

Tracks

News from The Cleveland Museum of Natural History

Volume 37, Number 2



Making Faces



March/April

2009

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Cleveland Museum of
NATURAL HISTORY

Keeping Track with the Director

In early January, the exhibition *RACE: Are We So Different?* ended its three-month run at the Museum. I'm pleased to say its stay here was positive and productive.

This exhibition examined race and racism from scientific, historical and cultural perspectives. As we prepared for its arrival in 2008, we knew that it would differ from the traditional blockbusters of years past. It asked more of our visitors than previous exhibitions have, challenging them to consider the impact of race and racism in their own lives.

Recognizing *RACE*'s powerful messages, we decided to make it the catalyst for broader community discussions. To assist in this endeavor, we hired Kathryn Hall as resource specialist for the exhibition.

Kathryn sought sponsorships from and partnerships with area organizations and businesses to create programming and events here that explored and celebrated racial diversity. These included a town hall meeting series, professional development

series, teacher workshops, community health fair, youth summit and conferences, and networking events for urban professionals. In addition, organizations were invited to develop complementary programming at their own facilities. More than 30 did so.

In the end, 80,000 people visited the Museum to see the exhibition. More than 6,400 people participated in the programs we created on-site. These included 1,666 middle and high school students who participated in educational programming. More than 1,400 students from middle school to college age visited to take self-conducted tours of the exhibition. And more than 400 adults toured the exhibition with a Museum docent or educator.

The Museum's efforts as a host venue for the exhibition did not go unnoticed. A contingent from the Smithsonian Institution, where the exhibition will travel in 2010, visited to learn about what we had done. A staffer at the Science Museum of Minnesota, which developed the exhibition along with the American Anthropological Association,

remarked that we had "set the standard" for its presentation and programming.

Though *RACE* has come down, it won't be forgotten. It's our hope that the ideas that it brought to the fore — that race is a human invention without scientific basis but with very real social and cultural ramifications — have lasting effect on the people who absorbed them. Additionally, we intend to continue working with the organizations we partnered with during the course of the exhibition and reaching out to new audiences within the community.

As a final note, I want to draw your attention to the debut of the Wellness@Work awards program, which is detailed below.

Our sincere congratulations to Sterling Jewelers, the overall winner, and all the other awardees.

Bonnie Cummings

Bonnie Cummings
Interim Executive Director
Chief Operating Officer

Healthy praise for workplace wellness

The first Wellness@Work awards were presented to the top companies working to foster employee health and wellness and environmental responsibility.

On February 12, the Museum presented the first Wellness@Work awards at a reception at the InterContinental Hotel Cleveland. This awards program honors companies that encourage employee health and wellness and environmental responsibility through corporate wellness programs.

"The Museum is working for better health in our communities, our ecosystems and, indeed, for our entire planet," explains Dr. Linda Spurlock, Museum director of human health and an adviser to the awards program. "Wellness programs in the workplace are in harmony with this mission."

Companies submitted detailed information about their employee wellness programs and sustainable workplace practices. These applications

were reviewed by a panel of judges with extensive experience in health, wellness and sustainability fields. A grand prize winner was selected for overall excellence, as were first-, second- and third-place winners in each of four categories determined by company size.

Overall, the candidates impressed the judging and advisory committees. "Northern Ohio's companies have been doing a wonderful job in creating wellness programs for their employees and in working for a healthier environment," Spurlock says. Applications for the 2010 Wellness@Work awards will be available at www.cmnh.org/site/WAW.aspx starting July 1.

Our thanks to Cleveland Clinic for its generous sponsorship of this year's Wellness@Work awards reception.



Congratulations to this year's winners:

Grand Prize

Sterling Jewelers

1 to 100 Employees

1st place: The Cleveland Foundation

2nd: Donley's, Inc.

3rd: The Chelko Consulting Group, LLC

101 to 250 Employees

1st place: Main Street Gourmet

2nd: The James B. Oswald Co.

3rd: Preformed Line Products Co.

251 to 1,000 Employees

1st place: Eaton Corp.

2nd: Cleveland Metroparks

3rd: Cleveland Indians Baseball Co., LP

More than 1,000 Employees

1st place: AmTrust Bank

2nd: Cuyahoga Community College

3rd: Ben Venue Laboratories, Inc.

Exercise your brain

The Kahn Hall exhibition **Brain Teasers 2** lets visitors test their problem-solving skills.

Brain teasers are a healthy challenge at any age. In younger people, they can help build problem-solving skills that have lifelong usefulness, particularly for science-related careers. In older people, they may offer a way to slow age-related cognitive decline.

The new exhibition **Brain Teasers 2** gives visitors the opportunity to exercise their creative thinking and problem-solving strategies as they attempt to solve 20 hands-on brain teasers. These puzzles include unraveling mathematical conundrums, separating linked objects and then reassembling them, and arranging geometric shapes to form new ones.

Brain Teasers 2 is suitable for all ages. While visitors can tackle the puzzles on display individually, the exhibition also encourages families to team up to solve them. **Brain Teasers 2** will be on display in Kahn Hall through May 3.

Try these brain teasers!

(Visit the **Brain Teasers 2** page on www.cmnh.org for the solutions)

Five-Minute Timer

If you have a three-minute sand timer and a four-minute sand timer, how can you measure five minutes?

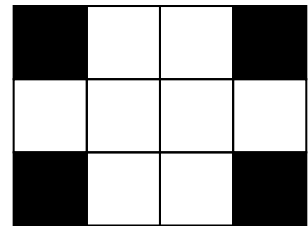
Clock

Draw two straight lines across a clock face so that the numbers in each part add up to the same amount.



Disorder

Place the numbers 1 through 8 on the grid so that no two consecutive numbers touch. Then arrange the numbers so that the sum of the numbers in each row is the same.



Making Tracks

New docent class graduates

Congratulations to our new Museum docents, who completed all of their training requirements and made their official debut this year. You'll encounter them assisting with special events and staffing the "please touch" carts in the galleries on weekends and other busy days. They are: Christa Jo Abood, Patricia Cleary, Marcia Favalaro, Machel Gay, Indira Sen, Carol Steiner, Symmetry, Holly Wingert.

Searching for former Adopt-A-Students

The Kirtlandia Society would like to invite all past participants in its Adopt-A-Student program to a celebration of the program's 30th anniversary. If you have contact information for anyone who took part in the program during the past 30 years, please contact Ann DuFresne at adufresn@cmnh.org or (216) 231-4600, ext. 3243.

Attention Museum volunteers

Save Tuesday, May 19, from 5 to 9 pm for this year's Volunteer Appreciation Night.

Nominate an environmental hero

Nominate an individual or organization doing great things for the environment for the Northeast Ohio Environmental Awards. Each year, Dominion and Biodiversity Alliance recognize organizations, schools and individuals who have demonstrated a commitment to environmental excellence and leadership in our region. Award recipients are honored at an October awards ceremony and receive \$2,500 and a framed print from the Museum's Herbarium Collection. Information and nomination materials are available at www.biodiversityalliance.org and www.dom.com. The nomination deadline is June 30, 2009.

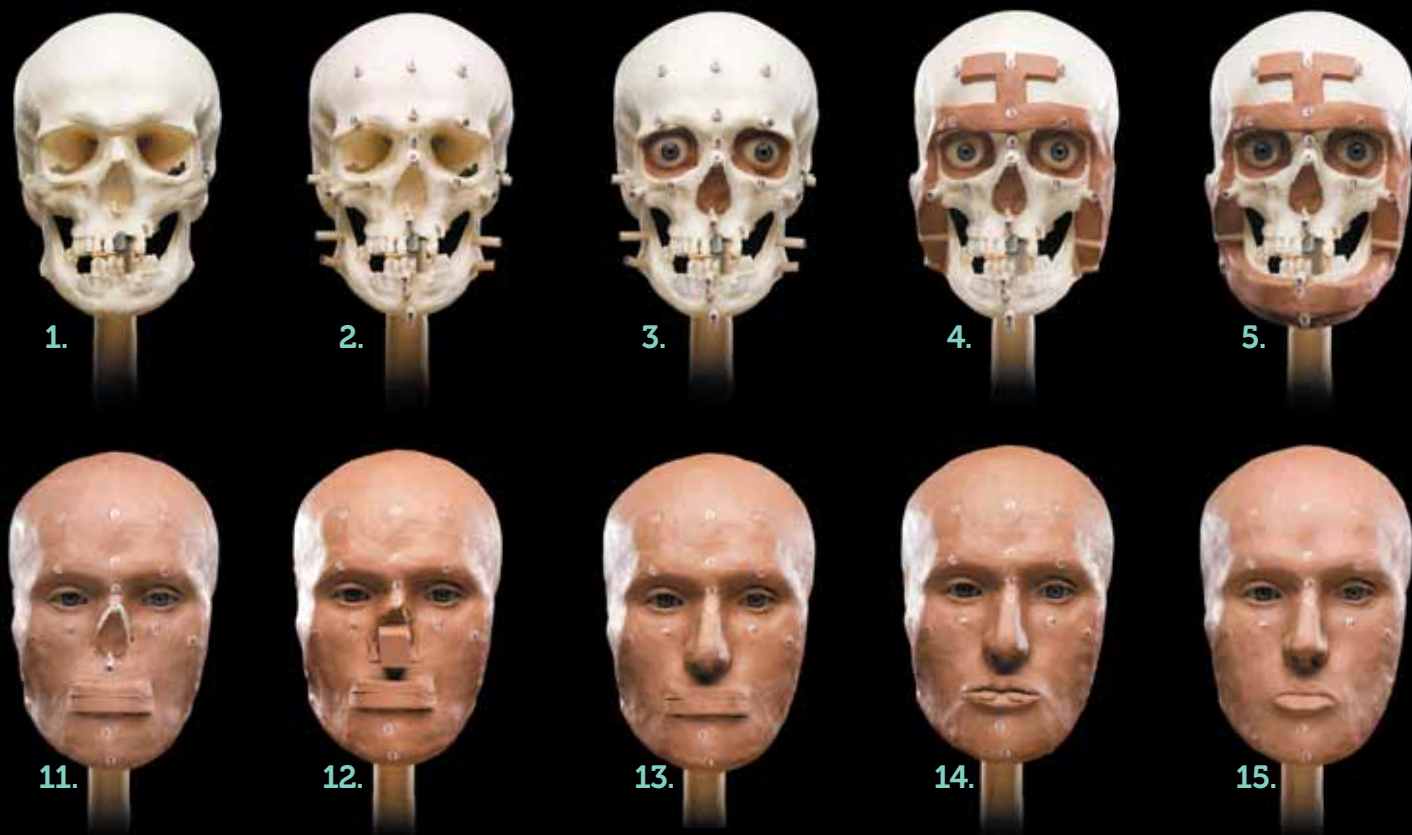
Help monitor Rusty Blackbirds

The Rusty Blackbird is a medium-sized migratory songbird whose population has been declining drastically. The Museum's Natural Areas Division is developing a program to monitor the number of Rusty Blackbirds moving through the region in spring and fall. Museum members interested in assisting should contact Larry Rosche (lorofs@aol.com) or Judy Semroc (rainefox@neo.rr.com).



Museum naturalist honored

Last October, the Ohio Department of Natural Resources presented Museum Naturalist Larry Rosche (pictured above at right with ODNR Director Sean D. Logan) with its Cardinal Award for Conservation. The award honored his efforts to research and inform others about Ohio's valuable natural resources. Rosche recently completed the second edition of "Dragonflies and Damselflies of Northeast Ohio," a field guide he originally published in 2002, with co-authors Judy Semroc and Linda Gilbert. He has contributed to numerous field projects; is an active member of the North American Butterfly Association, Ohio Odonata Society, and the American Field Ornithologists; and served as editor of the "Cleveland Bird Calendar" for 16 years.



From skull to face

Dr. Linda Spurlock, the Museum's director of human health and an accomplished facial reconstruction artist, walks us through the steps of re-creating the facial features of an individual from just his skull. This series of photographs is the basis for a digital presentation featured in *Making Faces: The Art and Science of Forensic Facial Reconstruction*. This exhibition, on display in Fawick Gallery through June 14, explores the scientific art of forensic facial reconstruction.

1. A missing front tooth is modeled in green clay. The mandible (lower jaw) is glued to the cranium. The temporomandibular joint is lined with cotton to simulate the disc found there in life. A toothpick is glued between the top and bottom teeth so that the jaws are not clenched.
2. Tissue-depth markers are cut to preset standards (in this case, "White Male Normal") from vinyl erasers and glued onto the skull at "landmarks."
3. Prosthetic eyes are centered in the sockets. The most forward-facing part of the eye is in line with the upper and lower margins of the orbit.
4. Tissue-depth markers in the forehead region are bridged by clay. The clay at the outside of the eyes is made thinner than the adjacent tissue-depth markers near the orbit, since in life the tissue in this region is quite thin (only about 5 mm). The "back triangle" — the region of the masseter muscle where the tissue is very deep — is filled with clay.
5. The mandible is now covered with clay: The area beneath the chin is covered with a strip rolled to match the depth of marker No. 10; the outer surface of the mandible is covered with a strip rolled to match the depth of marker No. 9.
6. The "front triangle" is built up, leaving room for the lips. On the mandible, a thin coil of clay is put between the two strips and then blended to form a smooth transition.
7. Strips of clay are now laid down over the entire forehead and temples.
8. A "mouth barrel" is fashioned and positioned. If some of the anterior teeth were missing after death (as in this case), the mouth is built in the closed position. Conversely, if all the anterior teeth are present, or missing ones were lost long before death, then the mouth is built smiling, to show them. The mouth barrel is as thick as tissue depth marker No. 7 and as wide as the top six teeth (in a non-smiling mouth). The fullness of the lips (height of the mouth barrel) is determined by measuring from gum line to gum line on the teeth. The former location of the gums can be seen on the teeth as a slight textural difference between the enamel and cementum (the hard tissue of the root).



6.



7.



8.



9.



10.



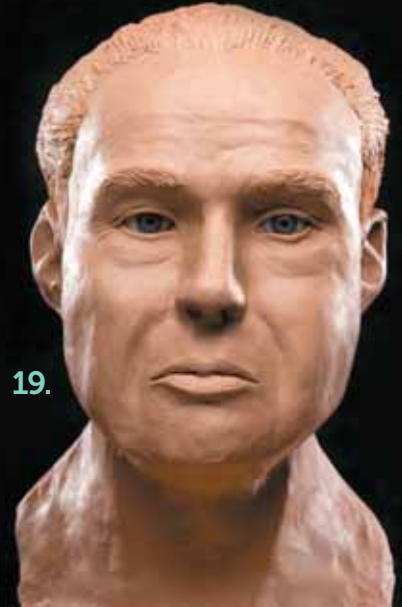
16.



17.



18.



19.

9. Strips of clay now connect tissue depth marker No. 13 to the mouth barrel. Clay is added between the strips on the forehead and temples.

10. Eyelids are fashioned out of thin clay trapezoids. The lower lid is placed first, covering a small part of the lower iris. The upper eyelid is positioned, covering a part of the upper iris. The outside corner of the eyelid attaches to a small bump inside the orbit called Whitnall's tubercle. The inside corner of the eyelid attaches to a crest on the lacrimal bone, a tiny bone in the inner eye socket. The outside corner of the eye is generally higher than the inside corner.

11. Lids are now carefully sculpted. More clay is added around the nose. Strips of clay are added to the back of the head.

12. A nose block is fashioned. The extent to which it projects forward is determined by a formula involving the length of the anterior nasal spine and tissue depth marker No. 5. The breadth of the nose is determined by the breadth of the nasal aperture. Lines scored into the clay mark this breadth.

13. The nose is fleshed out, using the slope of the nasal bones as a guide to how it should be angled.

14. The mouth barrel is smoothed into lip shapes and then little bits of clay are overlaid on them, showing where the lips are somewhat swollen and how the center of the top lip tucks into a dip in the bottom lip. This individual has an unusual kind of under bite, causing his lower lip to jut out more than his upper.

15. The little bits of clay have now been smoothed into the mouth barrel.

16. The neck armature is created. The neck slants forward on a curve defined at the bottom by the seventh cervical (neck) vertebra.

17. The neck, shoulders and back are modeled. An adult male should have prominent thyroid cartilage (the Adam's apple).

18. Ears are added. They recline backward at about a 15 degree angle. It is best to model "average" ears. Hair is modeled and styled appropriately for the individual's age. The person is first

modeled as a young adult, to be certain that the features are correct.

19. Knowing that photos of this individual were taken when he was middle-aged, the face is now aged. Since many people grow heavier in middle age, more flesh is added to round out the face. Wrinkles are added (these form at right angles to the muscles of facial expression). The jawline is softened by making the flesh sag. Bags are created under the eyes.

The facial reconstruction steps described here are based on the method developed by Betty Pat Gatliff. This method is described in detail in the text "Forensic Art and Illustration" by Karen T. Taylor, CRC Press, 2001.

Eco-Minded: ideas for living sustainably

Interested in adding native plants to your yard this year? It's nearly time to get ready. We've compiled some suggestions from Museum GIS Specialist Garrett Ormiston and Herbarium Coordinator Trish MacKeigan, who moonlight as instructors for Museum classes on gardening with natives.

Why plant natives?

Most of our landscaping plants are not problems. However, some have escaped from cultivation and outcompeted native wildflowers and shrubs, hurting natural habitats. Since many animals rely on native plants for food and shelter, the negative effects of these invasive plants can be far-reaching.

Native plants offer many advantages to the home gardener. Since they are well-acustomed to the climate and insect pests of our region, they typically require less care than non-natives. Many also produce food for birds and other wildlife when they need it the most.

How to get started

Ormiston offers some tasks to start with. First, identify the soil, sun/shade and moisture conditions that exist in the spot in which you intend to plant. One major advantage to using native plants is that whatever the location — even if it's less than ideal — there is likely a good native species for it.

Next, inventory what you have. Prioritize which plants you'd like to remove, starting with any invasives you find.

Identify your goals for the “look” of the location, whether it's well-manicured, naturalized or somewhere in between. It's a myth that all native plants grow out of control, Ormiston says. Many of them are well-adapted to landscaping purposes and can be pruned or trimmed to keep an orderly appearance.

If you want to attract birds or other wildlife, consider planting a fruiting shrub or tree. (Ormiston cautions that it's best to situate these away from places where dropped fruit could be a nuisance.)

Don't feel you have to dig out everything — unless that's your only option. Ormiston suggests that you replace a few plants at a time each season to keep the work manageable. This approach also gives you the chance to see how your plant selections work.

Choose the right plants

Once you've worked through the above steps, it's time to research which natives are right for your location. You can find lists of plant species recommended for various uses in the “Conservation” section of www.cmnh.org (click on “Native Plant Landscaping”). Ormiston and MacKeigan recommend the plants database on the USDA site (plants.usda.gov) and the book “Newcomb's

Wildflower Guide” for finding information about specific native plants.

When you've zeroed in on what you'd like to try, write down both the common and scientific names, as some common names apply to more than one plant species.

Many of the more common native landscaping plants are fairly easy to find at local nurseries and garden centers. Call to determine if they have what you're looking for. When you shop, bring your plant list and match plants by their scientific names. Additionally, check the list of shrubs and trees available through the Museum's Native Plant Sale (see page 10 for more information). Many of these are species that are a little harder to purchase locally.

Now you can get down to planting and, eventually, enjoying your newly improved yard or garden.

Common invasive plants in Northeast Ohio yards and gardens

Buckthorn varieties (*Rhamnus sp./Frangula sp.*)
 Burning bush (*Euonymus alatus*)
 English ivy (*Hedera helix*)
 European winter creeper (*Euonymus fortunei*)
 Japanese barberry (*Berberis thunbergii*)
 Norway maple (*Acer platanoides*)
 Reed canary grass (*Phalaris arundinacea*)
 Myrtle or vinca (*Vinca minor*)
 Purple loosestrife (*Lythrum salicaria*)

Get ready for adventure

White-water rafting is the first of a new type of Museum trip that mixes learning with exciting outdoor experiences.

Starting this summer, the Museum will offer new kinds of trips that appeal to the adventurer in everyone. Look for hiking, backpacking, mountain climbing, kayaking and many other types of outdoor experiences in coming seasons.

Like past trips, these excursions will be once-in-a-lifetime opportunities with educational and scientific themes. Imagine studying alpine ecology on a 10,000-foot peak in the Rockies or exploring humanity's impact on coral reefs while sea kayaking in the Caribbean.

The first of these new adventures is

a white-water rafting trip down Utah's Cataract Canyon. Participants will run the river, camp under the stars, and learn about contemporary water-use and environmental issues that affect the Southwest. Professional guides will take us down the river in style and Outdoor Education Coordinator Nathan Taxel will lead lively and informative discussions.

For more information, visit www.cmnh.org or see the summer “Classes and Field Trips” brochure. If you are interested in any of these events but can't participate in them, please let us know so we can count you in for future programs.



Acknowledgments

The Museum gratefully acknowledges the following gifts and grants made between November 15 and December 31, 2008.

The 2009 Archaeology in Action program received a \$4,500 grant from **The Laub Foundation** and a \$5,000 grant from **The Albert G. and Olive H. Schlink Foundation**.

The Laub Foundation supported distance learning outreach with a grant of \$2,500.

The Multicultural Reception celebrating the exhibition *RACE: Are We So Different?* received additional support from **The Cleveland Foundation** (\$7,500) and the **Coleman Spohn Corporation** (\$500).

The Bicknell Fund contributed an additional \$16,666 toward the new *Tyrannosaurus rex* exhibit.

The Natural Areas Division received grants from the **Doris Duke Charitable Foundation** (\$2,000), **The South Waite Foundation** (\$2,500) and the **Conneaut Community Foundation** (\$12,782). A \$10,000 grant was awarded by the **Orvis-Perkins Foundation** toward the protection of Geneva Swamp in Ashtabula County.

The Murch Foundation awarded \$75,000 for general operations and \$50,000 to upgrade Murch Auditorium.

The Jean Thomas Lambert Foundation awarded \$5,000 to GreenCityBlueLake Institute.

A planning grant of \$50,000 from the **Harold C. Schott Foundation** will be used for the Museum's "Vision for the 21st Century" project.

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

Linnaean Kingdom (\$10,000 and above)

Chace and Josephine Anderson
Anonymus (1)
Lucia Smith Nash
Carol and William Prior
Clay and Beth Rankin
Mrs. Elizabeth Sedgwick
Charles and Lucy Weller

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

Evelyn Newell
Jack and Florence Selby

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

James and Victoria Bell
Barbara Brown and Steven Ward
Theodore and Jean Castele
Jack and Betty Hollister
Milton and Tamar Maltz
William and Katherine O'Neill

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

Gay Cull
Gene and Marion Faubel
Jon and Aimee Grimm
Scott and Josephine Inkley
James and Margaret Kreiner
Daniel Maltz
Julien L. McCall
Patrick and Lisa O'Brien
Rosalie Steiner
Paul and Pamela Teel
Michael and Natalie Weinsz

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

Anonymus (1)
David Beach and Constance Magoulas
Linda Butler and Steven Nissen
Mary Lou Ferbert
Allen H. Ford
Charles and Margaret Greenwald
Mary C. Groves
Dale and Pamela Inkley
George and Susan Klein
Eric and Marian Kleiber
Fred and Judith Klotzman
Mrs. Isabelle Lobe

Michael and Lynn Miller
Tod and Robin Oliva
Allen Thomas Pollock
Thomas and Ella Quintrell
Mrs. Clara T. Rankin
Thomas V. Rapini
Robert and Katharine Ruhl
Tee and Sally Scarlett
Robert and Florence Spurney
John and Nancy Tanis
Mr. Tinkham Veale II
Mrs. Barbara B. Webster
John and Margaret Wheeler

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

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

McCallum Sweeney Consulting, Inc.

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

Anonymus (1)

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

Best Buy Co. Inc.
Summa Health System

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

Fifth Third Bank
The Triple T Corporation

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

The Cleveland Wire Cloth & Manufacturing Company
National City

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

CAC | CUYAHOGA ARTS
AND CULTURE

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

Show off your wild side!

Our new T-shirts feature designs inspired by the animals of the Perkins Wildlife Center & Woods Garden. Child and adult designs available.

We also have a wide selection of books to help you jump into spring. Try "A Leaky Tent is a Piece of Paradise," a collection of nature essays by young writers, or "The End of Food" by Paul Roberts.

Hours: Monday through Saturday, 10 am to 4 pm;
Wednesday, 10 am to 8 pm; and Sunday, noon to
5 pm. Or shop online anytime at www.cmnh.org.

**museum
STORE**



Museum Events and Programs

Lectures

Explorer Series 2008-2009

The *Explorer Series* offers memorable presentations on an array of fascinating topics. Make a night of it and arrive early before each talk. Purchase food in The Blue Planet cafe, listen to live music, enjoy the Museum's exhibitions and shop in the Museum Store. Stay afterward for book signings by selected speakers and stargazing in the Ralph Mueller Observatory, weather permitting. Each evening begins at 5:30 pm. *Sponsored by the Museum's Women's Committee, WVIZ/WCPN ideastream, Cleveland Magazine and Cuyahoga County Public Library.* **Tickets: Member adults \$8; member students and seniors \$7; nonmember adults \$10; nonmember students and seniors \$9.**



Blue Lias, or the Fish Lizard's Whore

Claudia Stevens, actress and musician
Friday, March 20, 7:30 pm

Claudia Stevens performs her one-person play, which brings to life the remarkable fossil hunter Mary Anning, a colorful figure of Victorian England. *Blue Lias* is set in the present within an imaginary convention of scientists. The audience takes on the role of the scientists, who are being entertained by a play about Anning. Stevens' Anning is at once playful, wistful, sardonic and angry as she reviews her life and times, the indignity of her position within the all-male scientific community, and the conflict emerging between science and religion. With music by Allen Shearer.



The William and Nancy Klamm Memorial Lecture

Make Way for Plovers: Reversing Coastal Bird Declines in America

Scott Hecker, coastal bird
conservationist

Friday, April 24, 7:30 pm

For more than 20 years, Scott Hecker has loved plovers. As a CMNH Future Scientist and a boy starting his birder's life list along Lake Erie, he searched for these shorefront residents. But he didn't see his first until the launch of his postgraduate career at the Massachusetts Audubon Society. What came next is the history he presents in this lecture. Hecker, now executive director of the Goldenrod Foundation, describes the recovery of the Piping Plover, how one species is saving the barrier beach ecosystem, and his plan to conserve beach-nesting birds and migratory shorebirds throughout America's coastal playground.



Cleveland Archaeological Society Lecture Series

The Cleveland Archaeological Society, a local society of the Archaeological Institute of America (AIA), holds its annual lecture series at the Museum. Each lecture is followed by a reception in The Blue Planet cafe. **Free and open to the public.**

Living Amidst the Sculptural Landscape of Roman Period Palestine

Dr. Elise A. Friedland, George
Washington University
Wednesday, March 11, 7:30 pm

The visual landscape of ancient Palestine, home to Rabbinic period Jews and early Christians, is commonly thought to have been without painted and sculpted images of men, women, animals and gods. Yet statues of Graeco-Roman deities are found at sites throughout Roman-period Israel. The Jewish Mishnah even records a debate between a pagan man and the famous Rabbi Gamliel over whether a Jew could bathe in front of a naked statue of Aphrodite. Dr. Elise Friedland discusses how Roman-period Jews negotiated their sculpture-filled urban landscape and became acculturated to the common visual vocabulary of the Roman world.

The Beautiful South: Investigating Imperial Properties in Roman Puglia

Dr. Myles McCallum, St. Mary's
University, Halifax

Wednesday, April 22, 7:30 pm

Field surveys and excavations in the Basentello and Bradano River valleys have produced evidence suggesting several properties in this part of Puglia (southeastern Italy) were owned by the Roman emperor. Dr. Myles McCallum considers the evidence for these imperial estates and examines who lived on them, what they produced, and how they were integrated into local, regional and extra-regional markets. He focuses on excavations carried out at San Felice from 2004 to 2008, discussing the results of field surveys, magnetometry surveys, excavation and artifacts-analysis and their significance.

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

Curator's Forum 2009

This lecture series showcases the work of the Museum's Collections & Research Division. Box dinners available for preorder, visit www.cmnh.org or call for details. Sponsored by WVIZ/WCPN ideastream, Cleveland Magazine and Cuyahoga County Public Library. **Tickets: Members: \$5; nonmembers: \$7; college students admitted free with valid ID.**

Rare Natural Environments of Northeast Ohio

Dr. Jim Bissell, Curator of Botany
Wednesday, March 18, 7 pm

The Museum's Natural Areas Program protects our region's most unique ecosystems. Museum preserves comprise more than 4,000 acres and contain some of the rarest plant and animal species in Ohio. Many are found nowhere else in the state. Dr. Jim Bissell presents an overview of the rare species on our preserves that require specific habitats to survive. These include 20 native orchids found on 33 preserves and rare fish, mussels and dragonflies that live within sensitive riverine systems buffered by river-edge forests.

New Discoveries During Mongolian Dinosaur Digs

Dr. Michael Ryan, Curator of Vertebrate Paleontology
Wednesday, March 25, 7 pm

The Gobi Desert of Mongolia has produced some of the world's most famous dinosaurs, including *Velociraptor* and *Protoceratops*. It is also one of the last places on Earth that still has unexplored frontiers for discovering new types of dinosaurs. For the past four summers, Dr. Michael Ryan has worked with an international group of dinosaur paleontologists exploring these new regions and collecting literally tons of fossils. He will present some of these new finds and explain why the Gobi is the cradle of Asian dinosaur paleontology.

A State of the State's Birds Address

Dr. Andy Jones,
Curator of Ornithology
Wednesday, April 8, 7 pm

Ohio is home to hundreds of species of birds, ranging from the familiar backyard chickadees and nuthatches to rarities such as Mississippi Kites. How are these species faring in the face of our state's human-dominated landscape? What will avian flu, West Nile virus, wind power, cormorants and other factors do to our bird life? Will we be seeing the same species in Ohio in 50 years? Using data published in many sources and highlighting the efforts of amateur naturalists, Dr. Andy Jones discusses the prospects for Ohio's bird life.

Woranso-Mille: A New Window Into Our Past

Dr. Yohannes Haile-Selassie,
Curator of Physical Anthropology
Wednesday, April 29, 7 pm

The Woranso-Mille paleontological site in the Afar Region of Ethiopia was discovered in 2004. Four years of fieldwork there have yielded more than 3,500 fossil specimens of vertebrates ranging from rats, cats and dogs to monkeys, early hominids and elephants. The site samples slices of time between 5 million and 2 million years ago. Dr. Yohannes Haile-Selassie presents results from his fieldwork and the hypothesis of an ancestor-descendant relationship between *Australopithecus afarensis* (Lucy's species, which lived 3.0 to 3.6 million years ago) and its putative ancestor, *Australopithecus anamensis* (3.9 to 4.2 million years ago).



Dr. Jim Bissell



Dr. Michael Ryan



Dr. Andy Jones



Dr. Yohannes Haile-Selassie



Museum Events and Programs

Frontiers of Astronomy

This lecture series offers those with an interest in astronomy the chance to learn about some of the latest research in the field. Presentations are held in the Museum's Murch Auditorium. On clear evenings, the Ralph Mueller Observatory will be open afterward. *Sponsored by the Museum; Department of Astronomy at Case Western Reserve University through the support of the Arthur S. Holden, Sr. Endowment; and Cleveland Astronomical Society. Free and open to the public.*

The Great Cosmic Gamble: Making Galaxies from Nothing

Dr. Carlos Frenk,
Durham University, England

Thursday, March 12, 8 pm

Cosmology confronts some of the most fundamental questions in all of science. How and when did our Universe begin? What is it made of? How did it acquire its current appearance? Dr. Carlos Frenk reviews the enormous progress that's been made toward answering these questions, from recent observations establishing the existence of dark matter and dark energy to large supercomputer simulations that can re-create the evolution of the Universe. And though a coherent picture of cosmic evolution is beginning to emerge, Frenk points out the fundamental mysteries, like the nature of the dark energy, that remain unresolved.

Is God a Mathematician?

Dr. Mario Livio, Space Telescope
Science Institute, Baltimore

Thursday, April 16, 8 pm

For centuries, mathematical theories have proven uncannily accurate at describing — and predicting — the physical world. Dr. Mario Livio attempts to explain *why*. His talk spans such fields as cosmology, religion and cognitive science and offers an accessible and lively account of the lives and thoughts of some of the greatest mathematicians in history, from Archimedes to Galileo, Descartes and Newton to Gödel, on up to the present day. Along the way, he attempts to answer a question with which mathematicians, philosophers and neuroscientists have struggled for centuries: Is mathematics ultimately invented or discovered?

Museum Events

The Trout Club's 31st-Annual Banquet

Saturday, March 7, 6 pm

Enjoy cocktails, dinner, raffles, silent and live auctions, and door prizes at this fund-raiser for The Trout Club of The Cleveland Museum of Natural History. This annual event has enabled the Trout Club to contribute almost \$240,000 to the Museum and other worthy conservation organizations since 1978. **Tickets: \$75 per person; \$140 per couple. To purchase, contact Karen Menn at (216) 231-4600, ext. 3278, or kmenn@cmnh.org.**

2009 Natural Areas Native Plant Sale

Place orders by: April 14

Pick up orders: Friday, April 24,
4 to 8 pm, or Saturday, April 25,
10 am to 2 pm

The Natural Areas Division is holding its second-annual native plant sale. Choose from eight tree species, six shrub species and two groundcover/vines. Download an order form with a full list of species for sale at www.cmnh.org (type "plant sale" into the Search box) or call Garrett Ormiston at (216) 231-4600, ext. 3352. Prices: \$10 to \$25 per plant. Return completed order form and payment by mail to the Museum's Natural Areas Division, Attn: Garrett Ormiston. All plants must be picked up at the Museum during one of the scheduled times. Saturday pick ups will receive assistance from Newfoundland dog carts.

The Natural History of Spices

Saturday, April 18,

reception 6:30 pm, dinner 8 pm

Prized as medicines, aphrodisiacs, food preservatives and flavorings, spices have been among the world's most sought-after commodities for thousands of years. As early as 2000 B.C., traders traveled far and wide in search of them. Learn about the natural history of spices from Heather Marks, owner of Heather's Heat and Flavor. Then explore the culinary possibilities that spices offer in a seven-course meal created by guest chef Karen Small of Flying Fig. Small and wine purveyor Mary Lapham will provide commentary on each course and its complementary wine. Part of the Natural History of Food Series: final event is June 20. Seating is limited to 100 per evening. *Event Contributors: Bob Sferra, chef/owner, Culinary Occasions; Lasting Impressions Event Rentals. Tickets: \$150 per person*

Circle Neighbors: What Does Green Mean to the Circle?

Wednesday, May 6, 5 pm

University Circle is already recognized as a leading cultural district. Can it also become recognized as a leading green district? Come to the Museum to hear experts and visionaries from around the Circle as they talk about what is being done and what is possible. The Museum's own David Beach, director of GreenCityBlueLake Institute, is moderator. *Presented by The Womens Council of the Cleveland Museum of Art in collaboration with Cleveland Botanical Garden, CMNH, The Women's Committee of The Cleveland Orchestra, MOCA and Western Reserve Historical Society. Free with registration at (216) 231-1177 or lkelly@cmnh.org.*



Museum Programs

READ! SOAR! EXPLORE!

Wednesday evenings in April,
4 to 7 pm

In April, we will spend our Wednesday evenings "Painting the Planet Green" as we read books that discuss things we can do to help our Earth be healthy. These family-oriented programs are held in the Museum Store. Drop in anytime between the hours indicated. For more information, visit www.cmnh.org or stop in the Museum Store. **Free with Museum admission.**

In the 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. Please reserve in advance.**

Ringed Wonder

Monday through Friday, 2:30 pm;
Wednesday, 8 pm; Saturday, 10:30
am*, 12:30, 2 and 4 pm; Sunday,
12:30, 2 and 4 pm

When Galileo first pointed his small telescope at Saturn, he couldn't quite make out the rings. He thought he might be looking at three separate objects. We'll celebrate the quadricentennial anniversary of the telescope and trace its history through increasingly detailed observations of this most beautiful icon of astronomy.

* On **March 7** and **April 4**, **Star Babies** will be offered at this time instead of this program. Star Babies gives children 2 and younger a gentle, 15-minute introduction to the planetarium and the wonders of the night sky. **Tickets: Members: free; nonmembers: \$2 adults, children free with Museum admission.**

Children's Show:

You Turn, I Turn, Saturn
Saturday, 11:30 am and 3 pm;
Sunday, 1:15 and 3 pm

All stars, planets and moons turn on their axes. The giant planet Saturn is over 700 times bigger than the Earth, but rotates in less than 11 hours — more than twice as fast as Earth! Let's fly by the planet, see its spinning moons close up and find out if we could walk on Saturn's rings (short answer: nope).

In the Mueller Observatory

Wednesday evenings, weather permitting, September through the end of May, 8:30 to 11 pm (arrive before 10 pm; dress for the weather).

View the night skies through our vintage 10 ½-inch Warner & Swasey telescope.

Free with Museum admission.

In March and April:

In 2009, for the first time in more than 14 years, Saturn's rings will be positioned nearly edge-on as seen from Earth. Enjoy viewing the razor-thin line of ice cutting across the planet's disk.



2009 Natural Areas Wine Tours

Co-sponsored by

Ohio Wine Producers Association

We've paired tours of Museum natural areas with opportunities to taste the vintages produced by five Northern Ohio wineries. Each Saturday tour starts at 10 am and is guided by Museum staff. Limit 30 participants per date. For details or to register visit www.cmnh.org or call (216) 231-1177. **Fee: \$35 per person**

Tour Dates and Destinations

- April 11:** Singer Lake Bog in Stark County and Viking Vineyards in Kent
May 23: North Kingsville Sand Barrens in Ashtabula County and Markko Vineyard in Conneaut
July 18: Geneva Swamp in Ashtabula County and Debonné Vineyards in Madison
August 22: Burkholder Preserve in Ashtabula County and Laurello Vineyards in Geneva
September 26: Wendtwood Easement in Lorain County and Jilbert Winery in Valley City

Museum Events and Programs

This Museum camp-in's a "natural selection"!

Kids, bring your grownups to
**Evolution Overnight:
A Darwin Celebration**

Friday, March 27, 7 pm, to
Saturday, March 28, 8 am

Expect a good time to evolve when you join us to celebrate the life and legacy of Charles Darwin at this sleepover of the fittest. Bring an air mattress or cushion and sleep dormitory-style on the floors of Kirtland and Sears halls. Fee includes a Friday-evening snack and a Saturday-morning continental breakfast and secured parking. Open to ages 7 to 107; children must be accompanied by an adult. **Members only! To register, visit www.cmmh.org or call (216) 231-4600, ext. 3214. \$45 per person**



In the Smead Discovery Center

Monday through Saturday, 10 am to 4:30 pm; Wednesday, 10 am to 8 pm; Sunday, 1 to 4:30 pm. 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. Check out our spring tree display to learn about a local tree that might grow in your backyard. Observe our worms and composting display and learn about what you and worms can do to turn food scraps into fertilizer. Get creative ideas for recycling toys you'd otherwise throw in the trash. The ideas are based on the Discovery Center's yearlong quest to recycle such things as broken dinosaurs. Take a look at our fun, unusual alternatives to throwing out puzzles with missing pieces and take some of these ideas home with you. Plus, play a birdsong piano, touch real fossils, dig for a dinosaur and much more! Please look after your children at all times and save your snacks for The Blue Planet cafe. **Free with Museum admission.**

Special Programs

Visit www.cmmh.org for more information and activities that tie in to these programs.

Cartooning with Jeff Day Saturday, March 14, 10 to noon

Author of the book "Don't Touch That!" Jeff Day is a physician, naturalist, cartoonist and educator. He enjoys sharing his knowledge of science and art with children and adults, and he'll be here to show you how he makes hilarious and educational cartoons. Is someone in your family a budding cartoonist? Eager for some artistic tips? Want to share your work? Come and bring the whole family to laugh, learn, draw and color.

Sustainable Solutions for Misfit Toys

Saturday, March 14, 1 to 4 pm
Do you face the same "trash or stash" dilemma that we do when it comes to broken toys? Trashing is easy, but it's not a sustainable alternative. Stashing items until they can be recycled means they usually end up as clutter. After six months of research by dedicated high school senior Karis Tzeng, we've discovered some practical and easy solutions that we're excited to share. **Learn** green alternatives to trashing or stashing puzzles with missing pieces, books with broken bindings and dress-up clothes with too many holes. **Bring** your broken plastic animals and action figures and we'll donate them to Happen Inc.'s Toy Lab. It's the one place we've found that can reuse broken plastic toys and we're thrilled to be partnering with them. Happen Inc. is an

arts-oriented nonprofit in Cincinnati. Their Toy Lab lets kids make ingenious new toys out of broken ones. We'll learn more about Toy Lab (www.toy-lab.com/toylab_index.html) from Happen Inc. staffers at 2 pm.

Composting with Worms for Kids and Adults

Wednesday, April 15, 10 am to 4 pm
We throw away a lot of stuff everyday. If you compost, you can do a good thing for the Earth and yourself. Kids: You'll hear "take out the trash" less often because there won't be as much stinky garbage. Adults: Reduce your costs for trash removal and fertilizer. We'll get you started by showing you how to make a composting worm farm out of a plastic bottle. You'll get worms, the bottle, instructions and a slimy good time.



Live Animal Programs

Saturday and Sunday, 1 pm in the Museum lobby and 3 pm in the Ralph Perkins II Wildlife Center & Woods Garden.

Staff and volunteers will introduce visitors to Northeast Ohio's wild creatures using live ambassadors from the Museum's Wildlife Resource Center.

Free with Museum admission.

March: Holes, Hives, Hibernacula and Other Habitations

Some animals live underground, while others live high in the trees. Some animals build elaborate homes, while others look for prefabricated models. Some use their homes only to raise a family and then abandon them, while others use them for years. Explore the fascinating world of the dwelling places of Ohio's wild creatures.

April: Music, Musk and Markings

Wild animals have remarkable ways of communicating. Some sing, grunt, howl or crow to attract a mate or defend a territory. Some use scents to communicate where they are, what they will defend and whether it's time to raise a family. Still others have colors, patterns or other markings that broadcast information to foes, family or friends. Join us in an exploration of the world of animal communication.



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: open daily, year-round, dawn to dusk. Nature Center: March: open the first Sunday of the month, 11 am to 4 pm; April to October: open Saturday and Sunday, noon to 5 pm. **Special programs are offered at 2 pm and are free with registration at rdonalds@cmnh.org or (440) 257-0777.** Please dress for the weather; trails may be muddy.

Special Programs

March 1: Marsh Madness

Is anything waking up in the woods and marsh? Let's get outside and shake off some of the winter blahs.

April 5: Nest Hunting

Which birds build which nests? We'll look at some nests at the nature center and then go outside to look for any of last year's nests before the leaves hide them.

April 12: Vernal Pools

Start at the nature center to learn about these woodland wetlands and then join us for a hike to see what we can find in the pools at the marsh.

April 19: Early Spring Wildflower Walk to Celebrate Earth Day

We'll carry guides to ID what we find and share wildflower folklore as we explore the woodland surrounding the marsh.

April 26: Birdsongs at the Marsh

We'll meet at the nature center for a brief refresher on common bird songs and then walk the trails looking and listening for spring's early migrating birds. Bring binoculars and a field guide (we'll have a few to lend).

1			<p>Family Program, Telescope Mirror-Making for the Amateur, 7 pm (Wednesdays thru 5/20)</p> <p>Kirtland Bird Club, Fall Migration of the Northern Saw-whet Owl, Kelly Williams-Sieg, 7:30 pm</p> <p>Adult Program, Intermediate Fly-Tying, 7 pm (Wednesdays through 4/1)</p>	5	<p>Members Appreciation Night, 5:30 pm</p>	<p>Adult Field Trip, Owl Hide & Seek, 9 am</p>	7
2	3	4	<p>Adult Program, Designing Landscapes Using Native Plants, 6:30 pm</p> <p>Audubon Society of Greater Cleveland, 7 pm</p> <p>Guild of Nature Artists, 7 pm</p> <p>Cleveland Archaeological Society, 7:30 pm</p> <p>Cleveland Geological Society, 7:30 pm</p>	12	<p>Frontiers of Astronomy, The Great Cosmic Gamble: Making Galaxies from Nothing, Dr. Carlos Frenk, 8 pm</p>	<p>Kirtlandia Society, Day in the Life an African Penguin, 9:30 am</p> <p>Snead Discovery Center, Cartooning with Jeff Day, 10 am, Sustainable Solutions for Misfit Toys, 1 pm</p> <p>Youth Programs, First Aid for Webelos and Girl Scouts, 10 am; Junior Docents, 1 pm</p>	14
8	15	18	<p>Adult Programs, Deep Sustainability: An Introductory Workshop, 7 pm</p> <p>Curator's Forum, Rare Natural Environments of Northeast Ohio, Dr. Jim Bissell, 7 pm</p>	19	<p>Explorer Series, Blue Lias, or the Fish Lizard's Whore, Claudia Stevens, 7:30 pm</p>	<p>Youth Programs, Future Scientists, 9 am</p> <p>Adult Field Trip, Say Hello to Springtime, 10 am</p>	21
22	25	28	<p>Curator's Forum, New Discoveries During Mongolian Dinosaur Digs, Dr. Michael Ryan, 7 pm</p> <p>Guild of Nature Artists, 7 pm</p>	26	<p>Members Only, Evolution Overnight: A Darwin Celebration, 7 pm to 3/28 at 8 am</p>	<p>Youth Programs, Future Scientists, 9 am; Museum Trekkers & Explorers: Rocks, Animals, Plants, and People: The Second Voyage of the HMS <i>Beagle</i>, 10 am</p> <p>Adult Field Trips, Amphibian Amble, 10 am; Spring Salamandering, 7:30 pm</p> <p>Micromineral Society, 1 pm</p>	28
29							



Judy Sennoc

wednesday



T. rex and Triceratops face off in Kirtland Hall of Prehistoric Life

Exhibits & Shows

Kahn Hall — *Brainteasers* 2, through May 3
Fawick Gallery — *Making Faces: The Art and Science of Forensic Facial Reconstruction*, through June 14
Lower Level Gallery — *Fieldwork*

Museum Hours

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

Harold Terry Clark Library

Tuesday 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. Please call ext. 3222 to confirm library staff is on duty.

Museum Store Hours

Monday through Saturday, 10 am to 5 pm; Wednesday, 10 am to 8:30 pm; Sunday, noon to 5 pm

For Visitor Information

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

Thursday

Museum Store, READ! SOAR! EXPLORE!, 4 pm (Wednesdays thru 4/29)
Adult Program, Coffee with a Curator: Cleveland Botanical Garden, 10:30 am
Kirtland Bird Club, From Churches to Chaffinches: the Beauty of Britain, David Lewis, 7:30 pm

Adult Program, Coffee With a Curator: Western Reserve Historical Society, 10:30 am
Curator's Forum, A State of the State's Birds Address, Dr. Andy Jones, 7 pm
Guild of Nature Artists, 7 pm
Cleveland Geological Society, 7:30 pm

Smead Discovery Center Program, Composting with Worms, 10 am
Trout Club, 6 pm

Adult Programs, Coffee With a Curator: Cleveland Museum of Art, 10:30 am; Scoping out Spring Skies, 7 pm (Wednesdays thru 5/20)
Explorer Travel Club, Celebrate Darwin: Travel with CMNH to the Galapagos Islands (thru 5/1)
Guild of Nature Artists, 7 pm
Cleveland Archaeological Society, 7:30 pm

Adult Programs, Coffee With a Curator: CMNH, 10:30 am
Curator's Forum, Woranso-Mille: A New Window Into Our Past, Dr. Yohannes Haile-Selassie, 7 pm

Adult Field Trip, Prairie Chicken Booming, 9 am (thru 4/10 at 9 pm)

Frontiers of Astronomy, Is God a Mathematician?, Dr. Mario Livio, 8 pm

Adult Field Trip, Giant Hunting at the Grand River Terraces, 10 am
Explorer Series, Make Way for Plovers: Reversing Coastal Bird Declines in America, Scott Hecker, 7:30 pm

Adult Programs, Coffee With a Curator: Cleveland Museum of Art, 10:30 am; Scoping out Spring Skies, 7 pm (Wednesdays thru 5/20)
Explorer Travel Club, Celebrate Darwin: Travel with CMNH to the Galapagos Islands (thru 5/1)
Guild of Nature Artists, 7 pm
Cleveland Archaeological Society, 7:30 pm

Adult Programs, Coffee With a Curator: CMNH, 10:30 am
Curator's Forum, Woranso-Mille: A New Window Into Our Past, Dr. Yohannes Haile-Selassie, 7 pm

Youth Programs, Future Scientists, 9 am; Eye-Popping Science, 10 am
Adult Field Trip, "Greats" in Medina, 10 am
Photographic Society, 9 am

Adult Field Trip, Urban Rocks: Stones of the Near West Side/ Ohio City; 8:30 am; Canoeing for Garlic Mustard in the George, 9 am
Kirtlandia Society, Tracking the West Virginia White Butterfly in Our Natural Areas, Cathi Lehn, 9:30 am

Youth Program, Future Scientists, 9 am
Adult Field Trip, Spring at the Swamp, 10 am
The Natural History of Spices Dinner, 6:30 pm

Youth Programs, Spring Student Naturalists, 9 am (thru 5/16); Future Scientists, 9 am
Adult Field Trip, Trekking for *Trollius*, 10 am
Micromineral Society, 1 pm

1	2	3	4
8	9	10	11
15	16	17	18
22	23	24	25
29	30		

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Goodbye, winter!

Use your eyes, ears and, yes, nose and you'll find signs everywhere that spring is on its way:



Watch for the first migrating birds. Red-winged Blackbirds, Great Blue Herons, Turkey Vultures and more return to our area to nest.

Other species are just passing through. **Listen** for spring peepers and wood frogs calling for mates. **Look** for early



wildflowers, including skunk cabbage, harbinger-of-spring and hepatica.

Scan for winter crane flies on the snow. They hatch

and are active even if the ground's still covered.

Observe the branches of trees for buds that will eventually form leaves or blooms. **Smell** the air for... skunk! (Raccoons are also active now.)

Visit www.cmnh.org/site/JustForFun.aspx and spring into more seasonal fun!



Just for kids



INTERNATIONAL YEAR OF
ASTRONOMY 2009

Messier objects

In the late 1700s, astronomer Charles Messier (pronounced mezz-zee-YAY) used the telescope at his observatory outside Paris, France, to hunt for comets. As he did, he noticed the same fuzzy objects in the sky night after night.

Messier didn't know what the objects were, so he cataloged them to study later. Other astronomers added to the catalog. Eventually it contained 110 objects.

Today, we know that these "Messier objects" are actually swarms of stars, star clouds and distant galaxies. Sometimes, amateur astronomers attempt to view all 110 objects in a single night. This is known as a "Messier marathon."

Weather permitting, the Museum will hold several "mini-marathons" on the evenings of March 25, April 1, and April 8 during our normal Wednesday-evening hours. Visit www.cmnh.org and search for "Sky Roundup" for more information.

Summer camps for the curious mind

Spend some of your summertime at one of our weeklong camps for kids in grades 1 through 10. Junior Medical Camp and Circle Sampler Camp sessions start June 15. For more information or to register, visit www.cmnh.org or call (216) 231-4600, ext. 3214.

Museum Discovery Cards

Only for kids, only available at the Museum, each card only offered for one month.

Upcoming featured creatures:
March: *Haplocanthosaurus delfsi* ("Happy")

April: *Coelophysis bauri*