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FALL 2011

the **in** Field

THE FIELD MUSEUM MEMBER MAGAZINE



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ON THE COVER

A close-up photograph of a Common Birdwing Butterfly (*Troides helena*) from the new permanent exhibition *Abbott Hall of Conservation Restoring Earth*.

JOHN WEINSTEIN © THE FIELD MUSEUM

dear member

Another exciting yet busy summer has passed, filled with fun and informative exhibitions at The Field Museum. But just because summer is over, doesn't mean the fun stops. If you haven't seen *Whales: Giants of the Deep* (page 7), there's just a short time left to check it out. Believe me, you don't want to miss it!

It's going to be a busy fall at the Museum with an exhibition opening literally every month from September to December. In remembrance of the 10th anniversary of 9/11, we will open *Ground Zero 360°* (page 3), a photography exhibition created by a former New York City policeman and his wife.

We're also bringing back one of our most popular exhibitions highlighting everyone's favorite sweet treat. *Chocolate Around the World* (page 10) opens on Oct. 8. Learn how this much-loved food has evolved from a bitter drink enjoyed by the Aztecs to a multi-billion dollar industry reaching nearly every corner of the world.

On Nov. 4, we'll open Abbott Hall of Conservation *Restoring Earth*, our newest permanent exhibition. The exhibition features the exciting work of Field Museum scientists who spend time in the field protecting the environment here in Chicago and around the world. Read our Q&A with curator Debra Moskovits and project manager Anna Huntley (page 4).

Finally, on Dec. 9 we'll display the Lod Mosaic, a significant Roman mosaic found in 1996 in Israel (page 8). This large-scale work of art dates to AD 300 and is one of the best-preserved mosaic floors ever uncovered.

It's clear that The Field Museum is the place to be this fall and over the holiday season. We hope to see you soon and, as always, thank you for your support.



DIANE ALEXANDER WHITE

MICHELLE CLAYTON

Director of Membership



Ground Zero 360°

A rescue worker's perspective, a photojournalist's eye

By Janet Hong, Project Developer, Exhibitions Department

ON SEPTEMBER 11, 2001, a young police inspector in New York City named Paul McCormack participated in the rescue and recovery effort at the World Trade Center. In the aftermath of the disaster an Irish photojournalist named Nicola McClean took thousands of photographs throughout New York, capturing the chaos engulfing the city. She tirelessly documented the work of emergency medical technicians, welders, firemen, and police like McCormack.

McCormack and McClean met and eventually married. Because of injuries sustained at the World Trade Center site, McCormack retired from the police force, and he and McClean moved to Ireland to raise a family.

Inspector Paul McCormack in the aftermath of September 11.

Together, McCormack and McClean have created an exhibition called *Ground Zero 360°*, which portrays the story of September 11 from their distinctive view points. The pair's simple, powerful exhibition is now open in The Field Museum's Marae Gallery and runs through January 1, 2012.

McClean's large-scale, previously unpublished photographs from the days following September 11 place viewers in the middle of the catastrophe. Visitors can hear the city's original emergency radio calls from that morning ten years ago and touch a fragment of steel I-beam from the World Trade Center. The exhibition also presents personal artifacts from emergency workers, an American flag of a New York Police precinct that lost 23 officers, and steel crosses that welders cut on-site at Ground Zero.

Whether you were an adult or a child when it happened, September 11 was a defining moment for all of us in the United States. Help commemorate the tenth anniversary of September 11 by viewing this exceptional exhibition. **ITF**

Ground Zero 360° is organized by Paul McCormack and Nicola McClean.

Ground Zero 360° Inc. is a not-for-profit organization committed to remembering and honoring all victims of September 11.



ALL PHOTOS: © NICOLA MCCLEAN

Abbott Hall of Conservation

Restoring Earth

The Interview

ON NOVEMBER 4 THE ABBOTT HALL OF CONSERVATION RESTORING EARTH OPENS TO THE PUBLIC. IN THE FIELD MAGAZINE TALKS TO TWO KEY PLAYERS IN THE DEVELOPMENT OF THIS NEW PERMANENT EXHIBITION:



Debra Moskovits & Anna Huntley

Senior Vice President Exhibition Project Manager
Environment, Culture, and Conservation Exhibitions Department

WHEN DID ECCO START? WHAT ARE ITS GOALS?

DM: What is now ECCo—Environment, Culture, and Conservation—began as an experiment during the Museum's centennial celebration in 1995. We wanted to bring the Museum's tradition of rigorous science to bear on current, urgent challenges in conservation and cultural understanding. Field Museum scientists have excelled in discovering species, studying cultures, and decoding evolution for more than a century. Today ECCo deploys this expertise—along with the powerhouse of information in our collections—to secure biological and cultural diversity for the future. ECCo's dedicated team of scientist-explorers and educators work here in Chicago and in the wildest, most diverse place on the planet: the headwaters of the Amazon.

WHAT ARE SOME CURRENT ECCO PROJECTS?

DM: A key ECCo program is the Rapid Social and Biological Inventories. We document an area's biological diversity, its cultural strengths, and its residents' aspirations. We just completed our 24th inventory this summer with the Wampis and Awajun peoples in northern Peru.

WHAT MAKES THE EXPERIENCE OF RESTORING EARTH SO DIFFERENT FROM OTHER EXHIBITIONS?

AH: *Restoring Earth* tells a new kind of story—one that our visitors are a part of—so I'm very excited to be able to share such vibrant and relevant content. The exhibition will be like nothing you've ever seen. It's a great mix of artifacts and specimens, stunning photographs, and great media. And when I say media, I don't mean a dark room with a movie; I'm talking about screens that surround you, letting you fly over the jungle, or stand in the middle of a prairie burn, and funny digital animations that unpack big scientific ideas like how coral reefs work and what we can learn from cultures that flourished thousands of years ago.

WHAT IS YOUR FAVORITE PART OF THE EXHIBITION?

DM: I have several favorites, but the rapid inventory theater may be at the top of my list. This is the closest visitors will get to being transported to stunning, remote forests and to seeing how crucial these forests are for the livelihoods and well-being of local residents. I hope the theater lets people experience, even if just for a few minutes, the magic and intensity of the forest and the overwhelming beauty of its biodiversity.

BUTTERFLY IMAGE: JOHN WEINSTEIN © THE FIELD MUSEUM

AVARDO DEL CAMPO © THE FIELD MUSEUM, ECCO

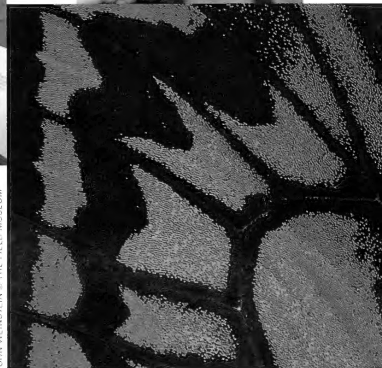




© THE FIELD MUSEUM EXHIBITIONS DEPARTMENT



ALVARO DEL CAMPO © THE FIELD MUSEUM, ECCO



ZOHN WEINSTEIN © THE FIELD MUSEUM

WHAT WERE SOME OF THE CHALLENGES OF DEVELOPING RESTORING EARTH?

AH: One of the most challenging things about creating *Restoring Earth* is the whole idea of “conservation.” This word means many things to many people and trying to express the HUGE variety of stories that visitors will encounter in *Restoring Earth*...well, it’s tricky. These are amazing stories, and I’m excited to share them all.

WHAT IS YOUR FAVORITE PART OF THE EXHIBITION AND WHY?

AH: The visual impact of this exhibition is incredible. We are using images called “supergraphics” which are 8 feet wide by 14 feet tall. These are my favorite part of the exhibition. They are high resolution, super zoomed-in digital images of the natural world. (See magazine cover.) They will take your breath away—and that’s the goal. We want everyone who experiences *Restoring Earth* to leave thinking, “Wow, our planet is amazing!” Just that one step—appreciation—can change how we understand our role as individuals, part of a community, and part of an ecosystem.

Above, clockwise from left: Design rendering of Restoring Earth; Herpetologist Pablo Venegas examines a lizard during a rapid inventory in Peru; Close-up view of a butterfly wing.

Opposite, bottom: ECCO scientists work in ecologically important forests of South America.

WHAT MAKES CONSERVATION SO IMPORTANT TODAY?

DM: Conservation has always been important. As the pace of habitat destruction increases, it becomes even more urgent for us to find effective ways to protect the integrity of diversity and the opportunity for nature and cultures to thrive. I am privileged to work in a science, collections-based institution that can have an immediate impact in securing diversity for future generations.

AH: It’s the path forward—our future is one where science, art, and communities come together to respect nature and celebrate the ways that we can live *with* nature, not *off* of it. It’s not humans AND nature—we ARE nature, and the possibilities of that future are exciting and limitless.

WHAT DO YOU HOPE VISITORS WILL TAKE AWAY FROM RESTORING EARTH?

DM: I hope people walk away with a sense of awe and respect for nature and recognition of the role we—humans—play in the ecosystem. And I hope visitors become curious about how they can become engaged in conservation efforts and in the joys of nature in their own backyards. **ITF**

Abbott Hall of Conservation Restoring Earth is made possible through the generosity of Abbott.

From Superstition to Science: Understanding Meteorites



By James Holstein, Collections Manager for Meteorites and Physical Geology,

The Robert A. Pritzker Center for Meteoritics and Polar Studies

EVERY METEORITE HAS A STORY TO TELL. THESE FASCINATING OBJECTS PROVIDE INSIGHT INTO THE FORMATION OF PLANETS. THEY ALSO HOLD CLUES ABOUT OUR GALAXY BEFORE THE BIRTH OF OUR SOLAR SYSTEM.



Above: Hand-colored woodcut showing the fall of the Ensisheim meteorite.

© J. KOBLITZ, COURTESY LIBRARY OF METEORITICS AND PLANETARY SCIENCES, BREMEN

Top, right: The Ensisheim Meteorite (ME 1739)
THE FIELD MUSEUM

But meteorites also have a very human component. How many times have people throughout the ages wished upon a shooting star? When a meteorite blazes through the atmosphere it conjures images of a world outside of our own. Superstition and the supernatural were used to explain these “fireballs from heaven” before science determined what meteorites actually are.

Accounts of meteorites date back to 1900 BC when Sumerian texts describe a piece of metallic iron, now thought to be a meteorite. The Chinese and Greeks documented two separate meteorite events around 650 BC. In fact, we have the Greeks to thank for the word *meteor* which comes from the word *meteoros*, meaning “high in the air.”

The Elbogen Meteorite (ME 1) is the museum’s first catalogued meteorite and is from one of the oldest recorded falls. Landing in the village of Loket, Czech Republic, in the year 1400, this 230-pound iron meteorite became known as the “bewitched burgrave” of Elbogen Castle. According to legend, a cursed count—known for his cruelty—was transformed into a solid piece of iron (the meteorite) that not even the hottest furnace could melt.

Another human story centers on the Ensisheim Meteorite (ME 1739). This 280-pound stony meteorite landed in a wheat field near the town of Ensisheim in Alsace (in today’s France) in 1492. The residents of the town broke off pieces as good luck talismans. The Emperor Maximilian, upon hearing of this event, ordered the stone placed in the parish church as a testament of a divine omen. It was secured with iron clamps to prevent the rock from departing in the same way in which it arrived!

In 1794, Ernst Chladni, a German physicist and lawyer, argued that meteorites were extraterrestrial in origin. Although his theory was met with disbelief at first, the idea that meteorites are in fact samples of other solar system bodies eventually gave rise to the science of meteoritics.

Proof of sorts came in 1795 when a meteorite fell in the village of Wold Cottage, England. The 50-pound stone fell out of a clear, blue sky refuting the idea that meteorites are products of atmospheric phenomenon. As the new science of meteoritics grew, scientists started to research earlier stories of supernatural events, eventually replacing superstition with scientific understanding. **ITF**

meteoroid

a chunk of planetary debris floating through our Solar System

meteor

a meteoroid that has entered Earth’s atmosphere creating a visible path of light (a.k.a. “shooting star”)

meteorite

a meteor that has fallen to Earth and survived as a chunk of “space rock”

Dive Deeper into the World of Whales



© BRANDON COLE

IT'S NOT TOO LATE to experience *Whales: Giants of the Deep!*

This traveling exhibition from the New Zealand national museum, Te Papa, continues its run at The Field Museum through January 16, 2012. Featuring fully articulated whale skeletons, dramatic videos, and hands-on activities, the exhibition presents some of the latest scientific discoveries of whale biology, evolution, and even “cetacean communication.” Come and discover why these giants of the deep continue to intrigue and inspire. **ITF**

Developed and presented by the Museum of New Zealand Te Papa Tongarewa.

This exhibition was made possible through the support of the New Zealand Government.

Proud Major Sponsor: Wells Fargo

Killer Regalia

By Franck Mercurio, Associate Editor, In The Field

A BIG PART OF *Whales: Giants of the Deep* explores the relationships between people and whales with a special focus on the Maori of New Zealand. Just as the Maori have cultural ties to whales and whaling, so too do many indigenous peoples of North America. The Field Museum's *Alsdorf Hall of Northwest Coast and Arctic Peoples* contains objects that reflect the importance of whales to traditional lifeways. These include Inupiat whaling charms from Alaska, a Nootkan hat depicting a whaling scene, and a Tsimshian blanket woven with designs of killer whales.

But one object stands out from the rest: a killer whale headdress created on Vancouver Island, British Columbia, by an unknown Kwakiutl [kwa-kee-oooh-tl] craftsman

during the 19th century.

On permanent display in the Alsdorf Hall, the headdress has been part of The Field Museum's collections since the 1890s. Originally, it was worn in the Tláslúá or “Weasel Dance,” a ritual



AI14890_045 / KAREN BEAN

celebration that featured dancers dressed as different animal spirits during the annual Winter Ceremonies. Using a set of cords, the dancer could move parts of the headdress—including the jaw, tail, and pectoral fins—animating the whale and giving life to the dance performance.

Killer whales (*Orcinus orca*) figure prominently in the history, art, and spiritual beliefs of the peoples of the Northwest coast. Pods of killer whales navigate the waters of the Pacific coast from Oregon to Alaska. These highly social animals are known as fierce hunters, eating salmon, sea lions, and sometimes sharks and other whales—and they hold an important place in native lore. **ITF**



CSA11897 / CHARLES CARPENTER

Natural Wonders

A Roman Mosaic from Lod, Israel

By Franck Mercurio, Associate Editor, In The Field

IN 1996 A ROAD CONSTRUCTION CREW WORKING IN ISRAEL made an unexpected discovery. Beneath the town of Lod, they uncovered a Roman-era mosaic of exceptional size, quality, and preservation. Measuring nearly 27 feet wide and 50 feet long, the mosaic depicts an amazing variety of mammals, birds, and fish.

Archaeologist Miriam Avissar from the Israel Antiquities Authority excavated the site. She and her team uncovered pottery and coins that helped date the mosaic to the late Roman period, about AD 300. The archaeological remains also indicate that the mosaic floor was part of large private residence belonging to a wealthy (and at this time, unknown) citizen of the ancient town.

In Roman times Lod was known as Diospolis. Located on the main overland trade route between Jerusalem and the Mediterranean port of Joppa (modern-day Tel Aviv-Yafo), Diospolis is a city of merchants. Indeed, this part of the world stands at the crossroads of Asia, Africa, and Europe—and the animals depicted in the Lod Mosaic suggest connections to those places: giraffe, rhino, and elephant from Africa; tiger, water buffalo, and peacock from Asia.



PHOTOS COURTESY OF THE ISRAEL ANTIQUITIES AUTHORITY



Curiously, no humans are shown. This is unusual for Roman mosaics which often depict mythological stories or scenes of daily life. Instead, the Lod Mosaic contains mostly images of animals. The few man-made objects (ships, baskets, urns) imply the presence of humans without actually depicting them, perhaps an influence from traditional Jewish art.

The mosaic depicts dozens of fish—including bream, mullet, sea bass, and snapper—could these be early Christian symbols? or simply representations of seafood? (Lod is, after all, only a few miles from the sea.) Scholars are still studying the mosaic and its archaeological context to answer these questions.

What seems clear is that the mosaic's owner had a fascination with the biodiversity of the ancient world. Most of the depicted animals contain enough detail to be identified by scientists. Nearly all appear to be wild—few, if any, are domesticated. And many of the mammals and birds do not represent local species, but those from more distant regions. These exotic animals were probably known to ancient Romans through the wild animal contests held in amphitheatres and coliseums throughout the empire.

Today, the town of Lod is building a new museum to house the mosaic. While the center is under construction, the Lod Mosaic will travel to venues across the United States including The Field Museum from December 9, 2011 to April 22, 2012 in the Gary C. Comer Family Gallery. [ITF](#)

The Lod Mosaic will be on loan from the Israel Antiquities Authority and the Shelby White and Leon Levy Lod Mosaic Center.

FALL 2011 September > December

program Calendar

The Field
Museum

Program Tickets & Info 312.665.7400

General Museum Info 312.922.9410

Harvesting spectacular programming for the Fall!



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No refunds are permitted for any program. Fees for programs that are canceled by The Field Museum will be refunded in full.

september

Artists and Authors: Puppets* family program

9.17, 11am–2pm > Join us in the *Crown Family PlayLab* and make your own wooden puppet doll in celebration of Hispanic Heritage Month. View puppets from Guatemala, Mexico, Puerto Rico and Costa Rica, then have fun painting your own puppet as you learn about Latino cultures around the world. This program is for families with children ages 2–6.



ARTIST: KATHALEN CULBERT AGUILAR

october

Leakey Lecture: Dr. Nina Jablonski* adult lecture

10.1, 1pm > We expose it, cover it, paint it, tattoo it, scar it, and pierce it. Skin mediates the most important transactions of our lives, all while protecting us, advertising our health, our identity, and our individuality. In this lecture, Jablonski

will explore the unique biological and cultural aspects of human skin and its importance as a key element of human adaptation.

Dr. Nina Jablonski is Professor and Head of Anthropology at Penn State. Her research on human skin has been featured in *National Geographic*, *Scientific American*, and other publications.



COURTESY OF THE LEANEY FOUNDATION

Educator Open House educator program

10.11, 5pm–8pm > The Field Museum invites educators of all subjects and grades to celebrate the start of the 2011–2012 school year. Explore vast collections with Museum experts, meet scientists and learn about cutting-edge research, and view the temporary exhibition, *Chocolate*. Get connected through the Museum's digital learning programs and gather a wealth of information and materials to start your school year right. Earn 3 CPDU's for attending.

Pre-registration is required; you can register on-line or by phone; visit fieldmuseum.org/schools or call 312.665.7500 by Monday, October 3.



WWW.MORISGENTLE.COM

Them Bones, Them Bones!* family program

10.29–10.31, 11am–2pm > No bones about it! Join us as we celebrate Halloween and the Day of the Dead through art masterpieces in the *Crown Family PlayLab*'s Art Studio.

november

Badge Day at The Field boy scout program

11.19, 8:30am–3pm > Boy Scouts: Earn your merit badges at The Field Museum! Explore science and culture at The Field Museum with a variety of hands-on activities and tours, including a special behind-the-scenes tour allowing scouts access to restricted collection areas of the Museum. Merit badges offered include Environmental Science, Indian Lore, Mammal Study, and Geology. Registration fee includes program supplies, a behind-the-scenes tour, Basic Admission to The Field Museum, a "Badge Day at The Field" patch, and free parking in Soldier Field. \$25 per scout; rate discounted to \$20 per scout with attendance at 2 or more programs, chaperones free.

For questions or registration information, please email scouts@fieldmuseum.org.

Artists and Authors: Tim Magner* family program

11.19, 11am–2pm > Tim Magner's books engage, entertain, and enlighten children with the wonders of nature. In addition to reading and signing copies of his books, Tim will also share fun art and science activities to encourage outdoor play. Books will be available for purchase at this event.



THE FIELD MUSEUM

december

Story Time* family program

Saturdays & Sundays, 11:30am & 1:30pm > Join us in the *Crown Family PlayLab* to hear a story and make a project—all in 20 minutes!

Artist at Work: Mosaic Demonstration* artist demo

12.10, 11am–3pm > Watch as a professionally trained artist demonstrates her mosaic methods, using the classical hammer and hardie cutting technique. Display includes examples of various methods and materials highlighting the ancient roots or "grammar" of mosaic making. Finished artworks, work in progress, tools, books and a resource hand-out are featured.



© DEBORAH VAN E R C



THE FIELD MUSEUM



DOZIN' WITH THE DINOS

overnight at the museum

SUE the *T. rex* is having a sleepover! Join us for a night of family workshops, tours, and performances. Explore ancient Egypt by flashlight, prowl an African savannah with man-eating lions, and take a stroll through the Royal Palace in Bamum, Africa. Then spread your sleeping bag amidst some of our most popular exhibitions. The event includes an evening snack and breakfast in the morning.

Overnights begin Fridays at 5:45pm and end Saturdays at 9am. Overnights are only available for families and groups with children ages 6–12. Space is limited, so reserve your sleeping spots now! For information about pricing, see below. For information about the event, including a sample schedule and frequently asked questions, please visit: fieldmuseum.org/happening/programs/overnights.

Standard Overnight Tickets: \$63, \$51 for Field Museum members and groups.



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Premium Package 1

Tickets: \$75, \$65 for Field Museum members. Premium Package 1 tickets allow guests to sleep upstairs in the *Evolving Planet* exhibit—with the dinosaurs!

Premium Package 2

Tickets: \$87, \$77 for Field Museum members. Premium Package 2

guests sleep upstairs in the *Evolving Planet* exhibit and go on a behind-the-scenes tour with a Field Museum scientist.

January 20 • February 3, 10, & 17 • March 2, 9, & 16
April 20 • May 4 • June 15

Chocolate a celebration!



© AP PHOTO: TOMAS HERTZSCHKE

Colossal Chocolate Creations

Encounter one-of-a-kind chocolate inspired creations in *Chocolate Around the World*. Chicago-area artists and pastry chefs will draw inspiration from chocolate-focused holiday celebrations as well as Field Museum and Chicago icons to create colossal-sized sculptures made from chocolate and candy wrappers.

October 8 & 29 • November 25 & 26 • December 26–30

Admission to *Chocolate* exhibition required.

Featured Opening Month Programs:

10.8, 11am–3pm > A sculptural showpiece will be created from chocolate, presented by Chicago's Palmer House Hilton.

10.29, 11am–3pm > Watch Chicago-area artist Ian Sherwin fabricate a large-scale Halloween-inspired origami sculpture from candy wrappers.



Sign up for the Crown Family PlayLab E-News!

This e-newsletter is an early science literacy resource geared towards families with young children ages two through six. Each quarterly issue will feature theme-based, downloadable activities and articles designed to encourage outdoor exploration, creative play, and self-expression. Email us at playlab@fieldmuseum.org to start receiving emails.

in the *Crown Family PlayLab*

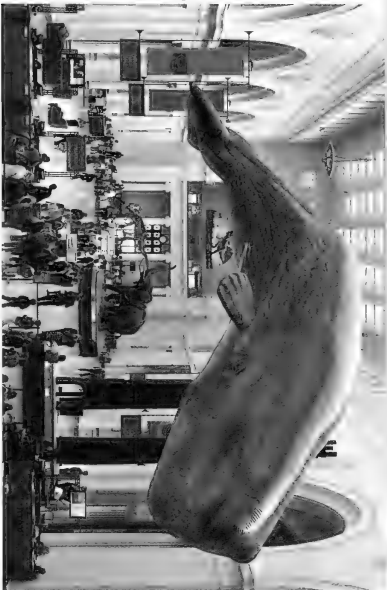
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fieldmuseum.org
event details are available online!

explore exciting
extraordinary
exhibitions

FIELD MUSEUM / J. WEINSTEIN GN01507_005



Whales: Giants of the Deep

THROUGH JANUARY 16, 2012

Immerse yourself in the vibrant underwater world of whales and discover the many ways in which these magnificent creatures continue to intrigue, astound, and inspire us. Come experience *Whales: Giants of the Deep*, only at The Field Museum.

Developed and presented by the Museum of New Zealand Te Papa Tongarewa. This exhibition was made possible through the support of the New Zealand Government. Proud Major Sponsor: Willis Togo



Travelogues and Technologies— from Small Sketches to the Biggest Book

THROUGH JANUARY 1, 2012

Discover how technological advancements have changed how we document explorations of the world as you follow Field Museum expeditions from the 1890s to present day. Uncover extraordinary stories of travel, scientific discovery, and rare encounters, only at The Field Museum.

Travelogues and Technologies—from Small Sketches to the Biggest Book is organized by The Field Museum.



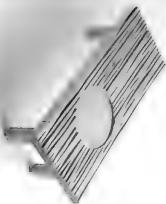
Design for a Living World

THROUGH NOVEMBER 13

Every single object we use originated in nature and was shaped by human effort. *Design for a Living World* offers a captivating look into the life cycle of materials and showcases the possible synergies between conservation and design. Featuring the work of prominent designers, discover the powerful connection between conservation and design.

Design for a Living World was developed by The Nature Conservancy. The lead sponsor for *Design for a Living World* is Northern Trust. Additional support is provided by Ascenture.

PHOTOS: DAN WHIPPS



Empowering Teachers

The Early Elementary Science Partnership

By Jessica Hankey, School Partnerships Manager and Sandra Aponte, Early Elementary Science Partnership Administrator

THE FIELD MUSEUM IS CHANGING THE FACE OF SCIENCE EDUCATION in Chicago's public schools through the **Early Elementary Science Partnership (E2SP)**. This city-wide initiative is improving science literacy by preparing educators to teach science to younger students. Partner institutions include: Peggy Notebaert Nature Museum, Lincoln Park Zoo, Chicago Children's Museum, Chicago Public Schools Office of Teaching + Learning / Office of Science, Northwestern University, and University of Chicago.

The United States has reached the tipping point in science education. Research shows that American students rank 17th in science tests compared to young people in 29 industrialized countries.* Addressing this disparity requires a multi-pronged approach and a nationwide solution. For its part, The Field Museum is diversifying its portfolio of programs aimed at learners of all ages including elementary students.

Introducing science into kindergarten through 3rd grade classrooms provides the foundation for future student achievement in the sciences. E2SP helps to improve educators' ability to teach science in schools and museums

by creating a community of highly-skilled elementary teachers who can better prepare our next generation of innovators.

Through E2SP, educators participate in professional development connected to Chicago's museums, zoos, and universities. Teachers deepen their science knowledge through exhibition tours, engagement with scientists, and behind-the-scenes experiences. They take what they've learned back to the classroom and then return to a local museum or zoo for field trips with students.



THE FIELD MUSEUM

Change is happening. Teachers are improving their science knowledge and becoming more confident in their practice. One teacher shared: "[Prior to E2SP] I skipped teaching science almost every day, because I really just had no clue. I didn't know where to start. Then last year, we had E2SP. I came to the E2SP meeting to see how they did the lesson... This year, I was more confident. I started to teach science the second week of school. I was ready."

E2SP students are thrilled about doing science. Some were so excited that they held their first school-wide elementary "science celebration" in which students toured each other's classrooms to view science projects.

Building on the last two years of success, E2SP will continue its work thanks to generous funding by the Searle Funds at The Chicago Community Trust, the Polk Bros. Foundation, and Motorola Solutions Foundation. For more information, please visit fieldmuseum.org/schools/school-partnerships. **ITF**



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*The Trends in International Mathematics and Science Study, produced by the National Center for Education Statistics, 2007.

Chocolate Around the World

Back by Popular Demand Starting October 5

By Nancy O'Shea, Public Relations Director

JUST IN TIME FOR THE HOLIDAYS, THE FIELD MUSEUM BRINGS BACK ITS POPULAR CHOCOLATE EXHIBITION THAT RECEIVED RAVE REVIEWS WHEN IT PREMIERED IN 2002!

Chocolate Around the World is better than ever—with space for public programming, demonstrations, and special events. Come enjoy this sweet experience that will engage all your senses and reveal facets of chocolate you may never have thought of before.

Imagine a unique tree in a lush tropical environment. A seed so precious it was used as money. A spicy drink and a sweet snack. A strong craving and a sublime pleasure. Chocolate is all this and much more. *Chocolate Around the World* (October 5, 2011 through January 8, 2012) explores the fascinating relationship between human culture and this rainforest treasure.

LIQUID GOLD FROM THE RAINFOREST

Bon-bons, hot fudge, frozen chocolate bars. Most of us know chocolate today primarily as a candy or a sweet dessert. But it wasn't always so. The ancient Maya of Central America knew it as a frothy, spicy drink, made from the seeds of the cacao tree and used in royal and religious ceremonies. How did humans first come to taste these bitter seeds, found deep in the pulp of a large, rough pod the size of a football?

No one recorded the event. But, says, Jonathan Haas, The Field Museum's MacArthur Curator of North American Anthropology, it was an intensely human thing to do. "Human beings are tinkerers," Haas says. "We like to try things. And when most of your diet comes from corn, you're going to be looking for variety." So the Maya let the seeds ferment, dried them in the sun, roasted them, crushed them, added water and spices...and drank!

The fascinating first section of the exhibition concerns the cacao tree, its lowland rainforest ecology, and how it's grown today. Because cacao grows only in the rainforest, it was coveted by other societies—in particular, the Aztec. It soon became a valuable article of trade; the seeds served as a form of money, and the drink became a luxury for the elite. When the first Europeans reached the Aztec capital, instead of gold they found treasure troves of cacao seeds.

When chocolate reached Europe, it was mixed with sugar and a new craze began—cafés serving hot chocolate sprang up in every city (much like ubiquitous high-end coffee shops of today.) The exhibition explains how the insatiable European demand for this new treat made chocolate a commodity and fueled the use of forced labor on colonial plantations.



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© YUKIHO MAKINO, FREIERS / CORBIS



In the center of each cacao pod sit 30 to 50 almond-sized seeds. One pod can produce about seven milk chocolate candy bars.

© LINDT & SPRUNGLI, SWITZERLAND

A GLOBAL COMMODITY AND A CULTURAL ICON

Though humans have now taken cacao from its native home in the Americas to grow it in West Africa, Indonesia, and other tropical lands, the plant remains rooted in its rainforest ecosystem. Today, many cacao farmers and scientists are working together to find ways to grow cacao profitably without destroying the rainforest habitat.

Technological advances and mass production—not to mention enormous amounts of advertising—have made chocolate part of the global market economy.

Cacao seeds are traded on the commodities market right along with pork bellies and soy. A futures stock ticker display showing cocoa prices on the world market brings this point home.

Although chocolate is big business today, it still retains vestiges of its ceremonial history. Mexicans today use it as an offering on the Day of the Dead in the form of beans or prepared as mole. Foil-wrapped chocolate coins are given to children as “Chanukah gelt.” In fact, chocolate has a place in nearly every holiday celebration: heart-shaped boxes of chocolate for Valentine’s Day, chocolate bunnies for Easter, wrapped candies for trick-or-treaters at Halloween, and cups of hot cocoa to warm Christmas carolers. **TF**

Chocolate and its national tour were developed by The Field Museum, Chicago.

Lead Sponsor: Kraft Foods Foundation

This project was supported, in part, by the National Science Foundation.

Two Sweet Events

Chocolate for Breakfast!

As a valued member, you are cordially invited to an exclusive event on Saturday, October 29.

Come join us for a continental, chocolate-themed breakfast from 8am to 9am, followed by a talk in James Simpson Theater

with Gary Feinman, curator of *Chocolate Around the World*. Hear about the origins of chocolate, and its evolution to the sweet treat we all know and love today.

Reservations to this special event are required and can be made by contacting 312.665.7705, Monday through Friday from 8:30am to 4:30pm.



© DEBORAH VAN KIER

Celebrate Your Sweetest Anniversary

If you and your spouse are celebrating your 50th anniversary in 2011, then you are invited to celebrate your “Sweetest Anniversary” at The Field Museum on Saturday, December 3.

By showing proof of marriage in 1961 (marriage certificate, wedding invitation, or dated newspaper clipping), visitors will be entered in a raffle to win romantic prizes and celebrated with a toast and wedding cake. All attending couples are invited to renew their wedding vows at 1pm.

Visit *Chocolate Around the World* with your sweetheart and celebrate 50 years of marriage. Reservations are encouraged. Call 312.665.7107 for more information. (Event is free to

members; non-members with proof of marriage receive free basic admission with purchase of *Chocolate* ticket.)



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Hidden Gems

at The Field

Compiled by Franck Mercurio, Associate Editor, In The Field

OF THE 24 MILLION OBJECTS IN THE FIELD MUSEUM'S COLLECTIONS, ONLY ABOUT 1% ARE ON PUBLIC DISPLAY. SOME ARE FAMOUS—LIKE BUSHMAN (SEE PAGE 14)—WHILE OTHERS ARE MORE OBSCURE. EVER WONDER WHICH OF THESE "HIDDEN GEMS" ARE THE FAVORITES OF THE MUSEUM STAFF?

CANNONBALL TREE

THORSTEN LUMBSCH

Associate Curator and Chair, Department of Botany



GN00965_05D

At the entrance to *Plants of the World*, there is a masterpiece of wax modeling central to this permanent exhibition: the Cannonball Tree model. Its large, round fruits look like cannonballs, hence the name. This plant thrives in the wet tropics of South America, including the Amazon basin. In nature, the flowers attract a certain species of bee for pollination. The Cannonball Tree model looks especially real, since it shows the plant in a natural setting, growing in soil with dead leaves on the ground. The tree's leaves, flowers, and characteristic fruits are also realistically modeled. It's one of the largest—and most amazing—plant reproductions in the museum.



GN01534_01HD / KAREN BEAN



GREG NUISE © THE FIELD MUSEUM

NORTHERN SHRIKE

JOHN BATES

Chairman, Department of Zoology
Associate Curator, Bird Division



GN1872E_18D

My "hidden gem" in the exhibition halls is not really hidden, just easy to by-pass. I admit it is a little morbid, but it expresses the exquisite detail that one might overlook when studying the Museum's wonderful dioramas. It also illustrates why these dioramas still stir one's imagination in today's computer driven world. My hidden gem is the Northern Shrike in the "Birds in Winter" diorama of *Nature Walk / Messages from the Wilderness*. At first glance it is another robin-sized bird in a bush—but look more closely. You can see that the gray, black, and white bird with a strong black bill is feeding on the remains of a dead mouse that the bird has impaled on a thorn. This is a habit of these shrikes, who breed in northern Canada and appear in the Chicago region only in winter. (One was documented at Northerly Island this past January and February.) A few drops of blood, below the bird and its prey, are visible in the snow. It is a wonderfully detailed presentation of the biology of these birds and their prey.

ALL PORTRAITS: JOHN WEINSTEIN © THE FIELD MUSEUM



© GEORR885

CASEA BROILII 
KENNETH ANGIELCZYK

Assistant Curator of Paleomammalogy, Geology Department



© NH1829_06D

It's easy to overlook the small, brown skeleton of *Casea broilii* that's on display in the synapsid section of *Evolving Planet*. It's much smaller than dinosaurs like *Apatosaurus* or *Parasaurolophus*. It lacks Sue's impressive teeth, and doesn't even have a sail along its back like its cabinet-mate *Dimetrodon*. However, the history and scientific importance of this specimen make it a hidden gem in The Field Museum's exhibitions. *Casea* is part of a large group called Synapsida, which includes living mammals and their extinct relatives. That means *Casea* is more closely related to you and other mammals than to any reptile, bird, or amphibian, and *Casea's* position as one of the most primitive synapsids makes it very important for learning about some of our earliest ancestors. It was also a pioneer when it came to its diet; *Casea* was one of the first plant-eating tetrapods, paving the way for future vegetarians like horses, elephants, and antelope. *Casea* is about 275 million years old, which means it lived about 35 million years before the first dinosaurs.



© GEOR8500_032D / KAREN CARR

© GREG MERCER



© NH1827_26D



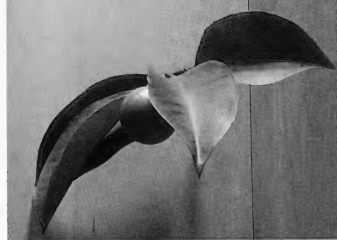
NORTHWEST COAST TOTEM POLES 
GRETCHEN BAKER

Director of Temporary and Traveling Exhibitions



© NH1826_27D

Tucked away inside The Field Museum is an unexpected sight: a forest of cedar trees. But these aren't typical trees. Where there were once branches, an eagle spreads its wings. Where there was rough bark, a smooth complexion holds deeply set eyes. No physical roots remain, but you can detect a deep spiritual anchor. Artists of various Northwest Coast peoples carved trees to memorialize important people and protect important places. These totem poles have been on display since the Museum first opened its



© NH1831_012P / KAREN BEAN

MANGOSTEEN 
JAAP HOOGRATEN

Director of Exhibitions

When I need to clear my head, I often take a walk through the Botany Hall (a.k.a. *Plants of the World*.) The craftsmanship of the plant models is inspiring to me, and I fantasize about how I could enliven the beautiful but traditional exhibitry. I always stop to look at the model of the mangosteen fruit in the back corner. I grew up mostly in Southeast Asia, and the mangosteen is my favorite fruit. Sweet, tangy, and juicy there really is nothing like it. Unfortunately, it is not available in this country, so the closest I'm going to get to it is the delicious looking model in the Botany Hall.

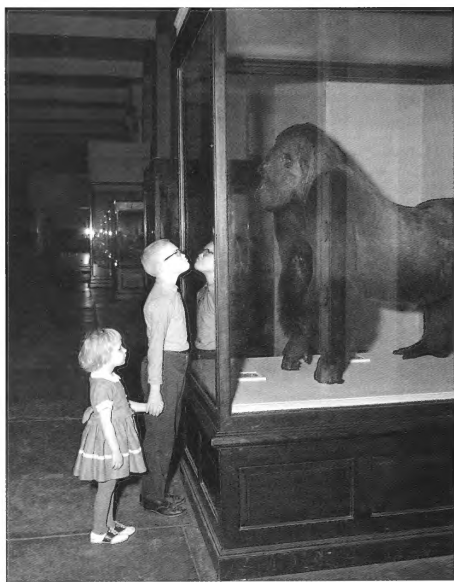
doors and are one of its hidden gems. When I enter this forest of totem poles, however, it is I who become hidden—dwarfed by their size and lost in their details such as the human faces that emerge from a grizzly bear's paws. **ITF**

In the Spotlight: Bushman

By Phoebe Duvall, Writer



I DARE YOU! STARE INTO THE PIERCING GAZE of one of the most popular primates ever! Meet Bushman, the lowland gorilla—described as “the greatest of his kind”—and discover why millions visited him at the Lincoln Park Zoo and continue to visit him today at The Field Museum.



Sister and brother, Carolyn and David Riske, confront Bushman in 1963.

- In 1930, Bushman was brought to the Lincoln Park Zoo from Cameroon, Africa for a fee of **\$3,500**. He was billed as the first of his kind “West of the Potomac River.” Although there are no official records, it is speculated that Bushman’s mother was killed, most likely by gorilla poachers, and was then captured, raised, and sold by the hunters.
- For many years, Bushman was the **patriarch gorilla** at the Lincoln Park Zoo which developed the nation’s first captive breeding program for lowland gorillas. Forty-five successful births occurred at the zoo between 1970 and 1998.
- During the prime of his life, Bushman **stood at 6-feet 2-inches** and **weighed 547 pounds**. He amazed spectators with his surreal strength—bending tires as though they were rubber bands. He **ate up to 26 pounds** of vegetables, fruit, and milk each day.
- Bushman’s size, personality, and rarity won the hearts of his numerous admirers. No other animal has drawn more crowds than Bushman. On a single day, when he was thought to be dying, **120,000 people filed into the zoo** to see the beloved gorilla.
- After Bushman’s **death in 1951**, his body was prepared for display at The Field Museum by taxidermists Leon Waters and Frank Wonder and artist Joseph Kristolich. They made the **face and feet of celluloid**, a technique needed to make Bushman’s hairless skin look life-like.
- Western lowland gorillas, like Bushman, are currently listed as **critically endangered** on the IUCN (International Union for Conservation of Nature) Red List of Threatened Species.

described as
“the greatest of his kind”

Children's Holiday Celebration

SAVE THE DATE FOR THE WOMEN'S BOARD ANNUAL
CHILDREN'S HOLIDAY CELEBRATION!

THURSDAY • DECEMBER 8 • 4:00–6:30 PM

At this festive event, children and adults are invited to explore and celebrate the many cultures of Chicago and the world. Activities include a scavenger hunt, crafts, live entertainment, and a visit with Santa Claus—all to create a memorable afternoon of holiday fun.



Tickets are \$17 for adults or \$15 for adult museum members and \$10 for children ages 13 and under. Reservations are limited and tickets will not be sold at the door. For tickets and further information please call 312.665.7145. **ITF**

always be discovering.

The Field
Museum

museum
campus^{neighbors}

ADLER PLANETARIUM

Don't miss **Deep Space Adventure**, a new, immersive space experience like no other in the world! **Deep Space Adventure** takes you aboard the observation deck of a starship where you are surrounded by the larger-than-life phenomena of our Universe. Encounter the Universe at a level of realism that can only be surpassed by actual space travel. For more information or to plan your visit, go to www.adlerplanetarium.org.

SHEDD AQUARIUM

Be transported to the beautiful and mysterious world of sea jellies in Shedd Aquarium's new special exhibit, **Jellies**. You'll discover the intriguing ways in which these pulsing, translucent animals survive—and thrive—in the world's oceans. Learn how a jelly can devour enough food to double its weight each day, or how sea nettles hunt by trailing their long stinging tentacles to paralyze prey upon contact. **Jellies** runs through May 28, 2012. For more information, visit www.sheddaquarium.org.



THE FIELD MUSEUM

Field Memberships: The perfect gift!

A Field Museum membership is the perfect gift for the explorers on your list—especially at a **holiday discount rate!** Every level of a Field Museum membership includes benefits such as free basic admission and special exhibition tickets, an invitation to our annual Members' Nights and discounts at our stores and eateries.

Call 312.665.7700 • Mon.–Fri., 8:30am–4:30pm
Visit fieldmuseum.org/memberoffer

Getting to The Field Museum

Many buses and rail lines provide access to The Field Museum. For more information, call 888.YOURCTA or visit www.transitchicago.com. Visit www.rtachicago.com for regional transit information.

What do you think about In The Field?

For questions about the magazine, call 312.665.7107, email ewaldren@fieldmuseum.org or write Emily Waldren, Editor. For general membership inquiries, including address changes, call 866.312.2781.

Holiday Shopping at The Field

THERE'S SOMETHING FOR EVERYONE THIS HOLIDAY SEASON.

Whether you are shopping for family or friends, for young or old, The Field Museum Stores have you covered.

Mark your calendars for the Museum Stores' **annual member double-discount days** starting November 28 and running through December 4. All members will receive a 20 percent discount on all purchases from the Museum Stores, so plan to visit the Museum and bring your shopping list. Shopping opportunities include our four permanent stores, as well as our two temporary exhibition stores: *Chocolate Around the World* and *Whales: Giants of the Deep*. Remember that all proceeds from the Museum Stores directly support The Field's public and scientific programs.

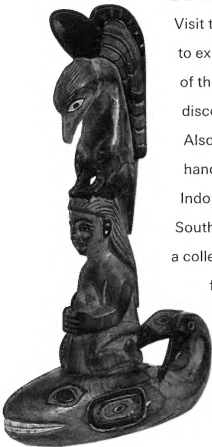
As always, you can shop 24 hours a day at fieldmuseum.org/store.



Whales Store

Visit the *Whales* store through January 16 to explore the beauty and natural history of these giants of the deep. Here you can discover toys, books, and more for kids. Also find jewelry, gifts, and amazing hand-crafted objects from Mexico, Japan, Indonesia, Canada, Alaska, and the American Southwest. The *Whales* store also contains a collection of hand-carved wooden totems

from indigenous communities near Ketchikan, Alaska, including this fine piece (pictured, left) that depicts the tale of the "Whale's Song."



Chocolate Shop

For hundreds of years, humans have been fascinated with the delicious phenomenon that we call "chocolate." Get the complete story behind this tasty treat that we crave in the exhibition *Chocolate Around the World*. Then visit the Chocolate Shop where you will find something for everyone who loves chocolate. From childhood favorites to bold new flavors from

around the world, there will be tasty treats to engage your senses as well as chocolate-inspired accoutrements for everyone in the family.

