



Einstein

October 17, 2003 – January 19, 2004

See the world through the eyes of a genius. Delve into Einstein's personal life, explore his humanitarian ideals, and understand his groundbreaking work.

Use this guide to plan your field trip to *Einstein*, and to take advantage of Field Museum resources for pre- and post-trip activities for your students.

The American Museum of Natural History in New York also created a wonderful guide for the *Einstein* exhibition with ideas for your classroom. Check out their Web site at www.AMNH.org/Exhibiton/Einstein.

Advanced Teacher Visit

The Field Museum recommends (when possible) that teachers preview the *Einstein* exhibition before bringing their students. To make planning easier, the Museum offers free basic admission to teachers (identification required) when they come separately from their field trip group. A specially ticketed exhibition, *Einstein* is \$7.00.

Field Trip Information & Student Classes

Enjoy a personal tour by *Einstein* curator Dr. Michael Shara with the **Curator's Audio Tour**, produced by Antenna Audio. Stop at exhibition highlights and hear scientific experts explain Einstein's theories and offer insights into his life. Pre-register for the audio tour when you schedule your field trip and receive a \$2 discount. Tours are \$5 for general admission and \$3 per person for pre-registered school groups.

Illinois State Goals related to the *Einstein* Exhibition

The *Einstein* exhibition is recommended for middle and high school students.

English Language Arts

State Goal 1 Reading
State Goal 5 Research

Math

State Goal 8 Algebra & Analytical Methods
State Goal 9 Geometry

Science

State Goal 11 Inquiry & Design
State Goal 12 Concepts & Principals
State Goal 13 Science, Technology and Society

Social Science

State Goal 14 Political Systems
State Goal 15 Economics
State Goal 16 History
State Goal 17 Geography
State Goal 18 Social Systems

Field Trip Information & Student Classes

Advance registration is required for the *Einstein* exhibition and all student classes. Download a field trip registration form at www.fieldmuseum.org/education/registration

All pre-registered Illinois school groups receive free admission into the Museum. Specially ticketed exhibitions, such as *Einstein*, are free to all Chicago Public Schools; all non-CPS Illinois schools are \$4.00 per person. Payment is due 30 days in advance of your visit or with your registration form if your visit is less than 30 days away. Reservations are not accepted less than 14 days prior to visit.

Cost to see *Einstein* for pre-registered non-Illinois school groups is \$9.00/student and \$13/chaperone. This price includes general museum admission.

For more information on how to register call 312-665-7500.

Student Classes

Exploring Einstein's Life and Theories

(Grades 7-12) Learn more about how Einstein changed our understanding of the universe. Work with a physicist on easy-to-create experiments that demonstrate Einstein's theories.

Tuesday, November 4, 2003

10:30 am – 12:30 pm

NOTE: Includes exploration of *Einstein* exhibition

Cost is \$3 per CPS student, \$4 for non-CPS.

Pre-Registration Required

Exploring Einstein's Universe

(Grades 7-12)

Thursdays, December 12, 15, 18, 2003;

January 15, 2004.

10:00 am – 1:00 pm

NOTE: Includes 30 minutes for lunch and exploration of Einstein exhibition.

Cost is \$3 per CPS student, \$4 for non-CPS

For more information about *Einstein* Student Classes, please call 312-665-7500.

Bring the Treasures of The Field Museum Right Into Your Classroom!

Find great resources at the **Harris Educational Loan Center**. From exciting multi-media to hands-on activities created by Field Museum educators and scientists to portable exhibit cases drawn from our vast collections, the Harris Educational Loan Center offers a whole library of resources to spark your students' curiosity, reinforce concepts, and integrate field trips into the classroom.

Come explore the resources we've identified below that are adaptable for all grade levels and will help connect ideas and concepts to the *Einstein* exhibition. These are unique resources you won't find anywhere else, and it's a fun, innovative way to teach!

For more information call 312-665-7555 or visit www.fieldmuseum.org/education/harris_loan.htm

Experience Boxes

Our interdisciplinary experience boxes support State Standards and are complete, all-in-one boxes that include educator guides, books, videos and a variety of hands-on adventures!



NEW! Renewable and Nonrenewable Energy. This box will help communicate awareness about **renewable and nonrenewable energy**. Einstein's most famous equation, $E=mc^2$ helps explain what fuels a variety of physical phenomena including the Sun. Both introduce efforts of The Field Museum to conserve and promote clean and renewable energy sources. Intermediate through upper grades.

New! Underground Adventure: Underground Science Explorers. Use the scientific method to discover the underground world around you! Includes **scientific tools** used to collect specimens and do field research on soils. Compare and contrast your methods with those that Einstein used to make his discoveries. **A good introduction to careers in science.** Middle school and higher.

Patterns in Nature. Einstein's Special Theory of Relativity asserted that the speed of light is a universal constant. See how the natural world is full of amazing universal designs. Use math skills to discover the **pattern and symmetry** in the world around us. Primary school and higher.

Audiovisual Materials

PBS Science Explorer Video Tapes

Einstein was a theoretical physicist who used mathematics to formulate models, or representations, of his thought experiments. While some scientists work in labs or in the field, some scientists like Einstein used their minds and imagination to conduct experiments. See how the following videos demonstrate different methods of experimentation to unlock information.

Beyond the Looking Glass. Learn about **virtual reality**, a tool that helps architects build houses and scientists make new discoveries.

Catching the Sun. Scientists go into the depths of a South Dakota gold mine to capture the **sun's neutrinos**.

On-line Teacher Extensions at the Field

A brilliant and imaginative thinker, *Einstein* revolutionized our ideas of space, time, light, and motion. Einstein exemplified the passionate curiosity and drives to understand the universe that all scientists share. The following special websites show how The Field Museum scientists are exploring our world in the areas of Anthropology, Botany, Geology, and Zoology.

The Field Museum's Women in Science

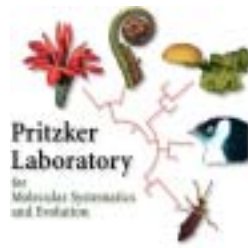
The Women in Science website was created to help increase awareness of careers in science, to foster understanding of the people who practice science, and to encourage young people to pursue individual areas of interest. Explore Women in Science and their contributions that have shaped the world around us.

www.fieldmuseum.org/exhibits/exhibit_sites/wis/main_page.htm



"The Year of Biodiversity and Conservation." To help increase awareness of biodiversity, The Field Museum is dedicating this school year to help educators. This site also offers Educator guides to help teach biodiversity.

www.fieldmuseum.org/biodiversity



The Field Museum's Pritzker Laboratory is dedicated to genetic analysis and preservation of the world's biodiversity. The lab provides researchers with state-of-the-art equipment in molecular biology, enabling them to pursue the study of genetic diversity throughout the tree of life and at all taxonomic levels, from relationships among populations to classes and phyla of organisms. Like Einstein, our scientists explore world-changing theories and explore technology.

www.fieldmuseum.org/research_collections/pritzker_lab/pritzker/index.html

Public Programs

Explore the mysteries of black holes, Einstein's FBI file and more through dynamic speaker events. Have fun with Einstein's theories in our hands-on family workshops. For more information visit

www.fieldmuseum.org/education/family_adult.htm

Learn more about the *Einstein* exhibition by visiting the American Museum of Natural History Web site at www.amnh.org/einstein

Credits:

Einstein was organized by the American Museum of Natural History, New York; The Hebrew University of Jerusalem; and the Skirball Cultural Center, Los Angeles.

Einstein is made possible through the generous support of Jack and Susan Rudin and the Skirball Foundation, and of the Corporate Tour Sponsor



Teacher Programs

The Field Museum
1400 S. Lake Shore Drive
Chicago, Illinois 60605
Phone 312-665-7513 Fax 312-665-7401
Email: mgarcia@fieldmuseum.org
www.fieldmuseum.org

FIELD TRIP REGISTRATION FORM

Fall 2003

Fax to 312.665.7501

ONE

Group leader: _____ Phone number: _____

School name: _____

School address: _____

City: _____ State: _____ Zip: _____ Fax: _____

Grade level of school (example K-6 or 6-8): _____ Subject taught: _____

Grade level of your class: _____ Number of children: _____ Number of chaperones*: _____

School type: Public Private Parochial Other (Home school, community groups, day camps, etc.) Field Ambassador School MAPS School

* Required: 1 adult for every 5 students in grades Pre-K-2; 1 adult for every 10 students in grades 3-12. Teachers are included in these ratios.

TWO

Day of visit (provide both day and date)

First choice: _____ Second choice: _____ Third choice: _____

Time of arrival: _____ Time of departure: _____

Museum hours are 9am-5pm. Last admission at 4pm. Please Note: Check your school calendar to avoid scheduling visits on holidays or in-service days.

THREE (Optional)

Availability is limited and advance registration is required for the exhibitions and programs listed below.

Special Exhibitions You Plan to Visit. See back for admission fees. Your exhibition entry time will appear on your confirmation letter.

- Underground Adventure ongoing Einstein (suggested for middle and high school students) October 17-January 19

Student Classes

Maximum: 40 students. 3-5 chaperones required.

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Journey of an Artifact (Grades 4-6)
Select Wednesdays, 11am-1pm
\$100 per class | <input type="checkbox"/> Egypt Unwrapped (Grades 3-8)
Mondays and Thursdays,
10am-1pm
\$3 per CPS student,
\$4 for non-CPS | <input type="checkbox"/> Africa's Beat (Grades K-3)
Mondays and Thursdays,
10am-noon
\$3 per CPS student,
\$4 for non-CPS | <input type="checkbox"/> Adventure Underground (Grades 1-8)
Mondays and Thursdays,
10am-1pm
\$3 per CPS student,
\$4 for non-CPS |
| <input type="checkbox"/> World Clay Workshop: Dinosaurs! (Grades 4-6)
Friday, Oct. 24, 10-11:30am
\$4 per student for the first
20 students, \$5 each additional
student (chaperones/teachers free) | <input type="checkbox"/> World Clay Workshops: Egyptian Tablets! (Grades 7-8)
Friday, Oct. 24, 11:45-1:15pm
\$4 per student for the first
20 students, \$5 each additional
student (chaperones/teachers free) | <input type="checkbox"/> Exploring Einstein's Universe (Grades 7-12)
Thursdays, Oct. 23, Oct. 30,
Nov. 6, Nov. 13, Nov. 20, 2003;
Jan. 15, 2004
10pm-1pm, includes 30 min.
for lunch
\$3 per CPS student,
\$4 for non-CPS | <input type="checkbox"/> It's All Relative (Grades 7-12)
Nov. 4, 10:30am-noon
\$3 per CPS student,
\$4 for non-CPS |

Field of Wonder Workshops

(Grades Pre-K-2) Weekdays at 10:15 and 11:15am. Maximum: 30 students. 6 chaperones required.

- Stories Around the World (Circle one theme): Hands-on Natural Science
- Africa
 - Latin America
 - North American Indians
 - Northwest Coast

Guided Exhibition Tours

Maximum: 30 students. 3-5 chaperones required

- | | | | |
|--|---|---|--|
| <input type="checkbox"/> Indigenous Peoples of North America (Grades 2-12)
Monday through Friday
10:30am and 11:30am | <input type="checkbox"/> Northwest Coast Indians and Eskimos (Grades 4-12)
Monday
10:30am and 11:30am | <input type="checkbox"/> Ruatapu, Maori Meeting House (Grades 4-12)
Mondays and Thursdays
10:30am and 11:30am | <input type="checkbox"/> All Things Living: Explore Biodiversity (Grades 5-12)
Thursdays and Fridays
11:30am |
| <input type="checkbox"/> "If These Animals Could Talk" (Grades 2-4)
Thursdays and Fridays
10:30am | <input type="checkbox"/> Ancient Egypt (Grades 6-12)
Monday through Friday
10:30am and 11:30am | <input type="checkbox"/> Africa (Grades 4-12)
Monday through Thursday
10:30am and 11:30am | |

The Field
Museum

FOUR

Special Programs *i.e. Workshops, Lectures and Performances:*

Lunch Plan (check one)

- We are not staying for lunch.
- We would like to request lunch space in the Siragusa Center at The Field Museum.

Reservations for lunch room space are required, whether you bring your own lunches or order lunches at the Museum. Reservations are available Monday through Friday. Space is limited and requests are filled in the order they are received. Confirmation of scheduled lunch time and information for purchasing lunch will appear in your confirmation kit.

FIVE

If any of your students have special needs (i.e. wheelchair, etc.) please let us know here. _____

SIX

Admission Prices

Payment is due 30 days in advance of your visit, or with your registration form if your visit is less than 30 days away. Reservations are not accepted less than 14 days prior to visit.

Costs for **Pre-registered Illinois School Groups**

<p>Basic Admission:</p> <p>Students FREE</p> <p>Chaperone and teachers within adult/student ratio FREE</p> <p>Additional chaperones/teachers \$9.00*</p> <p>Bus Drivers (on day of trip) FREE</p> <p><small>*All teachers and chaperones in excess of the required adult/student ratio are subject to admission fees. Pre-registered teachers and chaperones are eligible for discounted group rates (listed above); those who are not pre-registered must pay full admission on arrival.</small></p>	<p>Specially Ticketed Exhibitions:</p> <p>Underground Adventure</p> <p>FREE for all Illinois school students, teachers and chaperones within the adult/student ratio. Additional chaperones/teachers: \$13.00 (includes Basic Admission)</p> <p>Other specially ticketed exhibitions (such as <i>Einstein</i>)</p> <p>Chicago Public Schools: FREE</p> <p>Non-CPS schools: \$4.00 per person</p>
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Costs for **Pre-registered Non-Illinois School Groups**
Net rates available for professional tour operators. Call (888)-FIELD-85.

<p>Basic Admission:</p> <p>Students \$6.00</p> <p>Chaperones and teachers within adult/student ratio: FREE</p> <p>Additional chaperones/teachers: \$9.00*</p> <p>Bus Drivers: FREE on day of trip</p> <p><small>*All teachers and chaperones in excess of the required adult/student ratio are subject to admission fees. Pre-registered teachers and chaperones are eligible for discounted group rates (listed above); those who are not pre-registered must pay full admission on arrival.</small></p>	<p>Specially Ticketed Exhibitions:</p> <p><i>Einstein and Underground Adventure</i></p> <p>Chaperones included in the adult/student ratio will be charged \$7.00 for each special exhibition ticket. Admission for additional chaperones is outlined below.</p> <p>Basic Admission + 1 ticketed exhibition: \$9.00/student; \$13.00/chaperone.</p> <p>Basic Admission + 2 ticketed exhibitions: \$12.00/student; \$15.75/chaperone</p>
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SEVEN

I understand that I must bring 1 adult chaperone for every 5 students in grades Pre-K–2 and 1 chaperone for every 10 students in grades 3–12. I will keep students under adult supervision while they are in the Museum. I realize that failure to adequately supervise the individuals within my group may result in the group being asked to leave the Museum.

Group Leader's Signature: _____

INCOMPLETE APPLICATIONS CANNOT BE PROCESSED AND WILL BE RETURNED.

Mail to The Field Museum, School Reservations Office, 1400 S. Lake Shore Drive, Chicago, Illinois 60605. Or fax to (312) 665-7501. If you must cancel or make changes to your visit, please call us at (312) 665-7500. Refer to your confirmation kit for further details.

PLEASE ALLOW UP TO TWO WEEKS FOR YOUR REGISTRATION FORM TO BE PROCESSED. YOU CAN SCHEDULE YOUR FIELD TRIP UP TO ONE YEAR IN ADVANCE. RESERVATIONS ARE NOT ACCEPTED LESS THAN 14 DAYS PRIOR TO VISIT.

Would you like to receive information about other Museum events and resources at your home address?

Name: _____

Home Address: _____

City: _____ State: _____ Zip: _____

Note: Field trip confirmations will be sent directly to school address. **Page 2 of 2**

