

## Special Exhibitions



### **Exploring Trees, Inside and Out**

October 23, 2010 – January 30, 2011

*Exploring Trees* will help students discover nature through multiple perspectives and will inspire them to get outdoors, explore the wonders, and develop connections with the natural world. Students can experience a glimpse of the wonders that await them in their own backyards and neighborhoods. This interactive exhibition, developed by the Arbor Day Foundation, will provide a visual-spatial experience designed for whole body, open ended participation to raise the awareness and understanding of trees.

### **Nature's Architects**

March 19, 2011 – August 6, 2011

This exhibition, developed by Nature Museum staff, investigates the fascinating world of animal architects. The exhibition features live animals, including Chicago's Monk Parakeets and an active bee hive, interactive elements, and engaging audiovisual footage exploring the complex, effective, and beautiful creations of animal builders.

## Special Exhibition Workshops

**Hands-on workshops connected to our special exhibitions.**

### **Tree Exploration**

October 25, 2010 – January 28, 2011

45 minutes | \$115/class of 30 students | Grades 3-5

Theme: Importance of Trees | ILS: 12A

What goes on inside a tree? Students will discover the importance of trees, and the amazing world hidden behind the tree's bark.

### **Animal Architects**

March 21, 2011 – August 5, 2011

45 minutes | \$115/class of 30 students | Grades 3-5

Theme: Animal Needs | ILS: 12A

Animals have many different kinds of homes, and each is a wonder. Students will discover that animals use their homes for different purposes, such as sleeping, shelter from predators, food storage, and raising young.

Special pricing for workshops scheduled in July, August, September, January, February, and March. **Book your workshop during one of these months and save \$25.**

## Science and Nature Workshops

**Hands-on workshops taught by Museum educators in our classrooms and in the native landscape surrounding the Museum.**

45 minutes | \$115/class of 30 students (minimum of 10)

Outdoor workshops are available September 1 through October 29, 2010 and April 18 through June 17, 2011.

### **Early Childhood**

#### **Babies and Growth**

Theme: Growth, Animal Needs | ILS: 12B

Discover how baby animals change and what they learn as they grow into adulthood. By engaging the students in activities such as searching for food and shelter, they become aware of what animal parents teach their young to survive in the wild.

#### **Lunchtime for Ladybug - NEW!**

Theme: Animal Needs | ILS: 12A

What do ladybugs need to help them grow? Aphids, and lots of them! Students will discover what it takes to become a ladybug, and then help the ladybugs find the food they need in order to grow.

### **Kindergarten**

#### **"5, 6 What is This?"**

Theme: Animal Needs | ILS: 12A, 12B

Do you know who looks like a tree, lives in a tree, and moves like a tree? Students will meet a live mystery animal and discover the many characteristics of Illinois animals in this workshop.

### **Teenie-Greenies**

Theme: Nature Appreciation | ILS: 12B

Develop a love for nature, start planting the seeds to be green. Discover through hands-on activities how if we take a little care of the earth, we'll all have a healthy, beautiful planet to enjoy!

### **Wild Discovery Safari – Outdoor Workshop**

Theme: Sensory Experience | ILS: 23A

Awaken your senses and join us for an outdoor adventure! A Safari Guide leads us to our senses, while we explore the great outdoors surrounding the Museum. Students discover nature's wild sights, sounds, touches, tickles, and sniffs. Dress for the weather!

Book your workshop for July, August, September, January, February, or March **and save \$25 off the regular price of the workshop.**

## Science and Nature Workshops (cont.)

### Grades 1 and 2

#### Habitat Hunters

Theme: Animal Habitats and Needs | ILS: 12A, 12B

Visit with a live animal from the Chicago Academy of Sciences' Collections. Students discover that all living creatures need water, food, shelter, and space to survive in their habitats.

#### All Living Things

Theme: Characteristics of Living Things | ILS: 5A, 12A

What does an oak tree have in common with a bumblebee? Are fish and flowers really that different? Students answer riddles and participate in activities that help them to understand that all living things eat, breathe, and grow.

#### Metamorphosing Monarchs

Theme: Butterfly Life Cycle | ILS: 12A, 12B

Become butterfly scientists and learn about the stages of butterfly metamorphosis by looking at eggs, caterpillars, pupa, and adult butterflies. Students discover the magic of metamorphosis and create a butterfly lifecycle model to take home.

#### Migrating Monarchs

Themes: Migration | ILS: 12E

Join a monarch butterfly on an adventure as it migrates south. Students participate in the adventures and challenges the monarch encounters as it travels to Mexico.

### Grades 3 and 4

#### Seed Adventures - NEW!

Theme: Seed Adaptations and Dispersal | ILS: 12B

How do plants end up growing all over and in different areas? Through a guided and imaginative seed creation, students will discover that seeds have special adaptations to help them disperse and survive in their environment.

#### Worm Investigation Station

Theme: Vermicomposting | ILS: 12B

Investigate live worms in their home and learn how food waste and paper can be recycled. Students will observe a red worm by using a magnifying lens and classify items that can and cannot be fed to red worms.

#### Ecology Rangers - NEW! - Outdoor Program

Theme: Food Chains, Habitats | ILS: 12B

What do animals need in order to survive in their environment? Through observation, students will become ecologists and observe the different habitats surrounding the Museum. Students will determine which habitats fulfill the needs of certain animals.

#### Tag... Where Have You Been, Monarch? - NEW! - Outdoor Program

Theme: Data Collection, Migration | ILS: 13A

By becoming butterflies and through hands-on activities, students will discover what is needed in order to tag Monarch Butterflies and why the collection of this information is important in helping us learn more about them.

**\*Animal Olympics is available upon request.**

### Grades 5 and 6

#### Creating Wind Energy - NEW!

Theme: Renewable Resources, Energy Use | ILS: 13B

Electricity is something we all use every day. What is used to create this energy? Fossil fuels are used in the process of creating the electricity we use every day. This process takes millions of years to produce. New technology uses renewable resources, such as wind and sun to create electricity. Students will experiment and create energy through wind.

#### From Soil to Plate - NEW!

Theme: Energy | ILS: 12B

Our food goes on an incredible journey before it ends up on our plates. Students learn the beginnings of their food, and how and where it travels in order to get to our plates. Discover how this affects our planet, and the environmental choices we can make.

#### What Waste?

Theme: Reduce, Reuse, Recycle | ILS: 13B

Classify everyday items made from renewable and nonrenewable resources. Students work in teams and participate in a race to show how waste can be diverted from landfills through reusing and recycling practices.

#### Insect Investigators

Theme: Data Collection, Microscope Use | ILS: 12A

Through the use of microscopes and insect parts found at the scene of the crime, students will help uncover who stole the nectar from the flower.

### Junior High and High School

#### E-Rode Challenge

Theme: Erosion | ILS: 12E, 13B

Students work in teams to build their own streams, lakes, and dams. Learn the dynamics of stream flow and erosion while tackling the E-Rode Challenge.

#### Water Quality Indoors - NEW!

Theme: Identification, Data Collection | ILS: 11A, 12B

Join us for an in-depth investigation of aquatic invertebrates found in surrounding Chicagoland waters. Learn about collection and identification techniques and the values associated with water monitoring.

## Science and Nature Labs

**Labs encourage students to explore science, nature, and environmental concepts** in greater detail, and to participate in a wide range of hands-on activities, including observation, experimentation, and data collection. 90 minutes | \$150/class of 30 students (minimum of 10)  
Outdoor labs are available September 1 through October 29, 2010 and April 18 through June 17, 2011.

### Junior High and High School

#### Amazing Biodiversity - NEW! - Outdoor Program

Themes: Data Collection, Biodiversity | ILS: 11A, 12B

Students will recognize that nature can be found everywhere, even on their school grounds. Students will determine biodiversity through use of sampling protocol to collect data on plant species within a measured area. By graphing, analyzing, and comparing data, students can determine species richness and diversity of an area.

Book one of these workshops for September and save \$25.

## Science TRIPS

### Science Teaching to Reach out In Public/Private Schools

**The Curricula** Program topics focus on nature and ecology. We bring a piece of the Nature Museum to the classroom and educate your students on relevant, local, and standards-based subject matter. Programs are grouped by suggested age ranges. Topics are recommended to serve as enrichment to current subject areas being taught.

#### Pre K to K

Bugs Alive  
Habitats and Homes - New!

#### Grades 1 to 2

Incredible Insects  
A Seed's Journey

#### Grades 3 to 4

On the Right Track  
Reptiles and Amphibians - New!

#### Grades 5 to 6

Owl Pellets - New!  
Tree-mendous Detectives

#### Grades 7 to 8

Pollution Solution  
Mammal Adaptations - New!

#### Program includes:

- Hands-on, inquiry based science.
- 60-minute standards based lessons and activities guided by Museum educators.
- Interaction with the Museum's collections and/or exhibitions.
- Maximum 32 students/program.

Cost: \$150/program. Signing up for multiple programs in one day is encouraged. Owl Pellets has a materials fee of \$1.50/student. A transportation fee of \$.50/mile will be charged to schools that are farther than 30 miles from the Nature Museum.

**Register** online at [naturemuseum.org](http://naturemuseum.org). E-mail [sciencetrips@naturemuseum.org](mailto:sciencetrips@naturemuseum.org) for more information.

## Science on the Go!

Science on the Go! (SOG!) is designed to help K-8 educators become more comfortable teaching science using hands-on inquiry-based methods that have proven successful in improving student's interest and their test scores in science.

### Fall 2010

#### Quarter 1

**Grades K to 2**  
Amazing Animals  
Plant Pals

#### Grades 3 to 5

Scientific Investigations  
Earth Explorers

#### Grades 6 to 8

Scien-terrific Method  
Systems and Cycles in Nature

#### Quarter 2

**Grades K to 2**  
Animal Adventures  
Seasons of Nature

#### Grades 3 to 5

Scientific Investigation  
Electricity and Magnetism

#### Grades 6 to 8

Scien-terrific Method  
The Changing Climate

### Spring 2011

#### Quarter 3

**Grades K to 2**  
Animal Adventures  
Junior Scientists

#### Grades 3 to 5

Moving Mechanics  
Biogeography

#### Grades 6 to 8

Biology Basics  
Systems and Cycles in Nature

#### Quarter 4

**Grades K to 2**  
Plant Pals  
Creepy Crawlers

#### Grades 3 to 5

Body Builders  
Midwest Ecosystems

#### Grades 6 to 8

Biology Basics  
Change Over Time

This year, Science on the Go! is celebrating **20 years of hands-on science teaching in the classroom.**

Cost: \$1,000/classroom when four or more classrooms participate. The quarter design features three co-teaching visits with a dedicated Museum educator, curriculum binder, all materials packaged and labeled, and a free field trip to the Museum with 50% bus reimbursement.

**Registration** Call 773-755-5111, Ext. 5 or e-mail [scienceonthego@naturemuseum.org](mailto:scienceonthego@naturemuseum.org).

