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Earth Science Week 2002 Highlights

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SPECIAL UPDATE: President Bush's Earth Science Week 2002 Message

(Posted 10-18-02)

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 2002, which extends from October 13th to 19th. 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 17, 2002

I send greetings to those celebrating Earth Science Week, 2002, sponsored by the American Geological Institute.

The earth science industry is helping to improve the lives of Americans and people throughout the world. Dedicated and highly skilled geologists, geophysicists, and other earth and environmental scientists are working to protect and preserve our natural resources and environment. Their efforts are also keeping us safe from natural disasters and promoting our appreciation for the beauty and grandeur of nature.

During Earth Science Week, I encourage all Americans to recognize the vital role of the earth sciences in our lives, and to renew our commitment to good stewardship of the land. This year's theme, "Water Is All Around You," focuses on the importance of our natural resources and how they affect our health, our economy, and our National security.

I applaud those students interested in earth science for your hard work and dedication to this important field of study. I also commend science teachers, parents, and everyone involved for inspiring young Americans, and all our citizens, to acquire knowledge that will help shape our lives for decades to come. Your work strengthens our Nation and points the way to a brighter future for all.

Laura joins me in sending our best wishes for a successful week.

George W. Bush

http://www.agiweb.org/gap/legis107/esw_president1002.html

American Geological Institute
SPOTLIGHT
News from AGI and the geoscience community

AGI Press Release:
Geoscience Community
Plans Strategy for
Earth Science Week

FOR IMMEDIATE RELEASE
May 9, 2002

Contact: Michael J. Smith (207) 230-0046
E-mail: msmith@agiweb.org

Geoscience Community Plans Strategy for Earth Science Week

ALEXANDRIA, VA — Increasing public understanding and appreciation of the Earth sciences is of critical importance to our Nation and to the geoscience profession. Since its inception in October 1998, Earth Science Week has been celebrated annually in every state and several countries. Through these activities, thousands of scientists, educators, and youth leaders have reached millions of students and individuals. The success of Earth Science Week and other established annual programs like National Chemistry Week, National Science and Technology Week, National Engineers Week, and Geography Awareness Week, illustrates the enormous potential these programs offer for informal public education.

Compared to these other well-established programs, Earth Science Week is just getting started and has tremendous potential for growth and improvement. On Monday, April 22, 2002 (Earth Day), 37 geoscientists and educators attended the national Earth Science Week Outreach Meeting at the U.S. Geological Survey (USGS) headquarters in Reston, Virginia. Organized by the American Geological Institute (AGI) and hosted by the USGS, the meeting provided an opportunity for attendees to hear from individuals within organizations that have been conducting successful outreach programs and to explore critical issues in geoscience outreach. These issues were: 1) defining the scope of Earth Science Week; 2) expanding participation by AGI Member Societies; 3) establishing themes for future Earth Science Weeks; and 4) improving the effectiveness of Earth Science Week.

AGI President-Elect M. Ray Thomasson opened the event by urging attendees to help AGI take Earth Science Week “to a new level.” Charles “Chip” Groat, Director of the USGS, stressed the need to convey the relevance of Earth science and make it personal. Specifically, he pointed out how Earth Science Week will help accomplish these two goals. Mike Smith, AGI’s Director of Education, emphasized how important the meeting was in helping AGI staff to establish a strategic plan for Earth Science Week for the next five years. During the remainder of the morning session, six presenters shared their experiences and “lessons learned” from successful outreach programming. The afternoon session featured breakout discussions focused on key questions related to the goals of the meeting, on how participants might contribute to the overall Earth Science Week program in the coming year, and the role that they will play in implementing Earth Science Week activities in their organizations and geographic regions.

A significant outcome from the meeting was the adoption of the theme “Water is All Around You” for 2002 Earth Science Week. With a theme identified, AGI can better utilize the many suggestions generated during the working group sessions to expand and improve communication, collaboration, and implementation of Earth Science Week programming. Visit <http://www.earthscienceworld.org/week/> for

the latest news and information about Earth Science Week, including the complete report on the April 22 meeting.

The American Geological Institute is a nonprofit federation of 40 geoscientific and professional associations that represent more than 120,000 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 mankind'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>.

American Geological Institute

SPOTLIGHT

News from AGI and the geoscience community

AGI Press Release:
AGI Initiates Contests for
Earth Science Week

FOR IMMEDIATE RELEASE
August 22, 2002

Contact: Michael J. Smith (207) 230-0046
E-mail: msmith@agiweb.org

AGI Initiates Contests for Earth Science Week

ALEXANDRIA, VA — The American Geological Institute (AGI) is pleased to announce the launching of three national contests designed to inspire citizens to get involved in Earth Science Week. The 2002 Earth Science Week celebration will take place October 13-19, and will focus on the theme, "Water is All Around You." The contests coincide with the debut of a new Earth Science Week web site, <http://www.earthsciweek.org>. Each of the three contest categories – Photography, Art, and Writing – encourages participants to take a unique perspective on the water theme. All entries must be postmarked by October 1, 2002. Cash prizes will be awarded to the Grand Prize winner in each contest. Winners will be announced during Earth Science Week and posted on the Earth Science Week web site.

Entries in each contest will be judged by a panel of geoscientists and teachers. Contestants of all ages are invited to submit photographs to the Earth Science Week Photography competition. Entries are to capture some aspect of the Earth or Earth sciences. The Grand Prize photograph will be included in the 2003 Earth Science Week logo and will be published in a future issue of *Geotimes* magazine. Elementary-school students in grades K-6 are eligible to participate in the Earth Science Week Art Contest. Drawings, paintings, or other two-dimensional artwork depicting the theme, "Water 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 secondary-school students in grades 7-12. Entitled "A Day in the Life of a Water Molecule," entries are limited to 500 words and are to be creative works that focus on the ways in which water molecules move through the water cycle and affect the Earth. 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.

Visitors to the Earth Science Week web site, <http://www.earthsciweek.org>, will find complete descriptions of each contest, entry forms, and other information about getting involved in Earth Science Week events. The site includes information about water and water resources, listings of Earth Science Week activities planned across the country, and contact information for Earth science resources in each state. In addition, visitors can join in a discussion forum or a listserve to share ideas for planning Earth Science Week events, and they can find links to ideas for Earth Science Week activities for the classroom that comply with the National Science Education Standards.

AGI established Earth Science Week in 1998 to give students and citizens new opportunities to discover the 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. Organizers emphasize a different facet of Earth science each year. In 2002, Earth Science Week focuses on one of the most important natural resources on our Earth – water. This year, AGI's efforts to coordinate Earth Science Week are supported by generous grants from the U.S. Geological Survey and the American Association of Petroleum Geologists Foundation.

The American Geological Institute is a nonprofit federation of 40 geoscientific and professional associations that represent more than 120,000 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 mankind'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>.

SPOTLIGHT

News from AGI and the geoscience community

FOR IMMEDIATE RELEASE
October 24, 2002

Contact: Michael Smith: (207)230-0046
E-mail: mjs@agiweb.org

AGI Announces the Winners of Earth Science Week Contests

ALEXANDRIA, VA — The American Geological Institute is proud to announce the winners of three Earth Science Week contests. These contests were designed to encourage students and the public to participate in this annual celebration which recognizes the importance of Earth sciences in our lives. This year's contests included an art contest for elementary school children, an essay contest for secondary school students, and a Photography Contest open to all ages. Winners in each contest were selected from more than 450 entries.

The winner of the Art Contest, featuring the theme "Water World," is Janet Jonasson's First Grade Class at Madison Elementary School in Indio, CA. Their collective artwork, entitled "Water: Every Drop Counts," was displayed during Earth Science Week, October 13-19, at the U.S. Geological Survey's headquarters building outside Washington, DC. The winner of the essay contest, "A Day in the Life of a Water Molecule," is Grier Simmons, age 13, of Iron Station, NC. His essay, "Drizzle's Day," will be published in a future issue of *Geotimes*, AGI's monthly newsmagazine of the Earth sciences. The winner of the Photography Contest is Ray Kenny of Durango, CO, who submitted a photograph taken at Willis Creek in southeastern Utah. This winning photograph will also be published in a future issue of *Geotimes*. Winning entries and finalists for each of these three contests can be viewed by visiting the Earth Science Week web site, <http://www.earthsciweek.org>.

This year's Earth Science Week celebration was a tremendous success, with events held in more than 30 cities across the U.S. and in several countries. Earth Science Week 2002 was officially proclaimed by 19 states and was recognized by President George W. Bush. "The Earth science industry is helping to improve the lives of Americans and people throughout the world. Dedicated and highly skilled geologists, geophysicists, and other Earth and environmental scientists are working to protect and preserve our natural resources and environment. Their efforts are also keeping us safe from natural disasters and promoting our appreciation for the beauty and grandeur of nature," wrote President Bush.

The theme for Earth Science Week 2002 was "Water is All Around You," emphasizing the importance of water as one of the Earth's greatest natural resources. This theme coincided with the declaration of 2002 as the Year of Clean Water, marking the 30th anniversary of the Clean Water Act.

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.

To participate in future Earth Science Week celebrations, visit the Earth Science Week web site at <http://www.earthsciweek.org> or contact Cynthia Martinez, Earth Science Week Coordinator, at (703) 379-2480 ext. 227 or cmm@agiweb.org.

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 mankind'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>.

USGS
science for a changing world

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Earth Science Week **October 13-19, 2002**

Water is all around you

Director's Message

Local Activities

National Water Monitoring Day
October 18

Learn how to participate

Celebrate the year of clean water

"Water is All Around You" is this year's theme for Earth Science Week (ESW), an annual event sponsored by the American Geological Institute and its member organizations. This year's event coincides with National Water Monitoring Day, October 18, sponsored by America's Clean Water Foundation.

The science of the USGS benefits lives in countless ways; Earth Science Week is a great opportunity to increase public awareness of the diversity of scientific expertise within the USGS and the ways in which USGS contributes to the health and vitality of citizens, communities, our Nation and our world. Take an online journey through the wealth of natural science information available from the USGS in its web pages.

For more information, contact: Karen Wood or Gail Wendt

Director's Message | Activities | USGS WWW Links | National Water Monitoring Day

U.S. Department of the Interior, U.S. Geological Survey, Reston, VA, USA

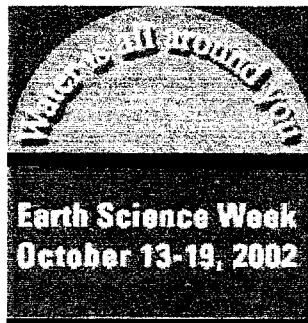
URL <http://www.usgs.gov/earthscience/index.html>

Contact: USGS Web Team

Last modification: 30-Sep-2002@17:42

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USGS Activities In Your State



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.

[Arizona](#) | [California](#) | [Colorado](#) | [Florida](#) | [Georgia](#) | [Louisiana](#) | [Massachusetts](#) | [Ohio](#) | [Pennsylvania](#) | [Texas](#) | [Washington](#)

Arizona

Open House at Flagstaff Field Center

Contact: [Sue Priest](#)

The USGS Flagstaff Field Center will host an Open House on September 28, 2002, from 9:00 am - 3:00 pm featuring exhibits, interactive activities and tours of the facility as part of Earth Science Week and the Flagstaff Festival of Science.

Highlighted will be the public opening of our newest building - the Shoemaker Center for Astrogeology in which visitors can take a walk through the solar system, participate in planetary activities, and learn about USGS participation in space research. In addition, visitors will learn about more geology, mapping, biology and water resources. USGS scientists will doing presentations at local schools during the week.

Workshop for K-12 Educators To Focus on Internet Mapping Tools

Contact: [Joseph Kerski](#)

USGS geographer Joseph Kerski will conduct a workshop at the University of Arizona, October 2, 2002, for K-12 educators from across the state as part of the University of Arizona's Sherrill Scholar Program. The workshop, will focus on the use of Internet mapping tools that offer USGS data, such as topographic maps and aerial photographs through Terraserver, biological, water resources, and earth science-related maps through The National Atlas, and near real-time wildfire maps

through GeoMac.

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California

USGS Participates in Community Event to Promote Earth Science as a Community Resource

Contact: [Liz Colvard](#)

The USGS will participate in an event in Visalia, Calif., October 16, sponsored by a California business group to promote what the City of Menlo Park -- where the USGS resides -- has to offer. The USGS is providing "gift baskets" of free, publicly available USGS products to demonstrate the breadth and benefits of natural science information available to the public from the USGS as a partner in the local community.

Field-trip to the San Andreas Fault (for teachers)

Contact: [Phil Stoffer](#)

On Sunday, October 13, USGS geologist Phil Stoffer will be leading a field trip for teachers to examine the San Andreas Fault in the Santa Cruz Mountains in the Mid-Peninsula region between San Francisco and San Jose. Stops will include a walk along the "Earthquake Trail" at Las Trancos, visits to a quarry, sag pond, and overlooks in the Monte Bello preserve, and a tour of outcrops throughout the Russian Ridge natural area (all within several miles of each other). Invited participants include K-12 teachers and park docents affiliated with the Bay Area Earth Science Institute (BAESI) and Bay Area Schools for Excellence in Education (BASEE). The 8am-5pm trip will involve hiking about 4 miles, and will include introduction to interpreting USGS topo maps and geologic maps, geology-ecology relationships, and evaluation of a paleoindian archeological site. Participants can earn college credit for participation through San Jose State University.

Drawing Contest and Activities at KidSpace Museum

Contact: [Wendy Shindle](#)

The USGS Pasadena Earthquake Hazards office is sponsoring a drawing contest for Pasadena U.S.D. elementary students in celebration of Earth Science Week. Prizes include USGS earthquake posters, lanyards, and more! Winning entries will be displayed in KidSpace Museum and the winning pictures and the artist's names will also be posted on the USGS Pasadena website during Earth Science Week.

In addition, the USGS Pasadena office will be leading two Earth Science activities for kids at KidSpace Museum in Pasadena. October 17, 6:45-7:45 PM and October 19, 1:00-2:00 PM.

USGS Exhibits at California State University Sacramento Campus

Contact: Dale Cox

Earth science exhibits and displays detailing USGS research in California will be on display October 15-18 at the California State University Sacramento Campus. Model volcanic eruptions staged periodically throughout the day.

USGS Scientists Visit Congressional Staff

Contact: Dale Cox

On October 15 and 16 USGS scientists will meet with staffers of congressional offices, including Rep. Howard Berman, Rep. Brad Sherman, Rep. Henry Waxman, and Rep. Hilda Solis to discuss on-going USGS integrated earth science research in the Los Angeles area.

USGS Lake Tahoe/Truckee River Streamgauge Dedication

Contact: Dale Cox

On October 18, USGS in coordination with the Tahoe City Public Utilities District will dedicate a newly remodeled streamgauge situated in a recently redesigned park and bike path area. Exhibits, displays, and streamflow monitoring demonstrations as part of National Water Monitoring Day.

USGS Demo Streamgaging

Contact: Dale Cox

USGS scientists will demonstrate streamgaging to children of the Pala and the La Jolla reservations on October 18 in coordination with the EPA, Department of Interior, and San Diego State University.

USGS Conducts Water Sampling Activities for Indian Reservation schools

Contact: Ronald Fay

USGS water quality technician Ronald Fay and scientist emeritus Eleanora Robbins will conduct water sampling activities for students at several southern California Indian reservation schools in conjunction with National Water Monitoring Day and Earth Science Week. Included are fourth graders from the Casita Center Science and Technology Magnet School in Vista; and, pre-school children from the La Jolla Reservation Head Start program, who will measure the

San Luis Rey River on their reservation. Students will also tour a USGS water-quality van and see how testing equipment is used to sample water quality.

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Colorado

GIS in the Rockies Conference

Contact: [Joseph Kerski](#)

USGS scientists will conduct a workshop and host an exhibit at the 2002 "Geographic Information Systems in the Rockies" conference October 7-11, 2002 at Denver's Merchandise Mart. The workshop will focus on helping data users make effective use of USGS spatial data for decision making within a geographic information system. In addition, the USGS will highlight its mapping liaison work in Colorado, homeland security, wildfire mapping, and The National Map. Over 750 GIS professionals and university students are expected to attend.

Tour the USGS Mapping Center in Denver, Colorado

Contact: [Joseph Kerski](#)

During Earth Science Week, the USGS will conduct tours for educators and students of its Rocky Mountain Mapping Center facility in Denver, where over 50 million maps, books, CDs, and other resources useful for Earth Science teaching are housed. In addition the USGS will distribute posters, lesson plans and other materials on such topics as water quality, global change, land use, Chronic Wasting Disease, West Nile Virus, invasive weeds, and natural hazards. Demonstrations will be provided on ground water, soil erosion, and how USGS scientists measure the amount of water flowing in a river. There will be daily drawings for prizes that include Geode stones and a variety of popular posters and maps.

Hours are 8:00 am to 4:00 pm Tuesday through Friday, closed on Monday Oct. 14th

USGS Research Featured at Geological Society of America Conference

Contact: [Joseph Kerski](#)

The USGS will present results of its earth science-related research and distribute information in several USGS exhibits at the Geological Society of America conference, on October 27-30, 2002, at Denver's Colorado Convention Center. Over

10,000 researchers, educators, and scientists are expected to attend.

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Florida

Visit the USGS Stream Gage in Tampa, Florida

Contact: [Yvonne Stoker](#)

The USGS will be demonstrating water quality sampling techniques, state-of-the-art discharge measurement techniques, continuous water monitoring gages, and the USGS real-time water monitoring network on the banks of the Hillsborough River in downtown Tampa, October 18 as part of Earth Science Week and National Water Monitoring Day. The event will include live discharge measurements using a Broad Band Acoustic Doppler discharge system with real-time display of results on laptop computers; demonstration of the water quality sampling protocol; tours of a specialized water quality sampling vehicle; a display of laptop computers with links to the USGS real-time water network; and demonstration of a working USGS gage.

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Georgia

USGS Exhibit at Sunbelt Agricultural Exposition

Contact: [Nancy Barber](#)

The USGS Georgia District will man an exhibit at the 25th annual Sunbelt Agricultural Exposition in Moultrie, Georgia, October 15-17, 2002. The exhibit will use the Earth Science Week theme and materials of "Water Is All Around You", and will include information on ground- and surface-water resources of Georgia and on various USGS activities of interest to the agricultural community and the residents of Georgia and neighboring States. The Sunbelt Agricultural Exposition (<http://www.sunbeltexpo.com/>) typically attracts 200,000 visitors from around the world, and is billed as North America's premier farm show.

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Louisiana

USGS Pariticipates in "Experience Science Saturday"

Contact: Cheryl A. Johnson

On Saturday, October 12, the USGS outreach staff will participate in a combined exhibition/workshop session for teachers celebrating the 10th Annual "Experience Science Saturday" at Westdale Middle School in Baton Rouge. The Louisiana District has participated in this event as an exhibitor for three years. This program is sponsored by the Louisiana Resource Center for Educators (LRCE) and has trained more than 5,000 teachers and impacted over 150,000 students within the last ten years.

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Massachusetts

Open House at the Conte Anadromous Fish Research Center

Contact: Stephen Rideout

The Conte Anadromous Fish Research Center located in Turner Falls will be holding an Open House, October 3-5 in celebration of Earth Science Week. More than 150 students from the Great Falls Middle School in Turners Falls will visit the Center October 3-4. On Saturday, October 5, the public is invited to attend the Open House, from 10 a.m. to 4 p.m. The Saturday event also coincides with the Connecticut River Watershed Council's "Source to the Sea" river clean up, as well as with a proposed ribbon cutting ceremony to dedicate the site Master Plan implementation for the Great Falls Discovery Center, a collaborative effort between the Massachusetts Department of Environmental Management, U.S. Fish and Wildlife Service, Massachusetts Department of Fish and Wildlife, Northeast Utilities, the Town of Montague and the USGS.

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Ohio

Measuring Water Quality and Quantity at Highbanks Metro Park

Contact: Mike Eberle

The USGS will be demonstrating how to measure streamflow in the Olentangy River, water levels in a monitoring well, and stream and ground-water quality, all at Highbanks Metro Park on October 13, from 1:00 to 4:00 p.m to celebrate Earth

Science Week. Park personnel will be leading geology hikes and collecting benthic invertebrates in the Olentangy. The Franklin and Delaware County Soil and Water Conservation Districts will lead park visitors through a soil-profile pit and explain how soil horizons develop. The Ohio Department of Natural Resources, along with various other agencies and organizations, will have exhibits, distribute educational earth-science materials, and lead fun activities for kids and adults.

Highbanks Metro Park is located north of Columbus at 9466 Columbus Pike (US Route 23-N), Lewis Center, OH 43035. From I-270, take U.S. 23 north about 3 miles. Entrance to park is on the left, just before Powell Road.

School Field Trips, K-8 students at Highbanks Metro Park

Contact: Mike Eberle

The USGS will measure ground-water flow using a sand-tank model and demonstrate how to measure streamflow in the Olentangy River, water levels in a monitoring well, and stream and ground-water quality at one of several "education stations" at Highbanks Metro Park on October 16, from 9:30 a.m. to 4:30 p.m. Other agencies will be collecting aquatic insects and examining soil profiles in a pit dug especially for Earth Science Week events.

Highbanks Metro Park is located north of Columbus at 9466 Columbus Pike (US Route 23 N), Lewis Center, OH 43035. From I-270, take U.S. 23 north about 3 miles. Entrance to park is on the left, just before Powell Road.

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Pennsylvania

National Council for Geographic Education Conference

Contact: Joseph Kerski

The USGS will conduct workshops and host an exhibit at the 2002 annual conference of the National Council for Geographic Education (NCGE) being held October 16-18, 2002 in Philadelphia, PA. The NCGE is the largest professional geographic education association in North America with over 3,000 members. The workshops will focus on mapping test scores and using USGS maps and Internet resources in the curriculum for the over 800 teachers who are expected to attend the conference. The USGS will distribute maps, lesson

plans, posters, and CDs on such topics as global change, land use, invasive weeds, population, floodplains, and natural hazards.

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Texas

USGS Participated in Earth Science Career Day at Bureau of Economic Geology

Contact: [Dee Lurry](#)

On October 15, 2002, approximately 300 middle school children will attend an Earth Science Career Fair at the University of Texas' Bureau of Economic Geology. As part of the planned activities, staff from the USGS district office in Austin will lead kids through the popular Water Jeopardy game. Many state and Federal agencies as well as consultants and non-profits participate in the annual event created to get young people to consider earth science as a career choice.

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Washington

USGS Hosts Teacher Workshop Focusing on Volcano curriculum

Contact: [Carolyn Driedger](#)

Staff from the USGS Cascades Volcano Observatory will hold a teacher workshop and introduce volcano curriculum activities to middle school teachers in areas at risk from volcano hazards, on October 5th. The Mount Rainier curriculum "What to do with a Volcano in your backyard" is being assembled collaboratively by the USGS Volcano Hazards Program, the National Park Service, and by teachers in four school districts located in areas at risk. This full-day workshop will provide approximately 20 teachers from a broader area a chance to test the activities and make final comment before the curriculum is placed on the Internet in 2003.

The USGS Cascades Volcano Observatory (CVO) participates in Emergency Management Events

Contact: [Carolyn Driedger](#)

The USGS-CVO will participate at Emergency Management events in Lacey, Puyallup and Tacoma, and will display exhibits about Mounts Baker, Rainier and Glacier Peak. Volcano posters

and cutouts are two of the most popular items selected by children at these events.

Aquifer and River Open House in Spokane

Contact: John Clemens

On September 28, USGS will conduct demonstrations of how scientists measure the water quantity and quality in the Spokane River and the Spokane/Rathdrum Aquifer. Exhibits will show how sound waves are used to find the bottom of the aquifer. Two wells will be used to show aquifer water quantity and quality. Information about water will be available from local water companies, Washington State Department of Ecology, Spokane County, and others. Fun, water-related activities for children, including an Aquifer Protection Poster Contest. Co-sponsored by USGS, Spokane Aquifer Joint Board, Washington State Department of Ecology, and Spokane County.

USGS Participates in Water Monitoring Expo in Tacoma

Contact: John Clemens

On October 18, USGS scientists will provide demonstrations of how USGS scientists measure the amount of water flowing in a river, check the water level in a well, and test for chemicals in water at the Water Monitoring Expo being held in downtown Tacoma. A USGS water-quality mobile lab and equipment will be on display. For updated information, see the Web page at <http://wa.water.usgs.gov/monitor/>. Co-sponsored by the USGS, the University of Washington-Tacoma, and Pierce County Stream Team.

Test Your Well Water

Contact: John Clemens

On October 14-18, homeowners in a network of more than 600 water wells in Grant, Adams, and Franklin Counties, in eastern Washington will sample their own well water to be tested for concentrations of nitrate. Nitrate test kits will be distributed in the communities' grocery stores. Co-sponsored by USGS; the Tri-County Ground-Water Management Area; Grant, Adams, and Franklin Counties; Washington State Department of Ecology; local conservation districts; and the U.S. Environmental Protection Agency.

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STANDARDS	READING LIST	EARTH SCIENCE WEEK
RESOURCES	SUBARU EDUCATOR	CRITICAL ISSUES
BIGGS AWARD	OEST AWARD	LINKS
"ADVENTURE GEOLOGY" TALKS	RECOMMENDED READING	TIPS
WHY SHOULD I GET INVOLVED?	ACTIVITY IDEAS	USEFUL WEB SITES

What's happening this year?

Earth Science Week

October 13–19, 2002

What will YOU do to enhance geoscience awareness in your community this year?



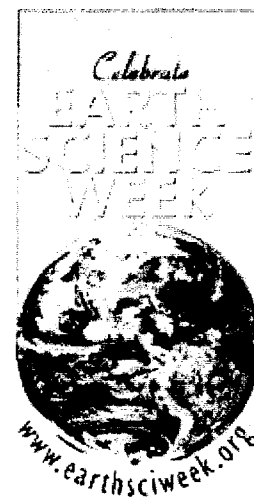
Lecture Series

What is Earth Science Week?

Earth Science Week, the second full week in October, is an annual celebration of the contribution geoscience makes to society. The resolution to establish Earth Science Week was initiated by the Association of American State Geologists and was read into the Congressional Record in July 1998 by Senator Ron Wyden of Oregon.

Read the message from President Clinton (2000) encouraging all Americans to participate in Earth Science Week activities. The promotion of Earth Science Week is one of the 50th anniversary initiatives of the American Geological Institute (AGI), of which GSA is a member.

GSA urges each of you to set aside at least one day during Earth Science Week to reach out to your community and promote the creation of a conscientious society committed to the responsible use of Earth and its resources. **Write to your Elected Officials!** GSA member participation in Earth Science Week activities will help implement GSA's goal to support geoscience in the service of society. This site provides information and ideas to assist you in planning your Earth Science Week activities.



For more information and resources, visit AGI's Earth Science Week Web site.

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Last Revised on October 17, 2002

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NSTA Calendar

October 2002

through

November 2002

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Oct 18 2002 - Earth Science Week 2002

"Water Is All Around You" is the theme of this year's Earth Science Week, organized by the American Geological Institute (AGI). The event is held in the second week of October to celebrate the contributions of geosciences to society. Via AGI's website (see below), you can order an information kit, find out about local and regional activities, and invite a geoscientist to your classroom. Teachers and curriculum coordinators should follow the Participate! link for ways to get students involved. View pictures of the Earth at "Earth Data—A Current View of the Earth" (www.earthscienceworld.org/data). This page features news events, links to satellite images of the Earth, and the prices of various Earth resources. Many additional K–12 earth science activities can be found at www.earthscienceworld.org/activities/wrapper.html?page=index.html. U.S. Geological Survey online resources, activities, and events in support of Earth Science Week will be featured as they are available on www.usgs.gov/earthscience/activities.html. Check back frequently to see what's happening. Many of the National Parks will be hosting Earth Science Week Events. These events provide opportunities to learn about earth science and its place in the National Parks. The website www.aqd.nps.gov/grd/esw/events.htm allows you to search for events by park name and lists parks holding events in alphabetical order. Another section of the site (www.aqd.nps.gov/grd/esw/activities.htm) contains educational activities that can be done during Earth Science Week.

Website: [Click here](#)

Cost:

Deadline: -

Region

- All Regions
- Canada
- Central
- International
- North
- North
- South
- South

Event

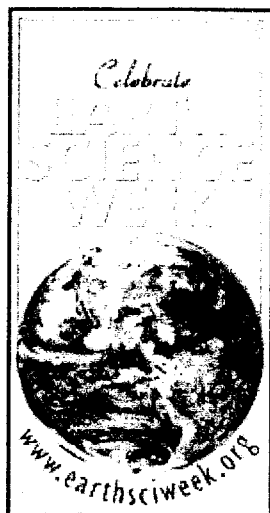
- All Categories
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- Scientific
- Scientific
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- Tour
- Univer
- Work

Event

- Elementary
- Middle
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Su

Search



Earth Science Week and SEG

October 13-19, 2002

As SEG members, we can join the celebration and:

- Give students opportunities to discover the Earth Sciences
- Publicize the message that Earth Science is all around us
- Encourage stewardship of the Earth
- Share your knowledge and enthusiasm about the Earth

To more easily enable you to make presentations to your local Elementary School about Exploration Geophysics, we have prepared several PowerPoint slide sets for you that have a basic introduction to geophysics and to petroleum exploration. Electrical, Magnetic, Gravity, and Seismic methods are covered in the geophysics slide set along with fun experiments that you can use to help keep the kids interest.

You will find that these K-12 slide sets are available in many languages!

SEG K-12 Slide Sets

Please join us in participating in this worthwhile and exciting event!

To find out more about Earth Science Week, look at

**American Geological Institute
Earth Science Week WEB Page**

Date: 22 October 2002

To: Department of Geological Sciences and Other Participants
in ASU Earth Science Day 2002

From: Jim Tybureczy and Tom Sharp, Earth Science Day 2002 Coordinators

Re: Earth Science Day 2002- Thank you for all your help

ASU Earth Science Day 2002 was sponsored by the Department of Geological Sciences on Saturday, October 19, 2002. We counted a total of 939 parents, children, teachers, and other visitors at the reception table so we estimate that total attendance was over 1000 people, an increase of over 50% from last year's attendance. The more than 30 activities, booths and demonstrations were very well received by all the visitors who attended. I would like to extend our sincerest gratitude to all who helped make this a very special event. Earth Science Day embodies much of what is very special and unique to our Department and that is a deeply held commitment to outreach and a productive collegiality that allows us all to work together toward this worthy goal. It was great working with all of you to put on this event.

Large numbers of students and faculty from the Department of Geological Sciences, including undergraduates, volunteered. I cannot name all who helped, but I am very very grateful for all the effort put out to help with this event. All our staff put forth great efforts as well. The Space Photography Lab Open House coordinated by David Williams and Charles Hewett, was, as always, a great foundation for the event, the MARS TES Outreach group headed by Sheri Klug brought a slew of great activities and enthusiasm, Astrobiology put on a great show coordinated by Becky Davis and the ASU Robert S. Dietz Geology Museum supervised by Brad Archer was a very popular attraction. The Department of Geography brought student volunteers, a number of faculty and staff participants, and a great set of activities all outstandingly coordinated by Maria Farmer. The NASA Space Grant group from Mechanical and Aerospace Engineering brought their Moon Buggies and their 3-Corner Satellite with student volunteers as well. Volunteers from the Center for Environmental Studies 'Ecology Explorers' program participated as did 'Lucy' and volunteers from the Institute of Human Origins. Conrad Storad of ASU Research Publications provided copies of the 'Chain Reaction' and 'ASU Research' magazines and other freebies. We thank you all for your efforts and support of ESD 2002. If anyone has photographs of ESD 2002, we'd like to see them and to get some of them up on our web site. Ramon Arrowsmith has already put some of the Balloon Aerial Photography photos up on his site at http://activetectonics.la.asu.edu/Earth_Sci_Day_02_Balloon_Photos/

Many people contributed extra special efforts to our success this year. The front office staff did an outstanding job of coordinating the pre-event mailers, planning for the event in the month's leading up to it, reproducing thousands of flyers, tracking down last minute supplies, making sure that the refreshments for volunteers appeared at the proper time and place. In addition to all that work, Del Schrag and Mary Lemon (and her husband and son!) made big contributions during the fun on Saturday, too! Behind the scenes, Cammy Cecil made sure that everything was progressing smoothly. Maria Farmer and Cammy did a great job in organizing food and refreshments. Chris Skiba took care of the physical plant needs outstandingly, and Sue Selkirk anticipated our every need in providing signs, banners, and other graphic needs. Joan Bahamonde got our web page up and running and helped keep the computer and A/V efforts on track.

Geological Sciences students provided huge amounts of time and effort that made the whole event successful. The Geology Club, coordinated by Matt Hansen and Mimi Diaz, was very visible and helpful. The Club provided the free rock and minerals samples for kids, and had a successful mineral and refreshment sale. Students put in huge amounts of effort in every facet of Earth Science Day and the Department thanks you all very very much.

Our pre-event publicity consisted of (1) direct mailings to teachers and parents on the Departmental, Space Photography Lab, MARS TES, and Arizona Science Teacher's Association (AzSTA) mailing lists; we are very grateful to these groups for sharing their data with us, (2) the announcement on our web page, (3) and announcements in the ASU Insight and the Arizona Republic.

The dates for next year's national Earth Science Week (sponsored by the American Geological Institute, <http://www.agiweb.org/>) have not been announced yet. We will be on the lookout for new ideas and activities to include.

Very few events on campus involve such a high degree of participation from a department. And the fact that we've done this for 5 years now is testament to our commitment to community outreach and to the presentation of the best face of ASU to the public. We appreciate your support and help in putting on Earth Science Day, especially the great amount of time and effort that the students and our staff put in to it. It could not be done without support and participation from the entire Geological Sciences Department! Thank you and congratulations for a job well done!



WILDLIFE PARKS WATER GEOLOGY OIL & GAS LAND MINING FO

Colorado

News Release: The Colorado Geological Survey announces ESW



News about Colorado's Natural Resources



10/8/2002

Colorado Geological Survey

The Colorado Geological Survey announces Celebration of the Fifth Annual Earth Science Week

*Governor Bill Owens has declared that October 13-19th is **Earth Science Week in Colorado**. "Earth sciences are integral to finding, developing, and conserving mineral, energy, and water resources; to providing the basis for preparing for and mitigating natural hazards such as landslides, floods, earthquakes, and expansive soils; and are critical to environmental and ecological issues ranging from water and air quality to waste disposal"*

News Release

For Immediate Release

October 2, 2002

News Contact: Vince Matthews
(303) 866-2611

The Colorado Geological Survey announces Celebration of the Fifth Annual Earth Science Week

Governor Bill Owens has declared that October 13-19th is **Earth Science Week in Colorado**. "Earth sciences are integral to finding, developing, and conserving mineral, energy, and water resources; to providing the basis for preparing for and mitigating natural hazards such as landslides, floods, earthquakes, and expansive soils; and are critical to environmental and ecological issues ranging from water and air quality to waste disposal", explains Governor Owens. He further stated that understanding the geological factors of resources, hazards, and environment are vital to land management and land use decisions made in Colorado.

Earth scientists across Colorado and the country will celebrate Earth Science Week by leading field trips, visiting classrooms, and engaging in other special activities. Two field trips, free to the public, will be offered and led by the geologists at the Colorado Geological Survey. The mineral resources of the Front Range area will be the focus of a field trip along the Front Range on Saturday, October 12th. The world famous Purgatoire River dinosaur trackway near La Junta will be the subject of a field trip in the southeast part of the state on Saturday, October 19th. A talk entitled "Avalanche Safety in Colorado" is jointly sponsored by the Colorado Geological Survey, the Geological Society of America, and REI. Presenting the talk will be Halsted Morris, Avalanche Safety Course Instructor and Field Observer, Colorado Geological Survey, Colorado Avalanche Information Center (CAIC). The lecture is on 10/19/2002 from 2:00-3:00 p.m. at the REI flagship store.

For further information visit <http://geosurvey.state.co.us/> or call 303-866-2611.

<http://www.dnr.state.co.us/news/press.asp?pressid=2119>

SUBJECT: Earth Science Week 2002 Activities from USGS Rocky Mountain
Mapping Center - Submitted by Joseph J. Kerski from . on 8/19/02 2:03:00 PM

During Earth Science Week, the USGS will conduct tours for educators and students of its Rocky Mountain Mapping Center facility in Denver, where over 50 million maps, books, CDs, and other resources useful for Earth Science teaching are housed.

USGS Geographer Joseph Kerski will conduct a workshop for K-12 educators from across Arizona through the University of Arizona's Sherrill Scholar Program. The program brings together geography teachers from across the state and geography instructors from across the country for the purpose of expanding the use of geography throughout the curriculum. Kerski's workshop on 2 October 2002 will focus on the use of Internet mapping tools that offer USGS data, such as topographic maps and aerial photographs through Terraserver, biological, water resources, and earth science-related maps through The National Atlas, and near real-time wildfire maps through GeoMac.

USGS scientists will conduct workshops and host an informational exhibit at the 2002 "Geographic Information Systems in the Rockies" conference from 7-11 October 2002 at Denver's Merchandise Mart. The workshops will include one from Geographer Joseph Kerski that helps data users make effective use of USGS spatial data for decision making within a geographic information system. In addition, the USGS will highlight its mapping liaison work in Colorado, homeland security, wildfire mapping, and The National Map at the conference. Over 750 GIS professionals and university students are expected to attend.

The USGS will conduct workshops and operate an informational exhibit at the 2002 annual conference of the National Council for Geographic Education (NCGE), 16-18 October 2002, in Philadelphia, Pennsylvania. The NCGE is the largest professional geographic education association in North America with over 3,000 members. The workshops will focus on mapping test scores and using USGS maps and Internet resources in the curriculum for the over 800 teachers who are expected to attend the conference. The USGS will distribute maps, lesson plans, posters, and CDs on such topics as global change, land use, invasive weeds, population, floodplains, and natural hazards.

The USGS will present results of its earth science-related research and distribute information in several USGS exhibits at the Geological Society of America conference, 27-30 October 2002, at Denver's Colorado Convention Center. Over 10,000 researchers, educators, and scientists are expected to attend.

Joseph J. Kerski, Ph.D. Geographer: Education/GIS US Geological Survey Building 810 - Entrance W-5 - Room 3000 Box 25046 - MS 507 Denver CO 80225-0046 USA	jjkerski@usgs.gov Voice 303-202-4315 Fax 303-202-4137 http://rockyweb.cr.usgs.gov/public/outreach/
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University of Kentucky

**Department of Geological Sciences
Kentucky Geological Survey**

**Earth Science Week - Open House
Wednesday 6-8 p.m. October 16, 2002**

Plan to attend our annual open house during Earth Science Week.

**Location: Slone Building and Mining and Minerals Building
(KGS Building) on the UK campus**

Activities will include The Rock Pile (start your own rock and mineral collection), groundwater activities, rocks under the microscope, fluorescent mineral display, and seismology demonstration.

**For more information on national Earth Science Week, please
go to**

<http://www.earthsciweek.org/>



EXHIBITS

- SpaceLink Main Page
- Exhibit Components
- Latest Space News
- Live Events
- Fun Space...Games & More
- For Educators
- About SpaceLink
- SpaceLink Calendar



Earth Science Celebration

October 18-19, 2002

Hundreds of students visited SpaceLink during our celebration of Earth Science Week, October 18-19, 2002. Science educators from the American Geological Institute (AGI) were present during the celebration to share their knowledge about Earth Science with our visitors.

- Friday, October 18, from 11 AM to 2 PM:
Tom Johnson and Abi Howe
- Saturday, October 19, from 1 PM to 3 PM:
Cindy Martinez and Mark Carpenter

While here, AGI educators gave away Earth Science Week commemorative posters, balloons, and bookmarks. They also had available sample rocks and tools used in the field. This year's theme was *Water is All Around Us*.



This year marked the fifth annual national Earth Science Week celebration. October 18 was also National Water Monitoring Day.

Internet Links

American Geological Institute
Official page for the American Geological Institute.

Earth Science Week
Official web site for Earth Science Week.

National Water Monitoring Day
Official page for the National Water Monitoring Day event.

Sound Waves

Coastal Science & Research News from Across the USGS

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Outreach

Sound Waves

October 2002

[print this issue](#)**Woods Hole Field Center to Celebrate Earth Science Week****By Kate Visser**

October 2002

in this issue:

[previous story](#) | [next story](#)

National Earth Science Week runs from October 13 to 19, and the U.S. Geological Survey (USGS) in Woods Hole, MA, is inviting local students (in kindergarten through eighth grade), along with parents and teachers, to an Earth Science Week celebration entitled "GeoFest: Earth Adventures." Earth Science Week is celebrated annually to increase public awareness and understanding of the Earth sciences and to give people of all ages the opportunity to discover the connection between their lives and the Earth. The USGS' GeoFest will be held at the Carriage House next to the Woods Hole Field Center on Saturday, October 26, 2002.

The USGS hopes to expose students to Earth-science concepts in a fun and exciting way. The event will include numerous hands-on exhibits created and attended by USGS scientists, engineers, and technicians. Geologists will lead a short "geology walk" along part of the Woods Hole Bike Path. Please contact **Kate Visser** at kvisser@usgs.gov or (508) 457-2331 if you'd like to be a part of the event!

Related Web Sites

Woods Hole Field Center
U.S. Geological Survey (USGS)
Earth Science Week 2002
American Geological Institute

in this issue:

[previous story](#) | [next story](#)

in this issue:

Research

cover story:

Tsunami Deposits in the
Geologic RecordOutreachMonterey Bay National Marine
Sanctuary Tenth Anniversary**Earth Science Week -
Woods Hole**MeetingsChinese Scientists Visit Gas-
Hydrate Labs

Blacks In Government

Briefing Congress on Coastal
HazardsAwardsDistinguished Service Award -
Bill DillonDistinguished Service Award -
Bill NormarkSuperior Service Award -
Marlene NobleSuperior Service Award -
Florence WongEnvironmental Champion
Award - Sue Hunt

Safety Award - Ellen Mecray

Staff & Center News30th Annual Falmouth Road
Race

Earth Science Week 2002 Field Trips
By D.D. LaPointe
Nevada Bureau of Mines and Geology

On November 19 and 20, 2002, the northern Nevada desert came alive with hundreds of people participating in Earth Science Week geology field trips organized by Nevada Bureau of Mines and Geology. Coyotes were startled from their morning meal as approximately 470 seekers of geologic truth caravanned along unimproved gravel roads that don't generally see that much traffic in a decade. On Saturday, one group of about 180 braved choking dust to reach the Eagle Picher Minerals diatomite mine, where finely laminated lacustrine layers were pried apart by eager seekers of sardine-sized Miocene stickleback fish fossils (photos 13Oct2001HazenKidWithFish3.jpg, 13Oct2001Hazen2.jpg). Retired paleontologists Jim Firby and Howard Schorn held court on a pile of the blindingly white rock that had been loosened and heaped up by Eagle Picher for easier access. Children brought their fossil treasures to them for verification while other geologists circulated among the group helping to answer questions and admire the finds. After an hour or so, those who had not yet had their fill of fossil-collecting continued driving east and north to the Mopung Hills, where the now-dry shoreline of a precursor to ancient Lake Lahontan yielded tufa encrustations accompanied by a variety of mollusks. Nevada's history and prehistory were indicated here by the remains of a century-old lime kiln, nearby emigrant trail, and caves once inhabited by native Americans. Those who ventured on westward from this site followed more dusty roads leading to "Fossil Hill" first described by scientists in the earliest surveys of the territory. Tiny fossil gastropod shells had weathered out of the reef-like ledge for discovery by those with sharp eyes fixed on the ground (photo 13Oct2001NightengaleWithDog10.jpg, 13Oct2001Nightengale16.jpg). This type section of the Miocene Truckee Formation showed Earth Science Week participants one more example of the extent to which ancient lakes were once prevalent in an area where bodies of water are now scarce.

While this group was busily seeking evidence of ancient life, a second caravan of about 90 people was headed north from Reno in search of evidence of volcanic and magmatic activity in NW Nevada. At "Moon Rocks" they vied with weekend dirt bikers to occupy an eerie landscape of huge liesegang-banded, spheroidally weathered granite boulders (photos ESW2002FT 009.jpg, photo ESW2002FT 014.jpg, Red Rock 19Oct2002 1.jpg).

Many walked along a tourmaline-encrusted, slickensided fault plane cutting the granite and found fragments of microcline and quartz weathered out of pegmatitic zones.

Participants were careful to respect petroglyphs etched into the desert varnish on granite cliffs at the site. At the next stop, participants were challenged to determine the prevailing wind direction by examining pitted and grooved erosional surfaces carved by wind-driven sand-blasting of tuff boulders exposed on the crest of a ridge (photo ESW2002FT 020.jpg). Those who broke fresh surfaces of the rock were treated to the sight of sparkling sanidine and biotite crystals in the pink rhyolitic welded tuff (photo ESW2002FT 021.jpg). Lunch seating was plentiful on rocks at the next stop where dikes of aplite, pegmatite and microdiorite cut across the quartz monzodiorite country rock

(photos ESW2002FT 004.jpg, ESW2002FT 007.jpg). Boy Scouts and Girl Scouts in the group scrambled to collect as many different kinds of intrusive igneous rocks as possible, some finding hand samples of small dikes cutting the country rock. The procession of vehicles next followed the Bedell Flat-Honey Lake right lateral strike slip fault zone for several miles, stopping briefly to discuss evidence for a variety of fault types active in this part of the state. The group continued west to Red Rock Canyon where those with sturdy footwear hiked up a canyon to the base of a flow where fragments of many rock types had been incorporated into the tuff. Bright white and gray tuff cliffs juxtaposed against hoodoo-like vermilion red tuffs presented the opportunity for some spectacular photography here, too (photos Red Rock 19Oct2002 1.jpg, Red Rock tuff 20Oct2002 4.jpg Red Rock tuff 20Oct2002 5.jpg). The last stop of the day was at Petersen Mountain, a renown collecting area for scepter quartz crystals, where the group fanned out across the slopes and looked for smoky, clear, and citrine quartz crystals. Everyone found some crystals worth keeping and a few nice small scepters were found.

The igneous rock trip was repeated the following day for an additional 200 people who still found plenty of rocks to collect and geological mysteries to ponder. The increased numbers and enthusiasm of the participants indicates a public thirst for geologic knowledge in our area. The questions they asked indicated thoughtful consideration of what they were told by the geoscientists on the trip. We heard nothing but positive comments about our Earth Science Week field trip offerings, with many wanting to know if we could offer them every week or so!

Road logs with color photos of these trips can be viewed on the Internet at:

<http://www.nbmng.unr.edu/dox/e41.pdf>

and

<http://www.nbmng.unr.edu/dox/e40.pdf>



**NEW JERSEY GEOLOGICAL SURVEY
celebrates
EARTH SCIENCE WEEK
October 13-19, 2002**

On October 15th and 16th, 2002

Visit the DEP Booth at the

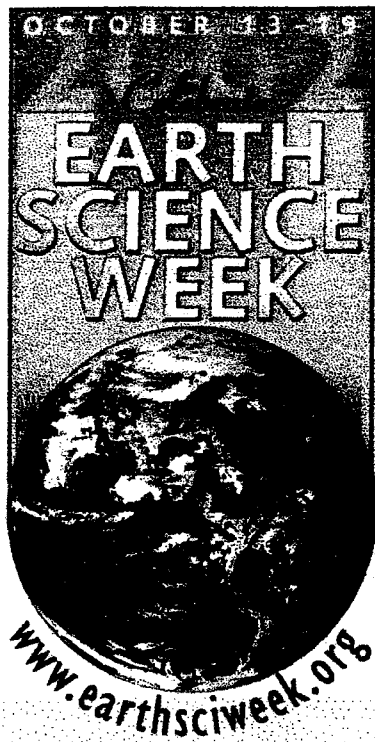
New Jersey Science Convention

Double Tree Hotel

Holiday Inn and Garden State Exhibit Center

Somerset, New Jersey

<http://www.state.nj.us/dep/njgs/eswk2002.htm>



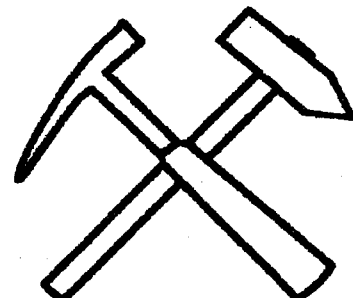
New Mexico Highlands University's *Environmental Geology Program* is celebrating Earth Science Week 2002! Come join in the fun with the students & faculty at Highlands!

SCHEDULE OF EVENTS

Wednesday 10/16	6:00 pm Science Complex LN3	Night at the Movies - <i>Volcano, Jurassic Park, Mad Max</i>
Thursday 10/17	1:00 pm Science Complex LN3	Earth Science Program Open House Open House at Centennial Park
Friday 10/18	12:00 pm CNS 635	Colloquium: <i>New Mexico's Water Resources</i> by Dr. William Stone, Hydrogeologist, Los Alamos National Laboratory.
Saturday 10/19	8:00 am	Field Trip to the Harding Pegmatite Mine, Taos County (all day, assemble at Centennial Park)

For more information, contact:

Dr. Jennifer Lindline
Environmental Geology Program Coordinator
lindlinej@nmhu.edu
505.426.2046



APPROVED FOR POSTING

Please join us for
the 5th annual
celebration of:

Western New York Earth Science Day

Western New York Earth Science Day introduces the public - to earth scientists and provides an opportunity to learn first-hand what earth scientists do, the importance of earth sciences to society, and the many and varied career opportunities that exist within the earth sciences.

? This event is FREE to the public and will be held rain or shine. ?

? Fossil-collecting will be available at the site to those interested ,
(fossil-collecting is free for HNHS members; non-member adults, \$4; children, \$3)

? Free on-site parking. Sheltered exhibits. ?

? Food and drink available for purchase. Restrooms available. ?

? Many exciting activities are planned, including: ?

- ⊕ Free drilling and rock-coring demonstrations at 10:30 a.m. and 1:30 p.m.
- ⊕ See West Valley Demonstration Project's 30-foot Walk-through Exhibit
 - ⊕ Boy and Girl Scouts can earn credit toward merit badges and pins
 - ⊕ Scavenger hunts, games, crafts, raffles, and much more!

Where: Penn Dixie Site, Hamburg, New York (see map on reverse)

When: Saturday, October 19, 2002, 9:00 a.m. to 3:00 p.m.

Sponsored by:

For more information or to participate, contact
Jerry Bastedo (jcb02@buffnet.net) or
Rick Watt (rwatt@ene.com)
Or call the HNHS at 716/627-4560.



North Carolina Student soaks up top prize in Earth Science Week Contest



Celebrate
Earth Science Week
2002

October 13th-19th

The grand prize winner of this years' Earth Science Week essay contest, is Grier Simmons, age 13, of Iron Station, NC. His essay, "Drizzle's Day," built upon the theme "A Day in the Life of a Water Molecule." Grier took home a \$500 check for his efforts.

The topic for Earth Science Week 2002 was "Water is All Around You," emphasizing the importance of water as one of the Earth's greatest natural resources. This theme was inspired by the 30th anniversary of the Clean Water Act.

Grier is a 9th grader at East Lincoln High School, where he is enrolled in Ms. Debbie Michael's Earth/Environmental science class. According to Michael, "Grier is an excellent student and talented writer who also a wrestler on the school's team." The E/ES class has been required for graduation from High School since 2000.

Simmons wrote, in part, in his essay, "Now continue condensing," said Mrs. Sleet, "but prepare for freefall. On the count of three: 1, 2, 3...whoaaaa!" As Drizzle fell, he remained spherical, but Mrs. Sleet's bottom flattened out and she bulged on the sides. "When you hit the ground run off to evaporation," said Mrs. Sleet as she prepared for impact.

The full version of the article can be can be viewed at <http://www.earthsciweek.org>. Grier's essay will be published in the December issue of Geotimes, AGI's monthly newsmagazine of the Earth sciences. Check for it at <http://www.geotimes.org/current/>

This year's contests included an art contest for elementary-school children, an essay contest for secondary-school students, and a photography contest open to all ages. Winners in each contest were selected from more than 450 entries.

Earth Science Week contests were designed to encourage students and the public to recognize the importance of Earth sciences in our lives.

To participate in future Earth Science Week celebrations, visit the Earth Science Week web site at <http://www.earthsciweek.org>, or contact the Mary Watson, at (919) 733-2423 ext. 410, or contact or the national Earth Science Week Coordinator Cynthia Martinez, at (703) 379- 2480 ext. 227 or cmm@agiweb.org.



September/October 2002

Antiques Rock Show

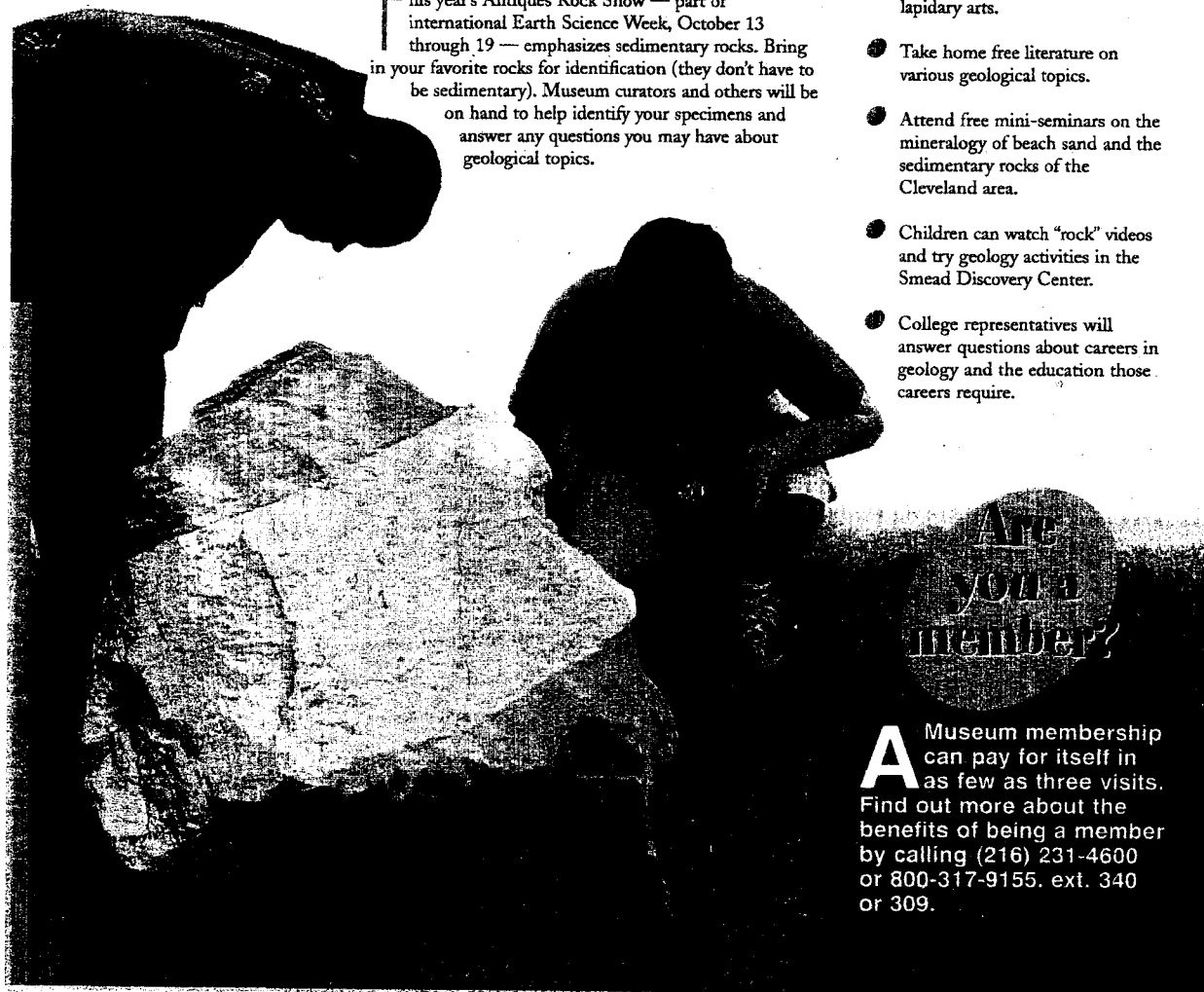
Sunday, October 13, noon to 4 pm
Free with Museum Admission

Celebrate Earth Science Day — it's sedimentary!

This year's Antiques Rock Show — part of international Earth Science Week, October 13 through 19 — emphasizes sedimentary rocks. Bring in your favorite rocks for identification (they don't have to be sedimentary). Museum curators and others will be on hand to help identify your specimens and answer any questions you may have about geological topics.

In addition:

- See hands-on exhibits and live demonstrations by members of the Cleveland Geological Society, Museum volunteers and groups representing the fields of geology, paleontology, gemology and the lapidary arts.
- Take home free literature on various geological topics.
- Attend free mini-seminars on the mineralogy of beach sand and the sedimentary rocks of the Cleveland area.
- Children can watch "rock" videos and try geology activities in the Smead Discovery Center.
- College representatives will answer questions about careers in geology and the education those careers require.



Are
you a
member?

A Museum membership can pay for itself in as few as three visits. Find out more about the benefits of being a member by calling (216) 231-4600 or 800-317-9155, ext. 340 or 309.

401 Church Street, 20th Floor, L&C Tower
Nashville, TN 37243

For immediate release October 1, 2002
For more information contact Amanda Sluss, TDEC
PIO
Office: (615) 532-0288
Pager: 1-877-251-2956



3rd ANNUAL EARTH SCIENCE FAIR EDUCATES LOCAL SCHOOL STUDENTS

The University of Tennessee Department of Geological Sciences will host the 3rd Annual Earth Science Fair on October 10, 2002 to celebrate nationally proclaimed Earth Science Week set for October 13-19, 2002.

Volunteer students, faculty and staff from sponsoring organizations will provide displays, demonstrations and hands-on activities from 9:00 a.m. until 3:30 p.m. at the Geological Sciences Building on UT campus. The fair this year has been expanded to include exhibits in the Department of Geography and McClung Museum. Teachers, parents, middle and high school earth science students from the region have been invited to attend. Student groups will travel together with a guide to participate in thirty-minute sessions on various topics. The general public is invited to view the displays at their leisure and admission is free.

The Earth Science Fair is a great opportunity for students to learn about the planet. The event provides hands-on activities that you just can't do in a classroom setting. Exhibits at the fair will include: Mars geology, Moon geology, gold panning, soil and groundwater, physical geography, Tennessee geology, minerals in everyday life, meteorite impacts, geologic time and the Gray fossil site. This year the fair will include the new Burgess Shale exhibit, as well as the Geology and Fossil History of Tennessee exhibit at McClung Museum.

The American Geological Institute, a not-for-profit federation of 35 professional societies, initiated Earth Science Week in 1998. Sponsors participating in the fair include: UT Department of Geological Sciences, UT Department of Geography, Frank H. McClung Museum, UT College of Arts & Sciences, Tennessee Division of Geology, Tennessee Geographic Alliance, East Tennessee Geological Society, Knoxville Gem and Mineral Society, Tennessee Earth Science Teachers, Rinker Materials and ARCADIS.

For more information contact Barbara Burton at 865-250-9405 or e-mail bburton2@utk.edu. Also check the new web site: <http://web.utk.edu/~geoclub/earthscifair>.

3rd Annual Earth Science Fair 2002

Interim Report

The Department of Geological Sciences, in collaboration with sponsoring organizations, participates in nationally proclaimed Earth Science Week (initiated in 1998 by the American Geological Institute, a not-for-profit federation of 35 professional societies) by hosting an Earth Science Fair. This daylong program of demonstrations, displays and hand-on activities has become increasingly popular with the region's public and private schools. The Fair is a great opportunity to expose middle and high school students to the earth and planetary sciences, subjects typically absent from the standard curriculum.

This year's Fair took place on Thursday, October 10. Despite the persistent drizzle, it was a great success. There were no cancellations, and everyone seemed to enjoy the wide range of indoor and outdoor activities. Over 60 volunteer guides and presenters contributed their entire day to this event, including graduate students, faculty, retired professors, state government employees, as well as folks from private industry.

The Fair was expanded this year to include speakers from the Department of Geography and presentations at the Frank H. McClung Museum, including the new Geology and Fossil History of Tennessee and Burgess Shale exhibits. The "time trail" activity was modified to connect participants between the two venues, with groups traveling either forward or backward in time. Over 110 presentations were scheduled over the course of the day.

Altogether, 16 groups from 10 schools (over 350 students) as well as members of the general public participated in the Fair. Groups of 25 students, traveling with their teachers and a guide, chose from the 15 presentations/activities offered. The Fair hosted 5 middle (Cherokee, Holston, Jacksboro, North West, South Doyle), 1 high (Clinton), 1 elementary (the entire 8th grade class from Winfield Elementary School in Scott County) and 3 private schools (Nature's Way Montessori, Temple Baptist Academy, Tennessee School for the Deaf).

A Fair website (<http://web.ukt.edu/~geoclub/earthscifair>) was set up to provide more detailed information about the event and Earth Science Week, to allow on-line registration, and generally broaden the Fair's exposure beyond its mailing list.

The Fair was supported by UT (College of Arts and Sciences Outreach, Dept. of Geological Sciences, Dept. of Geography, Frank H. McClung Museum, Telephone Services), East Tennessee Geological Soc., Knoxville Gem and Mineral Soc., TN Division of Geology, TN Earth Science Teachers, TN Geographic Alliance, and the following corporate sponsors: AMEC Earth & Environmental, ARCADIS, Bechtel Jacobs, Rinker Materials, and SAIC.

Donations from sponsoring organizations totaled \$4,572.00, while expenses are estimated at \$3,779.40.

Earth



Science Fair

Thursday, Oct. 10, 2002

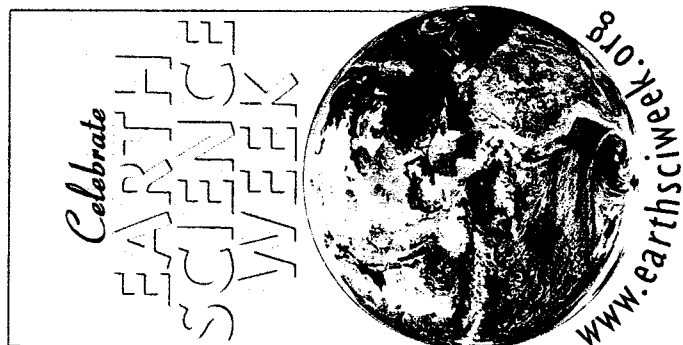
9:00 am - 3:30 pm

University of Tennessee
Geological Sciences Building

and

Frank H. McClung Museum

Barbara Burton
Dept. of Geological Sciences
University of Tennessee
Knoxville, TN 37996-1410



Remember to reserve a spot for your group by
Friday, September 6th.

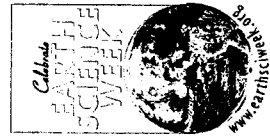
To register, detach this portion of the brochure
and mail to:

Barbara Burton
Dept. of Geological Sciences
University of Tennessee
Knoxville, TN 37996-1410

or fax the completed form to:
(865) 974-2368

or register on line at our web site:

<http://web.utk.edu/~geoclub/earthscifair>



As part of National Earth Science Week, the Dept. of Geological Sciences at the University of Tennessee (Knoxville) will host the 3rd Annual Earth Science Fair on Thursday, October 10, 2002.

Middle and High School Students from across East Tennessee are invited to help celebrate the earth sciences by participating in this valuable learning experience. Volunteer students, faculty and staff from sponsoring organizations will provide displays, demonstrations and hand-on activities that will increase students' understanding of the impact of earth related processes on their daily lives.

Attendance at this event is free, and participating teachers will receive an Earth Science Week Information Kit. Events will take place at UT's Geological Sciences Building and at the Frank H. McClung Museum, and will include presentations on the following topics.

Topics/Activities

The Burgess Shale: Evolution's Big Bang † *

Geologic Time Trail ‡

Geology and Fossil History of Tennessee *

Gold Panning

Impact Craters

Introduction to the World of Caves *

Mars

Minerals in Everyday Life

The Moon

Natural Hazards & Mineral Resources of East Tennessee

Satellites, Bugs, Computers and Plants

Soil and Ground Water

Tennessee's Big Dig: The Gray Fossil Site

Terrestrial Remote Sensing & Map Interpretation

This Isn't Your Parent's Geography Class

† temporary Smithsonian Institution Exhibit

* located at Frank H. McClung Museum; all three are offered as a package only, and must be scheduled together.

‡ Geologic Time Trail involves a walk that links the Museum and Dept. of Geology building

Schedule

Groups of 20-25 students will travel together with a guide to participate in ½-hour sessions that run from 9:00 am until 3:30 pm. Lunch breaks will be scheduled for groups that attend morning and afternoon sessions. A selection of bagged lunches will be available to purchase on the day (@ \$4.00/person), or bring your own lunch.

Participation

Participation is free, but space is limited, and groups will be registered on a "first come, first served" basis. Try to sign up early so we can accommodate your group, and limit your school's group size to no more than 50 students.

To register, complete the information on the Sign Up Form to the right and fax or mail it back to us by Friday, September 6th. You can also visit our web site to register.

For further information on this event, or Earth Science Week, check out our web site at

<http://web.utk.edu/~geoclub/earthscifair>

or contact:

Barbara Burton

Dept. of Geological Sciences

University of Tennessee

telephone (865) 250-9405

fax (865) 974-2368

email bburton2@utk.edu

Presenters/Sponsors

AMEC Earth and Environmental

ARCADIS

Bechtel Jacobs Company, LLC

Rinker Materials

East Tennessee Geological Society

Knoxville Gem & Mineral Society

Tennessee Division of Geology

Tennessee Earth Science Teachers

Tennessee Geographic Alliance

University of Tennessee: (UT)

Frank H. McClung Museum

UT College of Arts & Sciences

UT Dept. of Geological Sciences

UT Dept. of Geography

UT Telephone Services

To register, complete and return form by Friday, September 6 using regular mail, web, or fax.

Please print legibly. Address & fax on the reverse.

School _____

address _____

teacher _____

telephone _____

fax _____

email _____

number of students _____

number of lunches required _____

arrival time? _____ departure time? _____

Please indicate your level of interest in each session,

from 1 (most interested) to 15 (least interested)

_____ The Burgess Shale: Evolution's Big Bang † *

_____ Geologic Time Trail ‡

_____ Geology and Fossil History of Tennessee *

_____ Gold Panning

_____ Impact Craters

_____ Introduction to the World of Caves *

_____ Mars

_____ Minerals in Everyday Life

_____ The Moon

_____ Natural Hazards & Mineral Resources of E Tennessee

_____ Satellites, Bugs, Computers and Plants

_____ Soil and Ground Water

_____ Tennessee's Big Dig: The Gray Fossil Site

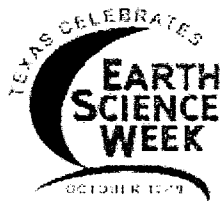
_____ Terrestrial Remote Sensing & Map Interpretation

_____ This Isn't Your Parent's Geography Class

† temporary Smithsonian Institution Exhibit

* located at Frank H. McClung Museum; all three are offered as a package only, and must be scheduled together.

‡ Geologic Time Trail involves a walk that links the Museum and Dept. of Geology building



**Welcome to the Texas
Earth Science Week Website!**

National ESW Website

Texas ESW
Austin
College Station
El Paso
Houston
Midland
San Antonio

**Proclamations from
the Texas' Governors
Office**

**More Earth Science
Links**

Archive of ESW
Question-of-the-Day

Earth Science Week (ESW) is a nationwide program designed to promote interest and knowledge of the earth sciences and its contributions to society. It is an annual celebration sponsored by the **American Geological Institute**. ESW 2002 will be celebrated nationwide the week of **October 13-19, 2002**. The third annual Career Day Fair will be held in Austin on **Tuesday, October 15, 2002**.

The Texas ESW consortium encourage you to use this website to discover past and future ESW activities as well as the resources available to teachers, students, and the public.

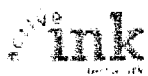
We hope that you will support the advancement of earth science education in our community and participate in Earth Science Week 2002!

The Astronaut visit has been cancelled. Logon to a live webcast of other Career Day Fair presentations.
Tuesday, Oct. 15, Time: to be announced

<http://streamer.cjit.utexas.edu/~science/astronaut.html>



site hosted by
the Bureau of
Economic
Geology



site developed by
the ActiveInk
Network

If you wish to update your existing web page and/or add a Texas ESW activity to this website, please contact Sigrid Clift at telephone 512-471-0320 or E-mail sigrid.clift@beg.utexas.edu.

<http://www.beg.utexas.edu/esw/>



2002 Earth Science Week

Participating for the second consecutive year, the GCSSEPM hosted one of the most popular "Passport Stations" on Saturday October 12 for the opening of Earth Science Week (ESW) activities at the Houston Museum of Natural Science. Section volunteers, Tony D'Agostino, Nick D'Agostino, Nancy Engelhardt-Moore, Bob Moore and Don van Nieuwenhuise spoke about microfossils, paleoecology, geologic field work, and other subjects to hundreds of visitors to the museum.



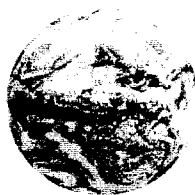
Elementary, middle school, high school and even college students from Italy and elsewhere enjoyed the ESW activities and our station in particular. The GCSEPM participated with many other Houston geoscience societies such as the HGS, SEG, SIPES, Houston Gem and Mineral Society and others. Denise Stone, President of the HGS welcomed all the volunteer societies and museum visitors. Denise also read a proclamation from Houston Mayor Lee Brown declaring Earth Science Week as an official event supported by the City of Houston.



Earth Science Week 2002

Earth Science Week, observed annually in the United States, Canada and, increasingly, in other countries, is an opportunity to understand the impact of the earth Sciences in our daily lives. The Houston Geological Society is honored to join in the celebration for its fifth year. As geologists, we hope to

- Give people, particularly students, special opportunities to learn about the Earth Sciences
- Increase awareness that Earth Science is all around us
- Encourage stewardship of the Earth
- Share our knowledge and enthusiasm about the Earth



Celebrate
Earth Science Week
2002
October 13th-19th

The American Geological Institute is the national sponsor of Earth Science Week.

Organizations participating in this year's Earth Science Week include:

- the Houston Geological Society
- American Association of Petroleum Geologists, House of Delegates, Houston chapter
- Association for Women Geoscientists
- Geophysical Society of Houston
- Houston Gem and Mineral Society
- Houston Museum of Natural Science
- Gulf Coast Section SEPM
- Society of Independent Professional Earth Scientists – Houston chapter
- Society of Petroleum Engineers - Gulf Coast Section
- National Association for Black Geologists and Geophysicists
- Texas Earth Science Teachers Association

Sponsorship opportunities are available for this years events.

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Earth Science Week 2001

- Contacts for 2002
- Events in 2002
- Articles
 - HGS Bulletin Sept.2002
- HGS ESW home page: links to articles and photos from past years

Houston Geological Society Contacts


Earth Science Week Committee - Email the co-chairs if you have suggestions, or if you want to help!

Elizabeth Fisher, Chair		eafisher@jasongeo.com
Jennifer Burton, Logistics Chair	• General contact for more information	jennifer_burton@anadarko.com
Alison Henning, Academic Chair	• HGS members: email for help in making an ESW presentation at your children's schools	alison_henning@yahoo.com
	• General contact for teachers	
	• Contact for school contest	
Stephanie Shipp	• Symposium	shippst@rice.edu
Neal Immega, Field trip leader	• Information on field trips	paleo@hgms.org
	• Field trip documentation	
Inda Immega, Museum liaison	• Information on Family Earth Science Festival	immega@swbell.net
Mark Cocker	HGS Publicity liaison, educational material organizer	
Janet Combes	HGS Board representative	
Glenn Lowenstein	HGS Environmental liaison	
Andrea Reynolds	HGS NeoGeos liaison, field trip interpreters orientation and training	
Lexy Bieniek	MATS/TESTA liaison	
Nancy Englehart-Moore	GCS SEPM liaison	
Jeannie Perdue	SPE-GCS liaison	
Jill Rowlands	HGMS liaison	

Activities proposed for ESW2002 in Houston

What	When and Where	Details
Family Earth Science Festival at the Houston	Saturday October 12, 2002 11:00AM to 5:00PM, Houston Museum of Natural Science, Wiess Energy Hall, Cullen Hall of Gems &	Explore our Earth! Continuous activities, demonstrations, contests, prizes, and special presentations Do an experiment, solve a problem, and get your "passport" stamped at "passport stations" staffed by

<p>Museum of Natural Science</p>	<p>Minerals, and the Hall of Paleontology</p> <p>Noon (tentative), Mayor Brown's Earth Science Week proclamation, Weiss Energy Hall</p> <p>No registration required -- just come and bring the whole family. For event info, contact Inda Immega, immega@swbell.net</p>	<p>more than 50 experts from Houston Earth Science organizations. Hear the Mayor's ESW proclamation.</p> <p>No charge beyond Museum admission.</p> <p>Organized by the HGS ESW committees. Co-sponsored by HMNS and sister Geoscience societies.</p>
<p>"Views of the Earth" symposium</p> <p>at the Houston Museum of Natural Science</p>	<p>Wednesday, October 16, 2002</p> <p>6:30 PM, reception (cash bar)</p> <p>7:00 - 8:30PM, speakers</p> <p><u>Houston Museum of Natural Science, Brown Auditorium</u></p> <p>Free, no registration needed. For info contact Stephanie Shipp shippst@rice.edu</p>	<p>Energy resources play a significant role in our lives - especially in Houston, home of the petroleum industry. During the second annual Houston ESW symposium, speakers from the government, energy industry, and NASA will explore the present state of energy resources and how future changes will impact us. Join the speakers before the symposium for cocktails (cash bar) and hors d'oeuvres.</p> <p>Organized by the HGS ESW committees. Co-sponsored by HMNS and sister Geoscience societies.</p>
<p>Classroom visits</p> <p>Also see:</p> <p><u>classroom activities</u></p> <p><u>ESW classroom kits</u></p>	<p>Monday, October 14 through Friday, October 16, 2002</p>	<p>Geoscientists are encouraged to visit their children's schools to share their knowledge with Earth-Scientists-to-be!. HGS can provide slides, materials, posters, teachers kits, etc.</p> <p>ESW Committee, Academic Liaison.</p>

<p>Student essay contest</p> <p>Also see:</p> <p><u>National ESW contests</u> for children and adults</p>	<p>Through September, 2002.</p> <p>Contact: Alison Henning, alison_henning@yahoo.com</p>	<p>K-12 students will share their thoughts on "Earth Science in My Community" in artwork or essay. Three finalists will be selected by the Earth Science Week Committee.</p> <p>HGS ESW and Academic Liaison Committees</p>
<p>Beneath Your Feet</p> <p>Family Field Trips</p> 	<p>Friday, October 18, 2002, 11am - 1pm</p> <p>Participants: Meet the tour in front of One Shell Plaza (look for a volunteer in a bright safety vest) and pick up directions to the other sites.</p> <p>Volunteers: Pick up vests and maps at OSP, be at your stations by 11.</p> <p>Free, no registration needed.</p> <p>Contact: Neal Immega, paleo@hgms.org</p>	<p>Field trip #1: Downtown building stones.</p> <p>Examine the striking vertical outcrops of igneous, metamorphic and sedimentary rocks in downtown Houston. Explore geologic processes and talk about the practical uses of earth materials. Our lunchtime walk is designed for people who work in the city but everyone is welcome!</p> <p>Organized by HGS ESW, Field trip, and NeoGeos committees</p>
	<p>Saturday, October 19, 2002</p> <p>Participants: Arrive at the State Park HQ parking lot any time between 11 AM to 2 PM. Look for volunteers in bright vests!</p> <p>Volunteers: 10 AM -3PM</p> <p>Free, except for admission to the park. Register by emailing the field trip leader</p>	<p>Field trip #2. High Island -- Join Geoscientists and Museum staff at Galveston Island State Park to investigate the geology, ecology, and societal importance of barrier island beaches and back bay environments!</p> <p>This is a joint field trip organized by the HGS ESW, Field Trip, ESW and NeoGeos Committees with the help of the HMNS and the HGMS.</p>
	<p>Sunday, October 20, 2002</p> <p>Participants: Arrive at the Ocean Star any time between 11-3PM. Look for volunteers in bright vests.</p> <p>Volunteers: 11-3:15PM</p>	<p>Field trip #3: Ocean Star Museum -- Visit the Ocean Star, the Offshore Energy Center's oil rig museum in Galveston Texas! Ceoscience and engineering docents will show you what it takes to drill for oil offshore. Geophysicists will demonstrate seismic interpretation on real workstations.</p> <p>Organized by SPE-GCS with the help of the HGS, ESW Committee, Field Trip</p>


	<p>No cost beyond admission to the Ocean Star. No registration necessary.</p> <p>Contact: Neal Immega, paleo@hgms.org</p>	Committee NeoGeos, HGMS, HMNS.
HGS participation in MATS	<p>Saturday October 26, 2002</p> <p>10:00AM to 5:00PM, at <u>Houston Museum of Natural Science</u></p> <p><u>Metropolitan Association for Teachers of Science</u></p>	<p>Planning to participate in Share-a-thon and present a workshop.</p> <p>Organized by HGS ESW Committee, Academic Liaison.</p>

Other Links of Interest

Texas Earth Science Week:at www.beg.utexas.edu/esw/

Geological Society of America's Earth Science Week page:
<http://www.geosociety.org/educate/earthweek.htm>

AGI's Earth Science page: <http://www.earthsciweek.org/>

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This page was last updated on 20-August-2002 9:15 PM by ii*

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Earth Science Week

Utah Geological Survey
Utah Core Research Center
240 North Redwood Road
Salt Lake City

October 16 - 18, 2002
(Wednesday - Friday)
8:00 a.m. - 5:00 p.m.

Hands-on activities
for school/educational groups



*Students pan for "gold" during
Earth Science Week.*

Earth Science Week was initiated in 1998 by the Geological Institute to increase public understanding and appreciation of the Earth sciences.

The Earth sciences are crucial to our quality of life. Understanding of these sciences can help people make decisions for land management and use, address environmental and ecological issues, and prepare to mitigate natural hazards.

Therefore, states across the nation, including Utah, celebrate this important week. The Utah Geological Survey, activities and demonstrations for schools and other educational groups will be offered October 16-18.

This year's theme is "Water is All Around You." To this end, the Utah Division of Reclamation Rights will have a large stream table for hands-on learning. Other activities include mineral tests and observing how fossils are excavated for study.

To reserve a time, please call Carolyn Olsen at 537-3359. The time slots fill up quickly - some groups may have to schedule for next year - a year in advance!

Earth Science Week Declaration signed by Governor Michael Leavitt

<http://geology.utah.gov/whatsnew/index.htm>

EARTH SCIENCE WEEK 2002

October 13-19, 2002- Earth Science Week 2002

- **Hosts:** Earth Science Week is a joint project of the Vermont Geological Society, the Vermont Geological Survey at VT ANR, the Perkins Museum at UVM, the American Geological Institute and numerous individuals, organizations and businesses including OMYA and VINS.
- **Contacts:** Marjorie Gale and Christine Massey
- **Phone:** 802-241-3608 (MG) and 802-656-1344 (CM)
- **E-mail:** marjieg@dec.anr.state.vt.us or cmassey@zoo.uvm.edu
- **Location:** Events at various locations around the state
- **Information:** The annual Earth Science Week festivities include Geologists-in-the-Parks, a poster contest, museum tours, a quarry tour, guest speakers and more. Search the complete listing below.

October 12, 2002- OMYA, Inc. Quarry Open House for Earth Science Week 2002

- **Day of the Week:** Saturday
- **Contact:** Alice Blount
- **Phone:** 802-770-7267
- **E-mail:** alice.blount@omya.com
- **Location:** Middlebury, VT
- **Time:** 10 am - 3 pm
- **Information:** Come visit the OMYA quarry. They are planning to have a rock pile for collectors, a geology mural for artists, trucks, drills, and mining equipment, tours, food and more. For information, please visit the [OMYA Earth Science Week 2002 site](#).

October 15 & 16, 2002- Geologists-in-the-Parks for Earth Science Week 2002

- **Host:** The annual Earth Science Week Geologists-in-the-Parks is co-sponsored by the Vermont Geological Survey at DEC, the Vermont Geological Society, and the Dept. of Forest and Parks.
- **Contacts:** Marjorie Gale
- **Phone:** 802-241-3608
- **E-mail:** marjieg@dec.anr.state.vt.us
- **Locations:** State Parks at Button Bay, Mt. Philo, Groton, and Elmore.
- **Information:** The event is open to school groups. There is no charge for this activity which features a park tour with a professional geologist. Groups must pre-register and enrollment is limited.

October 18, 2002- Perkins Museum Poster Contest: Awesome Forces that Shape the Earth!

- **Host:** Perkins Geology Museum at the University of Vermont Geology Dept.
- **Contacts:** Christine Massey
- **Phone:** 802-656-1344
- **E-mail:** cmassey@zoo.uvm.edu
- **Location:** Perkins Museum Poster Contest, Dept. of Geology, 43 Colchester Ave., University of Vermont, Burlington, VT 05405-0122
- **Information:** Theme: Awesome Forces that Shape the Earth! (ex. plate tectonics, earthquakes, volcanoes, glaciers, and even the stream in your backyard); Grade levels: K-2, 3-5, 6-8, & 9-12; Size: No larger than standard poster board (22"x28"); On the back: Student Name, Teacher Name, School, Mailing Address, Age group, Phone Number; Cash prizes and Vermont rock kits; Due date: Friday, October 18.

October 15-18, 2002- Mercury in the Environment Guest Speakers, Earth Science Week 2002

- **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 demonstration 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 6-9.

October 15-18, 2002- Fleming Museum Geologic Resources Tours, Earth Science Week 2002

- **Host:** Fleming Museum at the University of Vermont
- **Contacts:** Chris Fearon
- **Phone:** 802-656-0750
- **Location:** Fleming Museum, Colchester Ave., University of Vermont, Burlington, VT 05405-0122
- **Information:** Special tours with a geologist to examine geologic materials used in objects and exhibits at UVM's Fleming Museum.

October 18, 2002- National Water Quality Monitoring Day

- **Contacts:** [Year of Clean Water](http://www.epa.gov/cleanwater)
- **Information:** October 18, 2002 is the 30th anniversary of the enactment of the Clean Water Act. Schools, citizens groups and individuals may participate in the National Water Quality Monitoring Day by registering on-line. Test kits may be purchased and instructions are given for monitoring and entering data at Year of Clean Water

October 19, 2002- Mineral Identification Day at VINS for Earth Science Week 2002

- **Host:** VINS North Branch Nature Center
- **Contacts:** Peter Watt or Chip Darmstadt
- **Phone:** 802-229-6206
- **Location:** VINS North Branch Nature Center, 713 Elm St. (Rte. 12), Montpelier, VT
- **Time:** 10:00 am - noon
- **Information:** Geologists and mineral collectors will be on hand to help you identify rocks in your collection. Bill and Ethel Schuele, members of the Burlington Gem and Mineral Club, will also bring rocks and fossils from their own collection and will have some small specimens for sale.

October 24, 2002- Vermont NEA Convention Field Trip

- **Contact:** Christine Massey
- **Phone:** 802-656-1344
- **E-mail:** cmassey@zoo.uvm.edu
- **Location:** Burlington, VT
- **Information:** Christine Massey and Shelley Snyder will lead "Geologic Field Trip Sites in Northwestern Vermont for Teachers."

Earth Science Week Proclamation

For Earth Science Week Activities and Planning, we recommend you visit American Geological Institute.

Click [here](#) for a list of geology books recommended by the Vermont Geological Society members.

Please take time to view some great posters by Vermont students from 2000 and the [Earth Science Week 2001 Photo Album](#).

[RETURN TO THE VGS HOMEPAGE](#)
[TO THE DEPT. OF ENVIRONMENTAL CONSERVATION HOMEPAGE](#)
[TO THE VT AGENCY OF NATURAL RESOURCES HOMEPAGE](#)
[TO THE STATE OF VT HOMEPAGE](#)

Laurence R. Becker, State Geologist
Vermont Geological Survey

103 S. Main St., Laundry Bldg.

Waterbury, VT 05671-0301

Phone: (802) 241-3608

FAX: (802) 241-3273

Last Updated: 8/29/02

Site maintained by: Marjorie Gale ~ marjieg@dec.anr.state.vt.us

ANNOUNCEMENT

Virginia
National Science Foundation
Earth Science Education Week Lectures

EARTH SCIENCE EDUCATION WEEK LECTURES

The theme for this year's Earth Science Week is: **Water Is All around You**

In recognition of Earth Science Week, the Earth Science Division, Geoscience Directorate, is sponsoring two lectures focusing on the work of the two NSF Science and Technology Centers established in the Division.

10:00AM, October 16, Room 110

The Fate of the Delta of the Mississippi River: Can an STC Help?

Gary Parker, Director,
National Center for Earth Surface-dynamics (NCED), The University of Minnesota

The delta of the Mississippi River is constantly subsiding by compaction under its own weight. Under natural conditions the river has acted to balance this subsidence by depositing sediment over the entire delta. This has been accomplished by overbank flooding channel and shifting channels. Today, however, the river is confined behind levees, preventing overbank deposition of sediment on the floodplain. These levees, as well as the Old River Control Structure, prevent channel shifting. As a result, bed of the river has risen, and the delta tip has elongated into the Gulf of Mexico, as the surrounding delta subsides. At present the riverbed is sufficiently high that a failure of the Old River Control Structure during a flood would cause a catastrophic shift into the Atchafalaya River. Meanwhile, the entire delta is rapidly subsiding in the absence of a sediment supply, and the shoreline is advancing toward New Orleans. The newly instituted National Center for Earth-surface Dynamics (NCED) is commencing a study of alluvial fan-deltas that should eventually allow for a) predictions in regard to the Mississippi River and its delta in the case of no remediation and b) evaluation of suggested techniques for remediation. The problem is fraught with political, social and economic complications, but the Center can play a useful role in encouraging the community to face the problem head-on by emphasizing the hydraulic and geomorphic consequences.

2:00PM, October 16, Room 110

Water: hydrologic science and sustainability in the semi-arid Southwestern U.S.

Roger C. Bales; Deputy Director, NSF Center for the Sustainability of semi-Arid Hydrology and Riparian Areas (SAHRA), University of Arizona

Semi-arid regions are beginning to face unprecedented hydrologic stresses, owing to the combined influences of population growth, land-use change, and climate variability/change. With the steady socioeconomic changes and ongoing climate variability, the event of greatest concern is the multi-year drought. While regional droughts of decadal or longer duration have occurred in the past, it is the interaction of climatic and socioeconomic factors that makes the current stresses unprecedented. Accurate information on annual water balance and water fluxes becomes ever more important as demand approaches or exceeds available supplies; and is critical for sustainable water management. Water demand for a natural basin or a metropolitan area is the sum of many individual demands, the characteristics of which are not well known. Recent scientific advances are narrowing critical knowledge gaps, and providing a better quantitative understanding of water supply, water demand and water quality characteristics. Examples include: i) improved snowpack and rainfall estimates through new remote sensing and ground-based measurements, ii) the role of vegetation in controlling groundwater recharge, iii) more accurate delineation of groundwater recharge areas using multiple tracer methods, and iv) water-nutrient-vegetation interactions in riparian zones, which house much of the region's biodiversity and account for a large fraction of the regional evapotranspiration.



DIVISION OF GEOLOGY AND EARTH RESOURCES

Earth Science Week

October 13-19, 2002



Celebrate Earth Science Week with

Geologic Field Trips!

- Geologic field trips in Washington State that require a car and/or hiking boots
- Geologic trips in Washington State that require the Internet and a good chair
- National Park Geology Tours and other USA geologic field trips and tours

Suggested supplies:

- hand lens
- rock hammer
- chisel
- gloves
- safety glasses
- collecting bags or boxes

Take a general guide to rocks and minerals on all outings. Examples:

Bishop, A. C.; Woolley, A. R.; Hamilton, W. R., 1999, **Philip's minerals rocks and fossils**: George Philip Limited in association with the Natural History Museum, 336 p.

Bishop, A. C.; Woolley, Alan Robert; Hamilton, William Roger, 1999, **Cambridge Guide to Minerals, Rocks and Fossils**: 336 pages; 2nd edition (October 1, 1999)

Kavanagh, James; Leung, Raymond (Illustrator), 2001, **Geology-- An Introduction to Familiar Rocks, Minerals, Gemstones & Fossils** (Pocket Naturalist): Waterford Press, Pocket edition (June 2001)

Mottana, Annibale; Crespi, Rodolfo; Liborio, Giuseppe, 1977, **Simon & Schuster's guide to rocks and minerals**: Simon & Schuster, 607 p.

Roberts John L., 2001, **A Photographic Guide to Minerals, Rocks and Fossils**: 128 pages; (August 27, 2001)

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.

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.

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

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

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**: Adastra West, Inc., 352 p.

[Washington Geologic Field Trips](#) | [Virtual Geologic Trips](#) | [USA Geologic Field Trips](#)
Earth Science Week Home

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

Last modified 18 Jul 2002

<http://www.wa.gov/dnr/htdocs/ger/esweek/>

Celebrating Earth Science Week 2002 at Easton Elementary, Morgantown, WV

Volunteers, Amy Gross, Stephanie Shawhan, and Autumn Rhodes



Amy demonstrates how we identify minerals to the first grade class.

The combined class of second graders kept us on our toes, so we forgot to get a picture of them in action.



Stephanie checks up on a table of fourth graders and makes sure that they know their minerals.



Stephanie walks around the room to show the third graders a close up of a mineral.



Amy really gets into helping kids learn their minerals!



Autumn helps the fourth graders identify their minerals.



The fourth graders are excited about minerals!

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Updated: 15 September 2002

Earth Science Week 13-19 October 2002



What is Earth Science Week?

Earth Science Week is an international event, and its aim is to help people develop an understanding of the importance, and impacts, of earth science to every day life, as well as encouraging a sense of responsibility for the use and protection of our natural resources and the environment.

- ▶ Find out more about Earth Science Week
- ▶ Getting Started: Ideas and Themes to celebrate Earth Science Week
- ▶ Activities in your state (*items are added regularly*)

More information

If you would like more information, or wish to participate, contact **Jeanette Holland, Communications Unit, Geoscience Australia on (02) 6249 9731**, with details of your Earth Science Week activities for inclusion in the "Activities in your State" site as well as future press releases.

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Earth Science Week

Earth Science Week started at the American Geological Institute based in Alexandria, Va., but its influence is beginning to spread worldwide. With the 1998 launch of the 'Earth Science Week' web site, www.earthsciweek.org, requests for information and questions about starting Earth Science Week programs flowed in from all over the world. U.S. organisations with international affiliations, such as the American Association of Petroleum Geologists, have also promoted international interest. That trend has continued, and in 1999, geoscientists and geoscience organisations in Argentina, Australia, Canada, Columbia, Croatia, Germany, Hong Kong, India, Japan, Liberia, Malaysia, Mexico, New Zealand, Norway, Poland, Puerto Rico, Saudi Arabia, Scotland, South Africa, Spain, Switzerland, Taiwan and Trinidad began developing Earth Science Week activities. As the North American and Australian initiatives expand, geoscientists from Europe to Asia to South America are also working to establish annual programs.

As international interest in Earth Science Week broadens, the phrase "Think globally, act locally" is a fitting guide to shape its growth. Just as parents must nurture a growing child, geoscientists around the world must individually nurture Earth Science Week's long-term success. They must invest their energies and resources to raise public awareness and understanding of the earth sciences in their communities.

What are the objectives of Earth Science Week?

- To give students new opportunities to discover the Earth sciences.
- To highlight the contributions that the Earth sciences make to society.
- To publicise the message that Earth science is all around us.
- To encourage stewardship of the Earth through an understanding of Earth processes.
- To develop a mechanism for geoscientists to share their knowledge and enthusiasm about the Earth and how it works.
- To have fun!

Earth Science Week is an opportunity for all those involved in earth sciences around the world to present the results of their activities, highlighting the importance of their work to the community.

This special week gives geoscientists, teachers and parents special opportunities to help students explore and discover connections between their lives and the Earth.

Geoscience Australia in Canberra, managed the first Australian

celebrations of Earth Science Week in October 1999. The main highlight was the grand opening Geoscience Australia's new Earth Science Education Centre, which caters specifically for school groups. The centre offers 'hands-on' curriculum linked activities for school children in a friendly environment as well as organising and running teacher workshops.

What can you do?

Please join Geoscience Australia and support Earth Science Week by organising something special at your school. Join the celebrations with a geoscience activity day, family activities, scientific demonstrations, photographic displays, library 'geoscience' book displays, children's earth science artwork display, science projects displays, teacher workshops, public lectures, invite a guest speaker, design Earth Science Week promotional material and an ESW web page.

Earth Science Week 2002 at Geoscience Australia

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http://www.ga.gov.au/about/event/earth_science_week.jsp



Betterment through Science

**Registered Office: 9, Paraj Apartments; 205, Shaniwar Peth; Pune 411 30.
Phone - 4487171**

Brief report on the Earth Science week activities organised by Science Centre, Pune

“Science centre” Pune, India is an organization established with the efforts of Dr. V.D. Borkar, an eminent Paleontologist and his friends. This organization carries out voluntary activities mainly in the city of Pune to promote scientific temper and propagate science. Activities are focused at school children. Demonstrations, slide shows, field trips are organised by the volunteers of the science centre.

On the occasion of International Earth Science Week 2002, the Science Centre, Pune had arranged a lecture by Dr Kantimati Kulkarni, Department of Geology & Paleontology, Agharkar Research Institute, Pune; on 22nd Oct 2002. Prof. Lalitkumar Kshirsagar, Head of the Department of Petroleum Engineering, Maharashtra Institute of Technology, presided over the function.

Dr. Kulkarni spoke on 'Fossil trails and tracks: Insight into environment'.

At the outset she described various activities of tiny creatures in the intertidal zone to be found on any beach and narrated various structures like trails, tracks, pellets, burrows, etc. produced through such activities. She further said that just below the surface of the beach sand, teeming activity could be witnessed if one were to dig even a little. The audience was left wide eyed when she said that similar structures emplaced by extinct organisms millions of years ago on the beaches that then existed, are still preserved in sedimentary rocks as trace fossils.

In order to impress the use of trace fossils, she quoted a few examples from the study of trace fossils made by her from the various rock formations occurring in different states of India.

Projecting slides in connection with ichnogenus *skolithos* from the Vindhyan Supergroup of Proterozoic age, she said that it is a positive evidence of the antiquity of the metazoans. The Proterozoic fauna had no hard parts and therefore the only proof of their existence is the traces left behind by them. It also speaks of development of coelomic cavity, required for emplacing vertical burrows, well within the Proterozoic times.

As regards *Ophiomorpha* from Jurassic of Kutch, she explained that it was a dwelling burrow created by crabs characteristically fortified by pellets. Such strengthening of walls connotes the unstable nature of the substrate which these animals inhabited.

She also spoke of a special category of burrows, viz. nesting or brooding, which are rarely preserved as fossils. The presence of structures in the Permian rocks of Rajasthan was demonstrated with the help of pictures.

Drawing upon her studies, Dr. Kulkarni observed that the biodiversity of the intertidal zone in the past was very rich. Very often news items appear about mass mortality of fish fauna due to oil spillages and industrial effluents. Loss of benthic fauna remains unnoticed. In the last couple of decades human influence has drastically reduced marine biodiversity.

In his presidential remarks, Dr. Kshirsagar observed that we have been grossly neglecting earth sciences in planning and development projects. They play an important role in water harvesting and exploration, controlling pollution, exploitation of fossil fuels, combating natural calamities like earthquakes and floods. He also emphasized the role that National Parks played in generating public awareness regarding earth sciences. Lauding the efforts taken in the western and European nations in this regard, he strongly recommended the need for such activities in India too.

The function concluded with a vote of thanks proposed by Ad. Shantanu Khurjekar. The programme was compeered by Ms. Tanuja Marathe of the Geology Department, Fergusson College.

Pradeep Jadhav
(Reporter, Volunteer)



Panorama of Te Mata Peak - all made of Pliocene Te Aute limestone

Austin Hendy, University of Waikato

EARTH SCIENCE WEEK, 13-19 October 2002



Earth Science Week is fast becoming a worldwide event, and is an opportunity to to promote and encourage an active interest in the Earth Sciences to the wider community.

What are the objectives of Earth Science Week?

- * To give students new opportunities to discover the Earth sciences.
- * To highlight the contributions that the Earth sciences make to society.
- * To publicise the message that Earth science is all around us.
- * To encourage stewardship of the Earth through an understanding of Earth processes.
- * For geoscientists to share their enthusiasm about the Earth and how it works.
- * To have fun!

Find out more about Earth Science Week

Some ideas to get you started

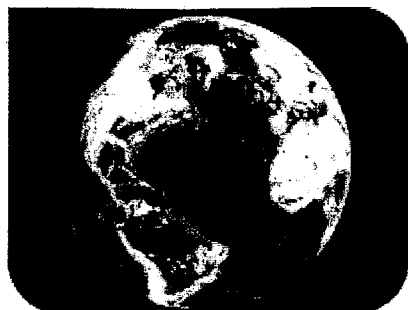
Activities planned –updated regularly

Information

For more information, or if you would like to publicise your event, contact Tasha Black at the Royal Society of NZ, ph (04) 470 5759, email: tasha.black@rsnz.org

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<http://www.gsnz.org.nz/gses02.htm>



join
in
the fun >>>

Earth Sciences Week, the second full week in October, is an annual celebration of the geosciences.

It aims to enhance people's awareness of the importance of earth sciences to our lives and to help you understand how the Earth works. This international event is supported by the American Geological Institute and even former president Bill Clinton is a fan!

This year's theme is "**Water is All Around You**", emphasizing the importance of the Earth's greatest natural resource- and **Planet Science** is here to help you get involved!

We've put together some brilliant **hands on activities** for the home and classroom with some great links to **web sites** where you can find out about different rocks, minerals and fossils, get hold of earth science resources for teachers and try plenty more experiments. And if all this **inspires** you to be an **earth scientist** we've got the information to help you get on the right track.

Experiments...

>>>

Water Down the Plughole

To fit in with this year's water theme why not take part in **our** international experiment - have you ever wondered why water **spirals** as it goes down the **plug hole**? And does it really go down the plug hole in **opposite** directions on opposite sides of the world? Click

here to find out, and get hold of all the **information** you need to do the experiment with some fun facts, web and curriculum links.

>>> **Help Help Volcano!**

We don't have any **active volcanoes** in the UK but you can make your own with baking powder and vinegar.

Stand back! This volcano will explode in your kitchen!

>>> **Lava Flow!**

Create **mini volcanic eruptions** and build layers of lava using play dough!

>>> **Bread Rock**

Recreate the formation of **sedimentary rock** using left over bread and your hob

Activities...

Earth Quake!

To launch **Science Year** in September 2001 thousands of people took part in the **Giant Jump** by jumping at the same time across the county. This year, schools in **Australia** will be re-enacting the Giant Jump- and you can too.

Click here for all the **instructions**, including how to do the Giant Jump, some fun earth science facts, and information about how to build your own **seismometer**. We've got **3 different designs** for you to try on the day of your jump. These include a simple cardboard box and pen and a solenoid sensor- where vibrations cause a coil to move around a magnet, generating a voltage. The greater the voltage the greater the vibration detected- so what are you waiting for? Jump to it!

Been Inspired?

Do you enjoy working **outdoors**? Do you like **travelling**? Do you like **puzzle solving**? Then you may have what it takes to be an Earth Scientist! Why don't you go to the **NEXT STEPS** section of our web site and check out what real earth scientists are up to in our **Meet Your Match** database?. You can also

access more information on careers in Earth Science from the Official Earth Science Week website.

Want to find out more?

Official Earth Science Week website, with plenty of **activities** for the classroom based around this years theme- water! (the curriculum focus is North American, but this site contains some good universal activities)

If you are interested in how **volcanoes** work or why **earthquakes** happen, How Stuff Works has all the information you could need.

The BBC education site contains a series of fun **geology activities** to do at home or in the classroom, including Chocs Like Rocks, the Sedimentary Sandwich and Rock Cycle experiments

The Earthlab Datasite is an accessible **database** containing info on over 2000 UK rocks, minerals and fossils.

Links for teachers

<http://www.matter.org.uk/schools/content/Seismology/index.html>
Provides good **lesson resources** from the University of Liverpool's MATTER Seismic Waves site

<http://www.ucl.ac.uk/geosci>
Offers loads of earth sciences-related material for schools including **downloadable** activities, access to geology loan boxes, summer school programmes and a school questionnaire.

<http://www.esta-uk.org>
The **UK's** Earth Science Teachers Association website

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