUAL LECTURE

Thursday, March 31, 6:00–7:00 pm ET

Advance Registration Required

HARVARD MUSEUM OF THE ANCIENT NEAR EAST

## Exploring Egypt's Middle Kingdom at the Site of Ancient Thebes



ANTONIO J. MORALES

Assistant Professor of Egyptology, University of Alcalá

Real Colegio Complutense Visiting Fellow 2022, Harvard University

Director, The Middle Kingdom Theban Project

One of ancient Egypt's highpoints of cultural, intellectual, and social life was the period referred to as the Middle Kingdom (2030–1650 BCE). The ancient city of Thebes (modern Luxor) was the Egyptian capital during the early stage of this period and the site of multiple funerary temples and tombs. In this lecture, Egyptologist Antonio Morales will discuss an international and multidisciplinary project that is conducting archaeological, historical, and cultural research, as well as conservation work, in Deir el-Bahari and Asasif—two funerary areas at Thebes—to better understand the city's role in the development of Egypt's classical age.



# FREE VIRTUAL HALLAM L. MOVIUS, JR. LECTURE

Wednesday, April 6, 6:00-7:00 pm ET

Advance Registration Required

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY



## Exploring Humanity's Technological Origins

### SONIA F. HARMAND

Associate Professor, Department of Anthropology, Turkana Basin Institute, Stony Brook University; Director, Mission Préhistorique au Kenya/West Turkana Archaeological Project

Human evolutionary scholars have long assumed that the earliest stone tools were made by members of the genus *Homo*, approximately 2.4-2.3 million years ago, and that this technological development was directly linked to climate change and the spread of savannah grasslands. In the last decade, fieldwork in West Turkana, Kenya, has revealed evidence of much earlier technological behavior. Sonia Harmand will discuss the discovery of stone tools in a 3.3-million-year-old archaeological site in Kenya known as Lomekwi 3. She will show how this discovery is reshaping our understanding of the emergence of human-like manipulative capabilities, as well as the development of cognition in early hominins—the group consisting of modern humans and all our immediate ancestors.



# FREE VIRTUAL LECTURE

Thursday, April 7, 6:00-7:00 pm ET

Advance Registration Required

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY



## Manifest: Thirteen Colonies

WENDEL WHITE

Distinguished Professor of Art & American Studies, Stockton University

2021 Robert Gardner Fellow in Photography

Peabody Museum of Archaeology & Ethnology, Harvard University

IN CONVERSATION WITH

BRENDA TINDAL

Executive Director, Harvard Museums of Science & Culture



Manifest: Thirteen Colonies is a photographic project and journey through the repositories of African American material culture found in libraries, museums, and archives of the original thirteen English colonies. Conceived by photographer Wendel White, this project is a personal, selective reliquary of the remarkable evidence of Black agency and racial oppression stored in public and private collections. In this program, White will discuss his approach to finding, selecting, and photographing artifacts—from rare singular objects, to more quotidian materials—and highlight their significance as forensic evidence of Black life and history in the United States. A conversation with public historian Brenda Tindal will follow.

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This program is supported by the Robert Gardner Fellowship Fund

# FREE VIRTUAL BILINGUAL LECTURE

Wednesday, April 20, 6:00–7:00 pm ET. Advance Registration Required

In English with live interpretation in Spanish

HARVARD MUSEUM OF NATURAL HISTORY

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

COLLECTION OF HISTORICAL SCIENTIFIC INSTRUMENTS



## Mexican Red

### The Perfect Color that Changed the World

#### GABRIELA SOTO LAVEAGA

Professor of the History of Science and Antonio Madero Professor  
for the Study of Mexico, Harvard University

Cochineal (*Dactylopius coccus*) is a small insect that produces a brilliant red pigment. Found in textiles, paintings, cosmetics, and many other objects that span the globe, cochineal is an integral part of world history. Cochineal pigment was used by Mesoamerican peoples long before the Spanish arrived in the sixteenth century. After being introduced to Europe, it quickly became a precious commodity and control over its global trade was a source of conflict and competition for over three centuries. In this lecture, Gabriela Soto Laveaga will trace the fascinating history of cochineal production and the many efforts to control its trade.

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Visit the online bilingual exhibit which will be available starting Friday, April 20

*Cochineal: How Mexico Made the World See Red.* See page 20.



# CONFERENCIA BILINGÜE VIRTUAL GRATUITA

Miércoles, 20 de abril, 6:00-7:00 pm ET. Requiere reservación previa

En inglés con interpretación en vivo al español

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY



## Rojo Mexicano El Color Perfecto que Cambió el Mundo

### GABRIELA SOTO LAVEAGA

Profesora de Historia de la Ciencia y Profesora Antonio Madero  
para el Estudio de México, Universidad de Harvard

La cochinilla (*Dactylopius coccus*) es un pequeño insecto que produce un pigmento rojo brillante. Utilizada en textiles, pinturas, cosméticos y muchos otros objetos alrededor del mundo, la cochinilla es una parte integral de la historia mundial. La grana cochinilla fue utilizada por los pueblos mesoamericanos mucho antes de la llegada de los españoles en el siglo XVI. Una vez introducida en Europa, se convirtió rápidamente en un bien preciado y el control de su comercio mundial fue fuente de conflictos y competencia durante más de tres siglos. En esta conferencia, Gabriela Soto Laveaga recorrerá la fascinante historia de la producción de grana cochinilla y los numerosos esfuerzos por controlar su comercio.

Visite la exposición bilingüe en línea que se inaugurará el 20 de abril.

*Cochinilla: Cómo México Hizo que el Mundo Viera el Rojo.* See page 21.



# FREE VIRTUAL LECTURE

Thursday, April 21, 6:00–7:00 pm ET

Advance Registration Required

HARVARD MUSEUM OF THE ANCIENT NEAR EAST

## The Power of Antiquity in the Making of Modern Egypt



**WENDY DOYON**

Historian of Archaeology and Modern Egypt

Ancient Egypt conjures images of pharaonic temples, tombs, and pyramids, and perhaps, even the familiar illustrations from children's books and magazines showing kilted workers on the Nile toiling away on their kings' great monuments. But what is the relationship between these images—along with the deep history they evoke and the processes of discovery that made them visible—and the history of modern Egypt? In this talk, Wendy

Doyon will discuss the relationship between state, archaeology, and labor in Mehmed (or Muhammad) Ali's Egypt—an autonomous *khedival*, or *viceregal*, state within the late Ottoman Empire—and explain how the power of the Egyptian state in the nineteenth century was built, in large part, on the creation of modern antiquities—land, and the organization of Egyptian workers as state assets controlled by Mehmed Ali Pasha and his dynasty-building successors.



# FREE MEMBERS-ONLY MUSEUM TOURS

Wednesday, April 27, 6:00–8:00 pm ET. [Advance Registration Required](#)

Not a member? [Become a member today.](#) Questions? [Email membership](#)

HARVARD MUSEUMS OF SCIENCE & CULTURE

## Members Night at the Museum

Harvard Museums of Science & Culture members are invited to a fun, informative, rotating tour of our newest exhibitions. Curators, exhibitions staff, and educators will discuss the making of *Mediterranean Marketplaces* in the Harvard Museum of the Ancient Near East, *Muchos Méxicos* in the Peabody Museum of Archaeology & Ethnology, and *From the Hands of the Makers* in the Harvard Museum of Natural History. Come learn about the objects chosen for display and find out how HMSC designs and installs such exhibitions.

Registration is required for both in-person and Zoom options. Those attending in person will be required to follow all [Covid-19 visitor protocols](#). Capacity is limited, so please reserve early.



# FREE VIRTUAL BOOK PRESENTATION

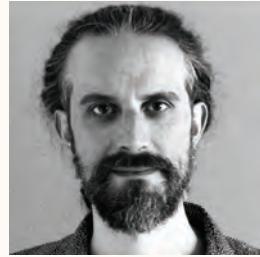
Thursday, April 28, 6:00–7:00 pm ET

Advance Registration Required

HARVARD MUSEUM OF NATURAL HISTORY

COLLECTION OF HISTORICAL SCIENTIFIC INSTRUMENTS

## Colliding Worlds How Cosmic Encounters Shaped Planets and Life

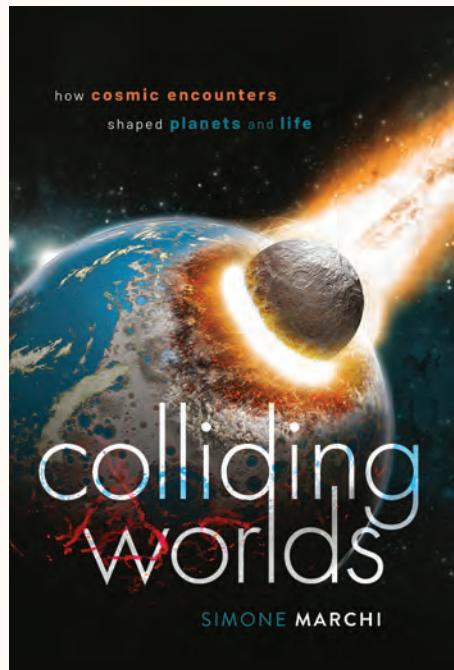


SIMONE MARCHI

Staff Scientist, Southwest Research Institute

Signs of ancient collisions are widespread in the solar system, from the barren, once-habitable Mars to rugged asteroids. In this talk, physicist Simone Marchi, discussing his recent book, *Colliding Worlds* (Oxford University Press, 2021), will explore the key role

that collisions in space have played in the formation and evolution of our solar system, the development of planets, and possibly even the origin of life on Earth. Analyzing our current understanding of the surfaces of Mars, the Moon, and asteroids—drawn from recent space missions—Marchi will present the dramatic story of cosmic collisions and how we have come to understand them.



Order *Colliding Worlds* from the Oxford University Press website

## IN-PERSON FAMILY EVENT AGES 6-10

Sunday, May 15, 1:00 pm • 1:45 pm • 2:30 pm start times

\$5 members / \$10 nonmembers

Advance Registration Required by Friday, May 13

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

# Colossal Heads of Mexico

## Family Workshop

### INSTRUCTORS

Andrew Majewski, HMSC Museum Educator

Stephen Harris of Harris Custom Design



The Olmec civilization of Ancient Mexico is known for its mysterious sculptures of giant heads that rise up to eleven feet high. Touch a huge modern replica in the museum for one day that is based on Monument One, *The King*. Explore artifacts with an educator that show Olmec influence on architecture, the ball game, written language, and pigments. Handle reproductions and paint a mini-plaster head of your own to take home.

# IN-PERSON SPECIAL EVENT FOR ALL AGES

Saturday, June 4, 11:00 am–12:00 pm. Free with museum admission

Ver la página siguiente para leer en Español

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

## Take Your Place/Toma tu lugar

### HEAR ME OUT/ESCÚCHAME PROJECT



The ethnic communities “displayed” in the 1893 Chicago World’s Fair introduced Americans to different cultures, however it also promoted stereotypes. Now, 130 years later, Latino/a/x teens in the Hear Me Out/Escúchame Project will exhibit a collaboratively made piece of art inspired by the exhibition *All the World Is Here* to challenge stereotypes. Drop in to respond and create your own piece with simple art materials for “submission” to an imaginary 2023 World’s Fair. Take your place with us and share how you want to be represented.

# EVENTO ESPECIAL GRATUITO EN PERSONA

Sábado, 4 de junio, 11:00 am-12:00 pm

Gratis con la entrada al museo

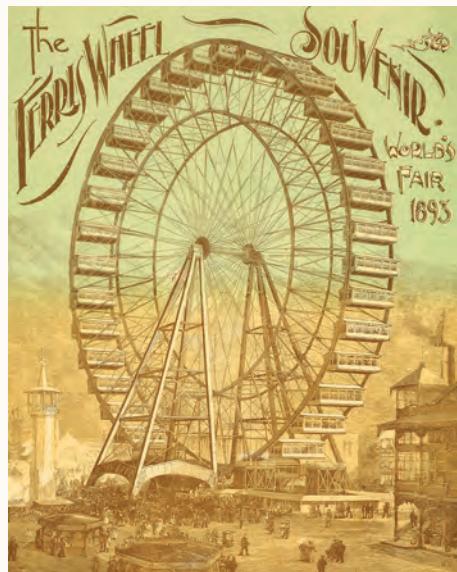
See the previous page to read in English

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY



## Take Your Place/Toma tu lugar

## HEAR ME OUT/ESCÚCHAME PROYECTO



Las comunidades étnicas "exhibidas" en la Feria Mundial de Chicago de 1893 dieron a conocer a los estadounidenses diferentes culturas. Pero la exposición también fomentó los estereotipos. Ahora, 130 años después, los adolescentes latinos/as/x del proyecto Hear Me Out/Escúchame expondrán una obra de arte hecha en colaboración e inspirada en la exposición *All the World Is Here* para desafiar los estereotipos para responder y crear su propia pieza con materiales de arte sencillos para "presentarla" en una Feria Mundial imaginaria en el 2023. Tome su lugar con nosotros y comparta cómo quiere ser representado.

# ONLINE EXHIBIT SPOTLIGHT/BILINGUAL

Available on Friday, April 20

Ver la página siguiente para leer en Español

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

## Cochineal

### How Mexico Made the World See Red



Cochineal, a tiny insect found on certain species of prickly pear cacti (*Opuntia*), was harvested for millennia by Indigenous peoples in Mexico to dye fabrics a vibrant red color. But following the European invasion of the Americas in the sixteenth century, it became a widely coveted, globally traded commodity that transformed textiles and art, and made Mexico a center for technological innovation. *Cochineal: How Mexico Made the World See Red* explores how this Indigenous technology changed the world, becoming an international symbol of power, while simultaneously disenfranchising its discoverers.

Watch the related virtual lecture  
Friday, April 20, 6:00–7:00 pm ET  
***Mexican Red: The Perfect Color that Changed the World.*** See page 12.



# EXPOSICIÓN EN LÍNEA

Disponible el viernes 20 de abril

To read in English see previous page

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

## Cochinilla

### Cómo México Hizo que el Mundo Viera el Rojo



La cochinilla, un diminuto insecto que se encuentra en ciertas especies de cactus oaxaqueños, fue cosechada durante milenios por los pueblos indígenas para teñir las telas de un vibrante color rojo. Pero tras la invasión europea de las Américas en el siglo XVI, se convirtió en un producto ampliamente codiciado y comercializado a nivel mundial que transformó los tejidos y el arte, y convirtió a México en un centro de innovación tecnológica. *Cochinilla: Cómo México Hizo que el Mundo Viera el Rojo* explora cómo esta tecnología indígena cambió el mundo, convirtiéndose en un símbolo internacional de poder, al tiempo que privaba de derechos a sus descubridores.

Vea la conferencia virtual relacionada el miércoles 20 de abril, de 6:00 a 7:00 pm ET *Rojo Mexicano: El Color Perfecto que Cambió el Mundo*. See page 13.



# NEW EXHIBITION

Opens Thursday, May 12

Third-Floor Special Exhibits Gallery

HARVARD MUSEUM OF NATURAL HISTORY

## In Search of Thoreau's Flowers

An Exploration of Change and Loss



*In Search of Thoreau's Flowers: An Exploration of Change and Loss* is an interactive museum experience that marries art and science through a modern artistic interpretation of Thoreau's preserved plants, a collection of specimens that reveal the local and global effects of climate change. Artist Robin Vuchnich's digitized animations, soundscapes, and projected augmented reality, combined with photographer Leah Sobsey's historical photographic processes, allow visitors to build deep, emotionally resonant connections with the natural world and develop awareness about the profound loss of natural diversity caused by human-induced climate change.

*Remy D. Thoreau*

# NEW EXHIBITION

Opens Thursday, June 16

Mini-Exhibit in the *Resetting the Table* Exhibition

PEABODY MUSEUM OF ARCHAEOLOGY & ETHNOLOGY

## Rice

### A Story of Africa and the Americas

*Rice: A Story of Africa and the Americas* examines the legacy of rice cultivation in the Americas. Set within the *Resetting the Table* exhibition, this new mini-exhibit explores the essential African knowledge systems required to establish what became a thriving industry, the horrific human toll the Atlantic Slave Trade took to maintain it, and the vibrant, enduring culture of the Gullah Geechee, descendants of enslaved Africans whose basket making and coastal subsistence traditions continue today.



# HMSC TOURS

## Guided, Self-Guided, and Virtual Ways to Explore



### GLASS FLOWERS GUIDED TOURS **HMNH**

- Featuring the *Ware Collection of Blaschka Glass Models of Plants and Sea Creatures in Glass Exhibitions*
- Both In-Person and Virtual Options Available

Groups can reserve private docent-led tours that delve into the history, artistry, and significance of the Blaschka collections. These interactive tours give participants the opportunity to explore the Glass Flowers gallery and they offer time for Q&A with knowledgeable guides.

Advance registration required. [Information on registration, capacity, and fees.](#)

### SELF-GUIDED TOURS

#### Mobile Gallery Experiences

- *Dreaming the Sphinx in Augmented Reality* **HMANE**
- Hear Me Out/Escúchame Project *Wild Life* Audio Reflections **HMNH \***
- *Listening to Wampanoag Voices* Audio Reflections **PMAE**
- *Mediterranean Marketplaces* Audio Tour **HMANE**

\* Indicates bilingual offering

### VIRTUAL SELF-GUIDED TOURS

- Hear Me Out/Escúchame Project Reflections on the *Resetting the Table* exhibition **PMAE \***
- Nature As Artist **HMNH**
- A World of Connections **HMNH**
- Museum Tour **HMANE**

[Information on self-guided tours](#)

# HMSC CONNECTS! MONTHLY PODCAST

There is much more to the Harvard Museums of Science & Culture than its spectacular exhibits and fantastic programs. Tucked away in our world-renowned collections, across Harvard's hallowed halls, and even beyond university walls, a



community of incredible individuals form the foundation of knowledge and expertise that keeps our museums humming. Host and HMSC Exhibit Developer, Jennifer Berglund, takes listeners behind the scenes of our four museums to meet the scholars, researchers, curators, collection keepers, exhibit designers, and other esteemed experts that make HMSC amazing, and help us explore the connections between us, our big, beautiful world, and even what lies beyond.

[Join us monthly on our HMSC Connects! Podcast](#)

## Listen to a few of the most recent podcasts

### [Healing the Scars of the Past](#)

A Conversation with Sarah Anita Clunis, Curator of African Collections at the Peabody Museum of Archaeology & Ethnology

### [2022 State of the Harvard Museums of Science & Culture](#)

A Conversation with Executive Director Brenda Tindal

### [Transforming the Museums with Teens](#)

A Conversation with Julia Szejnblum, Former Coordinator of the Hear Me Out / Escúchame Project at HMSC

### [Exploring History through Plants and Glass](#)

A Conversation with Michaela Schmull

### [Exploring Ancient Deep Sea Shipwrecks](#)

A Conversation with Dana Yoerger, Senior Scientist at the Woods Hole Oceanographic Institution

### [Visualizing Science: From Black Holes to the Future](#)

A Conversation with Peter Galison, Director Collection of Historical Scientific Instruments

# VIRTUAL SKETCHING CLASSES

Instructor: Artist and Educator Erica Beade

Advance Registration Required

HARVARD MUSEUM OF NATURAL HISTORY

## Drawing Trees

**Thursday, February 24, 9:30-11:30 am ET • \$30 members / \$35 nonmembers**

Explore the variety and elegance of tree forms using pencil and paper. We will focus on capturing the shapes and volume of trunks and branches as well as techniques for drawing foliage in this online workshop. Groups will be limited to twelve, allowing ample time for individual feedback. All skill levels are welcome.

## Drawing Plants and Flowers

**Wednesday, March 9, 9:30-11:30 am ET • \$30 members / \$35 nonmembers**

Explore a variety of plant forms using pencil and paper. Taught by a scientific illustrator, this online workshop will emphasize close observation and realistic representation. We will explore a range of techniques for achieving more accurate drawings and will delve into contour, gesture, foreshortening, and shading to create volume and depth. Groups will be limited to twelve, allowing ample time for individual feedback. All skill levels are welcome.

## Drawing Plants and Flowers in Colored Pencil

**Wednesday, April 13, 9:30-11:30 am ET • \$30 members / \$35 nonmembers**

Explore the beauty and variety of plants using colored pencils. This online course will focus on a diverse range of techniques for using colored pencils to capture flowers, leaves, fruits, and vegetables, from quick monochrome sketching to richly layered, full-color images. We will look at examples, discuss techniques, and have plenty of time for drawing and individual feedback. All skill levels are welcome.

## Drawing Birds

**Tuesday, May 17, 9:30-11:30 am ET • \$30 members / \$35 nonmembers**

Capture the beauty of birds with pencil and paper in this online workshop. We will explore avian anatomy, step-by-step methods for developing bird drawings, and techniques for drawing feather textures. Groups will be limited to twelve, allowing ample time for individual feedback. All skill levels are welcome.

# VIRTUAL AFTER-SCHOOL SPECIAL EVENTS

Wednesday, March 9 • Wednesday, April 6 • Wednesday, May 4  
4:00–4:45 pm ET. Advance Registration Required

HARVARD MUSEUM OF NATURAL HISTORY

## After-School Animal Encounters

How do animals change as they grow? What do skeletons have to do with how an animal moves? How do animals today compare with their ancient ancestors? Get the answers to these questions and more with human museum staffers Javier and Arielle. Each month we will discuss a different theme while sharing specimens from the museum collections and interacting with some of the museum's incredible live animals! This event will be fun for the whole family so bring your questions and sense of wonder.

**Wednesday, March 9**  
**GET GROWING!**



**Wednesday, April 6**  
**SUPER SKELETONS**



**Wednesday, May 4**  
**ANCIENT ANCESTORS**



# 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. Additionally, members support everything we do, from free public lectures and educational outreach to new exhibitions.**

**As a member, you will enjoy benefits all year long. Highlights from our most popular membership levels are:**

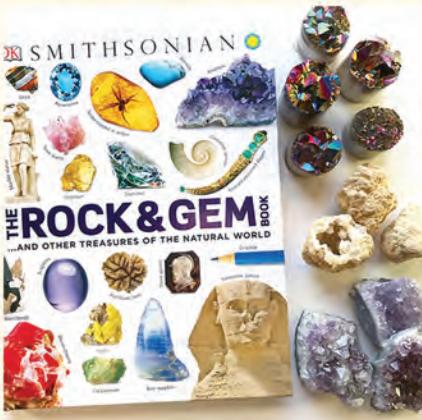
- Unlimited admission to all four HMSC museums
- Free admission to the Harvard Art Museums
- Free access to science centers worldwide through ASTC
- Invitations to exclusive in-person events
- Invitations to members-only online programs
- Special prices on museum classes
- Museum shop purchases
- Free parking and guest passes

For more information on membership levels, go to: [hmsc.harvard.edu/membership](http://hmsc.harvard.edu/membership)  
Questions? Please contact the Membership Office: [members@hmsc.harvard.edu](mailto:members@hmsc.harvard.edu)

**JOIN TODAY!**

# The Shop at HMNH

## Inspired by the museum collections



Looking for the perfect gift? Let us help you find the perfect item from the museum shop. We're here to answer questions, send photos, or even set up a virtual shopping appointment.

- For details, visit [hmnh.harvard.edu/shop](http://hmnh.harvard.edu/shop)
- HMSC members receive a 10% everyday discount

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