

Adler Planetarium Educational “Catalog”

Pre-School; K-8

On Site

- **Technology Classroom Field Trip Programs** – Technology classroom field trip programs give students an opportunity to explore space (with a focus on constellations, planets or space exploration) through using computers. The programs run from 30-45 minutes and serve groups of up to 30 students at a time. Over 2,000 students participated in these programs in the 2009-2010 school year.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.
- **The Atwood Sphere** – The Atwood Sphere experience includes a guided tour of Chicago's viewable constellations through the historic Atwood Celestial Sphere, Chicago first planetarium. The Atwood experience lasts approximately 10 minutes, and accommodates approximately 225 people per day.
- **Pocket Science** – Pocket Science condenses our larger, time-intensive programs into short, portable science activities. Our Interpreters use these with guests throughout the museum. Each program lasts less than 5 minutes but runs continuously throughout the day.
- **Adler Portable Dome Outreach** – The Portable Dome Outreach Program is an interactive and facilitated experience including a pre-show activity, a full dome show, and an opportunity for a post-show activity. Currently, One World, One Sky: Big Bird's Adventure is offered for grades Pre-K-2, Earth, Moon and Sun is offered for grades 3-6, and IBEX: The Search for the Edge of the Solar System is offered for grades 9-12. The theater seats between 15 and 25 people per show. In 2010 so far, approximately 1,700 people have participated in this program.
- **Adler Technology Camps** – Adler Technology Camps are weeklong camps where campers ages 8-14 complete several design challenges involving technology. Campers use 3-D software, robotics, and video to complete the challenges. The four one-week sessions serve approximately 80 campers each year.
- **Exploring the Edge of Space** – Exploring the Edge of Space, formerly known as Teen Astronomers Camp, is a weeklong camp where 11 to 13 year-olds study atmospheric conditions. Working with the Adler Planetarium's astronomy department, campers launch a high altitude balloon that takes measurements at altitudes of approximately 100,000 ft. After the balloon is retrieved, they spend the rest of camp analyzing the data collected. During the two one-week sessions, 32 campers are served.
- **Adler Mini-camps** – Adler Mini-camps are two-day camps where children are engaged in hands-on science activities and museum exploration. Each year this thematic camp explores a particular space science topic. The four two-day sessions of this camp serve approximately 150 campers each year.
- **Astrovernight** – Families with children ages 6-10 have the opportunity to spend the night at the Adler. Through hands-on activities, families can discover what it takes to sleep in space. To participate, families must register and pay a fee of \$50 per participant. More than 2,300 children and caregivers have enjoyed this program this year.
- **Guided Gallery Experiences** – Guided Gallery Experiences gives groups of 10-30 students the opportunity to learn more about selected Adler galleries with the help of an educator. Students also participate in activities that highlight specific exhibit content. Over 600 students participated in these programs in the 2009-2010 school year.
- **Activity Carts** – This program consists of 5 individual carts located in various museum galleries. Facilitated by trained staff and volunteers, these carts provide guests with a short, hands-on experience. This experience can broaden and enhance gallery content and themes. The program reaches about 75,000 guests a year.
- **Role-Based Interpreter** – These Interpreters help families take on the role of a scientist. Children use scientific tools to playfully observe and record their discoveries. The program is available during peak visitation times and on weekends.
- **Self-Guides** – Self-Guides help broaden the learning goals presented in museum galleries. Guides are available at the Planet Explorers Welcome Desk.

- **School Partnerships** – Through an application and selection process, schools are selected to partner with the Adler Planetarium. The goal of these partnerships is to support space science instruction. Early in the school year, Adler and school staff meet to develop a plan to meet the needs of each individual school. Based on this plan, schools are provided with professional development, materials as well as field trip and outreach opportunities. In the 2009-2010 school year, the Adler partnered with four K-8 schools in the Chicago Public Schools.

Extension

- **Park Voyagers** – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.
- **Summer Worlds Tour** – Summer Worlds Tour is a collaboration between the Adler Planetarium, Field Museum and Shedd Aquarium. During this weeklong summer camp, children experience educational activities and exhibit exploration at each of the Museum Campus institutions. Each summer there are four weeklong sessions with approximately 500 campers served each summer.

Online

- **Educational Resources** – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access.

High School; College

On Site

- **History of Astronomy Internship and Volunteer Program** – The Webster Institute maintains an active internship program. Interns in Collections Management leave the Adler with practical experience and a better knowledge of the diverse jobs and job skills needed in the Webster Institute and in other collections-based museum institutions. Such positions include the curator, the registrar, the archivist, the librarian, and the collections preservation manager. The Webster Institute offers three types of volunteer positions:
 - A Collections Volunteer participates in the ongoing care and recordkeeping of the Adler Collections. This includes supervised hands-on experience with the collections materials and work with the collections databases, which are major resources for History Research.
 - A History Archives Volunteer helps with the library collection of history and astronomy related articles, and assists with other archival projects related to the archives collections.
 - A Library Volunteer updates and maintains the periodical, vertical file, and book databases in order to offer a quick reference source for staff, scholars, and visitors. This also involves recordkeeping, shelving, and filing under the supervision of the librarian.

The Webster Institute hosts an average of 10-15 positions each year and has worked with various institutions in the past, such as Notre Dame, Dominican University, The School of the Art Institute of Chicago, and The University of Michigan.

- **Far Horizons Summer Undergraduate Internships** – Since 2007, the Far Horizons Summer Undergraduate Internships have provided college students in a STEM discipline (and especially engineering) the opportunity to participate in the exploration of the edge of space. The 2-4 paid interns spend 6-8 weeks in the summer learning about the challenges faced by balloon payloads rising to over 20 miles, designing an experiment or flight system, and testing it in the field through a series of launches.
- **High School Internships** – Since 2006, the Adler Astronomy Department has partnered with the Illinois Math and Science Academy to provide 2-3 students with yearlong research experiences. The students visit the Adler all day each Wednesday during the school year and tackle advanced projects. They are mentored by one of the research astronomers on the Adler staff. Projects have ranged from star formation in barred galaxies to the dynamics of asteroids in the outer main belt.
- **Field Trips** – See entry under “Pre-School; K-8 – On Site”.
- **The Atwood Sphere** – See entry under “Pre-School; K-8 – On Site”.
- **IBEX: Search for the Edge of the Solar System** – Outreach program for NASA’s Interstellar Boundary Explorer (IBEX) spacecraft mission, has created a 28-minute full-dome digital planetarium show that has been distributed nationally to 53 U.S. planetariums and shown to over 50,000 planetarium visitors at the Adler

Planetarium and elsewhere since March 2009. Accompanying educational activities, posters, lithographs, and other resources have been created to support the show. In addition, 32 educational materials kits have been distributed to U.S. planetaria, along with over 104,929 of the printed educational products.

- **Astronomy Conversations** – “Astronomy Conversations” are 1-hour long informal discussions between researchers and small groups of visitors held in the Adler’s Space Visualization Lab. Held daily since 2008, “Astronomy Conversations” has provided over 60,000 visitors with intimate direct interactions with research scientists supported by display technology such as tiled display walls and 3-D displays. Many visitors indicate that these interactions are the highlight of their visit to the Adler.
- **History of Astronomy Public Lectures at the Adler** – Throughout the year, the History of Astronomy staff provides various lectures to the public in the museum setting. Lectures range from a public series presented in relation to an exhibit, such as *Telescopes: Through the Looking Glass* or *Mapping the Universe*, to daily discussions on a topic related to the history of astronomy in the Adler’s Space Visualization Laboratory. History of Astronomy Public Lectures at the Adler is ongoing on a monthly basis and serves a variety of audiences.
- **Pocket Science** – See entry under “Pre-School; K-8 – On Site”.
- **Guided Gallery Experiences** – See entry under “Pre-School; K-8 – On Site”.
- **Adler / Air Force Academy High School (AFAHS) Partnership** – The Adler and AFA launched a long-term partnership in 2009, integrating museum experiences into a high school curriculum. AFA students visit the Adler during their freshman year, attending specially designed field trips. In their sophomore year, students participate in an Adler-facilitated astronomy course. The program culminates with docent and research internship positions for select juniors and seniors. The program runs all year long. In the 2009-2010 school year, the first year of this program, approximately 120 students, 20 of their parents and 10 AFAHS teachers and staff were served. By the fourth year of this program, we expect to be working with at least 300 students, across freshmen to senior classes, 20 parents and 10 AFAHS teachers and staff annually.
- **Activity Carts** – See entry under “Pre-School; K-8 – On Site”.
- **Self-Guides** – See entry under “Pre-School; K-8 – On Site”.
- **History of Astronomy Public and University Groups** – Throughout the year, the History of Astronomy department hosts individuals, university classes and other public groups for behind-the-scenes tours in the Webster Institute and Adler Museum. Visitors meet with Curatorial and Collections staff and view collections objects not currently on display, discuss the history of astronomy and the Adler collections, tour the Webster Institute and conservation lab, and occasionally tour current Adler exhibits. Groups include university class groups, area astronomy clubs, professional library/ museum/ conservation groups, collector groups and other cultural organizations. The Webster Institute conducts an average of 25 public and university group tours per year. Each tour consists of up to 25 people per tour.
- **School Partnerships** – See entry under “Pre-School; K-8 – On Site”.
- **Adler Student Interns** – The Adler provides high school and college students with genuine workplace experience through a variety of opportunities. Student Interns have three departments to choose from:
 - Education department - to facilitate and design visitor experiences
 - Interactive Media - to maintain the Adler’s digital and online media presence.
 - Astronomy - to conduct meaningful independent research.The students are also provided with social/emotional support through Education department involvement. The program runs all year long. During the school year, students work primarily as research interns but more varied positions are filled throughout the summer. Adler will have served at least 20 students from January 2010 through this summer and anticipates increasing these numbers in coming years.

Extension

- **College Courses** – The Museum staff members teach college courses, either as adjunct faculty or as guest speakers at educational institutions.
- **History of Astronomy Public Lectures** – Throughout the year, the History of Astronomy staff provides various lectures to the public in settings other than the museum. Past public lecture examples include: a collaborative lecture series on extraterrestrial life with the Chicago Temple; lectures given to area astronomy groups; a presentation of the Adler publication *Eastern Astrolabes* at the New York Metropolitan Museum of Art. History of Astronomy Public Lectures are ongoing and occur on a monthly basis to a variety of audiences.

Online

- **Educational Resources** – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access.

Families; Life-long Learning

On Site

- **Public Programs** – The Museum offers a rich variety of public programs at the Museum throughout the year.
- **Orientation Tours** – This is a guided tour through the historic Adler building and its exhibits. The tour lasts approximately 20 minutes and serves about 100 people per day.
- **The Atwood Sphere** – See entry under “Pre-School; K-8 – On Site”.
- **IBEX: Search for the Edge of the Solar System** – See entry under “High School; College – On Site”.
- **Astronomy Conversations** – See entry under “High School; College – On Site”.
- **History of Astronomy Public Lectures at the Adler** – “High School; College – On Site”.
- **Pocket Science** – See entry under “Pre-School; K-8 – On Site”.
- **Astrovernight** – See entry under “Pre-School; K-8 – On Site”.
- **Family Workshops** – This program consists of 3 workshops focusing on engineering and design challenges. These 20-minute educator-led workshops are free with general admission and have served approximately 996 guests.
- **Activity Carts** – See entry under “Pre-School; K-8 – On Site”.
- **Role-Based interpreter** – See entry under “Pre-School; K-8 – On Site”.
- **Self-Guides** – See entry under “Pre-School; K-8 – On Site”.
- **History of Astronomy Public and University Groups** – See entry under “High School; College – On Site”.

Extension

- **History of Astronomy Public Lectures** – See entry under “High School; College – Extension”.
- **Adler Use of Collections: Object Loans to Other Museums** – The Minneapolis Institute of Arts (MIA) organized a small, focused exhibition to examine astronomy in the age of Vermeer. The exhibition “The Night Sky in the Age of Vermeer: The Astronomer in Context” was open to the public Saturday, August 8, 2009 to Sunday, January 10, 2010. It was a free exhibition scheduled to coincide with The Louvre’s loan to the MIA of Vermeer’s *Astronomer* from Paris. The Night Sky brought visitors into the scientific and cultural world of the 17th-century astronomer through a focused examination of the prints, books, scientific instruments, and other objects that Vermeer depicted in his intriguing and breathtakingly beautiful painting. The objects from the Adler collections included the Gerhard Mercator’s “Celestial Globe” of 1551 (A-255) and the German 1620 Astrolabe by an unidentified maker (M-34). These objects illuminated the intellectual and cultural context in which Vermeer’s masterpiece was created.

Graduate; Professional Education

On Site

- **Educator Open House** – The Adler’s annual Educator Open House provides an introduction to the museum and its resources and allows educators to experience aspects of the programs offered to teachers and their students. The Adler served approximately 200 educators at the 2009 Educator Open House.
- **Teacher Advisory Board** – The Adler Teacher Advisory Board provides teachers with a chance to collaborate with the museum and other educators from schools around the Chicago area on a variety of projects. Twelve educators served on the 2010 Adler Teacher Advisory Board.
- **Adler Museum Resource Teacher Workshops** – Adler Museum Resource Teacher Workshops provide teachers with an introduction to the museum and the variety of resources that the Adler has to offer teachers and students. During the 2009 – 2010 school year, the Adler served approximately 200 teachers through this program.
- **Behind-the-Scenes Tours** – We offer behind-the-scenes tours
- **Summer Intern Program** – Program for graduate students throughout the Museum’s departments.
- **Year-Around Intern Program** – Program for graduate students in certain departments.
- **Astronomy Conversations** – See entry under “High School; College – On Site”.

- **After School Training** – The Adler Planetarium partnered with Chicago Public Schools to offer an after school club that focused on space science called Explorer's Club. During the 2009-2010 school year, the Adler provided initial training and support to 15 teachers who were leading the clubs within their schools.
- **History of Astronomy Public Lectures at the Adler** – “High School; College – On Site”.
- **Webster Institute Research** – The Webster Institute staff is actively conducting research that contributes to the field of history of astronomy. Past research topics include the study of the metallurgical characteristics of astrolabes and an investigation into the optics of 17th- and 18th-century telescopes.
- **Webster Institute Research Center** – The Webster Institute hosts an average of 10 researchers per year in the Research Center. These individuals conduct research using the Adler’s collections: archives, rare books, scientific instruments, works on paper, paintings.
- **History of Astronomy Conferences and Workshop** – The Webster Institute hosts collections workshops and conferences from time to time. Every two years, scholars from around the world gather for the biennial Notre Dame History of Astronomy Workshop. The Webster Institute staff host a day of workshops and collections tours during this occasion. Other past events have included the Inspiration of Astronomical Phenomena. The History of Astronomy Conference and Workshops are held on an ongoing basis and serve a variety of audiences.
- **Teacher Professional Development** – The Adler’s teacher professional development programs provide teachers with opportunities to develop an understanding of space science content as well as build confidence and efficacy in teaching space science. The involvement levels of these programs range from three hours to five days long. The Adler served approximately 375 teachers with these programs during the 2009-2010 school year.
- **History of Astronomy Public and University Groups** – See entry under “High School; College – On Site”.
- **Webster Club Lecture Series** – In 2008, the Adler announced the official launch of a new group in support of the collections, The Webster Club. Taking its inspiration from the example set by Roderick and Marjorie Webster, The Webster Club aims to strengthen and preserve the Adler holdings as one of the world’s great collections of historic scientific instruments, rare books, maps, works on paper, and materials documenting our exploration and understanding of the universe. The Webster Club lecture series is done on a quarterly basis and covers a variety of History of Astronomy topics relating to the collections such as Navigational Instruments, Astrolabes, and Celestial Mapping.

Extension

- **Graduate School Courses** – The Museum staff members sometimes teach graduate school courses, either as adjunct faculty or as guest speakers.
- **Adler Use of Historical Collection Images in Publications** – The Adler has issued a number of historic images for use in publications with The Cambridge University Press, Know Magazine, The Open University of Israel, Cambridge History of Science, Volume 2 by Shank & D.C. Lindberg, “The Pluto Files: The Rise and Fall of America’s Favorite Planet” by Dr. Neil deGrasse Tyson, and Holt Physics program (includes book, CD/DVDs and online edition).
- **History of Astronomy Public Lectures** – See entry under “High School; College – Extension”.
- **History of Astronomy Media Outreach** – The Webster Institute staff conduct interviews on the topic of collections and the history of astronomy for various media outlets and Adler podcasts. Past interviews include WTTW, PBS, History Channel, area Chicago news, and Japan’s Nippon Television.
- **History of Astronomy Publications** – The Webster Institute’s major ongoing publication project documents the collection in a multi-volume catalogue, Historic Scientific Instruments of the Adler Planetarium & Astronomy Museum. The catalogue series was inaugurated in 1998 with the publication of Western Astrolabes, by Roderick and Marjorie Webster. Current publications include several volumes:
 - Historic Scientific Instruments of the Adler Planetarium, Volume 1: Western Astrolabes
 - Historic Scientific Instruments of the Adler Planetarium, Volume 2: Eastern Astrolabes
 - Awestruck by the Majesty of the Heavens: Artistic Perspectives from the History of Astronomy Collection
 - The Universe Unveiled: Instruments and Images through History
 - Astronomy’s Inspirations
 - Astrolabe Kit
 - Mapping the Universe
 - Telescopes: Through the Looking Glass

Art Institute of Chicago

Educational “Catalog”

Pre-School; K-8

On Site

- **Field Trips** – The Museum offers docent-led and teacher-led museum tours for students in grades Pre K-12. Docent-led tours are provided by experienced gallery educators who interact with students to engage them in detailed looking, discussion, and critical thinking about works of art. General Introduction Tours introduce the museum’s collection thematically; specialized tours focus on the art of a particular period, culture or “ism.”
- **Museum Tours with Studio Activities** – Select docent-led tours include related hands-on studio activities, led by a professional teaching artist.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.
- **Multiple-Visit (MV) programs** – These programs bring students to the museum three or more times over the course of several weeks or an entire year. Staff, docents, and teachers planned the museum visits to support specific learning objectives in the classroom, and then students made six visits over the course of the year, each time meeting with the same docent so that continuity in teaching was maintained.
- **Art and Garden Tours** – These tours connect the Art Institute’s collection with its neighbor, the Lurie Garden in Millennium Park. Students investigate the ways in which artists incorporate elements of the natural world in works of art and cross the Nichols Bridgeway over Monroe Street to meet docents in the Lurie Garden where they compare and contrast the ways in which artists and landscape designers use color, line, and shape as compositional elements in their work.

Extension

- **Park Voyagers** – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after-school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.
- **American Art Partners** – This program is a collaboration with Art Resources in Teaching (ART), an organization that provides artist residencies in Chicago Public School classrooms. ART awarded Art Partners programs to a total of ten schools, each of which visited the Art Institute twice for docent-guided tours and hands-on activities with a teaching artist, focused around our American Art collection. In advance of their museum visit, the classrooms were visited five times by the teaching artist, who engaged the students in creative, hands-on activities based on works of art in the museum’s collection.

Online

- **Educational Resources** – The Museum develops classroom and field trip resource materials. These draw on the Museum’s collection and are posted online for free teacher access. On-line resources for teachers of this age group include:
 - Teacher Manuals:** The ABCs of Art; Faces, Places, and Inner Spaces; Art on the Move; Self, Family, and Community (specifically focused on younger grades)
 - Poster Packets:** For a complete list, refer to <http://www.artic.edu/aic/education/trc/lessonplans.html>
 - Online Modules:** Art Access; Art Explorer; Cleopatra; Chicago: The City in Art, Taoism and the Arts of China; Science, Art, and Technology; The Silk Road; Curious Corner (<http://www.artic.edu/aic/education/onlinelearning/index.html>)
 - Educational Videos:** Your Museum Visit; Model Gallery Teaching: Using the Museum in Your Classroom (http://www.artic.edu/aic/visitor_info/podcasts/video/education_videos/index.html)
- **Curious Corner** – On four computers in the Vitale Family Room, visitors can explore the *Curious Corner*, the new interactive computer program developed by staff from the departments of Museum Education and Museum Technology in collaboration with Sandbox Studios, an educational technology-consulting group.

Curious Corner introduces families, students, and visitors to the Art Institute's diverse collection, teaches basic visual skills, and promotes the museum in a stimulating, intuitive, and appealing way. Families who use it can explore more than thirty works of art from around the world through playful and creative activities. Other games to explore in the Vitale Family Room include a large reproduction of Picasso's cubist painting *Man with a Green Pipe* with magnetic pieces of colors and shapes for matching, fourteen new puzzles of works from the collection, and a variety of building blocks that give young visitors a chance to explore and play while learning about masterpieces from the collection.

High School; College

On Site

- **Summer Intern Program** – A program for college students in the Department of Museum Education that introduces interns to working with the museum's publics through gallery tours, studio activities, and other types of programs. Interns are also introduced to the museum broadly in a weekly seminar session that brings in curators, conservators, and other professional staff.
- **Field Trips** – See entry under "Pre-School; K-8 – On Site".
- **Art and Stories** – Offered in conjunction with Chicago Public Schools, this program provides students the opportunity to delve deeply into the museum's collection and be exposed to behind-the-scenes workings of the institution. Primarily for middle-school students, it connects art and writing through reading, discussion, and hands-on activities connected to the museum's collection. Students from various schools in the CPS system meet weekly at the museum and are awarded CPS credit.
- **Museology** – A class offered in conjunction with Chicago Public Schools provides students the opportunity to delve deeply into the museum's collection and be exposed to behind-the-scenes workings of the institution. Primarily for high school students, the class allows students to learn about how museums work through study of the collection, exposure to museum professionals, and the completion of a virtual exhibition. Students from various schools in the CPS system meet weekly at the museum and are awarded CPS credit.
- **Teen Lab** – An after-school program held during after-school hours in partnership with the citywide **After School Matters** program, bringing high-school students to the museum three evenings each week to learn about the Art Institute's collection, to be introduced to museum careers, and to enhance their creative skills and academic development by using the museum as a resource. The program also seeks to enable the museum to make a connection with the teen population of Chicago. This year, students met with curators and other museum professionals, learned about special exhibitions and the permanent collection through gallery discussions and sketching and writing activities, and created their own creative works in a variety of media. Students focus on various forms of digital animation, tying this investigation to works in the museum's collection and using works of art as inspiration to create their own animated shorts.
- **Teen Drop-in Activities** – Evening and weekend drop-in programs are open and free of charge. Teens engage in quick hands-on activities that introduce them to an aspect of the museum collection and are encouraged to then visit the museum's galleries.
- **Teen Daylong Workshops** – Weekend workshops, which are fee-based, allow participants to use the Museum's collection and digital technology to create their own works of art.

Extension

- **College Courses** – The Museum staff members teach college courses at education institutions, either as adjunct faculty or as guest lecturers.

Online

- **Educational Resources** – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access. On-line resources for teachers of this age group include:

Teacher Manuals: American Art; Art of the Ancient Mediterranean; Ancient of the Ancient Americas; African Art; African American Art; Many Faces; Mexicanidad; Impressionism and Post-Impressionism; Van Gogh and Gauguin; Taoism and the Arts of China; Exploration and the Cosmos (specifically focused on middle and high school)

Poster Packets: For a complete list refer to <http://www.artic.edu/aic/education/trc/lessonplans.html>

Online Modules: Art Access; Art Explorer; Cleopatra; Chicago: The City in Art, Taoism and the Arts of China; Science, Art, and Technology; The Silk Road;

(<http://www.artic.edu/aic/education/onlinelearning/index.html>)

Educational Videos: Your Museum Visit; Model Gallery Teaching: Using the Museum in Your Classroom (http://www.artic.edu/aic/visitor_info/podcasts/video/education_videos/index.html)

Families; Life-long Learning

On Site

- **Public Programs** – The Museum offers a rich variety of public programs at the Museum throughout the year.
- **Adult Group Tours** – Staff members are available to give talks to groups.
- **360 Degrees: Art Beyond Borders** – A museum-wide theme offering families a wide variety of programs such as art-making workshops and printed self-guides to engage them. Family Programs in the summer of 2008 focused on the special exhibition *Benin—Kings and Rituals: Court Arts of Africa*. A printed family self-guide was produced; family gallery tours and drop-in workshops focused on pattern and symbolism; and visitors created printed patterns and wearable art inspired by Benin bronze sculpture.
- **Kaleidoscope Family Day** – Programs included a performance of *Time Travelers: The Ancestors are with Us*, workshops in which kids made wearable art, and drop-in gallery activity stations where families could create a dragon plate, composite animal mask, or a figure drawing. Partners from cultural institutions around the city also participated in Kaleidoscope by providing arts activities. Our event partners included the Chicago Symphony Orchestra, the Chicago Children’s Museum, the School of the Art Institute of Chicago, the Museum of Contemporary Art, the Bronzeville Children’s Museum, and the Lurie Garden.
- **Hubbard Street Dance Chicago** – A collaboration on an innovative new program that included a movement workshop, a gallery walk, and a studio art activity, all based on the idea of creating pattern through shape and movement.
- **Family Festivals** – Festivals featured themes related to the **360 Degrees: Art Beyond Borders** season. Festivals featured a drop-in art activity, gallery walks, storytelling sessions, and a new family self-guide, for example, *Animals in Art Around the World*, which linked the annual theme to the illustration exhibition featured in the Kraft Education Center, *The Bill Peet Storybook Menagerie*. Family Festivals are always very popular, and a great introduction to all the programs we offer.
- **Conversations in the galleries** – Conversations are presented by Museum Education staff and docents, resulting in over 12 hours of free public programming per week.
- **The AIC-CSO Joint Seminar** – Offered in collaboration with the Women’s Association of the Chicago Symphony Orchestra, this seminar was built around the exhibition *Becoming Edvard Munch*. This program included a slide lecture on the exhibition; readings of writings by the thinkers who shaped Munch’s age, from Simmel to Freud; and performances of music by Debussy, Grieg and Schoenberg.
- **Adult Tour Docents** – Docents facilitate the museum’s K–12 student programs but recently expanded to include delivery of adult tours.
- **Elderhostel** – Programs which bring seniors to the museum for weeklong sessions, during which participants reside at the nearby Club Quarters hotel.
- **Alzheimer’s workshop** – A workshop organized by an outside group about serving people with Alzheimer’s and dementia. An effective and well-received workshop intended for staff, volunteers, and representatives of other area organizations. Important professional connections were made, and future programs for these challenged audiences are being planned as a result.
- **TacTiles** – An exhibit which provides blind and low-vision visitors with a one-on-one art experience through touch, using images of paintings transferred to tablets and set in relief.
- **Escorts for the Blind** – Escorts are drawn from the pool of Art Insights volunteers, and offer specially designed tours of the museum for groups of blind and low-vision individuals.

Extension

- **Speakers Bureau** – Museum staff members are available for presentations around the city.
- **Exhibition Catalogs** –
- **Artifact, Document Loan Programs** – The Museum has an on-going program of loaning its holdings to further the educational needs of museums around the world.

- **Millennium Park outreach** – Family Programs worked with **Lurie Garden** staff to develop programs that relate art in the museum to the experience of looking at nature through drawing the landscape outdoors.
- **Art and Reading Together** – A collaboration with the **Chicago Public Libraries** which served six neighborhood branches throughout the city and included two on-site workshops at the neighborhood library. Libraries were invited to submit proposals for programs based on American quilts. Museum Education staff facilitated a program introducing families to works in the museum’s collection and helping them make their own connections to the works through hands-on workshops. Librarians facilitated a second workshop, highlighting books related to the chosen art works and theme. In February, families from each branch attended a Family Day festival as the culminating event. Participants enjoyed a “time-traveling” performance by Christopher Cartmill (a frequent performer at the Art Institute for both adult and youth audiences), a studio activity, and a gallery walk to experience first-hand the artworks they learned about during their workshops. Families were proud of the crazy quilt they created collaboratively at their neighborhood branch and very excited to view their own art work on display in the Museum Education studios at the Art Institute.
- **Friendship Journeys** – A partnership with the **Chicago Children’s Museum** and three community organizations. The program strives to connect families from different ethnic and cultural backgrounds through community workshops and visits to each museum. This year included our returning partners from the **Chinese American Service League (CASL)** and **Christopher House**, and introduced a new partner, the **Native American Resource Center** at Stockton Elementary School. During the program, families discovered points of intersection and divergence between cultures and art.
- **Art Express** – AIC’s original off-site program for working professionals in and near the Loop, who listen to brief illustrated talks by museum lecturers during their lunch hours.
- **Artful Dining** – A program made possible through a partnership with Lettuce Entertain You Enterprises, Inc., in which Art Institute educators present slide lectures at selected restaurants that pair art with food and wine.
- **The Discerning Eye** – A program originally designed to use art to help medical professionals hone their observational and diagnostic skills has continued to expand. Through this program a sustained relationship has been established with the University of Chicago Hospitals Academy Nurse Residency Program.
- **Art-Work** – A program in collaboration with Catalyst Ranch of Chicago, a creative corporate meeting and event space. Art-Work programs are day-long, facilitated workshops designed to enhance corporate professional training through the observation of art, focusing on team building, communications, leadership, diversity, creativity and innovation.
- **Art Insights** – Programs which include slide lectures in senior centers and nursing homes throughout the Chicago area.

Online

- **Reading Between the Lions** – This online book club is in conjunction with selected exhibitions. The Art Institute staff led study sessions and suggested discussion topics for each of the book selections.
- **Musecast** – The Art Institute’s subscription podcast series appeared bimonthly. Each of its 15-minute news-magazine-style episodes featured a range of topics.

Graduate; Professional Education

On Site

- **Educator Programs** – Professional development programs for pre-K through 8 and high school teachers, as well as pre-service teachers and community educators (see below for sample titles).
- **Behind-the-Scenes Tours** – The Museum offers behind-the-scenes tours.
- **Summer Intern Program** – A program for college students in the Department of Museum Education that introduces interns to working with the museum’s publics through gallery tours, studio activities, and other types of programs. Interns are also introduced to the museum broadly in a weekly seminar session that brings in curators, conservators, and other professional staff.
- **Year-Around Intern Program** – Program for graduate students in certain departments.
- **Classroom Connect** – A customized, three-hour professional development program for teacher groups. Starting with works of art, teachers increase their familiarity with inquiry-based teaching methods, including looking strategies, open-ended questioning, and object-based learning activities that can be conducted in

both the museum and classroom. Teachers also learn about programs and resources available at the museum.

- **Colorful Connections: Science and Art** – A workshop about color theory and the physics of light. A local science teacher helped museum staff lead the session and shared numerous project ideas to engage students with the science of art.
- **An Evening with the Curator: Indian and Islamic Art** – A program featuring Alsdorf Associate Curator of Indian, Southeast Asian, Himalayan, and Islamic Art Madhuvanti Ghose. After a tour of the museum's recently reinstalled Alsdorf galleries, lesson plans and classroom applications were discussed.
- **Weaving Narratives: Using Art to Teach Literacy** – A three-Saturday workshop offering teachers the opportunity to explore the exhibition *The Divine Art: Four Centuries of European Tapestries*; visit a tapestry studio and learn to weave; work with a poet who demonstrated ways of using art to inspire student writing; and embroider their own comic strips
- **Beyond *The Scream*: The Art of Edvard Munch** – A workshop where participants discovered how artists use their work to express deep emotions and learned how to discuss these highly charged images with their students.
- **Collaborative teacher development programs** – A workshop offered with the Chicago Symphony Orchestra and the Art Institute. Teachers learned about art and music from Scandinavia, Italy, Czechoslovakia, America, England, Argentina, France, and Spain, helping to forge connections between the CSO's Youth Concert Program and student tours to the Art Institute.
- **Burnham Plan Centennial** – A workshop for teachers in Chicago Public Schools to learn about a new curriculum based on Daniel Burnham's 1909 Plan for Chicago and how museum visits and visual thinking can enhance student learning.
- **American Art** – A workshop offered free to teachers who wanted to learn about the Art Institute's newest teacher manual, which was generously funded by the Terra Foundation for American Art. Each participant received a free copy of the teaching manual. The Art Institute also continued to collaborate with the Terra Foundation on the **Terra Teacher Lab** – A full-year intensive professional development program about American Art for Chicago Public School teachers.
- **School Partnership Program** – A program which connects with four CPS schools: two high schools and two elementary schools. This year saw a dramatic increase in teacher participation—from 5 to 12, with over 300 student visits to the museum. Through professional development workshops and collaboration with museum staff and School of the Art Institute graduate students in Art Education, participating teachers were able to learn new skills in teaching through art and incorporate them into the classroom.
- **Open House** – Attending educators enjoyed gallery presentations by museum staff and faculty from the School of the Art Institute, as well as an extensive resource fair which provided an overview of the many programs, publications, and events offered by the museum and the School.
- **Docent Program** – Docents receive extensive training throughout the year to enable them to engage students in grades Pre K-12 in detailed looking, discussion, and critical thinking about works of art. Training on topics ranging from collection-based information to teaching strategies is provided every day of the week, and each month docents participate in one daylong session of advanced training in which they investigate a subject more thoroughly in multiple sessions.

Extension

- **Graduate School Courses** – The Museum staff members sometimes teach graduate school courses, either as adjunct faculty or as guest speakers.

Online

Refer to the museum education home page on the Art Institute's web site:
<http://www.artic.edu/aic/education/>

Chicago History Museum Educational “Catalog”

Pre-School; K-8

On Site

- **Field Trips** – The Chicago History Museum presents fun-filled, content-rich experiences for students from pre-K to grade 12. The Museum’s field trips align with Illinois State Learning Standards. Field trips may visit permanent exhibitions or special exhibitions. History à la Cart stations allow students to build a skyscraper, trace the route of the Great Fire, visit the world’s fair of 1893, measure prairie plants, and much more. Audio tours written and performed by local teenagers expand the students' gallery experience with the voice of history. *Crazy for Trains* discovery bags offer pre-k groups a range of activities to accompany their exploration of transportation in the galleries.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.
- **Permanent Exhibitions** – “Sensing Chicago” (2006) is an award-winning, interactive history experience designed for elementary school-aged children and their caregivers. The much-loved historical dioramas of Chicago have been reinterpreted for elementary and middle school-aged children in “Imagining Chicago” (2006). “Facing Freedom” (2010) explores our nation’s history through powerful storytelling and significant objects for middle and high school-aged students. “Chicago: Crossroads of America” (2006) is primarily for school groups and adult audiences. The exhibition highlights the Museum’s permanent collection and offers a survey of the key events and people that have shaped the city’s history. It includes treasured features, such as the Pioneer locomotive and L-Car #1.
- **Chicago Metro History Fair** – (See entry under “High School; College – On-Site.”)
- **Educator Programs** – See entry under “Graduate; Professional Education – On Site.”

Extension

- **Park Voyagers** – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after-school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.
- **President’s School Visits** – The CHM’s President has an on-going program of visiting Chicago schools with photographs and artifacts relating to the Great Chicago Fire. During the first five years, this program has reached over 250 classrooms.

Online

- **Educational Resources** – Working with area educators, the Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access. Classroom resources include curriculum for grades 1 through 12 with both online and downloadable activities; lesson plans span a variety of topics and meet a range of state learning standards. As of now, online resources include:
 - **History in Your Hands** – Teachers of grades 3-5 can put history into students' hands and ignite curiosity and critical thinking skills by developing their own classroom artifact kit.
 - **Exploring Lincoln and Juárez** – Grades 5-12 can take a closer look at Abraham Lincoln and Benito Juárez, two presidents who greatly affected their nations. This online curriculum invites students to investigate the life and times of these two leaders by analyzing primary source materials.
 - **History Lab** – Grades 3-12. Lessons from each unit may be used independently or as a set. Each lesson includes a lesson plan, student materials, and reproductions of artifacts and/or photographs from the Museum's collection. These materials may be downloaded, copied, and adapted for use in the classroom.

- **Catholic Chicago Resources for Teachers** – Grades 3-12. These resources were created originally in connection with a temporary exhibition. Designed for flexibility, they can be used with students of all ages, and modified to fit your classroom needs.
- **My Chicago** – Grades 1-6. Explore the city's rich and diverse history through ten award-winning activities based on the Chicago flag. Download the lessons and have your students use the interactive online games.
- **Electronic Encyclopedia of Chicago, Great Chicago Stories, Teen Chicago, Chicago Metro History Fair Online Resources** – See entries under “High School; College – Online.”

High School; College

On Site

- **Metro History Fair** – The Research Center provides research direction and collection materials for junior and high school students who are competing in the Metro History Fair.
- **Summer Intern Program** – Program for college students throughout the Museum’s departments.
- **Field Trips** – See entry under “Pre-School; K-8 – On Site”.
- **Educator Programs** – See entry under “Graduate; Professional Education – On Site.”

Extension

- **College Courses** – The Museum staff members teach college courses, either as adjunct faculty or as guest speakers at educational institutional institutions such as Northwestern University, the School of the Art Institute of Chicago, DePaul University, Loyola University, and Illinois Institute of Technology.

Online

- **Educational Resources** – On-line resources for high school include:
 - **Great Chicago Stories** – Grades 3-4, 9-12. Elementary and high school students can read historical fiction stories that illuminate Chicago’s past. Use the interactive history map to look closer at artifacts from the Museum’s collection and to explore locations throughout the city from each story. Build further on your experience with classroom activities. Area educators selected the topics, wrote unit plans, and tested the narratives and resources in their classrooms.
 - **Electronic Encyclopedia of Chicago** – Grades 7-12. No research project is complete without this online resource, which includes A-to-Z entries, photographs with zooming capability, rich maps, interpretive digital essays, and a wealth of historical resources.
 - **Teen Chicago** – Grades 7-12. The *Teen Chicago* collection contains one hundred oral histories about growing up in Chicago during the twentieth century. This collection was created as part of the *Teen Chicago Project*, a multi-year initiative expanding teenage involvement at the Chicago History Museum. A fifteen member Teen Council was hired and trained to conduct one hundred interviews. Among those interviewed were internationally known oral historian Studs Terkel, author Jodee Blanco, and hip-hop artist Kanye West.
 - **Chicago Metro History Fair Online Resources** – The Research Center offers a variety of online resources for History Fair research, including extensive bibliographies.
 - **Exploring Lincoln and Juárez, History Lab and Catholic Chicago Resources for Teachers** – See entries under “Pre-School; K-8 – Online.”
- **Museum Blog** – Staff members share their professional expertise and insights on Chicago history.
- **Email Research Queries and Collection Requests** – The Research Center answers email requests for information, and the Collection Staff will, upon request, answer questions about specific collection items and facilitate their viewing.

Families; Life-long Learning

On Site

- **Commemorative Days** – Educational programs for the public on days such as Martin Luther King Day, Presidents’ Day and July 4.
- **Permanent Exhibitions** – A diverse collection of permanent exhibitions that are designed to engage a variety of audiences. See entry under “Pre-School; K-8 On-Site.”

- **Temporary Exhibitions** – The Museum also has an extensive temporary exhibition program that features as many as six additional public exhibitions per year designed to appeal to a number of the Museum’s audiences.
- **Public Programs** – The Museum offers a rich variety of public programs at the Museum throughout the year. Since October 2006, the Museum has forged a new direction for adult programs. This approach drew on extensive audience studies that identified key characteristics for designing meaningful and memorable experiences for adult audiences: Chicago-focused topics, staging unique experiences, and creating a program structure that can be responsive to current events. These characteristics are the basis for choosing powerful and relevant content, identifying appropriate formats, shaping experiences, and coordinating the schedule of events. Programs include quarterly thematic seminars, monthly In the K/Now discussions on current events, monthly documentary screenings, and special presentations by local and national authors and scholars.
- **Gallery Tours** – Every day, there is a docent-led public tour of the “Chicago: Crossroads of America” galleries.
- **Adult Group Tours** – CHM staff members are available to give talks to groups on aspects of Chicago history and the Museum exhibitions.
- **Behind-the-Scenes Tours** – We offer behind-the-scenes tours for community groups. Typically they receive a tour of some of the collection storage areas, as well as the museum's permanent exhibitions.
- **Project Sunday** – Documentary movie series, open to the public.
- **Outdoor Films** – In collaboration with the Chicago Park District's Movies in the Park, CHM screens four outdoor films on our back plaza, June-September.
- **Guild Education Programs** – The mission of the Guild of the CHM is education. It offers an annual series of educational programs about Chicago and U.S. history topics
- **Costume Council Programs** – The Costume Council of the Chicago History Museum offers an annual series of educational programs about topics related to the costume collection of the CHM.
- **Members’ Educational Programs** – The Museum offers an annual series of educational programs for CHM members, including a lecture on history at the annual meeting, behind-the-scenes visits to collections, and presentations in connection with previews of exhibitions.
- **Research Center** – The Museum's collection of over 22 million artifacts and documents is a rich source for the study of the history of Chicago as a metropolitan urban center that spans five counties, as part of the state of Illinois, and as a part of the broader history of the United States. Visitors can explore the research resources available in each of four research holdings: Architecture, Archives and Manuscripts (includes Radio, Oral History, and Sound Recordings, Books and other Published Materials, and Prints and Photographs (includes Film and Video).
- **Translations** – The Museum often offers Spanish translations of labels for permanent or temporary exhibitions, or special Spanish-language audio tours. Translations sometimes include other languages.

Extension

- **Exploring the City** – Tours that explore Chicago history via bus, walking, L, boat and bike.
- **Speakers Bureau** – The Chicago History Museum offers a wide-ranging program of lectures and presentations for the public, as well as college-level teaching. This includes annual presentations before professional organizations such as the American Association for State and Local History and the American Association of Museums, among others; and regular lectures to community organizations and local businesses.
- **Chicago History Magazine** – Annual publication with educational research on topics of Chicago history. Widely subscribed to by libraries.
- **Exhibition Catalogs** – The Museum has an active publications program that documents through catalogs the artifacts presented in certain temporary and permanent exhibitions, and the historical contexts that give them meaning.
- **Artifact, Document Loan Programs** – The Chicago History Museum has an on-going program of loaning its holdings to further the educational needs of museums around the world.

Online

- **Lincoln at 200** – This website hosts two online exhibitions, *Lincoln & the West: 1809–1860* and *The Fiery Trial: Abraham Lincoln and the Civil War*. Collectively they present and interpret hundreds of key Lincoln artifacts.
- **Louis Sullivan at 150** – Audio recordings of presentations given at the 2006 *Louis Sullivan at 150* International Symposium, held at the Chicago History Museum
- **The Great Chicago Fire and the Web of Memory** – This online exhibition focuses on the ways in which the Great Chicago Fire of 1871 has been remembered.
- **The Dramas of Haymarket** – *The Dramas of Haymarket* examines the circumstances and the legacy surrounding the 1886 Haymarket bombing. The Haymarket Affair Digital Collection provides on-line access to primary source materials.
- **Wet With Blood** – *Wet With Blood* focuses on an artifact found in the Chicago History Museum's collection, a cloak allegedly worn by Mary Todd Lincoln on the evening of her husband's assassination in April 1865.
- **Studs Terkel** – The Studs Terkel *Conversations with America* website is dedicated to making the works of Studs Terkel accessible to researchers, students, teachers, and the general public.
- **The History Files** – The *History Files* website provides rich detail about a number of popular topics in Chicago history, including Al Capone, the "Chicago Black Sox," the Expositions of 1893 and 1933, the Great Chicago Fire of 1871, the Pullman Era, and the Chicago Stockyards.
- **Architecture and Building History Online Resources** – The Research Center holds a rich body of online architecture and building history resources.
- **Family History Online Resources** – The Research Center has online resources that can help in researching Chicago family history.
- **Online Catalog** – The Museum's online catalog can help you find manuscripts cataloged since the mid-1980s, books and periodicals, photographic materials, and digital images of selected collection materials, such as the *Chicago Daily News* glass negatives.
- **Electronic Encyclopedia of Chicago; Email Research Queries and Collection Requests; Museum Blog** – See entries under "High School; College – Online."

Graduate; Professional Education

On Site

- **Educator Programs** – Professional development programs for K-8 and high school teachers provide rich and unique experiences with history. Teachers learn about curriculum, network with other teachers, and earn Continuing Professional Development Units (CPDUs). Programs include teacher workshops, teacher seminars, teacher open houses, teacher fairs, and teacher conferences. The Museum works with a Teacher Advisory Board.
- **Custom In-Service Programs** – Upon request, the Museum offers custom in-service programs for professional development for K-8 and high school teachers.
- **Teaching American History** – CHM works as a partner organization on local Teaching American History grants and as a destination for out-of-state school districts. These grants are part of a federal program, serve elementary through high school teachers and focus on increasing content knowledge in history. CHM distributes resources, conducts interactive workshops, and offers gallery experiences, online resource orientations and research sessions for the teachers who participate in these grants. We work closely with the organizing districts to tailor our offerings to their particular focus of study. We work with an American History Advisory Panel.
- **Research Orientations** – Research Center staff members provide on-demand orientations for college/university students and instructors. We describe the collections, demonstrate databases, and display examples of the types of materials that can be consulted by researchers and give examples of the uses made of all of this information.
- **Urban History Seminar** – Historians and other academic professionals speak to their peers at a monthly meeting, which includes a cocktail hour, dinner, and a presentation. The genesis of the program was to provide a neutral ground where local academic historians could discuss their work freely with each other and hear about the latest research in the field.

- **Behind-the-Scenes Tours** – We offer behind-the-scenes tours for teachers, other non-profit professionals, and peers from other museums. Typically they receive a tour of some of the collection storage areas, as well as the museum's permanent exhibitions.
- **Together for History** – Annual conference hosted by the CHM for staff and board members of greater Chicago's over 150 history museums and historical societies.
- **Summer Intern Program** – Program for graduate students throughout the Museum's departments.
- **Year-Around Intern Program** – Program for graduate students in certain departments.

Extension

- **Graduate School Courses** – The Museum staff members sometimes teach graduate school courses, either as adjunct faculty or as guest speakers.

Online

- **History Around Town** – The CHM posts what is regarded as the most definitive listing of Chicago's history museums and historical societies in greater Chicago as a service to community and professional education.
- **Email Research Queries and Collection Requests; Museum Blog** – See entries under "High School; College – Online."

DuSable Museum Educational “Catalog”

Pre-School; K-8

On Site

- **Field Trips** – The Museum presents fun-filled, content-rich experiences for students from pre-K to grade 12.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.
- **Treasure Hunt** – The DuSable Museum Treasure Hunt is a fun, hands-on document that inspires participants to travel through DuSable’s galleries in a search to find the answers to intriguing questions.
- **Self-Guided Tour Notes** – In the event that museum docents are unavailable, DuSable Museum’s Guest Services and Education Departments have created the self-guided tour notes for independent museum investigation.
- **Mobile Museum** – DuSable Museum’s Mobile Museum is a traveling learning environment that helps youngsters from kindergarten through 6th-grade learn about specific topics such as the explorer, merchant and entrepreneur, Jean Baptiste Pointe DuSable, the Father of Chicago. Museum educators and interactive, hands-on displays help participants learn within a creative environment that explores Jean Baptiste Pointe DuSable from historical, contemporary and personal perspectives. Schedule will begin in January 2011. Call for reservations 773-420-2725.
- **Docent-Led Tours** – Rooted in historical oral traditions, DuSable Museum docents are trained to help enhance each museum guest’s experience by presenting the highest standards in museum interpretation. Docent-led tours range from 45 to 60 minutes, and provide additional context to museum exhibitions while creating an entertaining and informative environment for learning.
- **Penny Cinema** – Penny Cinema is DuSable Museum’s premiere summer family film series that showcases the history, diversity and universality of the African Diaspora. Films range from animated shorts to feature length films and documentaries. Call for reservations 773-420-2725.
- **Making History Come Alive Through the Arts Matinee Performances** – A series of live educational performances, tailored to students in grades K through 12, designed to provide historically relevant subject matter about the lived experiences of Africans and the African Diaspora in an entertaining and informative way. Check website for performance schedule.
- **Storytelling**

Extension

- **Park Voyagers** – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after-school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.
- **Museums and Public Schools (MAPS) Curriculum** – A curriculum collaboration between DuSable Museum, Chicago Park District and all Museums In the Park collaborators.

Online

- **Educational Resources** – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access. On-line resources for this age group include:
- **Making Connections** – DuSable Museum’s online learning resource for grades K – 12. Educators and parents can download lesson plans that relate to many of DuSable’s permanent and traveling exhibitions and which correspond to national standards for education. In addition to lesson plans, Making Connections includes vocabulary words, worksheets and museum field experiences that address subjects such as understanding documents, primary sources, artifacts, etc.

High School; College

On Site

- **Summer Intern Program** – Program for college students throughout the Museum’s departments.
- **Field Trips** – See entry under “Pre-School; K-8 – On Site”.
- **Let Your Motto Be Resistance** – The new National Museum of African American History and Culture is collaborating with the National Portrait Gallery on its inaugural exhibition of African American photographic portraits. Selected by guest curator and photography historian, Deborah Willis, this exhibition explores the medium’s influential role in shaping public identity and individual notions of race and status over the past 150 years.
- In addition, there are other standing exhibits featured on our website for high school and college students
- **Forgotten History Lecture Series** – Lectures scheduled on Thursdays once or twice a month
- **Docent-Led Tours** – Rooted in historical oral traditions, DuSable Museum docents are trained to help enhance each museum guest’s experience by presenting the highest standards in museum interpretation. Docent-led tours range from 45 to 60 minutes, and provide additional context to museum exhibitions while creating an entertaining and informative environment for learning.
- **Making History Come Alive Through the Arts Matinee Performances** – A series of live educational performances, tailored to students in grades K through 12, designed to provide historically relevant subject matter about the lived experiences of Africans and the African Diaspora in an entertaining and informative way.

Extension

- **College Courses** – The Museum staff members teach college courses at education institutions, either as adjunct faculty or as guest lecturers.
- **Making History Come Alive Through the Arts** – Making History Come Alive through the Arts (MHCA) is DuSable Museum’s new initiative to expand the museum’s footprint into the classroom. Working with local, national and international artists, MHCA increases student performance and achievement by developing creative learning experience base workshops and performances to introduce history, culture and the arts that will provide new ways for students, teachers and parents to learn and develop critical thinking concepts led by professional artists to stimulate their creativity and imagination. Schools participating in the MCHA program can sign up for Artist in Residence programs, school assemblies, parent and teacher workshops and live matinee performances at DuSable Museum.

Online

Educational Resources – The Museum develops classroom and field trip resource materials. These draw on the Museum’s collection and are posted online for free teacher’s access.

Families; Life-long Learning

On Site

- **Public Programs** – The Museum offers a rich variety of public programs at the Museum throughout the year.
- **Adult Group Tours** – Staff members are available to give talks to groups.
- **Parent Workshops** – DuSable Museum parent workshops are tailored professional development workshops designed to assist parents on how to use best practice strategies to become more effective participants in their children’s education.
- **Monthly Youth and Family Days** – See website for postings

Extension

- **Speakers Bureau** – Museum staff and consultants are available for on-site presentations around the city addressing a wide range of topics pertaining to African history.
- **Artifact, Document Loan Programs** – The Museum has an on-going program of loaning its holdings to further the educational needs of museums around the world.

Graduate; Professional Education

On Site

- **Educator Programs** – Professional development programs for K-8 and high school teachers

- **Behind-the-Scenes Tours** – The Museum offers behind-the-scenes tours
- **Summer Intern Program** – Program for graduate students throughout the Museum’s departments
- **Year-Around Intern Program** – Program for graduate students in certain departments.
- **Professional Development Workshops and Courses** – DuSable Museum provides the best in professional development experiences that increase knowledge in a wide range of subjects that include but are not limited to:
- Ecology, Underground Railroad, Inventors, Textiles, Using Youth Literature to teach History, Using Art to teach Literacy and History, Migration, and The Art of Storytelling.

- Most workshops provide Credit for Professional Development Units.
- **Educators Open House** – DuSable Museum’s annual educators’ open house affords educators a behind-the-scenes look at permanent and traveling exhibits to increase knowledge and build dynamic curricula.

Extension

- **Graduate School Courses** – The Museum staff members sometimes teach graduate school courses, either as adjunct faculty or as guest speakers.
- **Urban Griot Ambassador Program** – This program instructs educators on how to integrate subject matter into the classroom using the content and resources from our permanent and traveling exhibits.

Field Museum Educational “Catalog”

Pre-School; K-8

On Site

- **Field Trips** – The Museum presents fun-filled, content-rich experiences for students from pre-K to grade 12.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.
- **3D Theater** – Our 3D theater shows films that are related to our collection, our education programs and our temporary exhibits.
- **Tour Guides** – Docents give tours of the museum's exhibitions to school groups and the general public.
- **Student programs** – We provide onsite and offsite programs for students. We offer over 30 different classes. I will send you the catalog for the specific descriptions of each class.
- **Crown Family PlayLab** – This 7,200 square foot science learning center is designed for kids and families 0-8 years old. You can learn more at www.fieldmuseum.org/playlab. In addition to hands-on learning within the center, we offer parent workshops, monthly Family Field Days, workshops for kids, etc. We also use the PlayLab to train early elementary and pre-K educators. We also offer an online parent e-newsletter for CFPL visitors. The CFPL is staffed by education staff.
- **Summer Worlds Tour** – This summer camp is done collaboratively with the Shedd Aquarium and the Adler Planetarium. Designed for ages 5-10, the camp engages kids for one week sessions during which they explore each of the museums.

Extension

Park Voyagers – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after-school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.

Online

- **Educational Resources** – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access. On-line resources for this age group include:
- **Digital outreach programs** – We have over 11 digital media learning projects ranging from kid-created public service announcements to online virtual worlds. I will send you a separate word document with details. Some of these digital programs are hybrid in that they include both in person instruction as well as online interactions.

High School; College

On Site

- **Summer Intern Program** – Program for college students throughout the Museum's departments.
- **Field Trips** – See entry under “Pre-School; K-8 – On Site”.

Extension

College Courses – The Museum staff members teach college courses at education institutions, either as adjunct faculty or as guest lecturers.

Online

Educational Resources – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access.

Families; Life-long Learning

On Site

- **Public Programs** – The Museum offers a rich variety of public programs at the Museum throughout the year.

- **Adult Group Tours** – Staff members are available to give talks to groups.
- **Members' Nights** – Two-night open house for Field Museum Members. Members have an opportunity to go behind the scenes and engage in various educational activities.
- **Adult programs** - We offer lectures, symposia and film festivals for adults. Signature programs include National Geographic Live lecture series, Banff Film Festival, biannual Leakey Lecture, and annual Comer Symposium on Global Climate Change.
- **Dozin' with Dinos** – This overnight program is geared toward families with kids ages 6-12, and runs 10-13 times each year. Families are invited to spend the night at the museum and enjoy workshops, flashlight tours of exhibitions and science demonstrations.

Extension

- **Speakers Bureau** – Museum staff members are available for presentations around the city.
- **Artifact, Document Loan Programs** – The Museum has an on-going program of loaning its holdings to further the educational needs of museums around the world.
- **Family field trips** – The museum offers offsite family field trips to Mazon Creek to collect fossils.

Graduate; Professional Education

On Site

- **Educator Programs** – Professional development programs for K-8 and high school teachers
- **Behind-the-Scenes Tours** – The Museum offers behind-the-scenes tours
- **Summer Intern Program** – Program for graduate students throughout the Museum's departments.
- **Year-Around Intern Program** – Program for graduate students in certain departments.
- **Educator and parent in-services** – We provide customized in-services for faculty at schools. These take place onsite at the museum, and offsite at schools. The topics range, but generally focus on content instruction, pedagogical instruction and instruction on focused field trips, and instruction on how to best leverage the museum's resources. These are year-round. We also offer these in-services for parent groups from partner schools.
- **Educator previews** – We offer free previews of our new exhibitions for educators. During these previews, educators are taught how to use the exhibition and the educator guide (which we write), and they get an exclusive viewing and tour of the exhibition--designed just for teachers.
- **School partnerships** – We have several long-term school partnership programs that focus on professional development for educators, but also serve administrators and entire school communities. I will send you a separate document with details, but the key programs to mention are the Early Elementary Science Partnership, the High School Transformation Project, the Field Ambassador Program, and Museums and Public Schools.
- **Partnership with the Center for Systems Biology at U of Chicago** – We partner with Kevin White and the Center for Systems Biology to train educators and high school students on systems biology and DNA. We hold 2 one-week institutes each summer, one for teachers and one for high school students. This is done as a collaboration between our Pritzker DNA Lab and the Education Dept.
- **DNA residency** – The Education Department and Pritzker DNA Lab work together to provide a 6-week residency for 2 high school teachers and 4 high school students to learn DNA sequencing techniques. They do real science alongside our scientists.
- **Associated Colleges of Illinois Partnership** – We provide museum-based science training for high school students who are part of ACI's partnership program with CPS schools to increase graduation rates.

Extension

- **Graduate School Courses** – The Museum staff members sometimes teach graduate school courses, either as adjunct faculty or as guest speakers.
- **Educational materials** – We develop educator guides to our exhibitions, which can be used by informal and formal educators and park employees. These are freely available for downloading from our website. We also produce classroom posters, interactive websites, scavenger hunts for families, an e-newsletter for parents to use with early elementary students, etc.
- **Harris Educational Loan Program** – This 100-year-old program is a lending library of real artifacts and specimens designed for use by parents and educators to support classroom and at home learning. The

center is also open for use by informal educators like camp counselors, librarians, etc. We have over 100,000 artifacts and specimens arranged in 900 exhibit cases and 1,200 experience boxes.

Museum of Contemporary Art Educational “Catalog”

Pre-School; K-8

On Site

- **Field Trips** – The Museum presents fun-filled, content-rich experiences for students from pre-K to grade 12.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.
- **School Tours** – Led by practicing Artist Guides, guided tours are 50-minutes long and take place Tuesday through Friday at 10 am and 11 am. Tours are discussion and inquiry-based. Artist Guides focus on making relevant connections between students’ lives and art through engaging them in meaningful discussions. Around 8,000 students from diverse neighborhoods in Chicago and throughout Illinois participate in guided tours each school year. Each student receives a free family pass for a return visit. CPS schools receive free bus transportation.
- **Off the Beaten Path** – Offered Friday mornings at 11 am, between 900 and 1,000 students participate in this innovative 90-minute tour each school year. Artist Guides engage students through in-gallery writing and drawing exercises designed to provoke thoughtful dialogue and to help students form deep personal connections with the art of our time.
- **Creation/Design Lab** – Offered four days a week (Tuesday through Friday). Students join a Creation Lab Artist in an in-depth, art making experience during a two-hour visit. Groups spend approximately 30 minutes in the galleries viewing and discussing artworks, followed by 90 minutes in the studios working on a creative response to discussion.
- **Summer Creation Stations** – Taking the themes in our major summer exhibition as a point of departure, these creative, participatory workshops and gallery experiences take place from 11 am-2 pm during the Farmer’s Market and from 5-8 pm alongside Tuesdays on the Terrace. Led by MCA staff and by artists, these activities engage children and also spark the interest of adults.
- **Activity Guide** – The Activity Guide is an additional interpretive tool to help young visitors and their adult companions more meaningfully engage with the artworks in our galleries. Acting as a companion to all major exhibitions, this series of booklets offer self-guided activities and in-gallery games to bring out central themes or ideas present in the exhibition, as well as new ways for families to explore the MCA.

Extension

Park Voyagers – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after-school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.

Online

Educational Resources – The Museum develops classroom and field trip resource materials. These draw on the Museum’s collection and are posted online for free teacher access.

High School; College

On Site

- **Summer Intern Program** – Program for college students throughout the Museum’s departments.
- **Field Trips** – See entry under “Pre-School; K-8 – On Site”.
- **Museum Studies Course** – The MCA partners with the University of Illinois at Chicago to co-develop and teach a graduate-level course as part of the UIC’s museum studies offerings. Taught by a UIC faculty member in collaboration with MCA staff members, the fifteen-week seminar course focuses on the mission and functions of museums as well as the holistic interaction among museum departments. During the course, the MCA serves as a case study, helping students see how issues in museums are implemented in practice. Through readings and assignments, students also analyze various approaches to exhibitions and

collections and critically consider the dynamic realities affecting museums today, including their relationships to various constituencies and the challenges and possibilities that new technologies offer museums and their audiences. Course material emphasizes the American contemporary art field while including substantive discussion of other types of art museums and factors that apply to all types of institutions.

- **Internship Program** – The Museum of Contemporary Art internship program welcomes individuals who wish to broaden their education and professional experience by working and learning in a not-for-profit museum. All MCA departments offer experiential education in a challenging, hands-on environment in exchange for a substantive contribution from talented and interested individuals. MCA interns have the unique opportunity to participate in the development and expansion of these programs and operations. There are three application deadlines and selection periods per year. Internships require a minimum commitment of sixteen hours per week for three months, during which time interns complete a specific target project as well as daily assignments. Interns also participate in departmental meetings, special events, and various educational programs, as well as attend staff lectures.

Extension

College Courses – The Museum staff members teach college courses at education institutions, either as adjunct faculty or as guest lecturers.

Online

Educational Resources – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access.

Families; Life-long Learning

On Site

- **Public Programs** – The Museum offers a rich variety of public programs at the Museum throughout the year.
- **Adult Group Tours** – Staff members are available to give talks to groups.
- **Coffee and Art** – A new discussion-based series of art history workshops that take you directly into the MCA's galleries with experts from Chicago's art community for a closer look at how the artworks on view directly relate to other artworks, artists and themes in contemporary art.
- **Tuesday Evening Café Programs** – The MCA offers a range of free and wildly interesting events in the cafe Tuesday evenings from October through April. Museum admission is free to everyone on Tuesdays so come early and visit the galleries and then join us in the café: Doodleganza: the drawing extravaganza, 12x12 The After Party: Celebrate Chicago artists, Cabinet of Curiosities: "Un-lectures" by Chicago artists, and Magical Musical Showcase: Live performances by local musicians.
- **Artist Talks** – Each month on a free Tuesday, the featured artists in the UBS New Artists/New Works exhibition series discuss their work, ideas, and creative trajectory with visitors during these informal evening gallery talks.
- **Curator Tours** – Visitors have a chance to learn more about our exhibitions through these intimate tours led by the curators who organized the projects.
- **Lectures/Panel Discussions/ Symposia** – Through the formats of public conversations, lectures, panels, symposia, gallery talks and other discussion-based programs, we invite our audiences to explore the visual and intellectual complexities of contemporary art and design and their connection to culture and history. Using the MCA's exhibitions, performances and collections as a point of departure, these stimulating programs put our audiences in direct contact with today's most innovative artists, curators, architects, designers, and thinkers. Our goals are to provide context and further elucidate the work on view in our galleries, including the MCA's collection; to connect artworks and the MCA as an institution to a broad conversation of contemporary ideas; and to serve as a place where artists and visitors can meet artists, helping our audiences better understand the ways in which artists think and work. We hold approximately 12-15 programs per year. Attendance varies by program – some fill the theater with 300, others can be in the 100-150 range.
- **Audio Tour** – The audio tour is designed to be yet another interpretive tool available to visitors who wish to know more about the exhibitions and prefer this format. Our goal is to have the curators and artists themselves to speak unscripted about their work when possible, thus providing their own insights into the process behind the exhibition and the individual works of art.

- **Daily Public Tours** – Tours of the MCA’s special exhibitions and collection are given by volunteer docents on a daily basis. Public tours are given on weekdays at 1 pm; weekends at 12, 1, 2, and 3 pm; and Tuesday evenings at 6 pm. Public tours do not require advance reservations and typically last 45 minutes. A public tour can have as few as one visitor and as many as 40-45 visitors. During the last fiscal year, MCA docents served over 7,000 visitors. The MCA’s philosophy is to give interactive tours that combine providing factual information with eliciting visitor comments and questions.
- **Private Group Tours** – Private tours are available during regular museum hours and outside of public hours to corporations, out of town groups and any group not accommodated under the free school tour program. During fiscal year 2008 we provided tours for 5,850 people and 1,500 for pre-paid group admission. All private tours are led by an MCA Senior Museum Educator and 4 artist guides
- **Docent Program** – Currently, 44 volunteer docents conduct the MCA’s public tours. Docents complete an intensive 8-month training program before they are permitted to tour on their own. The training includes modern and contemporary art history, touring techniques, and 3 months of touring with a docent mentor. After becoming active, docents receive ongoing exhibition training (about 10 sessions per year) given by educators and curators. Docents are the frontline of the museum, serving as ambassadors who make the artworks accessible and relevant to visitor’s lives.
- **Family Days** – A monthly program that takes place from October through May designed to introduce young children to contemporary art in an interactive, non-threatening environment. This drop-in program takes place from 11 am-3 pm on the second Saturday of the month and is designed for children and their adult companions to explore art and enjoy the MCA together. Themes, featured artworks in our exhibitions and activities change each month. This program draws an ethnically and economically diverse audience from throughout the Chicago region. Families include those where the parents are avid museum-goers and contemporary art and culture lovers, as well as parents who believe that art and museums offer valuable learning opportunities for their young ones, but perhaps they themselves have a relatively low level of experience with contemporary art.
- **Summer Creation Stations** – See entry under “Pre-School; K-8”
- **Emerge** – *Emerge* is a group that supports the education, exhibition, and acquisition programs of the MCA. It’s a convergence of art enthusiasts, collectors, and art patrons who are interested in furthering the mission of the MCA by presenting events with the artists, curators, and leaders impacting today’s contemporary art world. *Emerge* members are able to participate in special and intimate programming including: private curator tours, gallery conversations with exhibiting artists, house collection tours, and the art acquisition process.

Extension

- **Speakers Bureau** – Museum staff members are available for presentations around the city.
- **Artifact, Document Loan Programs** – The Museum has an ongoing program of loaning its holdings to further the educational needs of museums around the world.

Graduate; Professional Education

On Site

- **Educator Programs** – Professional development programs for K-8 and high school teachers
- **Behind-the-Scenes Tours** – The Museum offers behind-the-scenes tours
- **Summer Intern Program** – Program for graduate students throughout the Museum’s departments.
- **Year-Around Intern Program** – Program for graduate students in certain departments.
- **Artist Tour Guides** – Practicing artists lead all MCA school tours and Creation/Design Labs. Artist guides are the key instigators of thought-provoking dialogue among the young people who tour the MCA. They are experts at making relevant connections between students’ lives and art, engaging students in a discussion of works featured in exhibitions. There are currently 11 artist guides.
- **Teacher Workshops** – Lasting anywhere from two hours to a full day, teacher workshops are hands-on, instructional, and generally tied to a current exhibition. They are aimed at giving teachers, with any level of experience and/or knowledge about contemporary art, concrete strategies for integrating art into their classroom practice. We offer 4-6 workshops per year and serve about 25 teachers at each.
- **Summer Teacher Institute** – Intensive professional development held over a two-week period of time. Participants are immersed in the thorough exploration of specific topic(s) through presentations, workshops,

lectures, and discussion. This cross-disciplinary eight-day institute includes encounters with local artists, talks in the museum, and hands-on, artist-led studio projects with an aim towards creating curricula inspired by big ideas inherent in contemporary art. Limited to 20 teachers, it is currently offered exclusively to CPS high school teachers and all academic disciplines are welcome.

- **Open House** – Held annually each fall this is an evening reception for teachers. Educators are given opportunities to preview exhibits, learn about education programs, meet museum staff, and network with peers. Capacity is set at 100 teachers.
- **Biennial Symposium** – This 1-day academic conference is held every other spring and organized around a central theme or topic. The symposium features keynote speakers, lectures, hands-on workshops, and discussion. Capacity is set at 100 teachers.
- **Educator Salon** – This monthly forum is for educators who seek a different type of professional development. Featuring a different theme each month, Educator Salons engage teachers in explorations of timely pedagogical issues, provide access to provocative speakers, and promote an open exchange among peers and colleagues. The MCA invites speakers and audience members alike to participate in lively discourse as they consider the questions and issues related to the specific theme. The Educator Salon is intended to be an intimate gathering for teachers with the goal of creating a supportive professional learning community to explore and share ideas. 40 teachers.
- **Partner School Initiative** – This three-year partnership with a CPS high school places a teaching artist in the classroom to teach a 10- to 20-week residency. The teaching artist and the classroom teacher teach collaboratively; they also jointly develop the curriculum. Additionally, current and emeritus Partner School teachers convene at the MCA three times per year for ongoing professional development.
- **Teacher Pass** – Free year-round museum admission for educators.
- **Family Pass** – Every student who visits the museum receives a family pass for a free return visit.
- **Teacher Advisory Committee** – The MCA's Teacher Advisory Committee is composed of Chicago Public School teachers, suburban teachers, private school teachers, art teachers, non-art teachers, and MCA Education Department staff who work together to create and advise on all aspects of the museum's professional development programs for teachers, as well as the museum's school programs.
- **Think Tank** – Think Tank allows the opportunity to participate in a discussion on the role of contemporary art and cultural institutions with the nation's leading advocate, the National Endowment for the Arts (NEA).

Extension

Graduate School Courses – The Museum staff members sometimes teach graduate school courses, either as adjunct faculty or as guest speakers.

Museum of Science and Industry Educational “Catalog”

Pre-School; K-8

On Site

- **Field Trips** – The Museum presents fun-filled, content-rich experiences for students from pre-K to grade 12. General admission is free for all Illinois school groups and is available at discounted rates for out-of-state school groups. Additional fees are charged for Omnimax® films, special exhibits, the U-505 onboard tour and Learning Labs.
- **Live Science Experiences** – All Museum guests can take part in interactive experiences designed to meet different learning styles. Our newer permanent exhibits foster engagement through guided exploration and facilitated hands-on activities. State-of-the-art laboratories allow you to participate in complex experiments, like dissecting an eyeball to learn about vision. You also can star in a funny play about the digestive system, engage in discussions about current science news, and much more.
- **Learning Labs** – Focused, facilitated, hands-on learning experiences for 3rd-8th grade school groups while visiting on field trips, Learning Labs are multi-disciplinary and align with Illinois State Learning Standards in science. Labs are offered at 10:15 a.m. and 11:45 am, Tuesdays-Fridays during the academic year. Labs cost \$100 to \$120 per session and accommodate 30 students. Learning Lab guides provide vocabulary and pre- and post-visit activities, along with additional resources to extend and enhance the content of each lab. Labs include: Charge! Electromagnetism at Work, Colorful Chemistry, Moving With Newton, Waves: Light and Sound, City Science: Building Bridges, ER/OR, Evidence Lab, Heart Surgery 101, Life Begins, Museum Crime Lab, Renewable Energy: Cars of the Future, Simple Machines, Submarine Lab, Testing the Waters.
- **Bus Scholarship Program** – MSI provides funding for economically disadvantaged schools in the Chicago Public Schools system. The program provides up to two buses per school per year for transportation to and from the Museum of Science and Industry. Schools where a minimum of 51% of the student population qualify for free or reduced-price lunches through the National School Lunch Program are eligible to participate.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.

Extension

- **Park Voyagers** – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after-school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.
- **Science Minors** – The Science Minors series of programs encourages children from diverse backgrounds to discover new interests and skills, prepare for college, and learn about science careers. After-school Science Minors Clubs extend science learning into places where younger students already spend their time after school. The Science Minors and Science Achievers youth development programs provide teens with science knowledge, public speaking skills, and opportunities to prepare for college and careers.
- **Science Clubs** – The Museum partners with schools and community-based organizations to offer young students early, hands-on exposure to science through after-school Science Minors Clubs. Our network of 60 sites in the Chicago area serves about 4,700 students a year. Participating organizations receive science curriculum, training and on-site support, materials for hands-on activities, and a field trip and Family Day at the Museum. The clubs emphasize informal learning that builds curiosity and encourages teamwork.

Online

- **Educational Resources** – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access.

- **MSI Website** – The Museum of Science and Industry has a comprehensive, easy to navigate website. Visit us at www.msichicago.org for classroom activities, resources, field trip information, live science demonstrations, exhibits and much more!

High School; College

On Site

- **Summer Intern Program** – Programs for college students throughout the Museum’s departments.
- **Field Trips** – The Museum presents fun-filled, content-rich experiences for students from pre-K to grade 12. General admission is free for all Illinois school groups and is available at discounted rates for out-of-state school groups. Additional fees are charged for Omnimax® films, special exhibits, the U-505 onboard tour and Learning Labs.
- **Live...From the Heart** (Grades 8-12) – Talk with a surgical team while watching live open heart surgery via videoconference.
- **Learning Labs** – Focused, facilitated, hands-on learning experiences for 3rd-8th grade school groups while visiting on field trips, Learning Labs are multi-disciplinary and align with Illinois State Learning Standards in science. Labs are offered at 10:15 a.m. and 11:45 a.m., Tuesdays - Fridays during the academic year. Labs cost \$100 to \$120 per session and accommodate 30 students. Learning Lab guides provide vocabulary and pre- and post-visit activities, along with additional resources to extend and enhance the content of each lab. Labs include: ER/OR, Evidence Lab, Heart Surgery 101, and Renewable Energy: Cars of the Future.
- **Forensic Field Day** – This daylong program, held twice a school year, invites high school students to work side-by-side with real forensic investigators from Chicago-area police and fire agencies. Students use DNA analysis, forensic anthropology and other lab techniques to process evidence they collect from a crime scene. There is no cost for this program, but space is limited to 24 students in grades 10 – 12 for each session. Student groups must be accompanied by an adult chaperone.

Extension

- **College Courses** – The Museum staff members teach college courses at education institutions, either as adjunct faculty or as guest lecturers.
- **Science Minors and Science Achievers** – These youth development programs allow teens to discover new interests, develop skills, prepare for college, and learn about careers in science and engineering. In the Science Minors program, 14- to 17-year-olds learn about science, develop public speaking skills and earn service learning hours while engaging Museum guests in science activities. Science Minors who have completed 50 hours of volunteer service and are at least 16 can become Science Achievers. They’ll receive advanced science training, gain college and career readiness skills, have paid internships and mentor younger students.

Online

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Families; Life-long Learning

On Site

- **Permanent Exhibitions – NEW EXHIBITS**
 - **Science Storms**, located in Allstate Court, reveals the science behind seven natural phenomena— lightning, fire, tornados, avalanches, tsunamis, sunlight and atoms in motion. Investigate the basic scientific principles behind nature's power as you try more than 50 amazing experiments that take two floors and 26,000 square feet to contain ... barely. It’s a perfect storm of physics, chemistry and curiosity. Each of the exhibit’s interactive experiences complement Illinois and national learning standards in science.

- ***YOU! The Experience***, located in Abbott Hall, examines and celebrates the experience of life itself. Each of the more than 50 interactive experiences throughout the exhibit complement Illinois and national learning standards in science.
- *Fast Forward* is an immersive multimedia exploration of how our future lives are being shaped today. This exhibit spotlights some of today's visionaries working toward a limitless, sustainable future.
- **Temporary Exhibitions**
 - ***Jim Henson's Fantastic World***
Sept. 24, 2010 – Jan. 23, 2011
Requires additional timed-entry ticket.
Get a rare peek into the imagination of Jim Henson – a brilliant innovator and the creator of Kermit, Big Bird and other beloved characters. The exhibit features 100 original artworks, iconic puppets, TV and movie props and original videos and films as it documents Henson's process of "visual thinking." Express your own inventiveness through fun and original hands-on activities.
 - ***Christmas Around the World and Holidays of Light***
Nov. 18, 2010 – Jan. 9, 2011
Learn about cultures from around the world with our traditional celebration of more than 50 dazzling trees and displays decorated by members of Chicago's ethnic communities. Stroll through the trees – including the Museum's grand 45-foot tree – enjoy intermittent "snow" and savor the performances of dance and choral groups.
 - ***Smart Home: Green + Wired***
Through Jan. 9, 2011, re-opens spring 2011
Requires additional timed-entry ticket
Take a first-hand look at eco-friendly living with a tour of Chicago's greenest home. The three-story home showcases the latest innovations in reusable resources, smart energy consumption, sustainable gardens, and healthy-living environments.
- **Omnimax® Films**
Requires additional timed-entry ticket
 - **Ultimate Wave Tahiti**
Through Oct. 26, 2010
Explore the power of waves with champion surfer Kelly Slater in beautiful Tahiti.
 - **Hubble**
Through Jan. 31, 2011
Take an unprecedented voyage through distant galaxies with the first space-based observatory.
 - **Legends of Flight**
Through Feb. 11, 2011
Soar along with pilots in search of the "ultimate flying experience."
- **Public Programs** – The Museum offers a rich variety of public programs at the Museum throughout the year.
 - **Coal Mine Tour** - Step on the hoist and take a narrated ride to the bottom of a mine shaft. You'll examine the evolution of technology used in mining coal, and experience first-hand the work environment of the U.S. mining industry.
 - **U-505 Tour** - The Museum of Science and Industry invites you to step inside the real U-505—the only German submarine in the United States, and, now, a national memorial to the 55,000 American sailors who gave their lives on the high seas in WWI and WWII. Board the U-505 Submarine and experience life aboard this sub first-hand in the days leading up to her capture.
 - **Pioneer Zephyr Tour** - *All Aboard the Silver Streak* invites you to go back in time—to May 26, 1934—as a passenger on the Pioneer Zephyr. You won't want to miss this record-breaking "ride" from Denver to Chicago. On your 20-minute guided tour, you will explore the baggage, smoking, passenger and observation compartments of the Pioneer Zephyr.
- **Live Science Experiences** – Participate in science like never before through a range of live science experiences you'll encounter throughout your visit. From immersive lab activities to facilitated discussions of

current science news, these programs are offered every day at no cost for all Museum guests. Check the Museum map for up-to-date schedules. Highlights include:

- **MSI Hospital** – Try the latest medical technology by diagnosing and treating health problems on a human patient simulator, a computer-driven mannequin used in medical schools.
 - **Poop Happens** – Be the star of a funny, engaging play about the digestive system.
 - **Earth Revealed Live** – Discuss climate change and global weather patterns while viewing near-real-time data on a 6-foot globe suspended from the ceiling.
 - **Dissect an Eye at MSI** – Learn about vision by dissecting a cow’s eyeball.
 - **Happy Brr-thday** – Celebrate the birthday of a scientist with this “cool” program that features balloons, noisemakers and tasty treats all activated with super cold liquid nitrogen.
 - **Bangs, Flashes and Fire** – Feel the ground shake and be awed by the chemistry of fire and ear-splitting explosions.
- **Adult Group Tours** – Staff members are available to give talks to groups.

Extension

- **Speakers Bureau** – Museum staff members are available for presentations around the city.
- **Artifact, Document Loan Programs** – The Museum has an on-going program of loaning its holdings to further the educational needs of museums around the world.

Online

- **MSI Website** – The Museum of Science and Industry has a comprehensive, easy to navigate website. Visit us at www.msichicago.org for classroom activities, resources, field trip information, live science demonstrations, exhibits and much more!

Graduate; Professional Education

On Site

- **Educator Programs** – Professional development programs for K-8 and high school teachers
- **Behind-the-Scenes Tours** – The Museum offers behind-the-scenes tours
- **Summer Intern Program** – Program for graduate students throughout the Museum’s departments.
- **Year-Around Intern Program** – Program for graduate students in certain departments.
- **Institute for Quality Science Teaching** – Professional development coursework provides middle-school teachers with science content and teaching strategies directly relevant to their curriculum. Participants in our academic year courses are eligible to earn a Master of Science Education degree, a middle-school science endorsement, or graduate credit through a partnership with the Illinois Institute of Technology. Our focus is on enabling teachers who are in the classroom today and creating a pipeline of quality teachers who can inspire passion and excitement about science.
- **Professional Development Courses** – Get science content and teaching strategies directly relevant to classroom curriculum. Our courses provide a broad background in science, are designed in accordance with national science education standards, and complement Museum exhibits and resources. Courses are offered at no cost to teachers selected to participate. Academic year courses meet six times during the school year, and summer courses meet over five consecutive days. Through a new partnership with the Illinois Institute of Technology, teachers can earn a Master of Science Education degree or a middle-school science endorsement by taking courses at MSI and IIT. During each course, teachers receive lesson plans and materials to replicate activities back in the classroom. Teachers in the academic year courses also receive a free field trip, which includes funding for a bus and a Learning Lab program for students.

All About You (life science)

Investigate the human body through activities on body systems, genetics, tissues and cells, and medical technology. This course is offered during the 2010-11 academic year for six graduate credits.

Get Re-Energized (physical science)

Explore concepts related to energy such as energy transformation and conversion, potential and kinetic energy, light, heat, electricity and more. This course is offered during the 2010-11 academic year for six graduate credits and in summer 2011 for three graduate credits.

Our Place in Space (Earth and space science)

Investigate the forces, processes, cycles and patterns that affect our planet and other celestial bodies in our solar system. This course is offered in summer 2011 for three graduate credits.

City Science (environmental science)

Discover science in the city with activities focused on city ecology, renewable energy, city planning, and buildings and structures.

- **Teacher Workshops** Our half- and full-day workshops provide resources, information and inspiration. These programs are offered at no cost and provide continuing professional development units (CPDUs).

Climate Change Teacher Workshop

Sept. 18, Sept. 25 and Oct. 30, 2010

Gain information, classroom activities and resources to teach about climate change as you prepare your students to participate in an international videoconference summit on March 5, 2011. Students will share their research and ideas as they are challenged to explore their beliefs through the eyes of people from different cultures. This program is provided in partnership with the Antarctic Geological Drilling project and National Oceanic and Atmospheric Administration.

MSI 101

Curious about what the Museum offers for teachers and schools? Join us for an exploration of field trips, teacher professional development programming and standards-based activities that will tie a Museum visit to your classroom instruction.

Extension

- **Educator Programs** – Professional development programs for K-8 and high school teachers
- **Graduate School Courses** – The Museum staff members sometimes teach graduate school courses, either as adjunct faculty or as guest speakers.
- **Master of Science Education Degree** – The Museum of Science and Industry has partnered with the Illinois Institute of Technology's Mathematics and Science Education Department to develop a new program that offers a Master of Science Education degree as well as a middle-school science endorsement. MSI offers six science content courses that provide a broad background in science: life science, physical science, environmental science, and earth and space science. IIT provides five middle-school pedagogy courses. Program completion requires 11 courses (33 graduate credit hours). Courses are priced at \$400 per credit hour. Admission criteria include:
 - Bachelor's degree in science or education. Candidates with degrees in related fields are eligible provided they have a documented, successful experience working with school-age youth.
 - Minimum GPA of 3.0 / 4.0 (course work completed within seven years of admission).
 - Professional statement and letter of recommendation.

The MSI/IIT partnership offers two other options as well: a middle-school science endorsement of 8 courses (24 graduate credit hours), or MSI science courses for graduate credit. The program begins with MSI courses, which are offered during the academic year and in the summer. Visit www.msichicago.org/education or contact Nicole Kowrach at nicole.kowrach@msichicago.org for more information.

Go to msichicago.org or call 773-684-1414 for current schedules and more information on specific programs

National Museum of Mexican Art Educational “Catalog”

Pre-School; K-8

On Site

- **Field Trips (Tour + Activity)** – The Museum presents fun-filled, content-rich experiences for students from pre-K to grade 12. Groups who tour the exhibitions can choose to participate in a hands-on art workshop that relates to the works of art in the exhibition. The Museum offers more than ten workshop options at a time. Educators lead more than sixty Tour + Activities annually.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.
- **Art Demonstrations** – Each Fall, students who visit the museum have the opportunity to learn about different art and folk art techniques directly from artists and artisans from Mexico. During this special time, students can also participate in art workshops with the guest artists.
- **After-School Music Classes** – In partnership with the Chicago Symphony Orchestra, the Museum hosts one annual after-school music course for children. The program incorporates family concerts at the Museum and the CSO.
- **Children’s Art Classes** – Children ages 7-11 can participate in three art courses a year. These classes are held on Saturday mornings and introduce students to various art techniques and artists.
- **Bilingual Summer Camp** – The Museum offers a bilingual summer camp for children ages 7 to 11. This full-day camp is held during the month of July and introduces students to visual art, theater, and dance.
- **Summer Art Classes** – The Museum offers special 2-hour art classes for children ages 4-6 during the month of August. These classes are offered over two consecutive weeks. Classes focus on visual art and music.
- **Family Nights** – Families of students who participate in after-school programs visit the Museum twice a year and exhibit their work or perform in front of a few hundred attendees.
- **Art @ Community** – Museum educators attend at least ten family or community events and offer a cultural hands-on activity to participants

Extension

- **Park Voyagers** – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after-school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.
- **Arte Ambulante** – Art educators lead more than twenty workshops each school year at various classrooms in the Chicagoland area. Participating students can learn about different art techniques and aspects of Mexican culture.
- **Art Residencies** – In recent years, art educators and resident artists participate in artist residencies which include the creation of a work of art as well as a Professional Development component. A minimum of five residencies are conducted annually.
- **After-School Art Classes** – Since 2004, the Museum’s Education Department has been offering after-school art classes in several public schools. Currently, the Museum coordinates nine different art classes in four Chicago public schools.
- **Day of the Dead @ Navy Pier** – In the fall of 2009, the Museum coordinated a Day of the Dead exhibition at Navy Pier for visitors and large school groups. Five artists also conducted demonstrations and workshops for hundreds of students.
- **Pilsen Education Summit** – The Museum’s Education Department is a planning collaborator with the Pilsen Education Task Force. Museum educators conduct art workshops for Pilsen’s Parent Education Summit. *(Held at Benito Juarez High School)*

Online

Educational Resources – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access.

High School; College

On Site

- **Field Trips (Tour + Activity)** – See entry under “Pre-School; K-8 – On Site”.
- **Summer Intern Program** – Program for college students throughout the Museum’s departments.
- **Family Nights** – See entry under “Pre-School; K-8 – On Site”.
- **Art @ Community** – See entry under “Pre-School; K-8 – On Site”.

Extension

- **College Courses** – The Museum staff members teach college courses at education institutions, either as adjunct faculty or as guest lecturers.
- **Arte Ambulante** – See entry under “Pre-School; K-8 – Extension”.
- **Art Residencies** – See entry under “Pre-School; K-8 – Extension”.
- **Yollocalli Arts Reach** – Recipient of the Coming Up Taller Award, Yollocalli offers eight different art courses a year for youth ages 13-21. Each course offers approximately 90 contact hours. In addition, Yollocalli also hosts community and family events monthly for participating students and the wider community. (*Held at the Yollocalli studio*)
- **WRTE Radio Arte 90.5 FM** – Recipient of the Coming Up Taller Award, Radio Arte trains dozens of youth ages 13-21 in radio broadcasting. In addition, it hosts many events throughout the year to engage its participating youth in community issues. Radio Arte has also begun serving adults in their education programs. (*Held at the WRTE studio*)
- **Day of the Dead @ Navy Pier** – See entry under “Pre-School; K-8 – Extension”.
- **Pilsen Education Summit** – See entry under “Pre-School; K-8 – Extension”.

Online

Educational Resources – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access.

Families; Life-long Learning

On Site

- **Public Programs** – The Museum offers a rich variety of public programs at the Museum throughout the year.
- **Guided Tours** – The Museum's Education Department offers 45-minute guided tours of permanent and temporary exhibitions to all age groups. During the annual Day of the Dead exhibition, the Museum conducts over 500 school group tours.
- **Parent Workshops** – Museum educators offer parent workshops at the Museum and partner schools. Parent workshops are a big component of the after-school programs as well as independent programs with particular schools.
- **Family Days** – Families have the opportunity to participate in six different family days throughout the year. Children and their parents interact with an exhibition and create a work of art together.
- **Day of the Dead Community Night** – Many of the groups that participate in the exhibition of museum programming as well the overall community participate in this evening event focused on remembrance. Hundreds of community members visit during this special event.
- **Festivals** – Educators can serve up to thousands of children and families per event.
- **Adult Art Classes** – The Museum offers a minimum of three art courses a year to adults interested in learning about particular artists or art techniques. (*Also available at the Yollocalli studio*)
- **Symposia** – During special exhibitions, the Museum offers full-day symposia on special topics such as the Women of Juarez and Immigration.
- **Lectures** – During special exhibitions, the Museum hosts several lectures on some of the topics or artists covered in the exhibitions.
- **Art @ Community** – See entry under “Pre-School; K-8 – On Site”.

- **Target Family Festival** – The Museum will once again host and organize a summer Target Family Weekend, a large family event that includes performances, games, art activities and more.

Extension

- **Speakers Bureau** – Museum staff members are available for presentations around the city.
- **Artifact, Document Loan Programs** – The Museum has an on-going program of loaning its holdings to further the educational needs of museums around the world.
- **Parent Workshops** – See entry under “Families; Life-long Learning – On Site.”
- **Dia del Niño Family Festival** – The Museum just organized its 14th annual Dia del Niño family festival. Since 2004, the festival has offered health resources to the bilingual community as well as exposure to art and culture from various museums and cultural groups from the city. *(Held at the UIC Pavilion.)*
- **Travelling Exhibitions** – The Museum transports two panel exhibitions (Mexican Chicago and The African Presence in Mexico), throughout the Chicagoland area and offers presentations or related programming at the respective sites.
- **Day of the Dead @ Navy Pier** – See entry under “Pre-School; K-8 – Extension”.
- **Pilsen Education Summit** – See entry under “Pre-School; K-8 – Extension”.
- **Conference Presentations** – “Graduate; Professional Education – Extension.”

Graduate; Professional Education

On Site

- **Teacher Workshops** – The Museum also offers several art workshops to teachers through in-house or visiting artists.
- **Behind-the-Scenes Tours** – The Museum offers behind-the-scenes tours.
- **Summer Intern Program** – Program for graduate students throughout the Museum’s departments.
- **Year-Around Intern Program** – Program for graduate students in certain departments.
- **Teacher Professional Development** – The Museum works with several teacher cohorts each year. Participating teachers work on several professional activities such as curriculum, instruction, art and culture integration, visual literacy, evaluation and parental involvement. The cohorts range from early childhood, bilingual education, Spanish as a World Language, Social Studies and Art Education.
- **Curricular and Classroom Resources Development** – Museum educators, coordinators and classroom educators develop several curricular guides and related resources annually. These resources aim to help teachers integrate art and cultural material in the classroom and increase the knowledge and appreciation of art. Professional Development programs are centered on these resources. All curricular guides go through a process of team development, classroom pilot, and educator review and evaluation.
- **Educator Evenings** – The Museum offers one to two special educator evenings annually which introduce teachers to special exhibitions as well as providing tours, demonstrations, and many educational resources.
- **Art @ Community** – See entry under “Pre-School; K-8 – On Site”.

Extension

- **Graduate School Courses** – The Museum staff members sometimes teach graduate school courses, either as adjunct faculty or as guest speakers.
- **Teacher Workshops** – See entry under “Graduate; Professional Education – On Site.”
- **Curricular and Classroom Resources Development** – See entry under “Graduate; Professional Education – On Site.”
- **Day of the Dead @ Navy Pier** – See entry under “Pre-School; K-8 – Extension”.
- **Pilsen Education Summit** – See entry under “Pre-School; K-8 – Extension”.
- **Conference Presentations** – Museum professionals from various departments of the Museum present at many professional conferences and meetings such as the American Association of Museums and the National Association of Bilingual Education.

Peggy Notebaert Nature Museum Educational “Catalog”

Pre-School; K-8

On Site

- **Field Trips** – The Museum presents fun-filled, content-rich experiences for students from pre-K to grade 12.
- **Nature Pals Playgroup** – Bring your 1-4 year old to the Museum each week to engage in stimulating nature play with their young peers. Topics vary monthly.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.
- **Museums and Public Schools** – MAPS is a partnership with the Chicago Public Schools. Several museums work with a specific grade (we have 1st grade) and develop a museum-based curriculum that meets learning standards. It is designed to assist teachers in creating a focused field trip experience. We work with 55 teachers per year.
- **Nature Museum Summer Camps** – Two-week, full-day specialty camps for 4-10 year olds focused on nature topics. Nine different camps occur during the summer separated by topic and age level and serve 190 students.
- **Student Field Trip Workshops** – These are 45- to 90-minute guided programs presented to students visiting the museum on field trips. They are led by museum educators in a museum classroom or exhibit. All content is aligned with the Illinois Learning Standards and museum exhibit content. Approximately 675 such workshops occur each year with 16,000 students participating.
- **Bunking with the Butterflies Overnights** – Seven museum sleepovers are scheduled each year. Two are exclusive for the Girl Scouts and lead to a naturalist badge. The others are for the general public but follow the same format as those for the Girl Scouts. Approximately 175 adults and 525 children participate each year.
- **Home School Workshops on Demand** – Bring your home school group to the Museum for a workshop. Our Custom Home School Workshops are designed to introduce basic ecological principles to your group. Led by Museum educators, these workshops use all the Museum has to offer to help educate participants about the natural environment around us. Through experiential and hands-on learning your group will explore the natural world in an educational framework, with the emphasis on FUN. These student programs can be adapted to meet your group’s needs.
- **Boy and Girls Scout Badge Workshops** – More flexibility for your busy troop with our Workshops On-Demand! You pick the date, time and workshop, and your troop can have an amazingly fun and educational experience at the Nature Museum. Choose from over 30(!) certified badge workshops.

Extension

- **Park Voyagers** – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after-school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.
- **El Valor Science and Technology Summer Camps** – 100 students in the Pilsen and Southeast Chicago neighborhoods participate in these four-week camps. Half of each day is spent learning science content with the other half devoted to learning about technology and using it to communicate the science content learned.
- **GO! Team** – An after-school technology program for girls in the Pilsen and Southeast Chicago neighborhoods. It is conducted at the El Valor Community Centers. There are four 12-week sessions at each site per year - two beginners and two advanced. 120 girls per year participate and learn digital imaging, web development, animation, etc. and use it to communicate nature topics.
- **Science TRIPS** – Science Teaching Resources in Public Schools is a student achievement program that sends a museum educator to a classroom to present a science lesson focused on topics related to the Nature

Museum. The lessons are one hour in length and are essentially "a field trip at your school." About 100 classrooms per year participate with roughly 2500 students receiving the lessons.

- **The Illinois Energy Bike** – The Energy Bike is a human-powered stationary bicycle that allows participants to feel and observe energy. Riders get to experience the difference between powering incandescent and compact fluorescent light bulbs. It is a fun, hands-on learning tool that helps children and adults understand the environmental and economic benefits of energy efficiency. The Energy Bike can be used for classroom presentations and assemblies, afterschool programs, community events, festivals and any other events that promote energy efficiency and sustainable living.

High School; College

On Site

- **Summer Intern Program** – Program for college students throughout the Museum's departments.
- **Chicago Eco-Edventures** – Combine education and recreation as you enjoy the beauty of nature and the excitement of a new adventure. Nature Museum educators assist participants in gaining meaningful insight about the local environment, culture, and natural history of the Chicagoland area. Participants will meet at the Nature Museum and take a bus to the final destination. Transportation, lunch, entrance fees, workshops and guided tours are included in the cost of the program. All trips are led by trained Museum Educators. Many incorporate guided tours by park naturalists and Academy scientists.
- **TEENS** – Teenagers Exploring and Explaining Nature and Science (TEENS) is a paid high school internship program aimed to promote environmental literacy and stewardship through hands-on experiences. Interns develop job and life skills that are applicable to the real world, discover career path options and prepare for college. Participants also complete service learning projects that benefit communities and further the mission of the Nature Museum.
- **Student Field Trip Workshops** – See entry under "Pre-School; K-8 – On Site".

Extension

- **College Courses** – The Museum staff members teach college courses at education institutions, either as adjunct faculty or as guest lecturers.
- **Chicago Eco-Edventures** – Combine education and recreation as you enjoy the beauty of nature and the excitement of a new adventure. Nature Museum educators assist participants in gaining meaningful insight about the local environment, culture, and natural history of the Chicagoland area. Participants will meet at the Nature Museum and take a bus to the final destination. Transportation, lunch, entrance fees, workshops and guided tours are included in the cost of the program. All trips are led by trained Museum Educators. Many will incorporate guided tours by park naturalists and Academy scientists.
- **Science TRIPS** – See entry under "Pre-School; K-8 – Extension".

Families; Life-long Learning

On Site

- **Public Programs** – The Museum offers a rich variety of public programs throughout the year.
- **Nature's Lens** – Discover the gateway to fresh and insightful films focused on sustainability and nature. From arctic animals to electric cars, explore a variety of topics that will connect you to the natural world. Check Museum website for specific information.
- **Adult Group Tours** – Staff members are available to give talks to groups. The most requested tour is the Green Building Tour which provides information about the Museum's solar panels, green roof, rain barrels, compost containers, permeable paver parking lot and several other initiatives that reduce the building's environmental impact.
- **Eco-Crafting** – A series of activities for families encouraging the reuse of materials. The most popular workshops occur during the winter holiday season.
- **Bunking with the Butterflies Overnights** – See entry under "Pre-School; K-8 – On Site".

Extension

- **Speakers Bureau** – Museum staff members are available for presentations around the city.
- **Artifact, Document Loan Programs** – The Museum has an on-going program of loaning its holdings to further the educational needs of museums around the world.

Graduate; Professional Education

On Site

- **Customized Teacher Professional Development Workshops** – Single day workshops of 2 to 4 hours in duration. Schools connect the Nature Museum and request professional development for their teachers. They choose from a menu of content topics we can provide. The workshops can occur at the Museum or at a school. Approximately 400 teachers are served each year.
- **Early Elementary Science Partnership** – Conducted in partnership with The Field Museum, Lincoln Park Zoo and the Chicago Children's Museum. An effort to enhance the practice of science teaching K-3.
- **Science on the Go!** – Science on the Go! is a teacher professional development program that works with teachers over the course of a quarter (primarily in their classroom) to build their confidence and ability to teach science and nature content to their students. Approximately 200 teachers participate each year and museum educators, through visits to these classrooms, see about 5,000 students three times (15,000 contacts). There are 15 distinct curricula that cover a variety of science areas. Curricula are aligned with the CMSI Scope and Sequence and Illinois Learning Standards.
- **Science Teaching Network** – Science Teaching Network provides a three-day content seminar during the summer and 4 full-day reconvenes during the fall. The goal is to train teachers in the effective use of the museum to develop cross-curricular thematic units. Each summer the content changes as does the target group of teachers. Teachers attend in groups of three from the same school to increase the opportunity for collaboration. Approximately 45 teachers participate each year.
- **Teacher Credit Courses** – Three two-day workshops that are presented on a variety of topics. They are always done in partnership with other institutions and provide enough contact for the receipt of one graduate credit by the teachers.
- **TLC Thursdays** – Visit the Teacher Leadership Center each Thursday from September through May to pick up a new activity to bring back to your classroom. Each month will feature a different theme, with a different activity each Thursday.
- **Saturday Science Series** – Each year the Nature Museum offers two exciting workshop series for educators. Each series includes three workshops that can be taken individually or as a group to receive 15 CPDU's, one Lane Credit through Chicago Public Schools, and one optional graduate credit through Aurora University or National Louis University for an additional fee. The 2010-11 series are Fostering Junior Scientists (early childhood science) and Best Practices in Environmental Education.
- **IDNR-ENTICE Workshops** – The Illinois Department of Natural Resources (IDNR) created the Illinois Environment and Nature Training Institute for Conservation Education (ENTICE) with the goal of incorporating long-term, standards-based, natural resource education into Illinois classrooms. Each year the Nature Museum conducts two to three of these workshops. For registration questions, contact the IDNR at 217-534-4126 or dnr.teachkids@illinois.gov.

Extension

- **Graduate School Courses** – The Museum staff members sometimes teach graduate school courses, either as adjunct faculty or as guest speakers.
- **Illinois Butterfly Monitoring Network** – Trains citizen scientists to collect butterfly census data from natural areas in Illinois
- **Artifact, Document Loan Programs** – The Museum has an on-going program of loaning its holdings to further the educational needs of museums around the world.
- **TLC Loan Kits** – A variety of materials are available on loan from the Museum's Teacher Leadership Center. This includes activity kits, videos, and National Geographic Book Kits.

John G. Shedd Aquarium Educational “Catalog”

Pre-School; K-8

On Site

- **Self-Guided Field Trips** – Fun-filled, content-rich experiences for students from pre-K to grade 12.
- **Chicago Park District Day Camp** – A popular program at many neighborhood parks, the summer Day Camp program allows children the opportunity to spend their summer days in a fun and supervised program. Children participate in various recreational and workshop activities in the parks, and also regularly take field trips to the MIP museums, where they are admitted free. Length of camp, ages and fees vary by park.
- **Tots on Tuesdays** – This weekly program is designed for Shedd’s youngest visitors (pre-school aged children). Led by a staff member or interpretive volunteer, Tots on Tuesdays programs incorporate play strategies to connect children and their families to the aquarium’s collection. Games like “Penguin Says” and “Sea Otter Hide and Seek” draw upon familiar games that allow children to access meaning and basic aquatic science principles, i.e., the adaptations, habitat and behaviors of aquatic animals.
- **Camp Shedd** – Children ages 2-7 and their caregivers, teachers or guides can enjoy Camp Shedd, located in the Local Waters gallery. Camp Shedd is an interactive and immersive extension of the exhibit experience incorporating a stationary boat with moveable oars; campsite with tent, cooking stove and camping gear; and an animal encounter stage featuring a turtle pond. On-going programs at Camp Shedd include volunteer-led interpretation and animal encounters featuring local turtles, snakes and birds of prey. The goal of Camp Shedd is to model and encourage a low-impact exploration of the natural world while connecting children to local wildlife.
- **Camp Shedd Playscape** – In the Camp Shedd Playscape our younger guests are immersed in the outdoors, indoors. Camp Shedd’s playful model-landscape fosters the imagination and feeds curiosity about the living world, inspiring these young explorers to learn more.
- **Animal Encounters** – Offered hourly each day, Animal Encounters feature the aquarium’s extensive collection of program animals. These include tortoises, snakes and an aracari (a relative of the toucan) from the Amazon; a red-tailed hawk, barred owl, snakes and turtles found locally; and, living in aquatic habitats around the world, iguanas and other reptiles and invertebrates such as hermit crabs, sea stars and sea urchins. Encounters allow guests an up-close connection to animals and the husbandry staff that care for them. The program reinforces exhibit messages and provides factual information while encouraging emotional connections with animals “beyond the glass” of their exhibits.
- **Dive Presentations** – Dive presentations take place at the Caribbean Reef exhibit in the main floor galleries and at the Schooling Fishes habitat in the Wild Reef exhibit. Presentation specialists deliver on-microphone narration as a diver enters the habitat, feeds the animals and provides basic exhibit maintenance. The Caribbean Reef diver uses a microphone to converse with the audience and the presentation specialist, delivering an interchange that is choreographed with music and lighting effects. Along with providing basic aquatic science information, dive presentations highlight the excellent care Shedd affords its animals.
- **Habitat Chats** – Habitat chats, delivered by a crew of highly skilled presentation specialists, take place at key areas of the museum, highlighting some of Shedd Aquarium’s most popular animals. Beluga whale, sea lion and sea otter chats in the Oceanarium and penguin chats in the children’s exhibit Polar Play Zone describe the connections of these animals to their habitat through adaptation and predator/prey relationships. The chat at Wild Reef’s dramatic 400,000-gallon habitat focuses on sharks and their relatives, debunking popular myths about sharks and revealing the complexity and diversity of these predators and other cartilaginous fish.
- **Gallery Interpretation** – Offering one-on-one or small group interpretations of Shedd’s collection and exhibits are a dedicated corps of interpretive volunteers. Positioned throughout the aquarium, volunteers provide interesting, relevant animal and habitat facts in an engaging manner, often using specimens such as snake sheddings or skulls and reproductions of the collection to supplement their interpretation. Guests are not only more informed about specific aspects of the collection, they are also provided with the tools to further explore the aquarium.
- **Group Overnights** – Eight programs offered annually to cub scouts, girl scouts and other organized groups geared towards K-6. Activities occur throughout the aquarium ending with groups sleeping in the aquarium

galleries. Activities are designed to foster increased knowledge of aquatic environments around the world. Through a unique overnight experience with animals in Shedd's collection, participants are able to develop a richer appreciation and connection to wildlife.

- **K-12 Learning Labs** – Learning labs take place onsite at Shedd and are targeted at classrooms on field trips. Curriculum is aligned to appropriate Illinois learning standards by grade level. Student and teacher learning outcomes include feeling more confident about their ability to do science, including demonstrating increased skills in questioning, observing and investigating, using scientific tools, such as dataloggers, and understanding aquatic science content, such as water chemistry.
- **Shedd Explorers Summer Camp** – Three sessions of 1-week summer camp. Youth engage in interactive environmental education, via a learner-centered approach. Shedd staff is prepared to facilitate investigative experiences around aquatic ecosystems and critical thinking skills. Campers are also encouraged to explore nature first-hand during a number of off-site experiences like canoeing. Previous camp themes include Climate Change and Aquatic Careers.
- **Shedd Explorers weekend program** – A 'mini-summer camp' offered on weekends at various times during the Fall and Spring. These programs are designed as single sessions or multi-sessions connected by theme or topic.

Extension

- **Park Voyagers** – A free, innovative program developed and operated collaboratively by Museums In the Park (MIP) and the Chicago Park District (CPD). It is designed to provide Chicago youth with experiential, educational enrichment in informal settings. The program includes neighborhood-based after-school and evening workshops and facilitated museum visits for children and their families. Activities are targeted towards kids ages 8-10, and their parents and siblings.
- **Great Lakes in My World curriculum boxes** – A partnership with Alliance for the Great Lakes, these aquatic science investigation kits are based on the Alliance's "Great Lakes in My World" curriculum. The discovery boxes include lesson plans and all the necessary resources to guide students through an exploration of the Great Lakes environment. Boxes are available on the following Great Lakes topics: Water (suggested for grades 4–8), Habitats (suggested for grades 3–8), Biodiversity (suggested for grades K–8).
- **K-5 School Outreach** – A great way to begin or end a science unit, these high energy presentations can service an entire school, and bring the Shedd experience to students who may not otherwise participate in a field trip or classroom program. These dynamic programs connect students to Shedd's animals and environments through interactive activities and multimedia. Free family passes are distributed to participants to encourage connecting learning back to a Shedd visit.
- **Summer Worlds Tour** – This weeklong summer day camp takes place at Shedd, Adler and Field. Campers aged 5-10 do hands-on activities related to special exhibits or initiatives at each museum, encouraging them to explore science and natural history and starting them on a path as lifelong museum-goers.

Online

Educational Resources – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access.

High School; College

On Site

- **Summer Internship** – Program for college students throughout the Museum's departments.
- **Field Trips** – See entry under "Pre-School; K-8 – On Site".
- **Animal Encounters** – See entry under "Pre-School; K-8 – On Site".
- **Habitat Chats** – See entry under "Pre-School; K-8 – On Site".
- **Gallery Interpretation** – See entry under "Pre-School; K-8 – On Site".
- **ACCA: Freshwater Ecology** – In conjunction with the Associated Colleges of the Chicago Area, we offer a 3-credit course where students investigate and research the interconnectivity of the roles of water, animals, plants and humans in freshwater ecosystems. Throughout the course, participants will build research skills and work on a project that connects to real world scenarios. Class experiences occur in Shedd's Aquatic Learning Center, exhibits and outdoor locations, each connecting students to freshwater ecosystems and the individual positive impacts they can make.

- **ACCA: Marine and Island Ecology** – In conjunction with the Associated Colleges of the Chicago Area, we provide an introductory course in marine and island ecology. College students earn 4 credits by attending 8-hour classroom sessions, on five consecutive Saturdays at Shedd and 9-day boat trip to the Bahamas. Face-to-face program time is complemented by online learning management courseware as students work towards completion of self-selected research projects.
- **ACCA: Marine Mammalogy** – In conjunction with the Associated Colleges of the Chicago Area, we offer a 3-credit course in marine mammalogy. Students investigate the diversity of marine mammals, including classifications, distribution, feeding habits, physiology, anatomy and reproduction. Conduct an ethogram project and observe animals at Shedd to understand natural behaviors and become familiar with enrichment tools and training techniques used at aquariums.
- **Career Exploration Day** – Offers participants who have advanced through mentor programs a chance to apply for a day in the Marine Mammals or Fishes Departments. Six teens are selected each semester to shadow a staff mentor. Under the guidance of the mentor, participants assist with daily animal care duties such as training, food preparation, record keeping and enrichment sessions. Teens receive a behind-the-scenes look at Shedd's animal care procedures and gain valuable information about careers.
- **Club Shedd** – Program offers a forum for teens to explore all things science and nature. Teens are asked to bring relevant ideas and questions to help us tailor each experience to their personal interests. Through explorations and open discussion teens explore the connections between their lives and nature and discover how they can make a difference in the natural world. The program includes monthly convening at Shedd and an overnight field experience for greater connection to local ecosystems; offered during the fall and spring semesters.
- **Semester for the Great Lakes** – A semester-long program designed for experienced Mentor Program participants who are self-directed learners, active stewards of their environment and have the interest and capacity to act as ambassadors for the natural world. This program addresses Great Lakes conservation through a global perspective and kicks off in August on the 77' two-masted schooner, *Inland Seas*. Over the course of the semester, participants meet key stakeholders, involve their teen peers in local conservation efforts and participate in an online community documenting their personal growth and change in understanding.

Extension

- **College Courses** – The Museum staff members teach college courses at education institutions, either as adjunct faculty or as guest lecturers.
- **Teen Community Programs (i.e. Chicago Math and Science Academy, Austin Business & Entrepreneurship Academy)** – High school students in enrichment programs at each school select conservation projects of interest to them. Students at CMSA have taken on a school-wide recycling project, while ABEA has designed and built a native plants garden on campus. Working with school staff, Shedd staff mentor the students and help them feel more comfortable in natural spaces, provide access to new ecosystems, and challenge them to think critically about natural spaces, conservation and their own impacts.
- **High School Marine Biology (HSMB)** – High School students who are at least 14 years old and have successfully completed at least one high school science course are able to experience the life of a marine biologist. Led by Shedd educators, 20 teens travel to the Bahamas and live aboard Shedd's research vessel, the R/V *Coral Reef II*. The program allows teens to observe and experience life as a marine science researcher by conducting their own field research project.
- **Shedd Stewards** – Shedd Stewards is an opportunity for teens in the Chicago area to learn more about local ecosystems while participating in hands-on stewardship activities. In cooperation with other local organizations, teens will have opportunities to participate in workdays and citizen science projects that contribute to the health and knowledge of these precious areas. If interested, this program allows participants to gain service-learning hours, subject to the project requirements and approval of their high school.

Online

- **Educational Resources** – The Museum develops classroom and field trip resource materials. These draw on the Museum's collection and are posted online for free teacher access.

- **IVS: Oceanography** – This online course connects science content with interactive hands-on activities and resources from Shedd. Themes include underwater exploration through robotics, Great Lakes ecosystems and water quality, aquatic animal adaptations and lifecycles and sustainable practices.

Families; Life-long Learning

On Site

- **Adult Group Tours** – Staff members are available to give talks to groups.
- **Animal Encounters** – See entry under “Pre-School; K-8 – On Site”.
- **Habitat Chats** – See entry under “Pre-School; K-8 – On Site”.
- **Gallery Interpretation** – See entry under “Pre-School; K-8 – On Site”.
- **Adult outdoor programs** – Shedd’s education staff facilitates outdoor experiences, like hiking and canoeing, with the goal of fostering appreciation and connection with local natural environments. Our primary theme is “have fun with nature with low impact or disruption, enjoy silent sports”.
- **Animal Chats** – Shedd Aquarium Chats are observation-based talks about various animals and their natural environments. Interaction is highly encouraged in these short programs as Shedd staff strives to speak largely to our guests’ interests.
- **Beluga Encounters** – Programs start with an informative orientation about training and animal care, the beluga you’ll meet and the best way to have a safe and fun experience. Standing side by side with a trainer on an underwater ledge, you’ll be face-to-face with a whale! Touching the beluga’s skin, and trying a few training techniques will be a part of the experience. You will walk away with a greater appreciation for the animals, becoming a steward for animal education. Guests should feel they have just experienced something unique.
- **Conservation Awareness with Michelle Jost** – Explore an array of critical conservation issues facing the world and how our organizations can play a positive role. Receive information and resources on global and local conservation topics and options for individual institutions to decrease their carbon footprint. Interactive lectures with Shedd professionals will include demonstrations and tours of Shedd’s green side. Off-site field trips to leading Chicago green facilities will exhibit how key concepts can be applied to various types of facilities.
- **Dive Presentations** – Dive presentations take place at the Caribbean Reef exhibit in the main floor galleries and at the Schooling Fishes habitat in the exhibit Wild Reef. Presentation specialists deliver on-microphone narration as a diver enters the habitat, feeding the animals and providing basic exhibit maintenance. The Caribbean Reef diver uses a microphone to converse with the audience and the presentation specialist, delivering an interchange that is choreographed with music and lighting effects. Along with providing basic aquatic science information, dive presentations highlight the excellent care Shedd affords its collection.
- **Eco-Socials** – These programs reinforce the environmental mission of Shedd and serve as opportunities for the eco-conscious community to network, learn, and take action. Each event is themed with a ‘hot topic’. Topics are explored from provocative angles that connect the sustainability of wildlife to various environmentally-based topics. One previous topic was global climate change and its impact on the natural world and wildlife, hosted in conjunction with the National Wildlife Federation. The next session will explore provocative angles of the Gulf Oil Spill tragedy and its impact on wildlife.
- **Green Gardening** – For those looking to develop their green thumbs, Shedd horticulturist Christine Nye provides a hands-on workshop to discover the ecological impacts of various garden practicing. Participants identify native plant species and meet the wildlife they attract. This program involves hands-on experience working with gardens on Shedd’s campus. Each participant receives a “green” garden starter kit.
- **Happy Feet: 4-D Experience** – Journey to Antarctica to meet a lively colony of emperor penguins faced with a diminishing food supply. Mumble sets out on an adventure to appeal to the better nature of humans and tries to reason with them to stop stealing the fish. Using courage and bravery, the banished Mumble soon realizes that his toe-tapping talent isn’t a burden, but a gift to be treasured—and his dancing feet may ultimately save his endangered colony! Featured in digital 3-D and brought to life with 4-D multi-sensory effects, this is an immersive experience for the whole family to enjoy. Learning resource guides are available for teachers.
- **Penguin Encounters** – Programs start with a trainer sharing fascinating facts about Shedd’s penguin population. Then we introduce one of our outgoing penguins and even get to touch its sleek, slick feathers.

This lively program will have our guests walk away with a greater connection and appreciation for the animals, becoming stewards for animal education. Guests should feel they have just experienced something unique.

- **Polar Play Family Breakfasts** – Six programs annually offered during spring and winter months, these animal- or exhibit-themed experiences are designed to engage the family unit in unique gallery or behind the scene experiences. Through a unique experience with animals in Shedd’s collection, participants are able to develop a richer appreciation and connection to wildlife. During the most recent series, participants were able to see a penguin, meet a penguin, and be a penguin. The whole family explored how to raise a penguin chick and conduct a penguin behavior study, just like the professional trainers.
- **Right Bite Cooking Demos** – These cooking demonstrations aim to build a connection between seafood choices and the health of our aquatic ecosystems. By showing easy, healthy, family-friendly recipes that can be prepared in 10-15 minutes, we hope to inspire our guests to try sustainable seafood the next time they are shopping or dining out. We provide printed recipes and seafood wallet cards, which serve as cheat sheets to the “best choices” in seafood.
- **Right Bite Wallet Cards** – Right Bite wallet cards serve as easy, color-coded “cheat sheets” that seafood consumers can use when they are shopping or dining out. The Right Bite programs aim to build a connection between seafood choices and the health of our aquatic ecosystems.
- **“Spooky Seas” & “Wishes for Fishes” Family overnights** – Overnight programming offered throughout exhibit halls, designed for families with children of all ages - ‘Evening Only’ option for families with children under 5. Activities are designed to offer families opportunities to bond within the family unit around basic concepts of nature and wildlife, while gaining knowledge of the importance of keeping healthy environments
- **Trainer for a Day** – This program takes guests behind the scenes to experience what it’s like to be a marine mammal trainer. This immersive experience involves assisting a trainer with daily routines and several training and feeding sessions. From the Oceanarium kitchen, where meals for five-dozen animals are prepared every day, to reserve areas, to poolside in a habitat, participants see what it takes to care for the belugas, dolphins, sea otters, sea lions and penguins. Participants will walk away with a greater connection and appreciation for the animals, becoming stewards for animal education.
- **Underwater Photography** – This program is designed to equip participants with the knowledge and skills of photographing aquatic life underwater with minimal environmental impact to the eco-system. Each cohort completes classroom training, and practices activities off-site in a pool and on-site in the Caribbean reef exhibit.

Extension

- **Speakers Bureau** – Staff members are available for presentations around the city.
- **Artifact, Document Loan Programs** – The Museum has an on-going program of loaning its holdings to further the educational needs of museums around the world.
- **Family outdoor programs** – Shedd’s education staff facilitate outdoor experiences, like fishing and sailing, with the goal of fostering appreciation and connection with local natural sites. Our primary theme is “enjoy the restorative elements of nature with low human impact”.
- **Great Lakes Conservation Outreach** – Shedd Aquarium engages the public face-to-face about Great Lakes conservation and issues via an outreach program at events and festivals, outdoors and indoors, throughout the year. Great Lakes conservation specialists talk to people about what is going on in the Great Lakes right now and what they personally can do to help. Behaviors such as taking shorter showers, using native plants in gardens or not dumping unused bait in waterways are some of things that are discussed. Giveaway items that can be used for Great Lakes conservation, such as five-minute shower timers and rain gauges, are given to each person the Shedd team speaks to. We believe that exposing Great Lakes citizens to the issues affecting sustainability in the region, promoting critical thinking skills, and empowering them to take action are an important component of fostering a more environmentally responsible society. Attitude shifts about Great Lakes issues and the inspiration or intention to engage in behaviors that help the Great Lakes all lead to the impact that Shedd Aquarium strives to make: to change behaviors and practices that lead to a healthier Great Lakes ecosystem.
- **Right Bite Dinner Series/Events** – Four to six programs hosted at local restaurants or at Shedd, highlighting sustainable seafood dinners; for example, special dinner at Naha or sushi making class at Shedd. Shedd staff

facilitates discussion on Shedd's collection, human impact on aquatic ecosystems, and sustainable eating practices. Participants review or receive tools to support increased conservation action.

- **Shedd Conservation Travel** – Eco-conscious adults over age 21 travel aboard Shedd Aquarium's research vessel for a nine-day conservation adventure on land and sea. Throughout this trip, participants are guided by Shedd's education and research staff, through the Exuma Island's reef/island ecosystem. Participants help set the itinerary based on their interests. Activity options include biodiversity and reef surveys, which include a chance to snorkel with schooling fishes, explore mangrove forests and view mysterious underwater caves. All along, participants enjoy the less-traveled Bahamian islands and look for native birds, reptiles and other wildlife during guided walks. Conservation work continues with up close and personal interaction with rare iguanas, and assisting with a day and a half of field research. The program also includes work with an Exumas Cay Land and Sea Park warden on a local stewardship project.

Graduate; Professional Education

On Site

- **Educator Programs** – Professional development programs for K-8 and high school teachers
- **Behind-the-Scenes Tours** – Shedd experts guide will show Shedd from the perspective of our animal care staff. Visiting the animal healthcare center, where preventive care keeps the collection healthy, is just part of the experience. Then participants go behind the galleries to view the animals from a new angle, learn about breeding programs, see nutritious meals prepared for a wide range of tastes and witness the aquarium at work.
- **Summer Intern Program** – Program for graduate students throughout the Museum's departments.
- **Year-Around Intern Program** – Program for graduate students in certain departments.
- **Freshwater Ecology** – Educators team up with scientists and site-specific stewards to explore local environments and learn engaging ways to apply the scientific process. They explore hidden treasures in surrounding ecosystems and discover ways to create immersive opportunities in the classroom.
- **Planet Earth: From Pole to Pole** – Join the Shedd on an epic adventure. Follow the sun as it touches the lives of creatures across the planet, bringing a fresh understanding of how the world is interconnected. From polar bears to emperor penguins, examine how the seasons produce the greatest spectacles on Earth. A learning resource guide is available for teachers
- **Professional Training Seminars** – With more than 32,000 animals, including invertebrates, fishes, reptiles, birds and mammals, Shedd's world-renowned facility offers an extraordinary working environment for these unique professional development experiences. Shedd's experienced professionals facilitate weeklong, interactive, learner-centered trainings for relevant professionals – exploring leading trends in animal training, animal health and environmental conservation.
- **Professional Training Seminar: Animal Training Seminar with Ken Ramirez** – Learn industry-leading animal training techniques, with unique access to Shedd's diverse animal collection. These training methods can be adapted to any species, from marine mammals and a host of terrestrial exotic animals to pet dogs and cats.
- **Professional Training Seminar: Animal Health with Dr. Ilze Berzins** – Discover Shedd's approach to one of the last frontiers of veterinary medicine – aquatic animal medicine. This course will provide an extensive overview of the major groups of aquatic animals found in public aquariums and the programs established to ensure their health. Exclusive tours through Shedd's state-of-the-art animal hospital and hands-on lab work will complete this experience.
- **Teacher Open House** – An annual event for educators of all stripes, this open house showcases the many curriculum-aligned opportunities for teachers and students, from animal encounters and exhibit chats to onsite and offsite learning labs, afterschool clubs and assemblies to teacher professional development. Program participants and educational partners, such as NOAA and the Wilderness Classroom Organization, display how they have used Shedd resources or partnered with Shedd to provide innovative aquatic science programs.
- **Teacher Professional Development Workshops** – Programs vary depending on teacher needs but may include instructional strategies or curriculum-based daylong or multi-day workshops at Shedd or field-based research experiences. Partners vary, but may include National Oceanic and Atmospheric Association, Illinois Department of Natural Resources, Wilderness Classroom Organizations, National Louis University, and more.

All the workshops have learning outcomes related to enhancing science instruction according to research-based best practices.

- **Underwater Robotics** – Professional educators make underwater discoveries with a remotely operated vehicle (ROV). Building their own ROV, conducting field research with it and observing how science, technology, engineering and math can inspire inquiry their students. Each participant receives several hundred dollars' worth of materials and curriculum to share the excitement with their middle or high school class.
- **WIU: Master Courses** – Partnership with WIU for Shedd to serve as satellite class location for their graduate level students

Extension

- **Biology in the Bahamas** – Teachers dive deep into marine environments and scientific research, first in Shedd's classrooms and exhibits, and then in the Bahamas aboard Shedd's research vessel, the R/V *Coral Reef II*. Through hands-on experience, they gain a greater understanding of data collection and analysis, how it applies to current scientific research and how to integrate it into your classroom curriculum.
- **Right Bite Culinary School Partnership** – Shedd seafood experts guest lecture and host onsite field trips for Chicago-area culinary schools to introduce sustainable seafood issues to culinary students while they are learning about seafood and purchasing in the degree programs.
- **West Indian Rock Iguana Research** – The West Indian Rock Iguana Research Program invites adults to join Shedd's iguana researcher in the Bahamas to assist with his annual field research. The program is monitoring populations of endangered *Cyclura* species in South Andros and the Exumas. Participants experience hands-on field research experience and take away a greater appreciation for the complicated issues surrounding species conservation.

Online

- **Discussion guide to Fantasea** – Designed to help educators preview Shedd's aquatic show, Fantasea, and use it again after their visit to make connections to classroom experiences. The downloadable print file can also be projected in classrooms to help educators set expectations for learning and help chaperones to enhance students' connections during the field trip.
- **Shedd Educational Adventures** – An interactive online aquatic science resource for K-12 educators and students. Interactive programs and animal fact sheets virtually connect teachers and students to Shedd Aquarium's diverse collection of animals. Grade-specific lesson plans provide curriculum enhancements and focused field trip support with pre-trip, on-site and post-trip activities. All content aligns with Illinois and national science, language arts and math standards
- **Yukon River Expedition** – A partnership with the Wilderness Classroom Organization, this program invites former education program participants to apply to experience an 8-day, 200-mile paddling trip on the Yukon River in Canada. This boreal forest ecosystem is one of the great wilderness expanses being impacted by negative effects of climate change. The four participants will blog, podcast and document their journey through photos and videos posted to the Wilderness Classroom web site. In turn, classrooms around the U.S. can follow the expedition and learn to appreciate wilderness spaces through this online interaction.