

Tracks

SEPT - OCT, 2011

NEWS FROM THE CLEVELAND MUSEUM OF NATURAL HISTORY

Volume 39, Number 5

CLIMATE CHANGE AND CORAL

SmartSale

Polar Obsession

Sapphire Nights

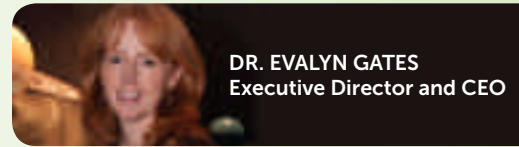
Cleveland Museum of NATURAL HISTORY



It was a busy summer at the Museum. The *Little Builders* exhibit has been a huge hit for younger visitors, with parents and grandparents right in the middle of the action as well. Tours of *PNC SmartHome Cleveland* offered a chance to experience the home of the future, and the response has been overwhelmingly positive. Even on the hottest days, the house was cool and comfortable, and our tour guides are outstanding. In conjunction with SmartHome, we hosted Wednesday evening workshops on energy efficient practices for existing homes and gardens, led by experts from Home Depot.

Museum curators have returned from the field after another successful season (with hints of new discoveries we will hear more about in the coming months). I was also briefly in the field this summer. After years of searching for stellar fossils, I was invited to spend a day searching for

Ice Age fossils at the site of one of the most spectacular paleontological finds in the history of Colorado. Last October, the bones of an Ice Age mammoth were unexpectedly unearthed near Snowmass, Colorado, during the expansion of a water reservoir. Ultimately more than 4,800 bones were uncovered—including those of mammoths, mastodons, giant sloths, camel and bison. Scientists had two weeks before snow cut off access to the site last fall, and only a little over a month to dig this summer before the reservoir expansion resumed. It was essentially a salvage project, the usual methodical excavation of fossils replaced by an all-hands-on-deck effort to recover as many bones as possible in the time available. Thus there was room for even a cosmologist to help out—assuming she was willing to wield a shovel. After a brief tour of the site, Kirk Johnson, chief curator of the Denver Museum of Nature



DR. EVALYN GATES
Executive Director and CEO

and Science, which is overseeing the dig, handed me the aforementioned shovel and I was assigned to a team working in the deepest layer, dating to 150,000 years ago. By the end of the day I was exhausted, but thrilled to have found my first Ice Age fossils—three rib bones, one vertebra and one small bone fragment of an ancient deer or horse!

I am also thrilled that the *Climate Change* exhibit is here, and it's wonderful! The living coral reef is especially beautiful. We also have an outstanding lineup of special programs and lectures that will address climate change topics from health to national policy. I hope to see you here!

MAKING TRACKS

Curator of Ornithology **Dr. Andy Jones** has been appointed Director of Science. In addition to his curatorial duties, he will now manage the day-to-day operations of the Collections and Research Division. This part-time appointment has traditionally rotated among various curators over the years. Many thanks to **Dr. Brian Redmond**, Curator of Archaeology, who most recently held the position.

Curator of Botany and Director of Conservation **Dr. Jim Bissell** received the 2011 John C. Oliver Environmental Leadership Award presented by Pennsylvania Governor Tom Ridge. Bissell was recognized for his significant environmental leadership and impact at the Tom Ridge Environmental Center, Presque Isle and Western Pennsylvania.

Curator Emerita **Dr. Shya Chitaley** received the 2011 Distinguished Career Award presented by the Association of Midwest Museums. The AMM Awards Committee stated that Chitaley's 31 years of research has advanced the knowledge of paleobotany for communities across the world.

Curator of Invertebrate Paleontology **Dr. Joe Hannibal** presented a paper, "Characterization of warping marble in New Orleans' cemeteries," at the 47th Forum on the Geology of Industrial Minerals held in Champaign, Illinois, in May.

In June, **Dr. Cathi Lehn**, Resource Specialist, completed the last of six workshops for the Imperiled Butterfly Conservation and Management course funded by the Institute for Museum and Library Services through the University of Florida. Lehn is chair of the West Virginia White Butterfly Committee of the Lake Erie Allegheny Partnership and plans to use the information learned from the workshops to help direct the efforts of this committee.

Science Resource Center Coordinator **Martin Calabrese** has been elected to the Board of Directors for the Cleveland Regional Council of Science Teachers.

Museum volunteers recently entered the 25,000th bird specimen into the ornithology collection database. There are approximately 30,000 total study skins in the collection.

This spring, Librarian **Wendy Wasman** and Archivist and Museum Trustee **Evie Newell** noticed a dead bird lying below a glass window on Wade Oval. They brought the bird to **Dr. Andy Jones** as a potential addition to the Museum's Ornithology collection. Jones identified it as a Song Sparrow but was excited to discover that it was wearing a small aluminum band on its left leg. More than 1 million birds are banded in the nation each year but only a small fraction are encountered again. Ornithology Preparator **Maria Burke** prepared the male bird as a specimen for the collection. Jones submitted the bird's information to the Bird Banding Lab, and was told that the bird had originally been banded on November 7, 2010, at the Powdermill Avian Research Center, part of the Carnegie Museum of Natural History, southeast of Pittsburgh. The banders identified this bird to species and noted it had hatched in the summer of 2010. By April of this year, the bird had migrated northwest to Cleveland and was likely defending a territory. Each chance encounter with a banded bird provides data that offer a glimpse into the lives of the birds around us.



Before *PNC SmartHome Cleveland* is moved to its permanent location on the edge of University Circle, its locally created sustainable artwork will be available for sale during a SmartSale on **Sunday, October 9, from noon to 4 pm.**

The RED DOT Project, a member-based nonprofit art resource based in Cleveland, curated the display of art and furnishings in *PNC SmartHome Cleveland*. Artwork featured in the SmartHome incorporates the principles of sustainability, from the materials and processes used to the imagery and ideas communicated through the artworks themselves. Some artists used natural materials or found objects to create their pieces, while other re-imagined the creative process to use less caustic or dangerous materials.

To purchase selected artwork and furnishings featured in the SmartHome, visit the SmartSale on October 9. You can take your purchase with you or pay to have it delivered. Check, cash, Visa, Mastercard, American Express and Discover will be accepted. A portion of the proceeds will support the Museum.

For inquiries regarding price, availability or pre-sale opportunities, contact Christy Gray at the RED DOT Project at (216) 664-9600 or christy@reddotproject.org. More information about the individual artworks is available on the Museum's Web site at www.cmnh.org/site/AtTheMuseum/OnExhibit/SmartHome/RedDot.aspx.

SMARTHOME TOURS

Tours of *PNC SmartHome Cleveland* are conducted daily through October 7. Tour hours are Monday through Saturday from 11 am to 4 pm and Sunday from 12:30 to 4 pm. Admission is \$5 with the purchase of Museum admission. The SmartHome is open for self-guided tours each Wednesday evening (hours vary; call the Museum at (216) 231-4600) for \$5 payable at the SmartHome door. No Museum admission is required. Children age 12 and younger admitted free with the purchase of an adult admission.

Major Sponsors: PNC; Anonymous; The Cleveland Foundation; The George B. Storer Foundation; Enterprise Community Partners; Tremco; GreenStreet Solutions; **Design Team:** Doty & Miller Architects; HarvestBuild Associates; CPK Construction; Panzica Construction; Knight & Stolar, Inc.; Comfort Systems USA;

Promotional Sponsors: *Cleveland Magazine, EcoWatch, The Plain Dealer, Time Warner Cable, WVIZ/WCPN ideastream*

New Look!

In this issue of *Tracks*, you'll find the newly redesigned *Program Guide*. This new guide includes all of the family, youth, preschool and adult programs and field trips offered by the Museum. It will be inserted in three of the six issues of *Tracks* published each year. This new guide was developed based on input from program participants, focus groups and member surveys. They asked us to simplify our *Classes & Field Trips* publication and send it along with the *Tracks* newsletter. We hope that you find the *Program Guide* attractive and easy to use. It includes a handy at-a-glance reference so you can quickly find programs of interest. Thank you for helping us better serve you. We welcome your comments and feedback. Feel free to contact us at info@cmnh.org.

CLIMATE CHANGE AND CORAL

The *Climate Change* exhibition explores the science behind the unprecedented issue of global climate change. The exhibition demonstrates how the Earth's four key areas of atmosphere, ice, oceans and land are affected.

Visitors can get a glimpse of a habitat that is threatened by changing temperatures all over the planet. The world's coral reef habitats support millions of species that could face extinction if ocean temperatures continue to rise.

"The rising temperatures in the world's oceans stress the polyps that form the core of coral reefs," said Wildlife Resources Director Harvey Webster. "In the last 10 to 15 years, there has been a 20 percent decline in the world's coral population."



The ocean is also acidifying. According to the American Museum of Natural History, about 30 percent of the CO₂ released by humans over the past 200 years has already been absorbed by the ocean. Ocean acidification is expected to make it harder for corals, plankton and other shell-forming organisms to grow shells.

In the exhibition, visitors will see a model showing the difference between a healthy coral reef and one that has been the victim of "coral bleaching," (see cover photo) as well as a live coral reef. The 180-gallon tank contains captive-propagated coral (not removed from the wild), starfish, fish, cleaner shrimp and other creatures. Mike and Danielle Meadows of The Coral Shoppe applied their expertise to create and maintain the exhibit. Some of the coral specimens are on loan from Museum trustee Tim Ryan. You can see a preview of the coral reef exhibit on the Museum's YouTube channel at www.youtube.com/theCMNH.

SPECIAL PROGRAMMING

The Museum has created a diverse lineup of programs to coincide with the exhibition. Offerings include adult programs, family programs, public forums, lectures, school programs and teacher workshops. Join us for these unique opportunities to learn how you can make a difference. To find out about these special programs, visit www.cmnh.org/site/ccprograms.aspx.

Simple & Sustainable

Check in weekly to get tips on living green . . . simply. The Museum's new blog, Simple & Sustainable, provides practical information and resources that you can use in your home and garden every day.

Climate Change will be on display through December 31, 2011

Climate Change is organized by the American Museum of Natural History, New York (www.amnh.org), in collaboration with The Cleveland Museum of Natural History; the Abu Dhabi Authority for Culture & Heritage, United Arab Emirates; The Field Museum, Chicago; Instituto Sangari, São Paulo, Brazil; Junta de Castilla y León, Spain; Korea Green Foundation, Seoul; Natural History Museum of Denmark, Copenhagen; Papalote Museo del Niño, Mexico City, Mexico; and Saint Louis Science Center.

Supporting sponsor: The George Gund Foundation; Participating sponsors: Change Happens Foundation, The Nature Conservancy in Ohio; Promotional sponsors: Cleveland Magazine, Cuyahoga County Public Library, EcoWatch, The Plain Dealer, Time Warner Cable, WKSU, WVIZ/WCPN ideastream.



PHOTOGRAPHY EXHIBITION CAPTURES BEAUTY OF POLAR WILDLIFE

Polar *Obsession*, a photography exhibition featuring images of the world's polar regions from the lens of National Geographic Photojournalist Paul Nicklen, will open in Fawick Gallery October 8. The compelling images will take visitors underwater and across the ice, delivering a unique close-up view of wildlife in the Arctic and Antarctic.

Nicklen, who regards himself as an ambassador for polar life, grew up in a small Inuit community in the Canadian Arctic. From an early age, he learned how to survive in the frozen terrain and developed a passion for the wildlife around him. Today his expeditions take him to the ends of the Earth in pursuit of rare, close-up photographs of polar species, their intriguing ways and their environs. Constantly honing his understanding of wildlife behavior in order to approach the animals in their most intimate natural settings, he uses photography to dispel myths, reveal rarely seen behaviors and intensify the world's interest in the entire polar ecosystem.



©2011 Paul Nicklen/National Geographic

The exhibition is drawn from Nicklen's book *Polar Obsession*, published in 2009, which showcases important insights into animal behavior, the fragile polar environment and climate change that threatens the ice and its inhabitants.

Polar Obsession features nearly 60 of the 150 images included in the book. From huge elephant seals, leopard seals, whales, walruses, narwhals and polar bears to penguins, albatrosses, petrels, arctic cod and tiny krill, Nicklen, an underwater photography specialist, captures the beauty of a wide variety of polar animals, large and small, and the icy paradise in which they live.

"The polar regions are disappearing quickly, and I want my photo essays to stand as a reminder of what is at stake. It is my mission to bring the rare, remote and threatened to caring people who can enjoy and help protect these lands and creatures," Nicklen wrote in his book introduction.

***Polar Obsession* will be on display through January 22, 2012.**

CURATORS LEND EXPERTISE TO DISTANCE LEARNING PROGRAMS

One of the reasons why the Museum's distance learning programs are so popular with schoolteachers is that these interactive programs offer the most current information available from experts on the Museum's staff. Students get to share in the excitement of scientific discovery and speak directly with specialists actively involved in research.

This fall, a new series of "Experts in the Field" distance learning classes will be launched that will be instructed by the Museum's curators and other specialists from the Collections and Research Division, in addition to staff educators. These classes will cover a variety of science and health topics.

The "Experts in the Field" distance learning programs will be tailored to fit each audience, from kindergarten classes through senior citizens' facilities. Because they are offered via videoconferencing, instructors can reach students of all ages anywhere in the world.



Dr. Michael Ryan, Paleontologist

"The curators are experts, and people like to hear from experts," said Dr. Joe Hannibal, curator of invertebrate paleontology and a program instructor. "Participating in these kinds of classes presents a special challenge. It requires the same amount of preparation as talking to an in-person audience. But you have to pay attention to the monitors to gauge the responses and mood of the distant audience. It really is an art."

Topics include: hunting for dinosaurs; the art and science of the casting lab; DNA sequencing in birds; extreme arthropods; rock and mineral identification; prehistoric Ohio Indians; flint-knapping techniques; forensic facial reconstruction; natural history of the flu; and many others.

Each 40-minute class costs \$120. The "Experts in the Field" programs can be scheduled through the Education Division at (216) 231-4600, ext. 3272.

STUDENTS GAIN HANDS-ON EXPERIENCE

A group of college students spent part of their summer out in the field and in the labs of the Museum. The Donald S. Dean Adopt-A-Student program, sponsored by the Kirtlandia Society, a Museum associated society, offers students an opportunity to gain real-world experience in scientific fields. Students work under the guidance of a Museum advisor for eight weeks to complete research projects that involve field work and the Museum's collections.

Students presented the results of their projects at the Kirtlandia Society's August meeting. Following are details about this year's class and their projects. Visit www.cmnh.org to learn more about the Adopt-A-Student program.

Sarah Kelly

Department: Archaeology; **Adviser:** Ann DuFresne; **School:** Hiram College; **Project:** Gathering data for the Koehler petroglyph photograph collection to find out if any of the sites are as yet unknown to science; **Best Experience:** Meeting all the interesting people I work with at the Museum

Lauren Nicholson

Department: Astronomy; **Adviser:** Jason Davis; **School:** Case Western Reserve University; **Project:** Presenting 100 planetarium programs, creating my own planetarium show, which will premiere later this year, assisting with the planetarium show that will accompany the *Climate Change* exhibit, creating new seating lights that will save 3.5 hours of bulb life every week, and re-introducing the pre-show quiz; **Best Experience:** Presenting public planetarium shows

Dawn DeColibus

Department: Botany; **Adviser:** Dr. Jim Bissell; **School:** Ohio Northern University; **Project:** Studying plants of glacial slumps and any disappearances since its last site study ranging up to 20 years; **Best Experience:** The Museum staff and all the education

Levi Humes

Department: Botany; **Adviser:** Dr. Jim Bissell; **School:** Youngstown State University; **Project:** Studying plants of glacial slumps; **Best Experience:** Rappelling off cliffs in search of rare plants



Pictured are Adopt-A-Students outside PNC SmartHome Cleveland (front, from left) Levi Humes, Emily Weatherhead, Jeffery Cronin; (center, from left) (bottom) Karen Bascom (Summer on the Cuyahoga intern); (above) Adam Sauerland, Sarah Kelly, Matt Clemens; (top, from left) Julia Yeakley and Judith Mendelsohn.

Julia Yeakley

Department: Invertebrate Paleontology; **Adviser:** Dr. Joe Hannibal; **School:** Kent State University; **Project:** Investigating stone used for historic Western Reserve millstones; **Best Experience:** Working hands-on in the field and teaching the younger Future Connections students about my project

Judith Mendelsohn

Department: Physical Anthropology; **Adviser:** Dr. Yohannes Haile-Selassie; **School:** Bryn Mawr College; **Project:** Studying five fossil ribs from a 3.6-million-year-old hominid discovered in Ethiopia and using the Hamann-Todd bone collection to compare them to modern human and ape ribs; **Best Experience:** The behind-the-scenes tour at the Museum

Matt Clemens

Department: Vertebrate Paleontology; **Adviser:** Dr. Michael Ryan; **School:** Case Western Reserve University; **Project:** Continued excavation of a Centrosaurus bone bed in the Late Cretaceous Old Man Formation for the 2011 field season of the Southern Alberta Dinosaur Project; **Best Experience:** The opportunity to continue field work in Southern Alberta

Adam Sauerland

Department: Vertebrate Zoology; **Adviser:** Dr. Tim Matson; **School:** Miami University of Ohio; **Project:** Capturing and identifying native amphibians, reptiles and mudpuppies and using GPS to map their location; **Best Experience:** Turtle trapping in the Ashtabula River and finding multiple snapping turtles even though our objective was to find soft shell turtles

Jeffery Cronin

Department: Vertebrate Zoology; **Adviser:** Dr. Tim Matson; **School:** Ohio University; **Project:** Looking at the mortality of mudpuppies due to lampricide; **Best Experience:** Learning how to apply the data collected in the field to a specific concept, and the procedures for collecting data has been very helpful

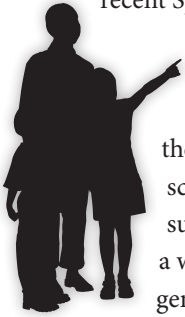
Emily Weatherhead

Department: Wildlife Resources; **Adviser:** Harvey Webster; **School:** Hobart and William Smith Colleges; **Project:** Creating an outdoor habitat/enrichment cage for the Museum's Loggerhead Shrike, Lindsey, and a new and different enrichment area for the Museum's education wildlife; **Best Experience:** Learning how to take care of the outdoor animals, especially Huxley, the red fox, and being able to help feed the otters

In addition to Adopt-A-Students, Museum staff worked with numerous college and high school interns throughout the summer. Future Connections, a University Circle program, provides the Museum with high school students for four weeks before the students spend another four weeks at area businesses. Future Connections students were **Austin Angelotti** and **Rebecca Bartko** of Brush High School, **Cameron Herring** of Cleveland Heights-University Heights High School and **Harvey Lewis** of Maple Heights High School.

MILLION DOLLAR ANNUAL FUND GOAL ACHIEVED

Thank you to all of the donors, members and other friends who contributed to the 2010-2011 Annual Fund Campaign. Last year, the Museum set an aggressive goal of \$1 million, and because of the generosity of the 90th Anniversary Leadership Campaign donors (fall 2010) and the recent Spring Annual Fund Campaign donors, the Annual Fund reached a total of \$1,072,835 by the June 30, 2011, budget deadline. Your gifts are the critical support that underwrites the outstanding exhibits, educational programs, science/research projects and conservation/sustainability efforts that make the Museum a world-class institution. Thank you for your generous commitment to the Museum's mission.



Thank You



MUSEUM WELCOMES NEW DOCENTS



Docent Eddie Herdendorf shares his knowledge of mastodons with visitors during a members' behind-the-scenes event.

A new class of docents and junior docents recently completed their training. Seven adult docents attended a rigorous set of classes taught by the Education staff to prepare them to work with visitors and staff within the Museum as well as during special events. The docents were quizzed on each class and completed their training with a final exam that involved taking their coordinator on a tour of the Museum's main floor galleries.

Junior docent classes, for students ages 14 through 18, allow young people to begin volunteering at the Museum. Twelve junior docents attended 10 Saturday classes taught by Museum educators. Students were given quizzes each week that utilized their creative thinking and team-building skills. They also created projects that they can share with visitors in one of the Museum's galleries.

The new docents will continue to learn by attending meetings to update them on curators' research, new exhibitions or information from an outside presenter.

Docents that completed the fall 2010 training were:

Kathleen Hale, Niki Houghton, Pam Gibbon, Lorraine Nepsa, Nick Pruchinsky, Becky Robinson and Nathan Smith.

Students that completed the junior docent course this past spring were:

Natalie Andras, Megan Craig, Kyra Hall, Kathryn Hermanowski, Ian Hlavac, Ellen Latsko, Jimmy Nagy, Aaron Paley, Mason Radford, Brian Ritchken, Daria Suzdalnitskaya and Cameron Taylor.

Visitors can look for these friendly and helpful volunteers in the Museum's galleries on weekends and during special events.

For more information about the Museum's docent program or to request an application, contact Nancy Howell, docent coordinator, at (216) 231-4600, ext. 3225 or nhowell@cmnh.org.

ACKNOWLEDGMENTS

The Museum gratefully acknowledges the following gifts and grants made from **May 7, 2011 through June 30, 2011.**

Grants to the Annual Fund were received from the **Bicknell Fund** (\$7,500) and **The Women's Committee** (\$7,000). **The Women's Committee** also continued its sponsorship of the Explorer Series with a gift of \$27,500 for 2011-2012.

The **Grimm Family Foundation** granted \$9,000 for the Annual Fund, \$3,000 to support the Cooper's Hawk in Perkins Wildlife Center and \$8,000 to help protect land at Geneva Swamp.

The **Pysht Fund** supported a Summer on the Cuyahoga intern in the Department of Vertebrate Zoology with a grant of \$4,200.

The **U.S. Fish and Wildlife Service** is contributing \$61,250 for the protection of Geneva Swamp through its Great Lakes Restoration Initiative.

Students in the Cleveland Metropolitan School District will benefit from free in-house instruction during the 2011-2012 school year thanks to a \$5,000 grant from the **United Black Fund of Greater Cleveland**. Students in the Parma and Brooklyn school systems will have access to free Health on Wheels programming through a \$9,800 grant from the **Parma Hospital Health Care Foundation**.

The **Holden Parks Trust** awarded a grant of \$3,000 to help bring the Cool Globes exhibit to the Museum and University Circle.

A \$25,000 grant from **PNC's Grow Up Great** program is supporting the *Little Builders* exhibition, the Tiny Trekkers early childhood program and new kinetic artwork in the Smead Discovery Center and Cyrus Eaton Early Learning Center.

A \$1,500 sponsorship gift was received from **Hawken School** for *Little Builders*.

Enterprise Community Partners, Inc. is supporting PNC SmartHome Cleveland with a grant of \$34,000.

ArcelorMittal is supporting the Nature in the City program with a grant of \$5,200. Nature in the City is a program designed by the Museum to introduce children growing up in city to the

natural diversity that thrives in their urban world.

A grant of \$7,000 from the **Doll Family Foundation** will enable the GreenCityBlueLake Institute to design, publish and distribute its climate transition plans in a reader-friendly format to educate Northeast Ohio residents and businesses on climate change and accelerate the adoption of climate friendly activities and development of low-carbon products and services.

The Garden Club of Cleveland contributed \$1,250 for the Woods Garden, and the **Shaker Lakes Garden Club** is supporting an intern in the Natural Areas Division with a grant of \$1,000.

The **Audubon Society of Greater Cleveland** contributed \$1,200 to the Science Resource Center.

The following individuals generously contributed \$1,500 or more to the Museum's Annual Fund and/or to a designated fund and therefore have been named to **The Linnaean Society**.

Linnaean Kingdom (\$10,000 and above)

David Ford
Jon and Aimee Grimm
Richard and Susan Grimm
Joseph and Marla Shafran
Nathaniel and Mary Smith
Howard and Cara Stirn
Frederick and Betsy Stueber

Linnaean Phylum (\$7,500-\$9,999)

James and Mary Bright

Linnaean Class (\$5,000-\$7,499)

Anonymous (2)
Amos and Samantha Crowley
Michael and Catherine Gallagher
Scott and Josephine Inkley
George and Susan Klein
Peter J. Krembs
Thomas and Kathleen Leiden
Helen Moise
Ronald and Kathleen Vranich
Dickson and Ann Whitney

Linnaean Order (\$2,500-\$4,999)

David and Robyn Barrie
Hamilton and Lillian Emmons
Richard and Mary Fratianna
R. Douglas and Laurie McCreery
Dickson Whitney

Linnaean Family (\$1,500-\$2,499)

Anonymous (1)
Theodore and Jean Castele
H. William and Diane Christ
Molly Dixon and Jerry Murphy
Dr. and Mrs. Morris S. Dixon, Jr.
Mrs. Judith C. Murch
Lawrence and Sally Sears
Greg and Joyce Studen
Betty Weiss
Michael and Carol Weiss

The following organizations generously contributed \$1,000 or more to the Museum's Annual Fund and/or to a designated fund and therefore have been named to **The Corporate Partners Program**.

Corporate Eagle (\$50,000 and above)

PNC

Corporate Heron (\$10,000-\$24,999)

COSE
Green Street Solutions
The Lincoln Electric Foundation
The Tremco Foundation
Vectren Retail LLC

Corporate Fellow (\$5,000-\$9,999)

ArcelorMittal
Gallagher Benefit Services, Inc.
The Leiden Cabinet Company
The Lube Stop, Inc.
The Sherwin-Williams Company

Corporate Benefactor (\$2,500-\$4,999)

Mike N. Cirino & Son Landscaping, Inc.
Smith & Oby Company

Corporate Patron (\$1,500-\$2,499)

Archaeological Networks, Inc.
NACCO Industries, Inc.

Corporate Contributor (\$1,000-\$1,499)

Hermann, Cahn & Schneider

The Museum has made every effort to include all appropriate names. If you are aware of any gifts not honored, please contact Jeffrey Gueulette, Director of Annual Giving, at (216) 231-4600, ext. 3287.

The Museum gratefully acknowledges the citizens of Cuyahoga County for their support through Cuyahoga Arts and Culture.

GROW YOUR GARDEN

Tunnel Vision Hoops are now available in the Museum Store! Help make Northeast Ohio a hotbed of urban agriculture by extending your gardening season. Purchase a 10 x 12-foot Backyard Hoop House (with or without Rainwater Harvest System). This size was designed exclusively for the Museum Store and is perfect for most backyards. Ten percent of the sales of these all-weather retractable domes through October 2012 will benefit the Museum. The basic kit starts at \$1,230, and multiple options are available for installation. Stop in the Museum Store to see our scale model and to find out more.



museum STORE

Hours: Monday through Saturday, 10 am to 5 pm; Wednesday, 10 am to 10 pm; and Sunday, noon to 5 pm. Or shop online anytime at www.cmnh.org.



The Museum's Women's Committee invites you to join them Saturday, October 1 for a benefit party. *Sapphire Nights: A Celebration of Gems, Geodes and Jewels* will showcase the Museum's gem hall and include a premiere viewing of the Museum's Ceylonese sapphires from the Crawford estate.

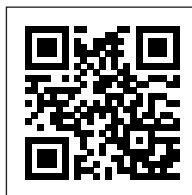
Guests can enjoy cocktails and hors d'oeuvres, a sit-down dinner catered by fire and dancing to the band Abby Normal & The Detroit Lean. Partygoers can tour the Jephtha Homer Wade II Gallery of Gems and Jewels, see the Crawford sapphires and meet Curator of Mineralogy Dr. David Saja.

A unique selection of silent auction items will also be available for bidding along with a raffle for an oval blue sapphire and diamond ring donated by Alson Jewelers. The event starts at 6:30 pm. Guests can opt to attend a 9:30 pm Blue after party, which is offered at a lower ticket price. The Blue party features music, cocktails and light hors d'oeuvres. Attire for the event is cocktail chic.



Proceeds from the benefit will support Museum educational programs, including the new Young Women in Science program and the Explorer Series, which has been supported by Women's Committee underwriting since the 1970s.

Don't miss out on the fun! Reserve tickets by September 19.



Ticket prices: \$125, \$250, \$500, \$1,000. Blue Party tickets: \$35 or \$40 at the door. (Portions of the prices are tax deductible.)

To reserve tickets, visit www.cmnh.org or call (216) 231-4600, ext. 3514.

MUSEUM LECTURES AND EVENTS

BE CURIOUS

EXPLORER SERIES 2011-2012

Join us for an exciting 2011-2012 season of the *Explorer Series*. Each evening begins at 5:30 pm with live music, Museum exhibitions and galleries, shopping and raffle sign up in the Museum Store, and food and beverages for purchase in The Blue Planet café and Museum lobby. All presentations begin at 7:30 pm in Murch Auditorium. Following each program, there will be time for questions and answers. Afterward, select speakers will sign their books and, on clear nights, the Ralph Mueller Observatory will be open.

Global, National and Regional Effects of Climate Change on Plants and Animals

Dr. David Karowe, Professor of Biological Sciences, Western Michigan University
Friday, September 16, 7:30 pm

Co-sponsored by The Native Plant Society of Northeastern Ohio

Global climate change is likely to be the most serious environmental challenge in human history, with profound implications for ecosystems worldwide. Plants and animals have already responded to climate change by altering the timing of events like flowering and migration, and by expanding their geographic ranges poleward and to higher altitudes. This talk will focus on the consensus projections and the predicted consequences for plants and animals around the world, in the United States, and in Ohio. The talk will conclude with a brief discussion of some promising solutions, including solar and wind power, and altered personal behaviors. *This program is offered in conjunction with the Climate Change exhibition.*



with profound implications for ecosystems worldwide. Plants and animals have already responded to climate change by

Seeing Climate, Seeing Change

Dr. Heidi Cullen, Director of Communications, Climate Central, and Visiting Lecturer, Princeton University

Friday, September 23, 7:30 pm

Co-sponsored by Ride for Miles

If seeing is believing, then how do you show people this phenomenon called climate change? And how do you prove



that recent extreme events may be partially a result of global warming? This talk will explore the difficulties of communicating the science of

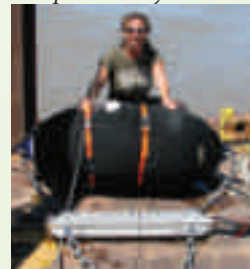
climate change and look at the current state of public perception. Beginning with a brief history lesson, this talk will provide an overview of past, present and future climate change. This talk will also reflect on the need to improve our ability to visualize climate change as well as provide examples of the energy infrastructure changes we need to solve the problem of global warming. *Book signing to follow. This program is offered in conjunction with the Climate Change exhibition.*

The New Madrid Earthquakes Two Hundred Years Later: What Have We Learned about Earthquakes at the Center of Tectonic Plates?

Dr. M. Beatrice Magnani, Research Associate Professor, Center for Earthquake Research and Information, The University of Memphis

Friday, October 14, 7:30 pm

Co-sponsored by the International Research



Institutions for Seismology (IRIS)
Most of the seismicity on our planet occurs at plate boundaries. By contrast, the interiors of continents are

mostly stable. The New Madrid Seismic Zone (NMSZ), located in the heart of the North American continent is a notorious exception. The NMSZ has generated large magnitude earthquakes ($M > 7.0$). Dr. Magnani will present the existing data, the models proposed to reconcile them and the implications for seismic hazard in the central United States. She will highlight a new study along the Mississippi River suggesting that the NMSZ is not the only fault system that has been active in this region. *This program is offered in conjunction with Earth Science Week.*

For the complete *Explorer Series* schedule, visit www.cmnh.org.

Tickets: Member adults \$8; member students and seniors \$7; nonmember adults \$10; nonmember students and seniors \$9. For tickets, call (216) 231-1177 or visit www.cmnh.org.



The *Explorer Series* is generously supported by the Museum's Women's Committee. This season's promotional sponsors are *Cleveland Magazine*, Cuyahoga County Public Library and WVIZ/WCPN ideastream.

For tickets or reservations for Museum events, call (216) 231-1177 or 800-317-9155, ext. 3279, or purchase online at www.cmnh.org.

CLEVELAND ARCHAEOLOGICAL SOCIETY LECTURE SERIES

The Cleveland Archaeological Society, a local society of the Archaeological Institute of America, holds its annual lecture series in Murch Auditorium. Each lecture is followed by a reception. **Free and open to the public.**

The Archaeological Exploration of Sikyon: A Comprehensive Approach to the Study of a Greek City-State

Dr. Yannis Lolos,
University of Thessaly, Greece
Wednesday, September 14, 7:30 pm
Sikyon, an ancient Greek city in the northern Peloponnes, was famous for its artistic excellence. Early excavations of Sikyonian soil were aimed at recovering works of art. In the late 19th century and during the first half of the 20th century, the focus was on the discovery of major architectural monuments. The extensive regional survey and urban survey conducted under the direction of Dr. Lolos over the last 15 years documents the human presence and activity in the city-state from the earliest times to the modern era.

The Search for Caribou Hunters Beneath Lake Huron: The Archaeology of an Ancient Submerged Landscape

Dr. John M. O'Shea,
University of Michigan
Wednesday, October 12, 7:30 pm
Nine thousand years ago, a dry land corridor connected northern lower Michigan with southern Ontario and split the modern Lake Huron basin into two distinct lakes. This corridor provided a natural causeway for the semi-annual migration of caribou and a valuable terrain for Late Paleo-Indian and Early Archaic hunters seeking to exploit the herds. This talk will describe results of a search to investigate this ancient landscape, including the first direct examination and mapping of the submerged features by SCUBA trained archaeologists.

BE OUR GUEST KIRTLANDIA SOCIETY PROGRAMS

Saturdays, 9:30 am coffee and conversation; 10 am program
Rare Book Room – Free and open to the public

September 10 – David Beach,
Director of the
GreenCityBlueLake Institute
The Fantastic PNC SmartHome
Cleveland: The Passive House as
the Next Big Thing in Residential
Green Building

October 8 – Harvey Webster,
Director of Wildlife Resources
The Cleveland Museum of Natural
History: Natural History,
Natural Present, Natural Future



FRONTIERS OF ASTRONOMY

This free lecture series offers those with an interest in astronomy the chance to learn about the latest research in the field. Lectures are held in Murch Auditorium at 8 pm. **No tickets or reservations are required.** On clear nights, the Ralph Mueller Observatory will be open afterward. Check the Museum's Web site for lecture descriptions.

Lecture dates:

October 20, November 17,
December 8, March 8, April 12

Frontiers of Astronomy is sponsored by the Department of Astronomy at Case Western Reserve University through the support of the Arthur S. Holden, Sr. Endowment; The Cleveland Museum of Natural History; and The Cleveland Astronomical Society.

SPECIAL EVENTS



Co-sponsored by Ohio Wine Producers Association

Explore Northern Ohio's wild beauty and its local wineries through these unique wine tours. Each date offers a naturalist-led hike on a Museum preserve followed by a wine-tasting opportunity at a local winery. Natural areas tours will start at 10 am and end around noon. Afterward, participants will travel to the designated winery for a light lunch and wine tasting. Space is limited. **Cost: \$35 per person per trip.**

Tour dates and locations

September 24 - Groves Woods/LaLeure Winery (Parkman, OH)

October 15 - Cathedral Woods/Buccia Vineyards (North Kingsville, OH)

OWLS AND HOWLS CHILDREN'S HALLOWEEN PARTY

Saturday, October 15, 11 am to 4 pm
(See page 16 for details.)

TROUT CLUB DINNER

Wednesday, October 19, 6 pm

The Trout Club kicks off its season with cocktails, dinner and speaker Lefty Kreh. Bernard "Lefty" Kreh is retired outdoor editor of *The Baltimore Sun*, one of the most prolific authors in the fly fishing world, winner of numerous outdoor awards and creator of the famous Lefty's Deceiver fly pattern. Contact Karen Menn at (216) 231-4600, ext. 3278 or kmenn@cmnh.org for more information and to register.

MUSEUM EVENTS AND PROGRAMS

AUDUBON SOCIETY OF GREATER CLEVELAND

Free Program Series

The Biodiversity of Ecuador
Tim Krynak, Cleveland
Metroparks and Las
Gralarias Foundation
Wednesday, October 12, 7 pm
Classroom A

The cloud forest region on the west slope of the Andes Mountains hosts a staggering diversity of living things. Join Tim Krynak in an illustrated lecture as he shares his experiences with everything from birds to insects, orchids to tree ferns, as well as the new discoveries by students from all over the world. He will discuss his involvement in protecting this special region, declared one of the 10 critical global hot spots for conservation.

ARCHAEOLOGY DAY AND EARTH SCIENCE DAY

Free with Museum admission.

Saturday, October 22,
10 am to 4 pm

(See the back cover of the *Program Guide* for details.)



BONES, BUGS AND DEAD ANIMALS: THE NATURE LEAGUES' 15TH ANNUAL HALLOWEEN PARTY

Saturday, October 29,
8 pm to midnight

Join the Nature League for this annual bash. The event boasts one of the best costume contests in Cleveland and features live music from "Abby Normal," food and dessert buffets, and a \$3 bar. Admission includes one free drink ticket. Prizes will be awarded to the best costumes in the categories of Best of Show, Best Ensemble, Scariest and People's Choice. **Tickets: Nature League members: \$25; nonmembers: \$30; \$35 at the door. Ages 21 and over only.**

MUSEUM PROGRAMS

IN THE SHAFRAN PLANETARIUM

Be amazed at our live shows in the new and improved Nathan and Fanny Shafran Planetarium. Sky shows in the Museum's 87-seat planetarium bring the wonders of the universe down to Earth. To guarantee seating, please arrive 20 minutes before show time to claim your tickets with your confirmation number. Unclaimed tickets will be released for purchase on a first-come, first-served basis 10 minutes before show time. **Tickets: Members: Free; nonmembers: \$4 per person with Museum admission.**

You're Getting Warmer. . . Warmer

There's been talk lately that climate change might be the result of solar variability or maybe slow variations in the Earth's orbit such as those that produced the Ice Ages of the past. Find out how these cannot be the real driving forces behind recent global warming.

Monday through Friday, 2:30 pm;
Wednesday, 8 pm; Saturday, noon, 2
and 4 pm; Sunday 2 and 4 pm

Children's Program: We'll Have a Hot Time on Venus Tonight

How is it that Venus, which is millions of miles farther from the Sun than Mercury, has a surface temperature hundreds of degrees higher? We'll explore the greenhouse effect and imagine what it would be like on a planet where lead would melt. **Saturday, 11 am, 1 and 3 pm; Sunday, 1 and 3 pm** *On September 3 and October 1 "Star Babies" will be offered at 10:30 am. Star Babies gives children 4 and younger a gentle, 15-minute introduction to the planetarium and the wonders of the night sky.

IN THE MUELLER OBSERVATORY

View the night skies through our vintage, 10½ -inch Warner & Swasey telescope. Wednesday evenings, weather permitting, September through the end of May, 8:30 to 11 pm (arrive before 10 pm; dress for the weather). We'll view the Great Globular Cluster of Hercules, a gorgeous ball of a million stars, and observe the double star Albireo, reputed to be the most beautiful star, through a telescope.



SMEAD DISCOVERY CENTER

Monday through Saturday, 10 am to 4:30 pm; Wednesday, 10 am to 8 pm; Sunday, 1 to 4:30 pm. Free with Museum admission.

Visit the Smead Discovery Center for hands-on fun on the Museum's Lower Level. Visitors of all ages are welcome in this multigenerational space. We have concrete activities for tots and "brain buster" puzzles for teens and adults. Play a birdsong piano, touch real fossils, dig for a dinosaur, use a microscope and more!

Archaeology and Earth Science Day in the Smead Discovery Center

Saturday, October 22, 10 am to 4 pm (See the *Program Guide* for details.)

LIVE ANIMAL PROGRAMS

Wildlife Center staff and volunteers will introduce visitors to Northeast Ohio's wild creatures using live ambassadors from the Museum's animal teaching corps. Saturday and Sunday, 1 pm in Sears Hall of Human Ecology and 3 pm in the Ralph Perkins II Wildlife Center & Woods Garden. **Free with Museum admission.**

September and October: Creepy Creatures and Critters People Love to Hate

Many are the creatures that people find creepy—denizens of dark or underground places, critters that slither, slime, stink or spray, or those animals with more than four legs. Many of these animals seem scary to us because they inhabit worlds we don't understand, and we don't see how they function. Join us in an exploration of some of these creepy creatures and discover their true nature!

Special Stewardship Saturday at Mentor Marsh

September 17: 9 am to noon

Help pick up litter along trails, creeks and areas around the Marsh as part of Ohio's Coastweeks Cleanup. Wear clothes that can get dirty, sturdy shoes and boots, and bring gloves. Snacks and water provided.

CAROL H. SWEET NATURE CENTER AT MENTOR MARSH

Mentor Marsh is an interpretive nature preserve of the Museum and the Ohio Division of Natural Areas and Preserves. It is located at 5185 Corduroy Road, Mentor. Trails are open daily, year-round, dawn to dusk. The Nature Center is open on Saturdays and Sundays from noon to 5 pm through October. **Family nature programs and guided hikes are offered from 2 to 3:30 pm every Sunday.** There is no charge, and all are welcome. Programs will be held in all but severe weather; so please come prepared for the conditions. Bring your own field guides and binoculars if you have them. Reservations are requested. To register or for more information, contact the Nature Center at: (440) 257-0777, by mail at 5185 Corduroy Rd., Mentor, OH 44060, or e-mail rdonalds@cmnh.org.



Rain Barrel Workshop

October 15: 10 am to noon

Drop in and make a rain barrel. Offered in partnership with Lake County Soil and Water Conservation District. Space is limited. Reserve yours early! Cost is \$55 per barrel. Call or e-mail to reserve a barrel.

Sundays

September 4: Monarch Madness

Celebrate one of nature's wonders—the great Monarch butterfly migration! Venture for a walk with Blackbrook Audubon's Mary Ann Wagner and become a citizen scientist by tagging monarchs as part of an international project tracking their migration.

September 11: Wonderful Wetlands!

Enjoy the late blooms in the Marsh, dip for aquatic insects and learn how they can predict water quality. We'll be at the water's edge, so dress accordingly.

September 18: Late Summer Blooms

Join a naturalist in identifying many of our plants as they make their last show for the season. Learn about plants that have outstanding fall color, fabulous flowers or vital food for wildlife.

September 25: Western Marsh/ Lake Shore Tour

Enjoy this hike along the western edge of the marsh and Lake Erie shoreline at the Mentor Lagoons. Meet at the Mentor Lagoons City Nature Preserve trailhead (8365 Harbor Dr.).

October 2: October 2: A Walk Through History

Was Mentor Headlands an island? Take an imaginary walk with a person who could have lived in what is now Mentor Headlands. Learn about what was in the letters, diaries and recorded memories of citizens here as seen through the eyes of our guest storyteller.

October 9: Fall Migratory Birding Extravaganza

We will discuss local and long-distance migratory patterns and species as we hike along the Marsh trails.

October 16: Fall Foliage Tour

Stroll through the upland forest and enjoy the beauty of the fall colors. Fall is a great time to get to know the trees, and this program is a fun way to get out and discover.

October 23: Autumnal Adaptations

Discover how nature prepares for winter in this program for children and fun-loving adults. Hike in the upland forest along the Zimmerman Trail to find out how plants and animals undergo seasonal changes to survive winter's cold.

October 30: Western Marsh/ Lake Shore Tour

Discover our coast, learn about life on the Lake Erie and the Mentor Marsh shores on this hike along the western edge of the marsh and Lake Erie shoreline at the Mentor Lagoons. Meet at the Mentor Lagoons City Nature Preserve trailhead (8365 Harbor Dr.).

September

2011

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Museum Hours

Monday through Saturday, 10 am to 5 pm; Wednesday, 10 am to 10 pm (Mueller Observatory open 8:30 to 11 pm through May, weather permitting; Sunday, noon to 5 pm

Museum Store Hours

Monday through Saturday, 10 am to 5 pm; Wednesday, 10 am to 10 pm; Sunday, noon to 5 pm

Harold Terry Clark Library

Monday through Friday, 10 am to 2:30 pm

The Museum's non-lending research library features books and periodicals on science topics. Library hours occasionally vary.

Target Free First Thursday, 1 pm

Adult Field Trip, Downtown Cleveland Rocks: Classic Cleveland Buildings and their Stones, 10 am;
Adult Field Trip, Hadlock Preserve, 10 am

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Mentor Marsh Program, Monarch Madness, 2 pm

Labor Day, MUSEUM CLOSED

PNC SmartHome Open House, 5 pm

Smead Discovery Center, The Science of Climate Change, 9:30 am;
Conservation Symposium, Workshops, 9:30 am; Field Trips, 1 pm; *Green Fire: Aldo Leopold and a Land Ethic for Our Time* movie screening, Capitol Theater, 7 pm

Conservation Symposium, Conservation and Climate Change: Strategies for the Future, 9 am

Adult Field Trip, Mermaids, Marble and Mesmerizing Cultural Geology, 9 am; **Conservation Symposium**, 9 am;
Great Lake Erie Boat Float!, Edgewater Park Beach, 10 am;
Youth Program, Super Science Saturday, *Snakes*, 10 am;
Kirtlandia Society, PNC SmartHome 10 am

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Mentor Marsh Program, Wonderful Wetlands!, 2 pm



PNC SmartHome Open House, 5 pm; **Guild of Nature Artists**, 7 pm;
Cleveland Archaeological Society, *The Archaeological Exploration of Sikyon: A Comprehensive Approach to the Study of a Greek City-state*, 7:30 pm

Conservation Symposium, Workshops, 9:30 am; Field Trips, 1 pm; *Green Fire: Aldo Leopold and a Land Ethic for Our Time* movie screening, Capitol Theater, 7 pm

Explorer Series, *Global, National and Regional Effects of Climate Change on Plants and Animals*, Dr. David Karowe, 7:30 pm

Mentor Marsh Program, Special Stewardship Saturday: Mentor Marsh Clean-up, 9 am
Adult Field Trip, Sand Barrens and Cathedral Woods, 10 am;
Adult Field Trip, Sparks Preserve, 10 am;
Family Program, Green Earth Jamboree, 10 am

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17

Ride for Miles, 10 am;
Adult Field Trip, Lake View Cemetery Geology Walking Tour - North, 2 pm;
Mentor Marsh Program, Late Summer Blooms, 2 pm

PNC SmartHome Cleveland Open House, 5 pm;
Cleveland Geological Society, 7:30 pm

Parent and Preschoolers, Tiny Trekkers, *Under the Stars*, 9:30 am, 11 am;
Adult Field Trip, Big Swamp, 10 am;
Explorer Series, *Seeing Climate, Seeing Change*, Dr. Heidi Cullen, 7:30 pm

Youth Program, Future Scientists: Fall Session, 9 am; **Parent and Preschoolers**, Tiny Trekkers, *Under the Stars*, 9:30 am, 11 am, 1 pm;
Adult Field Trip, Floyd, Armstrong Swamp and Kickel Preserves, 10 am;
Adult Field Trip, Natural Areas Wine Tour, *Groves Woods/Laleure Winery*, 10 am;
Micromineral Society, 1 pm

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Mentor Marsh Program, Western Marsh/Lake Shore Tour, 2 pm

Explorer Travel Club, Travel Preview Evening, 7 pm

PNC SmartHome Cleveland Open House, 5 pm;
Adult Program, Where Does the Water Go?, 6 pm;
Guild of Nature Artists, 7 pm

Adult Field Trip, Birding Cleveland Area Historic Cemeteries, 9 am

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Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday



Exhibits & Shows

Kahn Hall – *Climate Change*, through December 31
Fawick Gallery – *Little Builders*, through September 11; *Polar Obsession*, open October 8 through January 12, 2012
Lower Level Gallery – *Fieldwork: Soldiers, Sailors, and Stones*, through March 31, 2012
PNC SmartHome Cleveland – through October 7
Cool Globes – through September 11

For Visitor Information

Call (216) 231-4600 or 800-317-9155 or visit www.cmnh.org

Youth Program, Future Scientists: Fall Session, 9 am; **MUSEUM CLOSES** at 3 pm; **Women's Committee Benefit, Sapphire Nights**, 6:30 pm

1

Mentor Marsh Program, A Walk Through History, 2 pm

2

Adult Field Trip, Biking the Western Reserve Greenway, 10 am

3

READ! SOAR! EXPLORE!, *Arctic Showdown*, 4 pm; **PNC SmartHome Cleveland Open House**, 5 pm; **Origins Science Scholars Program**, The Future of Human Health, 6 pm; **Adult Program**, Waste Not and Recycle, 7 pm

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Target Free First Thursday, 1 pm

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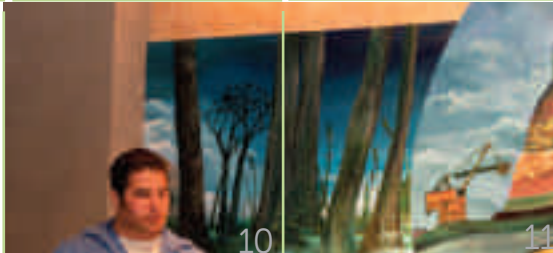
Youth Program, Future Scientists: Fall Session, 9 am; **Adult Field Trip**, Hubbard Preserve, 10 am; **Kirtlandia Society, CMNH**: Natural History, Natural Present, Natural Future, 10 am; **Adult Program**, Reduce Your Energy Bills this Winter, 1 pm

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Family Field Trip, The Nature Team: Nature Photography for Families, noon;
Red Dot Project SmartSale, noon;
Mentor Marsh Program, Fall Migratory Birding Extravaganza, 2 pm

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READ! SOAR! EXPLORE!, *Silly Penguins*, 4 pm; **Origins Science Scholars Program**, The Future of Energy, 6 pm; **Guild of Nature Artists**, 7 pm; **Audubon Society of Greater Cleveland**, 7 pm; **Cleveland Archaeological Society**, *The Search for Caribou Hunters Beneath Lake*

12

Huron, 7:30 pm
Adult Field Trip, Birding Historic Cape May, NJ, 8 am (thru 10/17)

13

Explorer Series, *The New Madrid Earthquakes Two Hundred Years Later*, Dr. M. Beatrice Magnani, 7:30 pm

14

Youth Program, Super Science Saturday, *Fruit and Vegetable Chemistry Lab*, 10 am; **Mentor Marsh Program**, Rain Barrell workshop, 10 am; **Adult Field Trip**, Natural Areas Wine Tour, *Cathedral Woods/ Buccia Vineyards*, 10 am; **Owls & Howls Kids' Halloween**

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Party, 11 am
Mentor Marsh Program, Fall Foliage Tour, 2 pm

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READ! SOAR! EXPLORE!, *Mystery Mammal*, 4 pm; **Origins Science Scholars Program**, The Future of the Planet, 6 pm; **Trout Club Dinner Meeting**, 6 pm; **Cleveland Geological Society**, 7:30 pm;

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Adult Field Trip, Haunted Hike at Wendtwood, 7 pm; **Frontiers of Astronomy**, 8 pm

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Parent and Preschoolers, Tiny Trekkers, *Near the Pond*, 9:30 am, 11 am

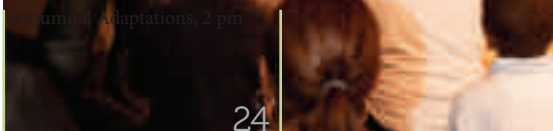
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Youth Program, Future Scientists: Fall Session, 9 am; **Parent and Preschoolers**, Tiny Trekkers, *Near the Pond*, 9:30 am, 11 am, 1 pm; **Archaeology and Earth Science Day**, 10 am; **Smead Discovery Center Program**, Archaeology Day and Earth Science Day, 10 am

22

Micromineral Society, 1 pm
Adult Field Trip, Natural Areas Fall Color Road Rallye, 9 am;
Mentor Marsh Program,

23



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READ! SOAR! EXPLORE!, *Game Play*, 4 pm; **Origins Science Scholars Program**, The Future of the Universe, 6 pm; **Adult Program**, Back to Basics: Climate Change, 7 pm; **Guild of Nature Artists**, 7 pm

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Adult Field Trip, Owl Banding on Kelleys Island, 4 pm (thru 10/29)

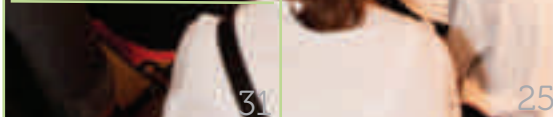
27

Youth Program, Fall Student Naturalists, 9 am; **Youth Program**, Science Olympiad: Basics of Tree ID; Middle and High School, 10 am; **Adult Program**, Audubon's Masterpiece and Fellow Book Rarities, 10 am; **Family Program**, Sustainable Practices for the Family, 10 am;

29

Mentor Marsh Program, Western Marsh/Lake Shore Tour, 2 pm

30



31

25

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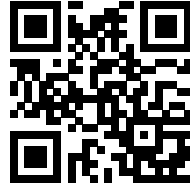
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Tracks

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Just for kids

MEET DR. SCOTT SAMPSON AND EARN A JR. PALEONTOLOGIST CERTIFICATE

Saturday, September 24

The Museum welcomes Dr. Scott Sampson from PBS Kids Dinosaur Train for this special meet-and-greet event. Learn about dinosaurs and participate in hands-on activities. Kids who complete all requirements can have their junior paleontologist certificate signed by Dr. Scott himself! Open to Museum members at 9 am and the general public at 10 am. The line closes at 1 pm; so don't be late!

Free with Museum admission.

OWLS & HOWLS CHILDREN'S HALLOWEEN PARTY

Saturday, October 15; 11 am to 4 pm

Treat yourself to a kid-friendly event celebrating animal enrichment combined with a Halloween party. Come in costume and help make pumpkin treats for the animals in the Perkins Wildlife Center & Woods Garden. Enjoy games, crafts and special animal demonstrations—all in a not-so-spooky setting. **Free with Museum admission.**

Children ages 12 and under in costume will be admitted free.

READ MORE! WITH THE MUSEUM STORE

On the second Sunday of each month, the Museum Store will present a fun, family friendly storytime. Each month a new theme and related activities will engage families and strengthen their understanding of natural history, science and the language arts. Join us at 12:30 or 2:30 pm for a 30-minute introduction to a great selection of books from which you can build a library that can turn an interest into a passion. No registration required. **Free with Museum admission.**



Owls & Howls

OUR MISSION

TO INSPIRE, THROUGH SCIENCE
AND EDUCATION, A PASSION
FOR NATURE, THE PROTECTION
OF NATURAL DIVERSITY,
THE FOSTERING OF HEALTH,
AND LEADERSHIP TO A
SUSTAINABLE FUTURE.