

Section 2

Earth Science Week 2003

Highlights

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SPECIAL UPDATE: President Bush's Earth Science Week 2003 Message

(Posted 10-11-03)

This update was originally sent out as an e-mail message to AGI's member societies.

The following presidential message was released by the White House in recognition of Earth Science Week 2003, which extends from October 12th to 18th. The message joins proclamations issued by numerous state governors and city mayors.

AGI thanks President Bush for this statement and thanks all the geoscientists who have organized the many Earth Science Week activities going on across the United States and around the world.

THE WHITE HOUSE
Washington

October 10, 2003

I send greetings to those celebrating Earth Science Week 2003, sponsored by the American Geological Institute.

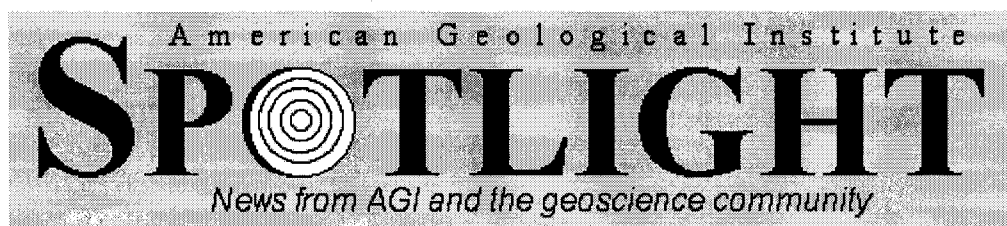
Earth Science Week provides an opportunity to recognize our progress in conservation through environmental stewardship and the contributions of geologists, geophysicists, and other environmental scientists. These professionals help preserve our natural resources, protect our health, keep us safe from natural disasters, and increase our appreciation for the Earth's beauty.

This year's theme, "Eyes on Planet Earth," highlights the importance of monitoring the environment and caring for it wisely. On July 31, 2003, the United States hosted the first-ever Earth Observation Summit in Washington, D.C., where participants discussed a 10-year goal of creating an international, integrated, comprehensive, and coordinated Earth observation system.

I applaud dedicated scientists and students in Earth science and technology for their efforts to learn more about this important field. I also commend educators, parents, and all those who help raise awareness about our planet. Your efforts help us become better stewards of our precious natural resources.

Laura joins me in sending our best wishes.

George W. Bush



FOR IMMEDIATE RELEASE
April 21, 2003

Contact: Cindy Martinez (703) 379-2480
E-mail: cmm@agiweb.org

AGI Announces Theme and Kick-Off Activities for Earth Science Week 2003

ALEXANDRIA, VA — The American Geological Institute (AGI) has officially initiated planning for Earth Science Week 2003 by announcing this year's theme, "Eyes on Planet Earth: Monitoring Our Changing World." Earth Science Week 2003 will be celebrated October 12-18, and will have four national contests that are associated with the theme. The contests include a Visual Arts contest for elementary-school children, an Essay contest for middle- and high-school students, a Photography contest open to the public, and a Lesson Plan Design contest for teachers. For up-to-date information on Earth Science Week activities, visit <http://www.earthsciweek.org>.

The "Eyes on Planet Earth" theme focuses on the important work performed every day by geoscientists throughout the world. Using observations and measurements from instruments in space, under water, and on the ground, geoscientists constantly evaluate the Earth's present state, make predictions about how it will change in the future, and assess the effects of Earth's changes on life and society.

The national contests hosted by AGI are designed to inspire citizens to get involved in Earth Science Week. This year, a Lesson Plan Design contest has been added to the annual line-up of Earth Science Week contests. To participate, teachers develop and submit a lesson plan that relates to the "Eyes on Planet Earth" theme. Entries are required to incorporate information from the U.S. Geological Survey's (USGS) web site (<http://www.usgs.gov>) or USGS materials provided in the Earth Science Week Educator's or Planner's Information Kit that will be available later this spring from AGI (<http://www.agiweb.org/pubs>). Entries in three categories – grades 1-4, grades 5-12, and college level – will be accepted until September 1, 2003. Winning lesson plans will be posted on the Earth Science Week web site. First place winners in each category will receive \$300 worth of AGI publications and classroom resources, and a one-year subscription to *Geotimes*, AGI's monthly newsmagazine of the Earth sciences.

Entries in the Visual Arts, Essay, and Photography contests must be received by October 1, 2003, and a Grand Prize winner in each contest will receive a cash prize of \$300. Elementary-school students in grades K-4 are eligible to participate in the Earth Science Week Visual Arts contest. Drawings, paintings, or other two-dimensional artwork depicting the topic, "*Earth Science in Your World*," will be considered. Winning entries in this category will be displayed at AGI and at the national headquarters of the U.S. Geological Survey near Washington, DC.

The Earth Science Week Essay contest is open to students in grades 5-12. Entitled "*Your Career as an Earth Scientist*," entries are limited to 500 words and are to be creative works that describe a geoscience career they might like to have. The First Prize essay will be published in a future issue of *Geotimes* magazine and finalists will be featured on the Earth Science Week web site.

Contestants of all ages are invited to submit photographs to the Earth Science Week Photography competition. Entries should capture next year's Earth Science Week theme, "Living on a Restless Earth: Natural Hazards and Mitigation." The winning photograph will be used in the 2004 Earth Science Week logo.

The Earth Science Week 2003 celebration marks the sixth year for this annual event, which is hosted by AGI as a service to the public and the geoscience community. The week was established to give students and citizens new opportunities to discover Earth sciences and to encourage stewardship of the Earth. It highlights the important contributions that Earth and environmental sciences make to society and invites the public to become engaged in current scientific exploration. AGI launched Earth Science Week in 1998 as the culminating event celebrating the Institute's 50th anniversary.

The American Geological Institute is a nonprofit federation of 40 scientific and professional associations that represent more than 100,000 geologists, geophysicists, and other earth scientists. Founded in 1948, AGI provides information services to geoscientists, serves as a voice of shared interests in our profession, plays a major role in strengthening geoscience education, and strives to increase public awareness of the vital role the geosciences play in society's use of resources and interaction with the environment. More information about AGI can be found at <http://www.agiweb.org/>. The Institute also provides a public-outreach web site, <http://www.earthscienceworld.org/>.

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NASA NEWS

Gretchen Cook-Anderson/Elvia Thompson
Headquarters, Washington
(Phone: 202/358-0836/358-1696)

October 10, 2003

Cynthia Martinez
American Geological Institute
(Phone: 703/379-2480 ext. 227)

Carolyn Bell
U.S. Geological Survey
(Phone: 703/648-4463)

RELEASE : 03-328

NASA Celebrates Educational Benefits Of Earth Science Week

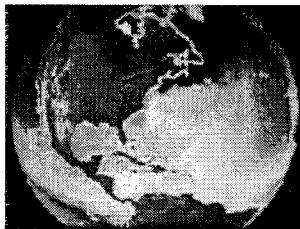


Image left: Sea surface temperatures taken by the Advanced Microwave Scanning Radiometer -

NASA, the American Geological Institute (AGI), the U.S. Geological Survey (USGS) and AGI's member societies will celebrate Earth Science Week October 12-18. The agencies are participating in activities to enhance national Earth science literacy among students, educators and the public.

Earth Science Week focuses on the Earth, its resources, processes and hazards. The theme for Earth Science Week 2003 is "Eyes on Planet Earth: Monitoring our Changing World."

Observation of Earth, from the most detailed microscopic levels to satellite imagery, illustrates the interconnectedness of and within the planet. "Satellites provide us the eyes to predict and monitor climate change, weather and natural hazards, and we continue to make strides to better understand and protect our home planet," said Dr. Ghassem Asrar, NASA's Associate Administrator for Earth Science.

NASA and others collaborated to produce Earth Science Week educational packets. The packets, available from AGI, contain informative posters, bookmarks, NASA lithographs and interactive CD-ROM's, including a digital atlas of North America that is a part of the Global Geographic Information Systems hosted by USGS and AGI.

The educational packet is intended to give students, teachers and the public innovative ideas about how to celebrate Earth Science Week 2003. Approximately 12,000 have been distributed to teachers and schools nationwide. The content helps individuals appreciate our natural environment, as well as gain familiarity with analytical tools for spatial analysis.

"During Earth Science Week and thereafter, NASA and its partners hope students, teachers, and people from all walks of life will take a look around and notice what's happening on Earth," said Dr. Adena Williams Loston, NASA's Associate Administrator for Education. "We seek through our celebration of Earth Science Week another valuable opportunity to inspire and motivate the next generation of explorers to learn more about our home planet."

Earth Science Week activities at NASA include special features on the NASA Web site and NASA TV. A new Earth Science-related episode of NASA Connect will air October 16 on NASA TV, participating PBS stations, Channel One, and a number of cable access channels.

NASA's Students' Cloud Observations On-Line (S'COOL) and the GLOBE Program, sponsored by NASA and the National Science Foundation, are supporting Earth Science Week by engaging students in an intensive period of observation of clouds, soil moisture, and respective data collection.

"The science of the USGS and NASA benefits lives in countless ways. Earth Science Week is a great opportunity to increase public awareness of the diversity of scientific expertise within the government

and the ways science contributes to the health and vitality of citizens, communities, our nation and our world," said USGS Director Dr. Charles Groat.

For information about NASA Earth Science research or other education programs on the Internet, visit:

<http://www.nasa.gov>

For more information about Earth Science Week 2003 and AGI on the Internet, visit:

<http://www.earthsciweek.org>

For information about USGS education programs on the Internet, visit:

<http://www.usgs.gov/education/index.html>

For the NASA Connect broadcast schedule on the Internet, visit:

<http://connect.larc.nasa.gov>

- end -

text-only version of this release

NASA press releases and other information are available automatically by sending an Internet electronic mail message to domo@hq.nasa.gov. In the body of the message (not the subject line) users should type the words "subscribe press-release" (no quotes). The system will reply with a confirmation via E-mail of each subscription. A second automatic message will include additional information on the service. NASA releases also are available via CompuServe using the command GO NASA. To unsubscribe from this mailing list, address an E-mail message to domo@hq.nasa.gov, leave the subject blank, and type only "unsubscribe press-release" (no quotes) in the body of the message.

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Editor: Beth Beck
NASA Official: Brian Dunbar
Last Updated: October 10, 2003
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Florida

Department of Environmental Protection

"More Protection, Less Process"



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FOR IMMEDIATE RELEASE: October 14, 2003

CONTACT: Kathalyn Gaither, (850) 245-2118

Eyes On Planet Earth

-Earth Science Week inspires stewardship, promotes protection-

TALLAHASSEE – Governor Jeb Bush proclaimed October 12-18 Earth Science Week to raise awareness about the earth sciences and their role in our daily lives. "Eyes on Planet Earth: Monitoring our Changing World" is this year's theme, with statewide events highlighting the relationship between earth science and our natural, cultural and historical resources.

"Studying the Earth allows us to keep a vigilant eye on Florida's natural resources," said Florida Department of Environmental Protection Secretary David B. Struhs. "Monitoring changes in our world allows us to predict and prepare for natural hazards like floods and droughts."

Using observations and measurements from space, underwater and underground, geoscientists constantly evaluate the Earth's present state, foresee future changes and assess these effects on life and society. The Department of Environmental Protection's Florida Geological Survey investigates and monitors the state's important aquifer systems and geology to ensure effective resource and public health protection as well as sound environmental management.

"The foundation for all environmental protection begins with sound science," said Secretary Struhs. "Florida's waters and lands are better protected and our cultural and historical resources are better managed because of the earth sciences."

On Wednesday, October 15, the Florida Geological Survey is hosting activities and tours for the public, highlighting daily connections with earth sciences. Located at the Gunter Building on the campus of Florida State University in Tallahassee, the Florida Geological Survey annual open house is from 10:00 am to 4:00 pm.

To learn about Florida Earth Science Week, visit www.fiu.edu/orgs/geology or <http://coastal.er.usgs.gov/openhouse2003.html>. Sponsored by the American Geological Institute, this is the sixth year for the national week of events. The Institute is a nonprofit federation of 40 scientific and professional associations, representing over 100,000 earth scientists.

SPOTLIGHT

News from AGI and the geoscience community

FOR IMMEDIATE RELEASE

January 15, 2004

Contact: Cindy Martinez (703) 379-2480

E-mail: cmm@agiweb.org

AGI Announces the Winners of Earth Science Week 2003 Contests

ALEXANDRIA, VA — The American Geological Institute is proud to announce the winners of the Earth Science Week 2003 contests. The contests are designed to encourage students and the public to participate in this annual celebration that recognizes the importance of Earth sciences in our lives. The most recent contests included an art contest for elementary-school children, an essay contest for secondary-school students, a lesson-plan design contest for teachers, and a photography contest open to all ages. Winners in each contest were selected from almost 300 entries.

The winner of the visual-arts contest was eight-year-old Christina Gill of Herndon, Virginia, for her artwork entitled "Keeping an Eye on Our Earth." Jessica Taylor of Cary, North Carolina, won the essay contest for her composition "Who is a volcanologist and what do they do?". The lesson-plan design contest was won by Mary Ball of Jefferson City, Tennessee. Her lesson plan, "Monitoring our Changing World: the USGS Stream Gage Network," is intended for undergraduate introductory geoscience students. Ben Kennedy of Montreal, Canada, received top honors in the photography contest for his picture of Indonesia's Tengar Caldera and Mt. Semeru. Winning entries and finalists for each of the four contests are posted on the Earth Science Week web site, <http://www.earthsciweek.org>.

Earth Science Week 2003 was a tremendous success, with events held in cities across the U.S. and in several countries. The celebration was officially proclaimed by 21 states and was recognized by President George W. Bush. The theme for Earth Science Week 2003, "Eyes on Planet Earth: Monitoring our Changing World," emphasized the important work geoscientists do to study and understand our dynamic planet.

The goal of Earth Science Week is to increase the public's understanding of geology and the Earth sciences so that citizens can make informed decisions concerning land management and use, address environmental and ecological issues, prepare for and recover from natural disasters, and appreciate the beauty and wonder of the natural world. This annual event, celebrated during the second full week in October, offers students opportunities to discover the Earth sciences and provides geoscientists and Earth-science organizations the opportunity to share their knowledge and enthusiasm about the Earth and how it works.

AGI, in collaboration with its member societies and Earth Science Week sponsors, is currently preparing for Earth Science Week 2004, which will celebrate the theme "Living on a Restless Earth." To find out how you can participate, visit the Earth Science Week web site, <http://www.earthsciweek.org>, or contact Cindy Martinez, Earth Science Week Manager, at (703) 379-2480 ext. 227 or cmm@agiweb.org.

The American Geological Institute is a nonprofit federation of 42 scientific and professional associations that represent more than 100,000 geologists, geophysicists, and other Earth scientists. Founded in 1948, AGI provides information services to geoscientists, serves as a voice of shared interests in our profession, plays a major role in strengthening geoscience education, and strives to increase public awareness of the vital role the geosciences play in society's use of resources and interaction with the environment. More information about AGI can be found at <http://www.agiweb.org>. The Institute also provides a public-outreach web site, <http://www.earthscienceworld.org>.

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USGS online resources, activities, and events in support of Earth Science Week will be featured here as they are available. Check back frequently to see what's happening.

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California

1200 San Francisco Bay Area Students Scheduled to Celebrate Earth Science Week at USGS

Contact: [Leslie Gordon](#)

Date: October 14, 2003

Twelve hundred San Francisco Bay Area students and teachers are scheduled to visit the USGS in Menlo Park, CA, to meet with scientists, and to participate in hands-on activities, demonstrations, and workshops, all designed to create a better understanding and appreciation of earth science during national recognition and celebration of Earth Science Week October 12-18. USGS scientists will be providing students and teachers with information about work being performed to monitor the changing environment using observations and measurements from instruments in space, underwater, on the ground, and underground, to assess changes that could affect life and society. The USGS and the American Geological Institute are sponsoring national poster, essay, and photography contests for school children to encourage their interest in learning more about stewardship of the Earth. Menlo Park Earth Science Week activities: <http://wrgis.wr.usgs.gov/wgmt/education/>.

New San Andreas Fault Earthquake Trail Opens during Earth Science Week

Contact: [Phil Stoffer](#)

Date: October 18, 2003

In recognition and celebration of Earth Science Week, USGS

scientist Phil Stoffer will lead San Francisco Bay Area teachers along a newly created trail on the San Andreas fault, near San Jose, CA. Landscape features along the route provide dramatic physical evidence of ground shaking and rupturing during the great 1906 San Francisco earthquake. The trail, created by several USGS scientists working with local Boy Scout troops and the Santa Clara County Environmental Resources Agency, officially opens October 18 and is dedicated to the efforts of the San Francisco Bay Area 1906 Earthquake Centennial Alliance to advance the awareness, knowledge, and understanding of regional geologic processes that led to the disastrous 1906 San Francisco earthquake and fire.

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Colorado

Free Public Field Trip to Green Mountain

Contact: [Dr. Pete Modreski](#)

Date: Tuesday, October 14, 2003, 4 - 6:30 p.m.

Meet at the Green Mountain Park trailhead on Rooney Road, between Lakewood and Golden (1/2 mile north of Alameda Parkway, and about 1 mile south of Colfax Ave/U.S. 40), for a short hike to explore geology and ecology around the west base of Green Mountain.

Free Public Field Trip to Clear Creek

Contact: [Dr. Pete Modreski](#)

Date: Wednesday, October 15, 2003, 4 - 6:30 p.m.

Meet at Anderson Park, Wheat Ridge (south side of 44th Ave., opposite Field St.) to explore Clear Creek, including geologic and human history, ecology, and water quality.

Geography and Earth Science workshop

Contact: [Joseph Kerski](#)

Date: October 15, 2003

Geography and Earth Science workshop for 250 middle school students, Cherry Creek Schools in Aurora, Colorado.

GIS workshop

Contact: [Joseph Kerski](#)

Date: October 24, 2003

GIS workshop for interdisciplinary group of high school teachers, Boulder Valley School District, Boulder, Colorado.

Water Education Workshop for Educators

Big Thompson River Educational Workshop

Contact: [Steve Vandas](#)

Date: October 17, 2003

A workshop on the topic of watersheds and river systems is being held at Sylvan Dale Ranch in Loveland, Colorado on Friday, October 17. Educators from all grades levels are invited to learn about how water is measured, Colorado Water Rights system, stream biology, and stream system dynamics. Participants will receive hands-on experience in stream flow measurement, sediment sampling, and the collection and identification of stream organisms. Participants will receive continuing educational credits from the Colorado School of Mines. This event is being conducted in cooperation with Big Thompson Watershed Forum, EPA, US Geologic Survey, CO Division of Water Resources, CO Division of Wildlife and CO Watershed Network.

Earth Science Week Activities at DFC in Lakewood, CO.

Contact: [Kim Tompkins](#)

The Earth Science Information Center, at the Denver Federal Center, Bldg 810 is participating in Earth Science Week. We have tables full of displays supplied with pamphlets and packets to hand out. Come and see the glow in the dark gems from the surrounding Colorado, Utah area. We also have door prizes for those who visit us, they include two maps on canvas, one is a Panorama of the Grand Canyon from Point Sublime and the other is of the Grand Canyon at the foot of The Toroweap, they are both beautiful. We also have a jigsaw puzzle of Rocky Mountain National Park and other items as we receive them. We also have a craft setup with directions for making bird feeders. Come and visit us here at Bldg 810, 8-4 p.m. Tuesday thru Friday!

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Louisiana

Louisiana Resource Center for Educators (LRCE) Display and earth science talk

Contact: [Lucille Wright](#)

The USGS, in cooperation with the Louisiana Resource Center for Educators (LRCE), will sponsor a science information display at the center and distribute Earth Science Week packets to teachers of grades 6-8 in the Baton Rouge area. Also, USGS staff hydrologist Jason Griffith will be the guest speaker Oct.14th and Oct.15th for "Science Wonders", an after school enrichment program for grades k-5 at St. Luke's Episcopal Day School. In celebration and recognition of Earth Science Week, students and

teachers will learn about earthquakes along with current research activities of the USGS in Louisiana.

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Utah

Mapping and Earth Science Workshops

Contact: [Joseph Kerski](#)

Date: October 8-10, 2003

Workshops on mapping and earth science and an information exhibit for 600 teachers who will gather at the National Council for Geographic Education conference in Salt Lake City, Utah. We will be distributing some of the Earth Science Week packets at the conference.

Hands-on GIS Workshop

Contact: [Joseph Kerski](#)

Date: October 11, 2003

Hands-on GIS workshop for Utah educators, Salt Lake Community College, Salt Lake City, Utah, which will include investigating earthquakes, tornadoes, and other natural hazards.

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Other

National Council for Geographic Education's Perspective newsletter article

Contact: [Joseph Kerski](#)

Date: October 14, 2003

Third column in the series "Isn't That Spatial" for the National Council for Geographic Education's Perspective newsletter. This column will focus on the 2003 Earth Science Week packet, including the minerals and GIS CDs from the USGS, as well as the other resources in the packet.

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For more information, contact [Robert Ridky](#).



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Ideas for Earth Science Week Activities

Impact Formal and Informal Education

There are many opportunities to get involved with your community via formal and informal education during Earth Science Week. No matter what you select, we encourage you to involve both educators and scientists in your Earth Science Week project. Bringing together science knowledge with teaching skills is the best way to ensure the success of your project. Scientist partners can be found in universities, geoscience consulting companies, and state and federal agencies (such as state and federal geological surveys). Educators can be accessed through district or state science supervisors, local schools, museums, and science centers.

Encourage Others to Participate

Note: This is also your opportunity to provide other educators and scientists with the opportunity to help create a discriminating, educated society committed to the responsible use of Earth and its resources. Consider asking your colleagues who are not currently involved in outreach activities to assist you with your project.

Key

S	Activities that geoscientists generally have the resources/ability to initiate.
E	Activities that geoscience educators generally have the resources/ability to initiate.

Opportunities to impact formal and informal education

S	<p>If your field site is close, invite students or educators to assist you in collecting data for a day.</p> <p>This is a wonderful way to give educators and students an idea of what field research is all about (plus you have some extra sample-carriers, which never hurts). Contact your local school district or state or district science supervisor to find interested educators. Make sure to plan some time at the end of the day to discuss and review what participants have learned and to answer questions.</p>
S	<p>Visit a classroom.</p> <p>Give a presentation (including discussion and hands-on activities) to a class. Begin by talking to geoscience educators at your children's or your neighbor's children's schools about topics that would add to their curriculum, and offer to do a special presentation for them. If these educators can't take advantage of your offer, they can probably recommend someone who can. Some topics to consider include careers in geoscience, life of a geoscientist, geological hazards in your local area, local geology and weather, and household minerals.</p>
E	<p>Invite a scientist to your classroom or after-school center.</p> <p>This is a great opportunity for students to find out first hand what the life of a scientist is like. Contact local geoscience organizations (consulting companies, research institutes, universities) in your area to locate a scientist who might be interested in talking with your students during Earth Science Week.</p>
S E	<p>Talk to a local school board about the importance of Earth Science education</p> <p>Request an audience with a local school board to discuss this topic. Bring concrete examples of successful earth science curricula and ways in which earth science examples</p>

		can be successfully integrated into existing curricula.
S	E	Set up e-mail or a "cyber-chat" so students can communicate with scientists. Another way to enrich students' geoscience learning experience is to find a scientist or educator with whom you can communicate in an electronic format. Scientists can easily answer questions for educators via e-mail. Alternately, set up a cyber-chat so students can talk directly to a scientist. Marie Fullerton, an elementary school technology coordinator, has set up several live chats between scientists and classes at her school. For more information on how to set up cyber-chats, contact Marie.
S		Locate and donate geological equipment to schools. Many schools do not have budgets to buy even basic scientific equipment, let alone expensive equipment. Spend some time gathering old or superfluous equipment from your work place, and donate the equipment to a local school during Earth Science Week. Complete your donation with an informal seminar on why and how geoscientists use each piece. If you are able, you might also provide examples of how the equipment may be used in the classroom.
S		Develop rock and mineral kits to give to local educators. Rock and mineral kits can be invaluable to educators, many of whom don't have the resources to purchase them. Enlist your colleagues in different areas of the country to send you rocks and minerals common to their area. You might consider organizing a group of colleagues who are interested in making kits for their local educators to engage in a national rock swap.
S	E	Organize a professional development workshop for educators. Work with scientists and local educators to develop a short "training session" for educators. Contact the school district to find out about giving educators credit for attending the workshop.
S	E	Organize a contest around an earth science issue of local importance. Work with local scientists, educators and program directors from schools, community/youth centers, and/or daycare facilities to brainstorm contest ideas and audiences (many of these groups can be found in the phone book, through your chamber of commerce, or through the school district). Encourage local businesses to provide prizes or to replicate and distribute the winning design on a product. Suggested contests could include thematic essays, murals, posters, t-shirt designs, and placemats. Work with your local media to advertise the event and display winning entries.
S		Host an open house at your research institute, company, or organization for the public. Give the public the opportunity to see what scientists do! This greatly enhances their appreciation for that work, while communicating to them that scientists are people too. Make sure that your open house receives media coverage before, during, and after the event. Consider hosting an open house every year during Earth Science Week so that the community begins to anticipate it.
S	E	Work with scouting organizations on geoscience badges. Encourage local troops to complete geoscience badges by offering to assist them with project execution. Contact your local council for a list of troops near you. Local councils may be found in the phone book or on the Internet.
S		Give a presentation or lead a field trip for a local after-school center. Spend an afternoon showing kids what the life of a geoscientist is really like. Make your presentations light and entertaining, and include pictures or slides of places you've gone. For help structuring your presentation, work with the program director or a local educator. Check out local programs run by the I Have A Dream Foundation and the YMCA for opportunities. Other local groups can be found by contacting your school district, chamber of commerce, or community information center.
S		Lead a field trip to a local, state, or national park in your region. Park and recreation systems often have educational infrastructures in place that can save you a lot of legwork in planning your outreach event. Approach parks and offer to lead field trips or give evening slide shows to park guests. Alternatively, ask the park coordinators if they have already planned an Earth Science Week event to which you could contribute your scientific expertise.

S	E	Arrange to have earth science books on display at a local bookstore or library. Contact local bookstores or libraries to suggest that they create a special exhibit during Earth Science Week. Offer to supply a book list or give a presentation. Check GSA's recommended reading list.
S		Lead a field trip on urban geoscience issues. Many folks who live in urban environments don't realize that geoscience issues surround them daily. Lead a field trip for city officials, educators, students, senior citizens, or other interested groups emphasizing the role geoscience plays in the quality of life they enjoy.
S	E	Read books to kids at your local library. Contact your local library to volunteer to read geoscience books to kids during "story time" (many libraries offer programs like this).
S	E	Give a geoscience presentation to kids or adults through your local library, nursing home, retirement community, or park and recreation department. Talk about local fossil-hunting locations, do a hands-on rock and minerals show, or present the geologic history of your local region. For an interesting twist, present a film festival and discussion series on facts and myths concerning geology in the movies (for example, <i>Dante's Peak</i> , <i>Volcano</i> , <i>Water World</i> , <i>Jurassic Park</i> , and <i>Deep Impact</i>).
S	E	Recruit members of a senior citizen community to assist you in creating a community mural, model, or rock garden using local geology as the theme. Senior citizens are wonderful resources for creative ideas, are generally interested students, and often have extra time to devote to activities such as these. Contact your local AARP branch to discuss opportunities in your community.
S		Talk to local policy makers about earth science issues of importance to the health and safety of the community. Consider giving a talk to your city council or taking council members and other officials on a field trip to examine the interactions between nature and society in your community. You might also consider putting together an Earth Science Week proclamation to take to your city council.
S	E	Write an article for a local newspaper. This is a great way to get the word out about what Earth Science Week is and where to find great local opportunities. Be sure to call local science organizations to inquire about their plans. This serves the dual purpose of making your article more useful to the readers and prompting any organizations who had not yet planned activities to begin the planning process.
S	E	Invite a geoscience "celebrity" to speak in your area. High profile public figures always draw people's attention. Don Clarke (a member of GSA's Partners for Education Program) has brought several public figures into California schools, and is willing to talk with others interested in setting up similar opportunities in their communities.
Opportunities to encourage other scientists and educators to participate in outreach		
S	E	Sponsor an activity to match local geoscientists with local educators. Sponsor an activity through which local educators and scientists can meet and learn about each other's interests and abilities. This allows educators to find scientists they feel they can approach for expertise and classroom visits, and gives scientists an opportunity to make some local outreach contacts. Scientists can be found at universities, geoscience consulting companies, and state and national geological surveys. Educators can be accessed through district or state science supervisors and/or school principals.
S		Organize a student outreach club to encourage undergraduate and graduate students to get involved in community service projects. For those entering geoscience careers today, communicating your knowledge and skills to your community is of vital importance, both to the quality of public life and to your future funding. Student outreach clubs are wonderful vehicles for instilling commitment to community service in your students. Once the group is established, it requires a comparatively small time commitment from a senior advisor.
S		Convince your superior to ask employees to take a paid half day or whole day to do

		outreach during Earth Science Week. For many people, the greatest barrier to working on outreach projects is the inability to take work time to complete the project. Securing a paid half or whole day for every employee to participate in Earth Science Week activities is a terrific way to increase the size of the audience we can reach during this week, while giving those who don't normally participate in outreach activities an opportunity to experience the benefits of getting involved. If you manage to secure this time, consider organizing an informal workshop on local opportunities and resources for your coworkers.
S	E	Conduct a workshop for coworkers concerning how to find outreach opportunities. Many of your colleagues might be interested in working with the public if they are more comfortable with the process of finding opportunities. A workshop is a great way to assist your colleagues in finding opportunities during Earth Science Week. Put together a list of local resources and opportunities as a handout.

For more ideas, check out Great Ideas on
AGI's Earth Science Week Web site.

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Last Revised on June 26, 2003

Petrified Forest National Park celebrates Earth Science Week!

Since October 1998, the American Geological Institute has organized this national and international event to help the public gain a better understanding and appreciation for the Earth Sciences and to encourage stewardship of the Earth. This year's Earth Science Week is from October 12-18, 2003 and celebrates the theme *Eyes on Planet Earth: Monitoring our Changing World*.

Activities at Petrified Forest National Park include:

- **RANGER PROGRAMS**
 - *Triassic Park*, 11:00am every day. Join a ranger for a talk or a walk through the Giant Logs area of Rainbow Forest and learn about the petrified wood.
 - *Geology Hike*, check for daily times in the park. Join a ranger for a walk through Blue Mesa or the Painted Desert and learn about the geology that has shaped this landscape for over 200 million years.
- **SCAVENGER HUNT**
 - Have fun learning about Petrified Forest National Park by answering some fun questions and then entering your name into a free drawing for 7 grand prizes! Ask for details at Painted Desert Visitor Center or Rainbow Forest Museum.
- **DISPLAYS AND EXHIBITS**
 - Hands-on exhibits at Painted Desert Visitor Center allow you to touch and feel rocks and fossils found at Petrified Forest National Park.
 - An audio-visual presentation at Rainbow Forest Museum shows you how paleontologists excavate a fossil, specifically a recently found *Aetosaur*.
 - See excavated plant and animal fossils, replicated skeletons of Triassic reptiles, and artists' renditions of the environment 225 million years ago at Rainbow Forest Museum.
- **TRAILS**
 - Walk on a variety of maintained trails at Petrified Forest National Park:
 - *Painted Desert Rim* – 1 mile round trip – Walk along the edge of a geological wonderland.
 - *Puerco Pueblo* – 0.3 mile loop – See how the Ancestral Puebloans made use of sandstone rocks for building and communication.
 - *Blue Mesa* – 1 mile loop – Drop down into the clay hills and see geology in action.
 - *Crystal Forest* – 0.75 mile loop – Browse through a forest of colorful petrified trees.
 - *Long Logs and Agate House* – 2.5 miles round trip – See exposed logs over 100ft long and visit a unique Ancestral Puebloan home made of petrified wood.
 - *Giant Logs* – 0.4 mile loop – Visit one of the largest logs in the park, "Old Faithful."

We hope to see you here!

Dinosaur Ridge
Morrison, CO



Friends of Dinosaur Ridge
16831 W. Alameda Parkway
Morrison, CO 80465
Phone: (303) 697-3466
Fax: (303) 697-8911
www.dinoridge.org

FOR IMMEDIATE RELEASE

For more information concerning this release, please contact:
Matt Carey -- Education & Operations Director
(303) 697-3466 x11
matt_carey@dinoridge.org

Tours of Parfet Prehistoric Preserve

As part of Earth Science Week 2003, the Friends of Dinosaur Ridge will host the final open house tours of the fossil attractions at Parfet Prehistoric Preserve near the Fossil Trace Golf Course in Golden on October 18. From 9:00 a.m. until 3:00 p.m., the Friends of Dinosaur Ridge will be on-hand to give explanations of the area's various prehistoric features. The cost is \$3 for adults and \$2 for children 12 and under. Tours take place on a ½ mile gravel trail and are self-paced (there is no need to RSVP).

Some of the unique features at the site include tracks left by a type of hadrosaur dinosaur (a category of dinosaur that grew to nearly 30 feet in length, ate plant material, and could walk on wither two legs or on all fours) almost 70 million years ago. In addition to hadrosaur tracks, the site also boasts tracks from the three-horned *Triceratops*, small mammals, birds, and even prehistoric beetles. However, animals weren't the only things to leave their mark on the ancient landscape – impressions of large palm leaves paint an ancient environment that is much wetter and warmer than what we experience today. The site itself is a reclaimed clay mine that offers exceptional learning opportunities for Colorado's mining history and Colorado's Front Range geology.

Free parking is available in the large lot between 6th Avenue and Stevinson Golden Ford off 19th Street in Golden. From the parking area, follow the signs and head south along the newly completed bike path that parallels 6th Avenue. The interpretive trail covers rough terrain with moderate to steep slopes. It is not recommended, at this time, for wheelchairs or for those with difficulty walking. For more information on this program, please visit the Friends of Dinosaur Ridge website at www.dinoridge.org or contact Matt Carey at (303) 697-3466 or matt_carey@dinoridge.org. The nation-wide Earth Science Week takes place during the week of October 12-18, 2003. For more information on Earth Science Week, please visit www.earthsciweek.org.

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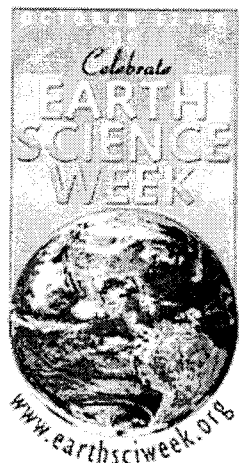
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Last Updated:
 10/17/03

Earth Science Week

Governor's Proclamation

From President Bush



October 12-18 is Earth Science Week (ESW), a national event initiated and sponsored by the American Geological Institute to raise public awareness of the earth sciences and their role in our daily lives. The theme for this year's event is "Eyes on Planet Earth: Monitoring our Changing World." In celebration of ESW the FGS hosted its annual Open-House on Wednesday, October 15 from 10:00 am to 4:00 PM at the Gunter Building on the campus of Florida State University. The local home schooling community was invited as well as the general public. The Open-House featured building tours and various interactive activities. Photographs were taken and can be viewed [here](#). FGS staff members also gave talks in local middle schools on earth science topics during ESW. Information about nationwide Earth Science Week events and contests for students can be found at: www.earthsciweek.org. The FGS will also highlight program information and interactive activities at Innovation Park's Family Fun Day on October 18. Several events are planned around the state of Florida to mark ESW. Florida International University sponsors an internet based contest, Know Your Planet for high school students and teachers. Visit www.fiu.edu/orgs/geology for details. The United States Geological Survey (USGS) is sponsoring an open house for local fourth grade students and the general public at their Center for Coastal and Watershed Studies in St. Petersburg on October 23 and 24. For more information visit: <http://coastal.er.usgs.gov/openhouse2003.html>. Geology classes at Broward Community College are planning a field trip to the Spruce Pine area of North Carolina (October 23-26). The Tallahassee office of the USGS will mark Earth Science Week with demonstrations of their interactive groundwater model and field equipment at Family Fun Day, October 18 at Innovation Park in Tallahassee. They will also have educational materials and technical publications available for distribution.

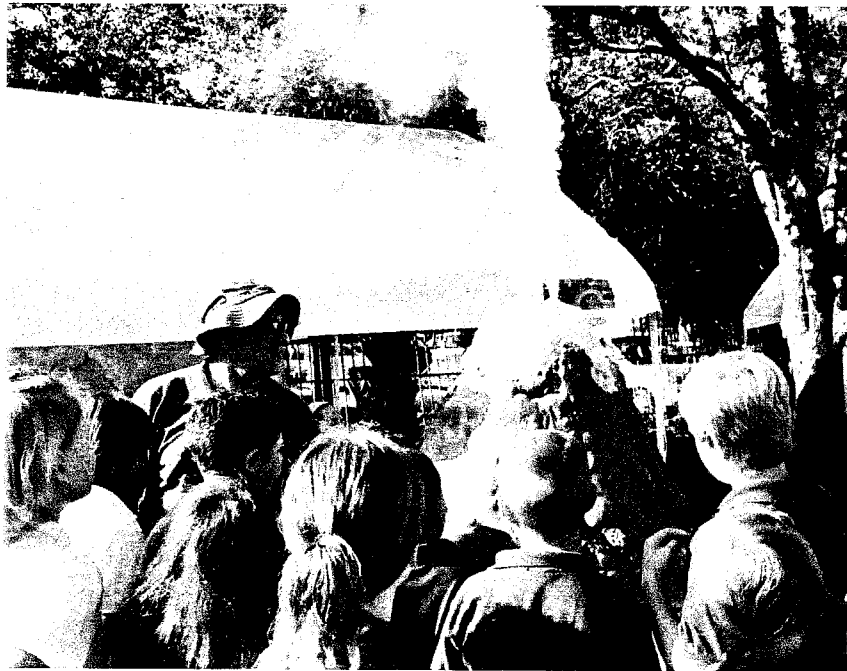
[Map to the Florida Geological Survey](#)

[Contact Florida Geological Survey](#)

USGS Center for Coastal & Watershed Studies
Annual Open House in conjunction with ESW
October 23-24, 2003
St. Petersburg, Florida



Ann Tihanksy talks about Karst hydrology with a group of fourth graders.



Students are enthralled by this model volcano eruption.

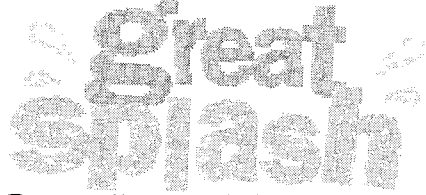


Mark Hansen explains GPS to attendees of the annual Open House.



Students are eager to answer questions about this crocodile skull.

OPENING EXHIBIT



October 11, 2003

MEDIA CONTACT:

Saletta Coleman, Director of Marketing
scoleman@greatex.org | 727-821-8992 ext. 212

St. Petersburg, FL -- There is a bit of a buzz around **Great Explorations** as we anticipate the arrival of our newest exhibit, **A Great Splash**. The recipient of a \$250,000 educational grant from the Southwest Florida Water Management District (SWFWMD) and other local agencies, Great Explorations has developed A Great Splash to educate its visitors on Tampa Bay's water resources.

A Great Splash directly supports the goals and personality of the museum, while helping children learn about water conservation, the water cycle and the importance of water in their lives. The most curious of minds will be fascinated to learn how much water it takes to grow a lush lawn, wash and clean a car and, believe it or not, make a hamburger.

"Water Cycle Pinball," one element of this new exhibit, illustrates where water comes from, what happens to water once it's used and how the water currently available is the same water that's been here since the Earth was formed. In this experience, visitors operate a whimsical, three-dimensional pinball machine, discovering the "closed" nature of the water cycle by following a ball (a water drop) through the various parts of the cycle. Lights, sound effects and water conservation sound bytes make the trip through the water cycle fun and interesting. As with nature's water cycle, the pinball machine might take the water drop to a faucet, a river or an orange grove, as the water is used and reused by man and nature. No matter where the drop goes, however, it never disappears and it never multiplies, underscoring the idea that the water we have now is what we have always had and all we will ever have.

OPENING EVENTS: Great Splash opens to the general public on Saturday, Oct. 11, beginning at 10 a.m. During the event, there will be an appearance by "Ripply," the Southwest Florida Water Management District's water drop mascot, and water conservation theater performances by Stages Productions.



Earth Science Week Open House

Sponsored by the Kentucky Geological Survey, the UK Department of Geological Sciences, the Kentucky Water Resources Research Institute, and the Tracy Farmer Center for the Environment.

The Earth Science Week Open House will be on **Wednesday, October 15, 2003, from 6 p.m. to 8 p.m.** Although most activities will be geared toward children, people of all ages are invited. The Open House will be held in two locations on the UK campus: the Kentucky Geological Survey and the UK Department of Geological Sciences. Below is a list of the activities that will be held at each location.

See the [Governor's proclamation](#).

Kentucky Geological Survey

Mining and Mineral Resources
Building
Rose Street
(across from the
Chemistry/Physics Building)

Activities:

Dinosaur activities (see dinosaur bones and draw *Tyrannosaurus rex* (*T. rex*))

Make trilobite masks and molds

"Fossil Hunt" (dig for fossils)

Guided tours of rocks, minerals, fossils, and meteorites

Groundwater and stream table

Department of Geological Sciences

Slone Research Building
Washington Avenue

Activities:

"The Rock Pile"--add to your rock and mineral collection or create a new one

Rocks under the microscope: a fascinating view of rocks and minerals

The "Black Light Cave" (fluorescent glow-in-the-dark minerals)

J.W. Faulk kindergartners dig on dinosaurs

Lafayette Geological Society gives students a look at Earth history with a simulated fossil find.

Trevis R. Badeaux

tbadeaux@theadvertiser.com

November 3, 2003



Nearly 300 kindergartners from five classes at J.W. Faulk Elementary participated in a Dino Dig at the school. The event, conducted Oct. 12 by the Lafayette Geological Society, brought the students face-to-face with actual dinosaur fossils.

LAFAYETTE — Local geologists recently shared their fascination of dinosaurs with about 300 kindergartners from J.W. Faulk Elementary during a one-day Dino Dig at the school.

Lafayette Geological Society, established more than 50 years ago, meets monthly at The Petroleum Club in the Oil Center. It boasts about 300 professional geologists, geophysicists and other members. Jana Lage, society member and past president, initiated a Dino Dig at J.W. Faulk Elementary on Oct. 12 as a community based project for Earth Science Week.

“They just went nuts over all of that,” said Joy Norad, one of the kindergarten teachers who participated in the Dino Dig. “These children wouldn’t get this kind of exposure, normally, because we’re located in a low socio-economic area. I even heard back from some parents whose children had come home with their souvenirs and stories about the event. It had a real impact.”

The majority of students who participated said they most enjoyed digging for fossils in the sand. Aalayah Roy, 5, found a few black fossils — her favorite color.

“I stepped in a dinosaur footprint,” Aalayah said. “I learned that they had bones in their body.”


The UL Lafayette Geology Department museum loaned the mold of a dinosaur skull for society members to use as an exhibit. The students received ditty bags that included polished stones and actual fossils to bring home as souvenirs of the event.

Activities included a simulated fossil dig in a sandbox, where minerals, actual fossils and other "interesting goodies" were buried for the children to discover with various implements, said Myra Hamburg, society member. At three other activity stations, the students used magnets to find mineral particles, sorted items by color and shape and colored fossils in a coloring book compiled by society members, she said.

In one corner of the room, society members placed the mold of a theropod — or, three-toed dinosaur — taken from a creek bed in Texas. The 21-inch imprint, from a baby dinosaur, gave the students some perspective on the size of the extinct creatures, Hamburg said.

"We wanted them to feel the curiosity and the awe we experience about the natural world," she said. "Dinosaurs were part of the natural world, so this activity gave them some perspective on life before people were here."

©The Lafayette Daily Advertiser
November 3, 2003



Geological Survey and Resource Assessment

150 Years of Public Service

In 2003, our agency is celebrating 150 years of service to the citizens of the state of Missouri. Our sesquicentennial anniversary is being recognized through a variety of events and publications through out the year. We are taking this opportunity to "highlight" the work products we create and the importance of our agency to the both the environmental and economic future of the state of Missouri. A culmination of the series of events will occur at the division's Open House scheduled for October 15, 2003 from 12:00 to 6:00 pm at the Rolla office complex. Numerous displays and demonstrations will showcase the work of the division and a special dedication ceremony will occur at the end of the afternoon.

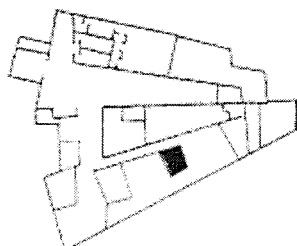
The formal ceremony is scheduled at 5:00 pm. Department Director, Steve Mahfood and myself will offer comments about the rich history of the Missouri Geological Survey and why the work of this agency is so important to the future of the state. This will be a time of reflection and remembrance that includes a strong message and vision for the future role of the division. A new sign will be unveiled in front of the main building. The creation of this sign has been a joint endeavor by many generous people. Through material donations and the assistance of many individuals, a Missouri red granite foundation will display the division's new name on a state of Missouri replica carved in Limestone. All the people that made this new sign possible will be recognized for their contribution.

An employee from the Survey will also be recognized for their outstanding public service at this ceremony. The division has established a new award in honor of Dr. James Hadley Williams, previous director and State Geologist (1986-2000). Dr. Williams' career exemplified outstanding public service to the people of the state. This will be the first recipient of the James Hadley Williams Public Service Award.

The Open House in Rolla coincides with national Earth Science Week 2003. Setting aside this week to emphasize the importance of earth sciences in public policy, is an annual event each October. Governor Bob Holden has traditionally recognized Earth Science Week with a state proclamation declaring the value of earth science data. One of the main objectives of Earth Science Week is to increase awareness. The division has invited fifth grade students from area schools to participate in the Earth Science Week celebration and our Open House event. The students will be given tours of the building, displays and demonstrations to help educate them about the value of earth science information. Over 150 students plan to attend.

We extend an open invitation to the public to visit our office complex in Rolla, Missouri. Everyone is welcome to attend the Open House event or stop by our building for a tour anytime. Groups can schedule tours with a staff person as a guide. If you are in the neighborhood and have not made advance arrangements, the public may take themselves on a self guided tour. The Geological Survey and Resource Assessment Division is proud of our heritage and looking forward to the challenges of the future. We encourage you to visit us during our 150th Anniversary year.

Please join us this year in celebrating our sesquicentennial.

**CAMPAIGN UPDATE****TOTAL PROJECT: \$10.6****Million****TOTAL RAISED: \$6,509,581****CAMPAIGN GOAL: \$8.6 M****TO GO: \$2,090,419****DONATE NOW**

**Click Here to take a
VIRTUAL TOUR
through the new
museum**

- [Learn about the Museum](#)
- [Museum Architecture](#)
- [Education in the Museum of the Earth](#)
- [Hours, Rates, & Directions](#)
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CURRENT EVENTS:

- [Opening Events](#)
- [Community Open House](#)
- [Opening Day!](#)
- [Dedication & Ribbon Cutting](#)
- [Campaign Leadership Luncheon](#)
- [Volunteer Training Sessions](#)
- [Exhibit Installation](#)

Where The Earth Comes To Life

HOME • GET INVOLVED • CONTACT

Opening Events Details:

Saturday, October 11, 11am - 5pm:

Museum of the Earth Community Open House

Free and open to all, the event kicks off National Earth Science week with Museum tours, fun and educational activities, door prizes, give-aways, music, and more! Featuring the food of Dinosaur BBQ of Syracuse, NY and Gimme Pure Ithaca.

Monday, October 13, 10am - 2pm:

Earth Science Explorations for Children

Hands-on educational activities for school-age children. Emphasis on bringing the natural history of New York State to life, as explored in the permanent exhibition hall, A Journey Through Time.

Sunday, October 19:

Teachers, Educators, Homeschoolers Day

Area educators and their families are invited to enjoy ½ off General Admission to the Museum as well as information about upcoming workshops for teachers and PRI's annual Teacher Give-Away where educators can receive fossils to use in the classroom! For more information, please contact [Molly Stapleton](#) at 273-6623 x 22

Area Colleges Days

The Museum of the Earth welcomes the staff, faculty, and students of Tompkins County and Finger Lakes area colleges to enjoy ½ off admission on designated Museum days. A valid college ID gains you and your family entry to the Museum at half-price!

Tompkins County Township Days

The Museum of the Earth invites all residents of Tompkins County to enjoy ½ off General Admission on designated Township Days. Bring in your driver's license (or other proof of residency) for you and your family to enjoy ½ off admission on designated Museum days! (Townships include all towns, villages, and hamlets located within the designated Township.)

Finger Lakes County Plus Days

The Museum of the Earth welcomes all residents of the Finger Lakes Region and Central New York to enjoy ½ off General Admission on designated Finger Lakes/Central New York County Days. Bring in your driver's license (or other proof of residency) for you and your family to enjoy ½ off admission on designated Museum days!

Cuyahoga Valley National Park (CVNP) Metro Parks, Serving Summit County

Earth Science Fair - Sunday, October 12, 2003
1-5 p.m., Brushwood Shelter, Furnace Run Metro Park

Over 1400 visitors celebrated the natural wonders of CVNP during **National Earth Science Week** by discovering and exploring the world above, on, and beneath the earth's surface. The visitors experienced earth science exhibits, games, demonstrations, and talks during the afternoon of family fun. They also learned about the different geologic materials and soils found in Ohio and North America and how they interact with plants, animals, land use, air, water, and pollution.

The fair gave over 100 children the opportunity to earn a Junior Ranger badge while learning about CVNP landscapes. The activities reflected this year's national theme, "Our Changing World," found on www.nature.nps.gov/grd/esw and www.earthsciweek.org. Throughout the year I helped develop and expand these websites.

Park rangers, naturalists, regional land use and water quality planners, and scientists from around the state participated in the indoor/outdoor joint program with the National Park Service and Metro Parks, Serving Summit County. Partners in the program included USEPA, Ohio EPA, USDA Regional Soil & Water Conservation Districts, Akron Regional Air Pollution Agency, Regional Health Districts, Northeast Ohio Four County Planning & Development Organization, NASA Glenn Research Center, The University of Akron Geology Department, Akron/Summit County Solid Waste Authority, and others.

VIP's Laura Clark, Maggie Gibson, Chris Studor, Pat Fairless, and John Catalano helped make it a very successful event. Over 100 teacher and student handouts were given out. Lots of interest was expressed by teachers for field trips and involvement with the park and our education activities. All in all a great day!

***For more information, call (330) 657-2309 or
contact Park Ranger Tom Nash: tom_nash@nps.gov***



Cleveland Museum of
NATURAL HISTORY

Inside Tracks

September/October 2003

Antiques Rock Show:

Our Changing World

Sunday, October 12, noon to 4 pm

Free with Museum Admission

This year's event will emphasize
observing our changing world:

- Learn from hands-on exhibits and live demonstrations presented by members of The Cleveland Geological Society, Museum volunteers and others involved in the fields of geology, paleontology, gemology and the lapidary arts.
- Museum personnel will be on hand to answer any questions you may have about geological or paleontological topics. Bring in a few of your favorite rocks for identification, too.
- Attend free mini-seminars: "Erosion and movement of beach sand around the Great Lakes" and "Don't take it for granite: rocks don't last forever."

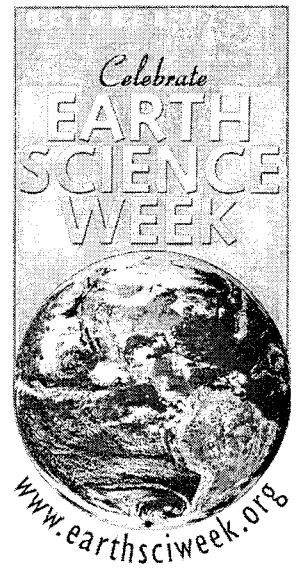
In addition: There will be a craft activity for young people; free literature on various geological topics will be available; and students interested in the Earth sciences can talk with college representatives about careers in geology and their educational requirements.

The Cleveland Museum of Natural History's Earth Science Day is part of Earth Science Week, October 12 through 18, organized by the American Geological Institute. For more information, visit www.earthsciweek.org.

Antiques Rock Show
Celebrate
Earth
Science
Day at the
Museum!

Are
you a
member?

You can save 20 percent on the cost of individual tickets to our popular *Explorer Series* if you're a Museum member. And your savings continue if you purchase either the *Total Explorer Series* or *Create-Your-Own* ticket packages. Turn the page for more information.



National Earth Science Week
Educational Activities at the USGS EROS Data Center (EDC)
(Sioux Falls, SD)

Monday: (holiday)

Tuesday:

- Regularly Scheduled Tours

Wednesday:

- Visit to Russell-Tyler-Ruth-ton Middle School for 3 presentations to 125 students on "Exploring our Changing Planet/Tracking Change Over Time"
- Regularly Scheduled Tours

Thursday:

- Brookings Elementary 3rd grade class (24+) will visit EDC to enhance their current studies on "Earth Landforms and How They Change." A 3 ½ hour agenda is being drafted w/presentations by dynamic EDC personnel. Presentations thus far:
 - Earth's interior, plate tectonics, earthquakes, and volcanoes (Tim Masterlark)
 - Coastal zones and barrier islands (Dean Gesch)
 - Geowall, a 3-D perspective of the Earth (Brian Davis)
 - General EDC overview and tracking Earth's change over time (EDC outreach team)
- Regularly Scheduled Tours

Friday:

- Kick-Off to "Science to Kids" for the school years' Digital Dakota Network (DDN) distance learning sessions through the Department of Education and Cultural Affairs (DECA). Gyanesh Chander will be presenting "Remote Sensing Applications" from 10:00 to 11:30 a.m. CDT to schools across the State from our very own Briefing Room, live via PictureTel! Here is the website from last year's (2002) presentation. The time and date will be changed a bit for 2003 (as stated above).
http://www.state.sd.us/DECA/DDN4Learning/statewide/Eros/sept02_proj.htm
- Regularly Scheduled Tours



Students study core properties at the 4th annual Austin Earth Science Week career fair.

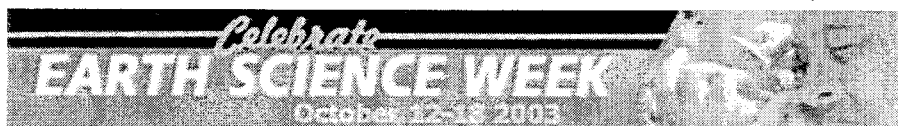


Staff at the U.T. Bureau of Economic Geology's Houston Research Center hosted a tour of the facility during ESW.

LOCAL GEOLOGY EVENTS

► **September 19 - December 7, 2003- Dinosaur Eggs: Hatching the Past**

- **Host:** Montshire Museum
- **Phone:** 802-649-2200
- **E-mail:** montshire@montshire.org
- **Location:** Montshire Museum of Science, One Montshire Road, Norwich, VT 05055
- **Information:** Touring exhibit featuring over 100 dinosaur fossil eggs, dinosaur models and paintings of dinosaur family life.



► **October 12 - 18, 2003- Earth Science Week**

- **Host:** Vermont Geological Society and Vermont Geological Survey
- **Contact:** Marjorie Gale
- **Phone:** 802-241-3608
- **E-mail:** marjorie.gale@anr.state.vt.us
- **Location:** Activities at various sites throughout Vermont
- **Information:** The sixth annual Earth Science Week is a national project jointly sponsored by the Vermont Geological Society, Vermont Geological Survey at the Agency of Natural Resources, Perkins Museum at University of Vermont, and the American Geological Institute. Numerous other individuals, organizations and businesses also sponsor activities during the week. For a list of classroom activities, a planning kit, and national contests, please contact AGI, 4220 King St., Alexandria, VA 22302. The Vermont Geological Survey and Vermont Geological Society will again be hosting Geologists-in-the-Parks on October 14, 2003. OMYA plans to host the popular Quarry Open House on October 18 in Middlebury. Other geologically interesting places to visit are ECHO-Leahy Center for Lake Champlain, Burlington
Rock of Ages Visitor Center, Barre
Slate Valley Museum, Granville, NY
and Vermont Marble Exhibit, Proctor.

► **October 14-18, 2003- Mercury in the Environment Guest Speakers, Earth Science Week 2003**

- **Host:** Vermont Dept. of Environmental Conservation, Environmental Assistance Division
- **Contacts:** Karen Busshart, Mercury Project Coordinator, or Tom Benoit, Hazardous Materials Specialist
- **Phone:** 802-241-3455 (Karen) ; 802-241-3472 (Tom)

- **E-mail:** karenbu@dec.anr.state.vt.us, tombe@dec.anr.state.vt.us
- **Location:** Will visit your site!
- **Information:** The PowerPoint presentation includes information about mercury, where it comes from, how it gets into our environment, health effects, what products in our home contain mercury, and proper disposal. The presentation also includes a class participation activity on bioaccumulation in the food chain. Booklets "Good Sneakers and Mercury" and "Mercury in the Environment" are available on request. Classroom visits will be first come, first served and are recommended for grades 4-9.

► **October 14, 2003- Earth Science Week: Geologists-in-the-Parks**

- **Host:** Vermont Geological Society and Vermont Geological Survey
- **Contact:** Marjorie Gale
- **Phone:** 802-241-3608
- **E-mail:** marjorie.gale@anr.state.vt.us
- **Location:** Groton, Mt. Philo and Little River State Parks
- **Information:** The sixth annual Earth Science Week is a national project jointly sponsored by the Vermont Geological Society, Vermont Geological Survey at the Agency of Natural Resources, Perkins Museum at University of Vermont, and the American Geological Institute. The Vermont Geological Survey and Vermont Geological Society will again be hosting Geologists-in-the-Parks on October 14, 2003. Field days are for school groups (grades 3-12) and reservations are required.

► **October 18, 2003- Earth Science Week: Quarry Open House**

- **Host:** OMYA, Inc.
- **Contact:** Alice Blount
- **Phone:** 802-770-7267
- **E-mail:** alice.blount@omya.com
- **Location:** Middlebury Quarry
- **Information:** Visit OMYA's white marble quarry at the popular Quarry Open House on October 18.

► **Exhibit continues through Earth Science Week until December 7, 2003- Dinosaur Eggs: Hatching the Past**

- **Host:** Montshire Museum
- **Phone:** 802-649-2200
- **E-mail:** montshire@montshire.org
- **Location:** Montshire Museum of Science, One Montshire Road, Norwich, VT 05055
- **Information:** Touring exhibit featuring over 100 dinosaur fossil eggs, dinosaur models and paintings of dinosaur family life.

► **October 20, 2003- UVM Geology Seminar Series**

- **Host:** Dept. of Geology, University of Vermont
- **Contact:** Tracy Rushmer
- **Phone:** 802-656-8136

- **E-mail:** Tracy.Rushmer@uvm.edu
- **Location:** Room 200, Perkins Geology Building, University of Vermont, Burlington, VT
- **Time** 4:15 P.M.
- **Information:** Tim McCoy, Smithsonian Institute, will present "Vesicular Meteorites: Where and How did They Form and Why are They So Rare?"

► **October 27, 2003- UVM Geology Seminar Series**

- **Host:** Dept. of Geology, University of Vermont
- **Contact:** Tracy Rushmer
- **Phone:** 802-656-8136
- **E-mail:** Tracy.Rushmer@uvm.edu
- **Location:** Room 200, Perkins Geology Building, University of Vermont, Burlington, VT
- **Time** 4:15 P.M.
- **Information:** Geoff Clark, University of Sydney, will present "High-P Partial Melting of Dioritic Gneiss: LA-ICPMS Analysis of Pembroke Granulite Mineralogy, Fiordland, New Zealand"

► **November 2-5, 2003- Geological Society of America**

- **Host:** Geological Society of America
- **Contact:**
- **Phone:**
- **E-mail:**
- **Location:** Washington State Convention and Trade Center, Seattle, Washington
- **Information:** Annual Meeting

► **March 25-27, 2004- Northeastern and Southeastern Sections of Geological Society of America**

- **Host:** Northeastern and Southeastern Sections of the Geological Society of America
- **Contact:** Meeting Co-Chairs: George Stephens and Rick Diecchio
- **E-mail:** geoice@gwu.edu or rdiecchi@gmu.edu
- **Location:** Tysons Corner, Virginia
- **Information:** Annual Meeting

► **September 17-19, 2004- New York State Geological Association 76th Annual Meeting**

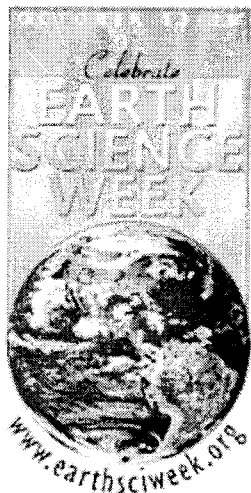
- **Host:** SUNY Potsdam
- **Contact:** Robert Badger
- **E-mail:** badgerrl@potsdam.edu
- **Location:** Potsdam, New York and surrounding area
- **Information:** See web site for details about workshops and field trips.



WASHINGTON STATE DEPARTMENT OF
Natural Resources

Geologic Field Trips
Washington

DIVISION OF GEOLOGY AND EARTH RESOURCES



Celebrate Earth Science Week with

Geologic Field Trips!

Washington State Geologic Field Trips

Real places to go, sites to see, geology to learn

"To learn geology one must travel widely and observe carefully, for geology is learned through the soles of your shoes, not the seat of your pants! The Earth is vast, its features, varied. One must climb mountains, travel over limitless plains, watch the waves of the sea beat unendingly upon the shore, study the work of mountain torrents as they carry their load to the sea, and learn to read the character of the rock record to understand the Earth. Delve deeply into the rocks, for truth is hidden there. Take heed to observe carefully the seemingly insignificant things, as each and every phenomenon and event is an integral part of nature's process. Be untiring in your zeal to learn; and when you have accumulated facts, give careful thought to their interpretation. Let all your work be marked by ceaseless patience, tireless industry, vigilant caution, and prolonged study. Nature's deeds are not erratic. What occurs is ruled by laws. When one is trained to read the geologic record, the deeds of nature become clear, usually simple, and amenable to understanding and description. The Earth gives no higher or nobler task than to study nature, to unlock her secrets and interpret her deeds."

Walter L. Manger, et al.
University of Arkansas Sigma Gamma Epsilon Initiation Ceremony.
(GSA Today, August 2000, p. 6)

Take a look at our extensive bibliography of Washington geologic field trip guidebooks and road logs. All of the listed titles are available at the Washington Division of Geology and Earth Resources Library, and many are available elsewhere.

These websites will give you information about and directions to the following Washington locations:

Stonerose
<http://www.stonerosefossil.org/visiting.htm>

Climb a Volcano: Mount St. Helens
http://vulcan.wr.usgs.gov/Volcanoes/MSH/NatMonument/climb_msh.html

Climb a Volcano: Beacon Rock
<http://vulcan.wr.usgs.gov/Volcanoes/Washington/BeaconRock/VisitVolcano/>

[framework.html](#)

Climb a Volcano: Battle Ground Lake (Boring Lava Field)
[http://vulcan.wr.usgs.gov/Volcanoes/Washington/BattleGroundLake/
VisitVolcano/framework.html](http://vulcan.wr.usgs.gov/Volcanoes/Washington/BattleGroundLake/VisitVolcano/framework.html)

Geology Adventures, Inc. provides geologist-led collecting trips to private mineral and fossil sites in the Northwest and beyond. <http://www.geologyadventures.com>

Educator's Guide to Mount St. Helens National Monument: Field Trips on the South Side of Mount St. Helens [2001?], looseleaf, 159 p. \$20

- Contact Abbie Dick, Science Materials Center, Science and Math Education Resources Center, 2500 NE 65th Avenue, Vancouver, WA 98661; phone (360) 750-7500 ext. 276; abbie.dick@esd112.org.
- Includes field trips to Ape Cave and Lahar, Lava Canyon, and Stratigraphy Viewpoints, with activity plans and lesson plans for each.

Take a geologic tour of the Natural Resources Building in Olympia!

Tour the buildings on the Capitol Campus in Olympia and learn about the marble used in their construction!

Take a geologic walking tour of downtown Spokane (since this report was originally published in 1981, building names might be changed and some buildings might be gone.)

If you belong to a rockhounding, fossil, mineral, gold panning, or geological club, check with their schedules to see when field trips are planned. If you would like to join a Washington rock, gem, and mineral club, check our [list of clubs](#).

See the Calendar of Events on our website. In the summer there are many classes, workshops, field trips offered to the general public by geologists and geology teachers.

If you plan a weekend trip or a vacation in Washington state, call the DGER Library to see if there is a road log, field trip guide or other publication describing the area you will be visiting. Or go online to <http://www2.wadnr.gov/dbtw-wpd/washbib.htm> (searchable database of Washington geological publications), type GUIDEBOOKS in the Subject field, and type the name of the county (or counties) in which you're interested in the Geo field. Hit "Enter" and get a list of geologic guidebooks for that area. These reports are held in the DGER Library.

Please tell us about other Washington geologic field trip webpages you've found. E-mail the URL to lee.walkling@wadnr.gov.

Selected reading (available from most local public libraries):

Alt, David D.; Hyndman, Donald W., 1984, **Roadside geology of Washington**: Mountain Press Publishing Company [Missoula, Mont.], 282 p.

American Geological Institute, 1976, rev.ed., **Dictionary of geologic terms**: Anchor Books, 472 p.

Clifford, Nick, 1996, **Incredible earth**: DK Publishing, Inc., 44 p.

DK Publishing, Inc., 1993, **The visual dictionary of the Earth**: DK Publishing, Inc. Eyewitness Visual Dictionaries, 64 p.

Educator's Guide to Mount St. Helens National Monument: Field Trips on the South Side of Mount St. Helens [2001?], looseleaf, 159 p.

Farndon, John, 2000, **How the Earth works**: Reader's Digest Association, Inc., 192 p.

Harris, Ann G.; Tuttle, Esther; Tuttle, Sherwood D., 1997, **Geology of national parks**; 5th ed.: Kendall/Hunt Publishing Company, 758 p.

Jackson, Julia A., editor, 1997, **Glossary of geology**; 4th ed.: American Geological Institute, 769 p.

Kiver, Eugene P.; Harris, David V., 1999, **Geology of U.S. parklands**: John Wiley & Sons, Inc., 902 p.

Komar, Paul D., 1997, **The Pacific Northwest coast--Living with the shores of Oregon and Washington**: Duke University Press, 195 p.

Mason, Charles L., 1996, **The geological history of the Wenatchee valley and adjacent vicinity, a pictorial essay**: Pixie Publishing [Rock Island, Wash.], 172 p.

Mueller, Marge; Mueller, Ted, 1997, **Fire, faults and floods--A road and trail guide exploring the origins of the Columbia River basin**: University of Idaho Press, 288 p.

Symes, R. F.; Natural History Museum staff, 2000, **Rocks and minerals**: Dorling Kindersley DK Eyewitness Books, 63 p.

Tabor, Rowland W.; Haugerud, Ralph A., 1999, **Geology of the North Cascades--A mountain mosaic**: The Mountaineers, 143 p.

Taylor, Paul D., 2000, **Fossil**: Dorling Kindersley DK Eyewitness Books, 63 p.

University of Washington Department of Geology; Livingston, V. E., Jr., 1963, **A geologic trip along Snoqualmie, Swauk, and Stevens Pass highways**: Washington Division of Mines and Geology Information Circular 38, 51 p. (available from DNR, Division of Geology and Earth Resources, 360-902-1450)

Van Rose, Susanna, 2000, **Volcano and earthquake**: Dorling Kindersley DK Eyewitness Books, 63 p.

Vernon, Ron, 2000, **Beneath our feet--The rocks of Planet Earth**: Cambridge University Press, 216 p.

Williams, Hill, 2002, **The restless Northwest--A geological story**: WSU Press, 163 p.

Wyckoff, Jerome, 1999, **Reading the earth--Landforms in the making**: Adastr West, Inc., 352 p.

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[Geoscience Education](#) | [DGER Home](#)

National Activities

*Science & Technology
2003*

Earth Science Week 2003

Nature of Activity

Geoscience Australia will be offering special volcano making workshops for school groups during the week. Geoscience Australia will also be coordinating Earth Science Week activities around Australia and will launch the week in Canberra.

To check out what's happening in your state visit the website www.ga.gov.au or email jeanette.holland@ga.gov.au or tel 02 6249 9731.



Dates

12 to 18 October 2003.
Check Geoscience Australia's website for further information.

Age groups

All school students

Contact

Jeanette Holland
Geoscience Australia,
Communications Unit
GPO Box 378
Canberra
ACT 2601
Phone 02 6249 9731
Fax 02 6249 9990
Email jeanette.holland@ga.gov.au
Web
www.ga.gov.au/education/events

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