

Section 3

Earth Science Week 2005 News Clippings

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FOUNDATION UPDATE

A new member has been added to the AAPG Foundation Trustee Associates. He is: **George Bole**, consultant, Houston.

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Earth Science Week Set Oct. 9-15

Earth Science Week 2005 will be celebrated Oct. 9-15, built around the theme "Geoscientists Explore the Earth" and focusing on earth science careers.

First organized in 1998, ESW is an annual event that spotlights the geosciences and their importance to the public. It is organized by the American Geological Institute with support from the U.S. Geological Survey, the U.S. National Park Service and the AAPG Foundation.

AGI said the "Geoscientists Explore the Earth" theme was selected to highlight the important work that geoscientists do every day, and to educate the public about the career types within the geosciences.

Events are being planned in all 50 states as well as in Argentina, Australia and Canada. A number of AAPG affiliated societies have activities planned. AGI also has created and collected materials from other organizations to put together an Earth Science Week kit for school or home use for students of all ages, as well as a Planner's Information Kit. Also, photo, drawing and essay contests are being sponsored through AGI.

For information on this year's ESW, see www.earthsciweek.org.



Anchorage Daily News
Anchorage, AK
September 23, 2005

Earth Science Week

Enter a visual arts contest for students in kindergarten to fifth grade. Deadline is Oct. 1. (www.earthsciweek.org/contests)

Battle Creek Enquirer
Battle Creek, MI
October 9, 2005

LANSING

Earth Science Week takes place this week

Gov. Jennifer Granholm has set Sunday through Saturday as Earth Science Week in Michigan.

Earth Science Week is a nationwide observance emphasizing the importance of earth sciences to the health, safety and economic well being of citizens.

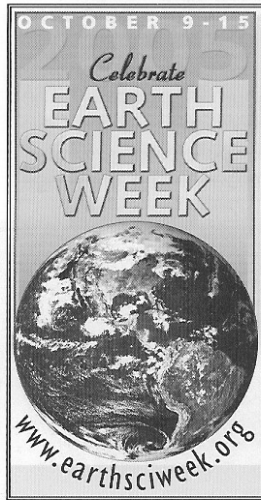
Michigan, which ranks 17th among states in oil and gas production and is a major producer of magnesium, iron ore, and sand and gravel, among others, is one of 35 states that recognize the week.

The Department of Environmental Quality's Office of Geological Survey has taken the lead in celebrating the week.

For a list of geologists who can give presentations to schools and community groups on earth science topics, visit www.deq.state.mi.us/eforms/speakerrequest.html or call the OGS at (517) 241-1515.

To submit school-related items for Class Notes, contact education reporter Katie Oliveri at 966-0589 or koliveri@battlecr.gannett.com.

Celebrate Earth Science Week!
October 9 - 15, 2005



Every year during the second week of October, scientists, school teachers, geoscience professionals and parents are encouraged to participate in Earth Science Week, developed and sponsored by the American Geological Institute (AGI). Since October 1998, AGI has organized this national and international event to help the public gain a better understanding and appreciation for the earth sciences and to encourage stewardship of Earth.

In 2004, the former Director of the U.S. Geological Survey, Dr. Charles G. Groat, and the Under Secretary of Commerce for Oceans and Atmosphere (and the National Oceanic and Atmospheric Administration Administrator) Admiral Charles Lautenbacher, Jr., collaborated to write a statement on the "Importance of Earth Science Education." The statement, released in recognition of Earth Science Week, was addressed to the American public.

"By 2025, eight billion people will live on Earth," wrote Groat and Lautenbacher, "If we are to continue to maintain a high quality of life, we need to delve much more deeply into our planet — its processes, its resources, and its environment. Only through earth science education can students come to understand and appreciate our complex planet."

This year's theme is "Geoscientists Explore the Earth," focusing on careers in the geosciences, what geoscientists do, why their work is important to society, and public education about the career types within the geosciences.

One of the most important things for members of AESE is to become involved in this initiative, especially this year. As earth science editors, we represent a field of science that is not typically sought after by college students because most are unaware of the possibilities of a career involving both earth science and journalism skills. It is important for us to publicize the work we do in order to show students that there are options in the sciences outside of being a research scientist. Students need to know that there is a growing need for scientists who can communicate well, and a need for communicators who understand science.

I encourage everyone who can find a moment (as we all know, the annual meeting and GSA take up most of these next couple of months) to find and participate in a local event, or even take your own initiative and speak to your children's classes, or to a boy or girl scout troop, or go to a local college and leave some literature, and let the professionals of tomorrow know of the many diverse opportunities to work in the earth sciences.

— Submitted by Laura Stafford, Blueline Editor

Blaney Elementary students rock in earth science contest

It was a groundbreaking day for Blaney Elementary School recently when two of its students won top honors in the national Earth Science Week contests.



[Full Story »](#)

Blaney Elementary fourth-graders Jase Pugh and Daley Jackson made their mark on the national American Geological Science Week contest. Principal Lisa Carter said the contest had more than 500 nationwide entries

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Blaney Elementary students rock in earth science contest

By TERRI HYDER, C-I staff reporter

January 02, 2006

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It was a groundbreaking day for Blaney Elementary School recently when two of its students won top honors in the national Earth Science Week contests.

Fourth-grader Jase Pugh was the overall winner in the visual arts contest, one of three categories in the competition sponsored by the American Geological Institute (AGI). His classmate, Daley Jackson, was one of eight finalists in the same category. The contest had more than 500 nationwide entries overall.

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In the visual arts category, artists in grades K-5 created a drawing, collage or other two-dimensional work illustrating the theme "Earth Jobs" and showing the tools used in that scientific career.

Jase won with his "Volcanologists: It's a Hot Job" artwork. He said he was inspired by ideas from the Internet, and he worked on the project for about three days.

"I was very happy ... sort of shocked (to win)," Jase said. "I had to call my mom and dad because I was so shocked."

Finalist Daley said she got her ideas from reading about paleontology. She said she would like to thank her mother and father for their support while she made the project.

"(As a finalist) I felt happy and excited," she said.

Fourth grade teacher Tanya Jackson encouraged the children to enter the contest, which recognizes the importance of the earth sciences, as a part of their Earth Science Week curriculum in October.

Jase won a \$300 cash reward, and Daley will receive an atlas and congratulatory letter. Both students have their winning work on AGI's Web site, www.earthsciweek.org.

While Jase and Daley may not pursue careers in science -- Jase wants to be a policeman and Daley is still keeping her options open -- both students have made their school proud with their victories.

Blaney has never won this kind of national science contest, said Principal Lisa Carter. "This is really huge."

Earth Science Week for Girl Scouts

■ MIDDLETOWN – Calling all Girl Scouts!

5446

Junior, Cadette and Senior Girl Scouts are invited to participate in Earth Science Week at Penn State Delaware County 9 a.m.-noon Saturday, Oct. 8, and earn a special patch to mark the occasion.

Penn State Delaware County students have designed coursework for the program and will guide Girl Scouts through the morning's activities. Along with discussing and delving into earth science-related topics, participants will conduct a hands-on investigation of the stream that runs through the campus. For this reason, sneakers are the recommended footwear.

The goal of the free program, developed by Laura Guertin, assistant professor of earth science at the campus, is to make science exciting for girls and make them aware of a variety of science careers. At the end of the program, girls will take home a customized workbook filled with resources on science and earth science careers, as well as the Earth Science Week Activity Patch.

There is no charge for the program, but registration is required by Oct. 5. Sign up by calling Guertin at (610) 892-1427 or e-mail to uxg3@psu.edu

— BETTE ALBURGER

Read it online at www.nestanet.org

Volume XXI, Issue 4

Fall 2005

THE EARTH SCIENTIST



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This issue of *The Earth Scientist* is a cooperative venture between the National Earth Science Teachers Association (NESTA) and the American Geological Institute (AGI). NESTA greatly appreciates the generous support of AGI in helping to create this special issue on careers in the geosciences.

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◆9-15—Science: Earth Science Week, sponsored by the American Geological Institute, for teachers and students nationwide. Contact: AGI, 4220 King St., Alexandria, VA 22302-1502; (703) 379-2480; fax: (703) 379-7563; Web site: www.earthsciweek.org.

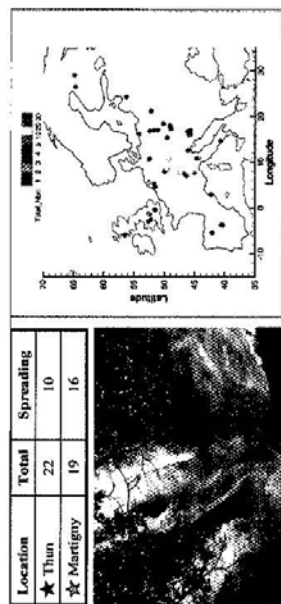


Fig. 1. Example of results from a contrail counter-thon event. (upper left) Reports from two schools in Switzerland. (middle left) Photo from ground observers in Martigny, Switzerland at 0939 UTC. (bottom) Terra MODIS visible image (250 m), 1050 UTC on 22 April 2004, with the approximate location of ground observing sites in Switzerland. (upper right) Ground observer reports from around Europe. Dark blue dots indicate locations where no contrails were reported.

Acknowledgments
This material is based upon work supported by the US National Science Foundation under grant 0222623, with additional support from NASA.

References
Cess, R. D., et al. (1999). Intercomparison and interpretation of climate feedback processes in 19 atmospheric general circulation models. *J. Geophys. Res.*, 95, 16,601–16,615.

—, L. H. Chmura, NASA Langley Research Center, Hampton Va., and D. P. Duda, National Institute of Aerospace, Hampton, Va.

Count-a-Thon of Airplane Contrails

The third Contrail Count-a-Thon of the GLOBE (Global Learning and Observations to Benefit the Environment) project is being held during Earth Science Week 2005 in October. Reports of sky observations—including those of contrail-thon sites—taken between 11:00 A.M. and 1:00 P.M. local time on 13 October 2005 are welcome from any interested observers (including *EOS* readers), whether or not they are associated with local schools, clubs, parks, or other groups. The Web site with instructions and the report form is available at <http://www.globe.gov/contrailcount2005>.

Clouds remain one of the main sources of uncertainty in efforts to understand and predict the Earth's global climate (Cess *et al.*, 1996). Although satellite instruments and techniques to study clouds continue to improve, contrails are a cloud type of significant interest that remains a challenge to study.

These human-caused clouds form in the wake of jet aircraft at cruise altitude when the atmosphere is sufficiently cool and moist. Contrails, like cirrus clouds, have a warming effect on the planet.

Contrails are difficult to study using satellite data. The best resolution imager currently available for global studies of the Earth's atmosphere, NASA's Moderate Resolution Imaging Spectroradiometer (MODIS) [Rahner *et al.*, 2003], has a maximum pixel resolution of 250 m (visible) and 1 km (infrared). Thus, it is not able to detect thinner contrails.

In contrast, contrails are easily detectable from the ground, except in cases of lower cloud cover. Even very short-lived contrails that form a small trail behind an aircraft can easily be seen by observers on the ground.

Of course, an observer on the ground can view only a small portion of the sky. Thus, to obtain useful information on contrail distribution from ground observers, one needs a lot of observers.

Research Uses of Observations

A database of surface-based contrail observations is useful in the study of contrail formation. Although the atmospheric conditions necessary for contrail formation are well known, the limited accuracy of upper tropospheric humidity data used in current numerical weather prediction models makes it difficult to predict contrail formation accurately. By comparing contrail observations with numerical weather prediction techniques can improved contrail prediction techniques can be developed and could be applied, for example, to contrail mitigation efforts via flight altitude or course adjustments.

The GLOBE program (www.globe.gov) is an international science program started in 1995 as a U.S. interagency effort. A primary goal of the program is to develop detailed protocols that enable students to make scientifically valuable measurements of environmental parameters. GLOBE includes large numbers of ground observers involving students from kindergarten through high school in more than 100 countries.

A contrail observation protocol was added to the GLOBE cloud type and cover protocols in spring 2003. Since then, more than 201,000 contrail reports from more than 1250 locations have been reported to GLOBE. These observation reports are being used to help evaluate numerical weather models for contrail prediction [Duda *et al.*, 2004].

To obtain large numbers of contrail observations at specific times, GLOBE and its contrail science team have held two special events: the GLOBE Earth Day 2004 Contrail Count-a-Thon and the Earth Science Week 2004 Contrail Count-a-Thon (see <http://asf-www.larc.nasa.gov/GLOBE/contrail-count-a-thon.html> for details). These events were open to interested observers around the world, who submitted contrail reports through a simplified Web form on the appointed day.

Both events in 2004 garnered about 200 daily observation reports from widely distributed participants in all inhabited parts of the world except Africa. Sufficient reports of thicker, persistent contrails were received from North America and Europe to enable useful comparisons with satellite imagery and numerical prediction techniques (Figure 1).

The goal for the 2005 event is to obtain many more reports so that information is available to help pinpoint the conditions under which contrails do and do not form in different meteorological and flight regimes around the world.

It's Earth Science Week

TALLAHASSEE — Recognizing the important role of earth sciences, Governor Jeb Bush joins states across the nation in proclaiming Oct. 9 – 15 as Earth Science Week.

Organized by the American Geological Institute, Earth Science Week is designed to promote public awareness of the earth sciences and stewardship of the Earth.

"The ability to make scientifically-informed decisions is vital to a healthy and productive environment and economy," said DEP Secretary Colleen M. Castille.

"Geologists and scientists provide information needed to preserve our natural resources, restore environmentally-sensitive areas and ensure protection of water quality for the future."

Using observations and measurements from space, underwater and underground, geoscientists evaluate Earth's present state, foresee future changes and assess effects on life and society.

The Department of Environmental Protection's (DEP) Florida Geological Survey investigates and monitors the state's

aquifer systems and geology to protect public health and natural resources and ensure sound environmental management.

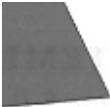
In celebration of Earth Science Week, the Florida Geological Survey will host its annual open house on Friday, Oct. 14, featuring activities and tours to educate the public on how earth sciences affect our daily lives.

The event will take place from 10 a.m. to 5 p.m. at the Gunter Building on the Florida State University campus in Tallahassee.

A nonprofit organization representing more than 120,000 earth scientists, the American Geological Institute established Earth Science Week in 1998 to promote understanding of the earth sciences.

This year's theme, "Geoscientists Explore the Earth," focuses on the various career opportunities in the geosciences.

For Earth Science Week activities and to see the Governor's proclamation, visit the website http://www.dep.state.fl.us/geology/events/earth_sci_week_2005.htm.



LETTER TO THE EDITOR

GSIS Membership:

Because I've seen little mention of the AGI's national Earth Science Week in the GSIS Newsletter, I have assumed there is little participation by GSIS members. Upon reflection, I suspect that's wrong. But it points out the problem: no publicity, no PR about what is being done. The word isn't getting out.

The week-long event (second week in October) is important to advance public awareness of earth science and its impact and importance to us all. My reason for writing is to encourage everyone to plan some ESW event or activity, *but more importantly*, to let AGI know about your plans so they can be included on their ESW Events website (<http://www.earthsciweek.org/>) on the Events in Your Area page, which lists programs by state. To list your events, go to the above website and scroll down to the bottom for the contact information. I challenge all of you to have a longer list than Washington State.

Don't forget to send press releases to local papers, your state survey publication, and local Internet service providers (they often have a Community Events calendar that's free to users).

It's not too soon to start planning for ESW 2005. This year's theme is Geoscientists Explore Our Earth.

Contact Andrea Martin (asm@agiweb.org) to subscribe to the free Earth Science Week Update newsletter.

Lee Walkling, Washington Geology Library

Celebrate Earth Science Week!

October 9-15, 2005

Geoscientists Explore the Earth

The theme this year will focus on careers in the earth sciences. From petroleum engineers to paleontologists and technicians to professors, many different types of jobs are available in the geosciences. Help students and the public understand what they are! Start by participating in Earth Science Week!

You can share your knowledge and enthusiasm about studying our dynamic Earth with others by getting involved in Earth Science Week!

You can:

- Order an Earth Science Week kit for your children's or grandchildren's science teacher.
- Plan an Earth Science Week event at your school or business.
- Visit a local museum or classroom to talk about your job as an earth scientist.
- Attend an Earth Science Week event near you—visit www.earthsciweek.org to find out what is going on!

Geoscientists

EXPLORE OUR EARTH



Earth Science Week kits will be available in August.
For more information, visit: www.earthsciweek.org

Huron Daily Tribune
Bad Axe, MI
October 12, 2005

An important week for us all

All this week, Michigan is one of 35 states to be celebrating Earth Science Week (Oct. 9-15).

What's so important about Earth Science Week? Well, according to the state's department of environmental quality, geologic knowledge is the basis for finding and developing Michigan's valuable mineral resources.

Did you know that Michigan ranks 17th among states in oil and gas production and is a major producer of magnesium, iron ore, sand and gravel, bromine, peat and potash? Michigan also produces significant volumes of cement, gypsum, crushed stone, lime, clay and other minerals and mineral products.

All of these are important elements in developing Michigan's economy.

The theme of Earth Science Week 2005 is focusing on career opportunities in geosciences. There will be a major increase in demand for earth science professionals in the next 10-20 years, led by the Baby Boomers' escalating retirements and new opportunities in energy and mineral resources and environmental stewardship.

We encourage the Thumb community to explore how the Earth's systems interact with our natural and human environment. This is a great time for teachers and students to conduct experiments and develop science knowledge.

What's so important about Earth Science Week?
The list is endless.

Imagine – Johns Hopkins University
Baltimore, MD
January/February, 2005

CELEBRATIONS

Earth Science Week 2005

Earth Science Week (ESW) is an international event to help the public gain a better understanding of and appreciation for the earth sciences and to encourage stewardship of the Earth. Organized by the American Geological Institute, ESW depends on local geoscience and education groups to plan events. Earth Science Week 2005 will take place October 9-15, 2005. Visit the Web site for continually updated information.

The American Geological Institute also sponsors national photography, visual arts, and essay contests in honor of ESW. (703) 379-2480; www.earthsciweek.org



Plan now for Earth Science Week!

Earth Science Week 2005, set for the week of October 9–15, will offer an opportunity to promote careers in geology and other earth sciences, with this year's theme of "Geoscientists Explore Our Earth."

Information about the week, along with a wide range of ideas, projects, graphics, and other related data, can be found at www.earthsciweek.org. Teachers, scout leaders, civic and professional organizations can find a wealth of information at this site to plan activities for the week.

Noting that "geology and other earth sciences are fundamental to the safety, health, and welfare of Kentuckians and to the economy of Kentucky," KGS has asked Governor Fletcher's office to officially proclaim that week, and KGS-sponsored activities in the Lexington area are being planned for the observance.

KGS staff is working with the naturalist at McConnell Springs in Lexington to provide educational programs and tours of the springs on Tuesday, October 11. McConnell Springs is a 26-acre natural and historic preserve.

The annual open house at the Mining and Mineral Resources Building on the UK campus is being planned for the evening of October 12. KGS staff and researchers, as well as professionals from UK academic departments and other earth science-related agencies, will set up displays and hands-on educational activities for the public. The open house is scheduled for 6:00 to 8:00 p.m.

For additional information on Earth Science Week and Kentucky activities, watch the KGS Web site, www.uky.edu/KGS. ♦



Earth Science Week Kits

The 2005 Earth Science Week kits are now available! This year, the theme of Earth Science Week is "Geoscientists Explore the Earth," and the kits are filled with great information about the many and exciting careers within the geosciences. Materials include a DVD and fact sheet about careers in the geosciences from the U.S. Geological Survey, a tsunami education CD and "mystery mollusk" poster provided by NOAA, and an elementary education CD-ROM and "Earth Explorers" poster from NASA. There is also an activities calendar, with a new activity for each month! Other kit materials include a newsletter from Earth Scope about the work their geoscientists do studying faults and earthquakes, a flyer from the National



*Earth Science Week
takes place
October 9-15, 2005*

Parks Service about geoscientists and interns working in the parks, a poster from IRIS on the history of seismology, and a call for research participation in studying contrails (see "Be Research Scientist! Get started counting Contrails with S'COOL" in this newsletter). The kits are valuable tools for teachers, educators and

outreach.

The estimate value of the Earth Science Week kit material is about \$50 per kit, but you can order yours for only \$4.95 each! This includes shipping and handling, and bulk rates are available for large orders as well. To order, please call the American Geological Institute at 703-379-2480, or visit their publications website, <http://www.agiweb.org/pubs>

*News of Delaware County (Drexel Hill/Upper Darby)
Ardmore, PA
October 5, 2005*

Calling all Girl Scouts for Earth Science Week

Penn State Delaware County is calling all Junior, Cadette and Senior Girl Scouts to participate in Earth Science Week activities and earn a special patch to mark the occasion from 9 a.m. to noon, on Saturday Oct. 8, in the Classroom Building on ~~5446~~ Campus, 25 Yearsley Mill Road, Lima. The program is free. For information call Laura Guertin at 610-892-1427.

News of Delaware County (Boroughs Edition)
Ardmore, PA
September 28, 2005

Earth Science Week

Penn State Delaware County is calling all Junior, Cadette and Senior Girl Scouts to participate in Earth Science Week activities and earn a special patch to mark the occasion from 9 a.m. to noon, on Saturday Oct. 8, in the Classroom Building on ^{Sub} Campus, 25 Yearsley Mill Road, Lima. The program is free. For information call Laura Guertin at 610-892-1427.

Niles Daily Star
Niles, MI
October 8, 2005

Earth Science Week in Michigan is Oct. 9 - 15

Nationwide observance emphasizes the importance of earth sciences to health

Gov. Jennifer M. Granholm has declared Oct. 9 through 15 as Earth Science Week in Michigan.

Earth Science Week is a nationwide observance emphasizing the importance of earth sciences to the health, safety, and economic well being of citizens.

The governor's proclamation makes Michigan one of 35 states recognizing the week.

Knowledge of geology is essential to understanding the characteristics and origins of Michigan's terrain which varies from the eroded roots of volcanoes and mountains, to sediments laid down in ancient shallow seas, to glacial hills and lakebed plains.

Geologic knowledge provides insight on the characteristics and occurrence of Michigan's soil, groundwater, and surface water resources to serve as a basis for preventing and remediating contamination problems.

Geologic knowledge is also the basis for finding and developing Michigan's valuable mineral resources.

Michigan ranks 17th among the states in oil and gas production, and is a major producer of magnesium, iron ore, sand and gravel, bromine, peat, and potash.

The state also produces significant volumes of cement, gypsum, crushed stone, lime, clay, and other minerals and mineral products.

The Department of Environmental Quality's Office of Geological Survey is taking the lead in celebrating Earth Science Week in Michigan.

For a list of geologists from state government, academia, industry and professional organizations who can give presentations to schools and community groups on earth science topics, visit <http://www.deq.state.mi.us/eforms/speakerrequest> on the internet, or contact the OGS at 517-241-1515.

North County Times (Escondido Edition)
Escondido, CA
October 7, 2005

Palomar to host sciences week

SAN MARCOS — Palomar College is inviting the public to take part in campus activities to observe national Earth Science Week Sunday through Oct. 15. Palomar's Earth Sciences Department is planning an array of activities, details to be announced.

Guest speaker Dr. Pat Abbott, Professor of Geology at San Diego State University, will present "Tsunami and Hurricanes: Lessons from Sumatra and Katrina" at 2:30 p.m. Monday in room ES-19 on the San Marcos campus.

Displays and information will be at the Student Union from 9:30 a.m. to 2:30 p.m. Monday through Thursday.


For more information, visit the Earth Sciences Department Web site at www.palomar.edu/earthscience/ or contact Patty Deen, Earth Sciences Department chair, at (760) 744-1150, Ext. 2519 or pdeen@palomar.edu.

NSTA Reports
Arlington, VA
August 2005

**Earth Science Week 2005
Salutes Geoscientists**

5446
OCTOBER 9-15

Celebrate
**EARTH
SCIENCE
WEEK**

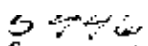


www.earthsciweek.org

"Geoscientists Explore Our Earth," the theme of this year's Earth Science Week celebration, will focus on careers in the Earth sciences and on the important contributions that geoscientists make to society. During October 9-15, students can learn about the many types of geoscientists: hydrologists, geochemists, astronauts, museum curators, soil scientists, sedimentologists, teachers, and more.

The American Geological Institute and its partners are assembling a packet of materials to help teachers, students, and the general public celebrate Earth Science Week. The 2005 Earth Science Week Information Kits, available in August, will include a new poster about NASA Earth Explorers, as well as materials from NOAA, the National Weather Service, and others.

Check the Earth Science Week website at www.earthsciweek.org in August to get your kit. ●


Information on careers in the geosciences. In time for Earth Science Week (October 9–15), teachers and students can learn about what a geoscientist does. Visit the Earth Science World website at www.earthscienceworld.org, and select the Careers section, or browse *Geotimes* magazine (www.geotimes.org/careers.html) for information about unusual geoscience careers, articles for students, and other career links.

www.earthsciweek.org
Based on the National Science Education Standards, this website offers K-12 educators activities in the Earth sciences that focus on the theme of the current year's Earth Science Week. The site also offers additional resources related to the Earth sciences, including current events discussions, research, and media coverage. Student visitors can access information on contests, careers, and organizations.

It's Earth Science Week

TALLAHASSEE — Recognizing the important role of earth sciences, Governor Jeb Bush joins states across the nation in proclaiming Oct. 9 – 15 as Earth Science Week.

Organized by the American Geological Institute, Earth Science Week is designed to promote public awareness of the earth sciences and stewardship of the Earth.

"The ability to make scientifically-informed decisions is vital to a healthy and productive environment and economy," said DEP Secretary Colleen M. Castille.

"Geologists and scientists provide information needed to preserve our natural resources, restore environmentally-sensitive areas and ensure protection of water quality for the future."

Using observations and measurements from space, underwater and underground, geoscientists evaluate Earth's present state, foresee future changes and assess effects on life and society.

The Department of Environmental Protection's (DEP) Florida Geological Survey investigates and monitors the state's

aquifer systems and geology to protect public health and natural resources and ensure sound environmental management.

In celebration of Earth Science Week, the Florida Geological Survey will host its annual open house on Friday, Oct. 14, featuring activities and tours to educate the public on how earth sciences affect our daily lives.

The event will take place from 10 a.m. to 5 p.m. at the Gunter Building on the Florida State University campus in Tallahassee.

A nonprofit organization representing more than 120,000 earth scientists, the American Geological Institute established Earth Science Week in 1998 to promote understanding of the earth sciences.

This year's theme, "Geoscientists Explore the Earth," focuses on the various career opportunities in the geosciences.

For Earth Science Week activities and to see the Governor's proclamation, visit the website http://www.dep.state.fl.us/geology/events/earth_sci_week_2005.htm.

Rocks and Minerals
Washington DC
September 2005

EARTH SCIENCE WEEK: This year marks the eighth year for this annual event, which is hosted by the American Geological Institute, a nonprofit federation of forty scientific and professional associations that represent more than one hundred thousand geologists, geophysicists, and other earth scientists. The week was established to give students and citizens new opportunities to discover Earth sciences and to encourage stewardship of Earth.

Earth Science Week 2005 will be celebrated 9–15 October; its theme is *Geoscientists Explore our Earth*. For the latest information on the many associated activities, in general and also state by state, visit <http://www.earthsciweek.org/>.

Rutland Herald
Rutland, VT
October 11, 2005

Quarry visit

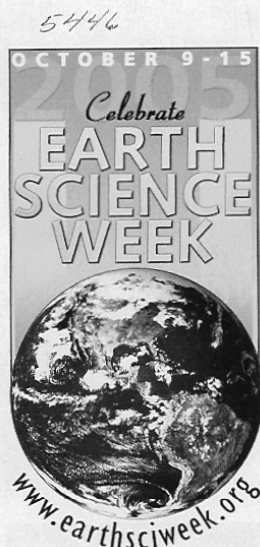
OMYA is inviting students to celebrate Earth Science Week with a visit to their Middlebury Quarry on Saturday.

Visitors can explore the quarry through guided bus tours and enjoy earth science week activities for the whole family from 10 a.m. to 4 p.m. The bus tour features stops at three locations within the depths of the marble quarry. Visitors may get off at any or all stops for guided tours. Those with young children or with less time are welcome to stay on the bus for a quick ride through the quarry. Last tours into the quarry depart at 3 p.m.

Other activities include rock collecting, mineral testing and a weight-guessing contest. Artists of all ages can help create an earth science mural. Trucks, drills and mining equipment will be on display and children can play in a pile of marble sand with toy trucks. For more information, call Alice Blount at 770-7267.

Finds & Sites

Free or inexpensive materials, publications, and events of interest



Earth Science Week

This year's Earth Science Week (October 9–15, 2005) will have the theme "Geoscientists Explore the Earth." Focusing on the wide variety of careers available in the geosciences and the contributions geoscientists make to society, this theme will raise awareness among students and the public of the exciting opportunities to work in the field. To learn more about this event, visit www.earthsciweek.org.

Special events for Earth Science Week will include three national contests, hosted by the American Geological Institute (AGI):

- Visual Arts: Students in grades K–5 are eligible. They should make a drawing, collage, or other two-dimensional piece of artwork that illustrates the theme "Earth Jobs." Students should depict

themselves as geoscientists, engaged in a career they might like to have in the Earth sciences. The artwork should also show some of the scientific tools that would be used in the chosen career.

- Essay: Students in grades 5–8 are encouraged to compete in the Essay Contest. Submissions should answer the question: "What kind of geoscientist would you like to be, and why?" Essays should be fewer than 500 words in length and should be based on student research about a particular career in the Earth sciences.
- Photography: The Photography Contest is open to the general public. Submissions should illustrate the theme "Extreme Earth Science" by showing an exciting Earth science subject or geoscientists in an amazing location or situation. The goal is to create pictorial evidence of why Earth science is an exciting field to study. Submissions can include print or digital photographs.

Entries must be received by October 1, 2005. A grand prizewinner in each category will win \$300 and a one-year subscription to *Geotimes*, AGI's monthly news magazine for the Earth sciences. Go to www.earthsciweek.org/contests for complete descriptions of contest rules and submission guidelines.

Spy with My Eye...

Before Galileo Galilei spied through a long tube with two lenses in 1609 and ever since, humans have been captivated by the sky. Telescopes from the Ground Up ([http://amazing-](http://amazing-space.stsci.edu/resources/explorations/groundup/)

[space.stsci.edu/resources/explorations/groundup/](http://amazing-space.stsci.edu/resources/explorations/groundup/)), is an online journey through the eras of telescope history, starting with Galileo's small refractor and ending with NASA's Great Observatories. Log on and trace the fascinating life of telescope evolution to reveal the inner workings of science understanding, technological advancements, astronomical discoveries—and the people who made them.

Telescopes from the Ground Up is the newest addition to Amazing Space, <http://amazing-space.stsci.edu/>, an astronomy and space science education program that harnesses Hubble Space Telescope's extraordinary ability to deliver stunning imagery and profound scientific discoveries. Amazing Space fuses these spectacular scientific findings into hard copy and web-based materials aimed at inspiring and educating about the wonders of the universe. Designed for K–14 students and educators but fascinating to anyone, Amazing Space education materials take users on guided explorations of the

Finds & Sites highlights free or inexpensive materials, publications, and events of interest to elementary teachers. To obtain the materials, contact the advertisers, not *S&C*.

For more educational opportunities and events of interest, check out www.nsta.org and click on Calendar.

universe to uncover the awe and wonder of distant galaxies, planets, black holes, and the science behind them. Amazing Space offers activities that look far into the universe to inspire and enlighten students and educators well into the future.

Science and Children

Arlington, VA

October, 2005



5446

Clouds are the largest variable controlling Earth's global climate and also the main sources of uncertainty for scientists studying the atmosphere. One cloud type remains a major challenge and is of major interest: *contrails*. Also known as "condensation trails," these are linear clouds produced in the wake of jet aircraft.

Because contrails are difficult to study using satellite data, student observers are invited to help scientists by observing contrails in their area and reporting on the amount and type of contrails present. Sky

observation reports are welcome from interested observers sometime between 11 a.m. and 1 p.m. local time on October 13, during Earth Science Week (October 9–15). Find out more at <http://asd-www.larc.nasa.gov/GLOBE>.

go to http://www.chemistry.org/portal/a/c/s/1/acsdisplay.html?DOC=ncw%5cncw_index.html.



Student Geoscientists Explore the Earth

During Earth Science Week 2005

by Ann E. Benbow and Geoff Camphire

Across the country and around the world, Earth science students will be sampling groundwater and monitoring the weather, touring mines, exploring caves, visiting museums and science centers, preparing projects for competitions, and conducting investigations in their own classrooms. Will your middle school students be among the many participating in the eighth annual Earth Science Week?

Taking place October 9–15, Earth Science Week 2005 will celebrate the theme “Geoscientists Explore the Earth.” The American Geological Institute (AGI) is organizing the event, as always, to help people better understand and appreciate the Earth sciences and to encourage stewardship of the planet. This year, the focus will be on the wide range of exciting professional opportunities available—including careers in geology, geophysics, oceanography, paleontology, climatology, and Earth science education.

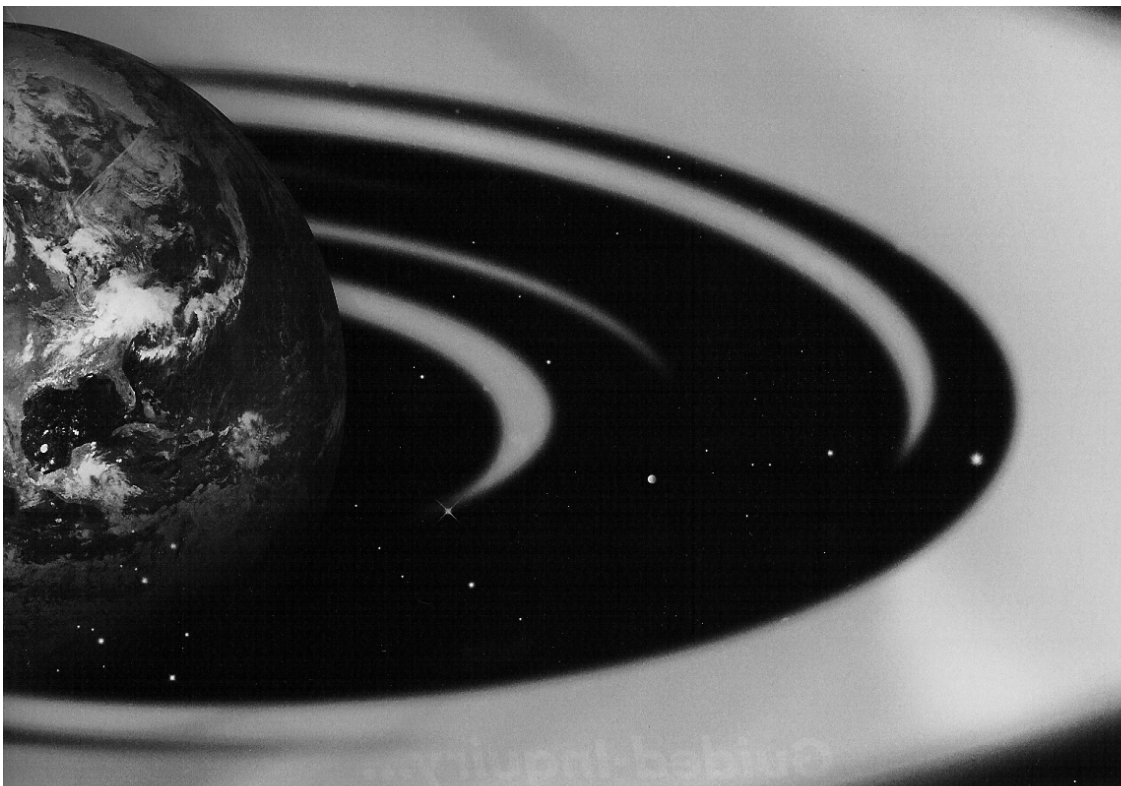
For a sneak peek at what’s in store this year, see the Earth Science Week poster, with a classroom activity on the back, included in this month’s *Science Scope*. And visit the Earth Science Week website—www.earthsciweek.org—to learn more about how you can become involved, events taking place and organizations getting involved in your community, exciting careers available in geoscience, the monthly *Earth Science Week Update* electronic newslet-

ter, what’s gone on during past Earth Science Weeks, and how you can get an Earth Science Week educator’s kit.

The kit contains thought-provoking CD-ROMs, colorful posters, classroom activities for all grade levels, the new Spanish translation of AGI’s *Why Earth Science?* brochure, geoscience maps and lithographs, and information on event contests. All kit materials have been designed by AGI and our event partners, including the U.S. Geological Survey, National Aeronautics and Space Administration, National Oceanic & Atmospheric Administration, National Weather Service, National Park Service, Incorporated Research Institutions in Seismology, Digital Library for Earth System Education, S’Cool, and EarthScope.

This year’s kits also will contain a new resource: The Earth Science Week 2005–06 School-Year Calendar. The calendar will feature an exciting classroom activity each month. In addition, the activity calendar will provide a wealth of information about geoscience careers, upcoming geoscience events, historical dates relating to Earth science, ways to participate in Earth Science Week, and links to resources on the Web. Teachers are encouraged to hang the calendar in the classroom, so they and their students

Ann E. Benbow (aeb@agiweb.org) is director of Education, Outreach, and Development, and **Geoff Camphire** (gac@agiweb.org) is department staff, at the American Geological Institute.



can use it throughout the school year—from August 2005 to July 2006—far beyond the one-week celebration.

The big week

Earth Science Week offers teachers and students many ways to participate. If you'd like to conduct an Earth science lab activity with your students, the event website (www.earthsciweek.org) has several classroom activities aligned with the *National Science Education Standards*. In addition, you can invite a local scientist to your classroom to talk about careers.

Want to organize a local activity? The event website features highlights and news clippings that might give you a few ideas. In past years, teachers and students have taken a field trip near Reno led by the Nevada Bureau of Mines, competed in contests hosted by the Geological Society of Houston, and participated in a special Earth Science Day at the Cleveland Museum of Natural History.

Students also are invited to participate in Earth Science Week contests in writing, art, and photography. Middle-school students in particular are encouraged to submit essays answering the question, "What kind of geoscientist would you like to be, and why?" Photography submissions should illustrate the theme "Extreme Earth Science" by

showing an exciting geoscience subject or geoscientists in an amazing location or situation. Entries received by October 7 will be eligible for a grand prize of \$300 and a one-year subscription to *GeoTimes*, AGI's monthly news-magazine for the Earth sciences.

On the event website, students also can complete the Geosciences Career Webquest to test their knowledge of what geoscientists do. Girl Scouts, Boy Scouts, and members of other youth groups can learn how to earn an Earth Science Week activity patch. As usual, the celebration offers something for everyone.

Emphasis on careers

To help raise awareness about the importance of geoscience for a new generation, Earth Science Week 2005 focuses attention on geoscience careers. Take this opportunity to educate your students about the vital roles that geoscientists play and the many ways they help us understand natural processes on Earth and other planets.

For more information, visit AGI's Careers Website (www.agiweb.org/careers) and Earth Science World (www.earthscienceworld.org). These sites, along with the rest of Earth Science Week 2005, are designed to put your students on the road to success in the Earth sciences.

Petrified Forest National Park Celebrates Earth Science Week

Earth Science Week is an annual event sponsored by the American Geological Institute to help the public to better understand and appreciate earth sciences, and to encourage stewardship of the earth. This year's Earth Science Week is from Oct. 9-15, and celebrates the theme is "Geoscientists Explore Our Earth."

"Petrified Forest National Park is marking this event with special programs featuring the park's fascinating geology," said Superintendent Lee Baiza.

The park celebration will include:

- * **Ranger programs.** Triassic Park will be held at 10 a.m. every day. Visitors are invited to join a ranger for a program at the Rainbow Forest Museum to learn about petrified wood and the Triassic environment. The Fossil Laboratory Tour is scheduled from 10 a.m. to 2 p.m., Tuesday through Friday, Oct. 11-14. Learn how a paleontologist works with actual fossils collected from Petrified Forest National Park. This is a special behind the scenes tour. Ask for details at the Painted Desert Visitor Center.

- * **Scavenger hunt.** You can have fun learning about Petrified Forest National Park by answering some questions, then enter your name for a free drawing for seven grand prizes. Ask for details at the Painted Desert Visitor Center or Rainbow Forest Museum and Visitor Center.

- * **Displays and exhibits.** Hands-on exhibits at Painted Desert Visitor Center allow you to touch rocks and fossils found at Petrified Forest National Park. Exhibits at the Rainbow Forest Museum and Visitor Center include plant and animal fossils, skeletons of Triassic animals, and images of the environment 225 million years ago.

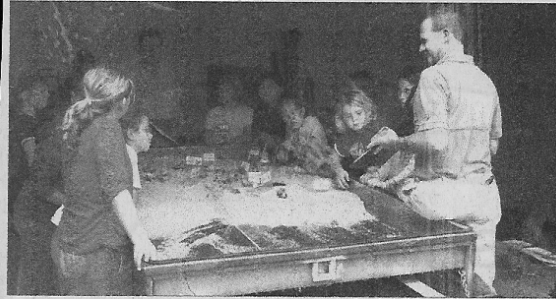
- * **Hiking trails that highlight geology.** The Painted Desert Rim Trail is one-mile round trip where visitors walk along the edge of a geological wonderland. The Blue Mesa Trail is a one-mile loop that drops down in the clay hills, allowing visitors to see geology in action. The

Crystal Forest Trail is a three-quarter-mile loop from which visitors may browse through a forest of colorful petrified trees. The Long Logs and Agate House Trail is 2.5 miles round trip, and includes exposed logs more than 100 feet long and a unique ancestral Puebloan home made of petrified wood. The Giant Logs Trail is a four-tenths-mile loop that accesses one of the largest logs in the park, "Old Faithful."

For more information, call the park at (928) 524-6228 from 8 a.m. to 4 p.m. weekdays.

TALIHINA STUDENTS OBSERVE EARTH SCIENCE WEEK

FRONT PAGE



5th and 6th grade students observe the hydrology trailer.

In recognition of Earth Science Week, Talihina science students were involved in several special activities. Earth Science Week was observed October 9-15 this year and the emphasis was on geoscience careers. Mr. Warren's 8th grade Earth Science class students participated in a web-based career exploration activity about geoscience. The Earth Science class also took part in a worldwide atmospheric study on October 13th. Classes made sky observations and reported the number of or absence of contrails in the sky during midday. Data was recorded at the following web site <http://www.globe.gov/earthsci-week2005> GLOBE. (Global Learning and Observations to Benefit the Environment) is an interagency program funded by NASA and NSF, supported by the U.S. department of state, and implemented through a cooperation for Atmospheric Research in Boulder, Colorado, and Colorado State University in Fort Collins Colorado.

Talihina's newly formed Science Club also participated in Earth Science Week activities. Science Club members and club sponsor Mr. Warren organized an educational on-campus field trip for 5th and 6th grade students

on Wednesday October 12. Latimer County OSU extension service brought a hydrology trailer to our school, and set it up. They made presentations to groups of students throughout the day. Students learned about water quality issues, stream bed dynamics, erosion control, flood zones, best management practices, for stream banks lands and the importance of vegetation. The Science Club would like to thank Mr. Johnson and Mr. Freking for making this successful event possible. Special thanks to Science Club Members, Heather O'Neal and Kassie Holland for their hard work in setting up the trailer and to Ag Instructor Cyal Walden for the use of the Ag shop Facilities.

The science club also started an aluminum can recycling drive during Earth Science Week. Science club members along with the Ag department and the tech Ed classes have made containers for aluminum can recycling. The container is located along the covered walkway between the buildings at the High school. All proceeds raised from recycling cans will be used to fund the science club activities. Remember to think globally and act locally and help support the science club by recycling.

EARTH SCIENCE WEEK CELEBRATION

The St Paris Public Library in collaboration with the Graham High School Science Department celebrated Earth Science Week on October 12, 2005. Special guest, "Dr. Dale the Dinosaur Man", was in attendance. Dr. Dale Gnidovec is the curator of the Orton Geological Museum on the campus of The Ohio State University. Dr. Dale talked about what the Earth is made up of and the importance of Earth Science. He also brought many specimens from the museum including a meteorite, mammoth and mastodon teeth, and everyone's favorite – dinosaur dung!

High School Physical Science students led the station activities that included erupting a volcano, making a book about volcanoes, making clouds, hunting fossils, learning about the phases of the moon and playing a game about the hydrosphere, lithosphere, atmosphere and biosphere! At the end of the evening, everyone got a goodie bag with surprises from NASA, NOAA, the EPA, The Ohio Geological Survey, The Bridge, and the Ohio Aggregates & Industrial Minerals Association who provided ROCK SETS FOR ALL!!

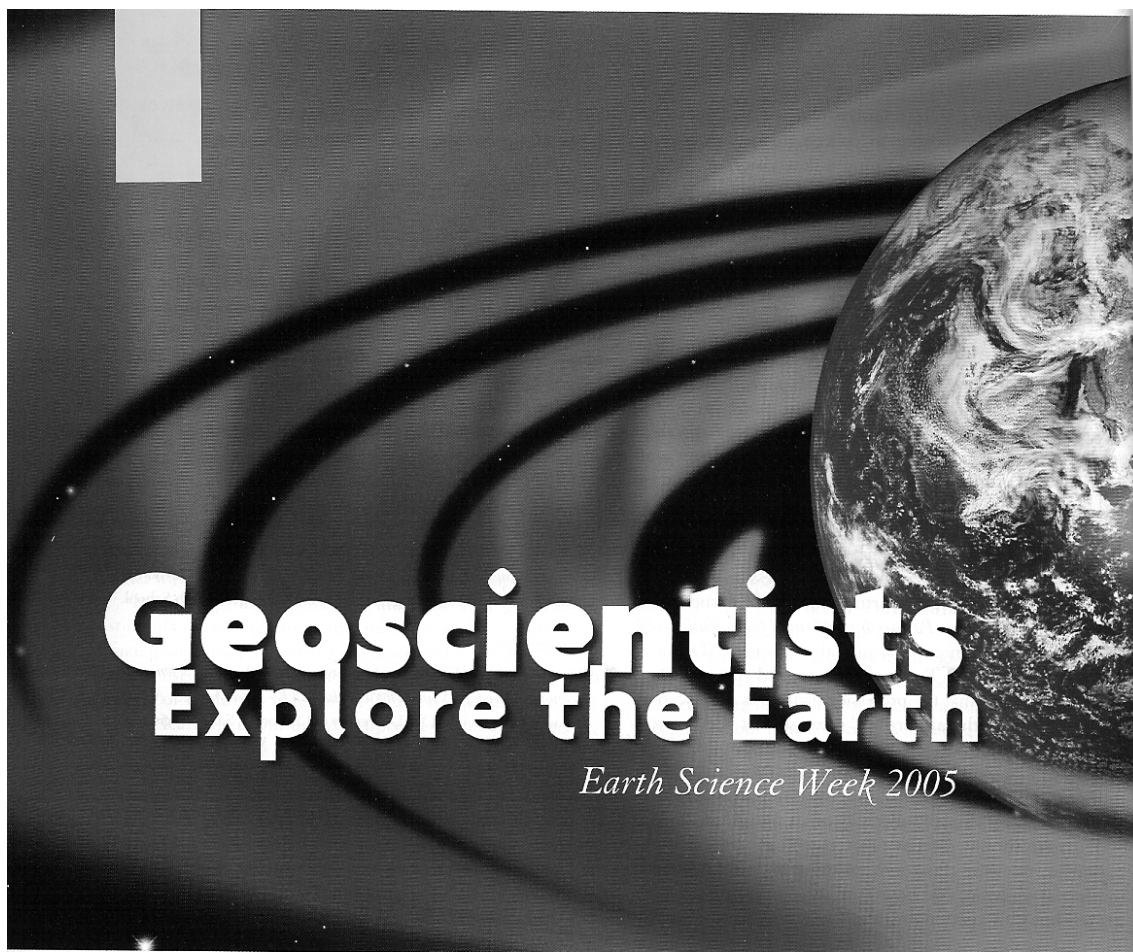
Students in Kindergarten through third grade that attend both North and South Elementary, as well as Graham Digital Academy students participated in this evening of excitement! It was a great evening for extending learning beyond the walls of the classroom and inspiring everyone to "dig in" to science! Special thanks go to the St. Paris Public Library, the Physical Science students who ran the stations, and all of those agencies who provided "surprises".



Dr. Gnidovec is telling students about the specimens he brought from the museum.

High school physical science student, James Mannier, is demonstrating and explaining the erupting volcano to elementary students.

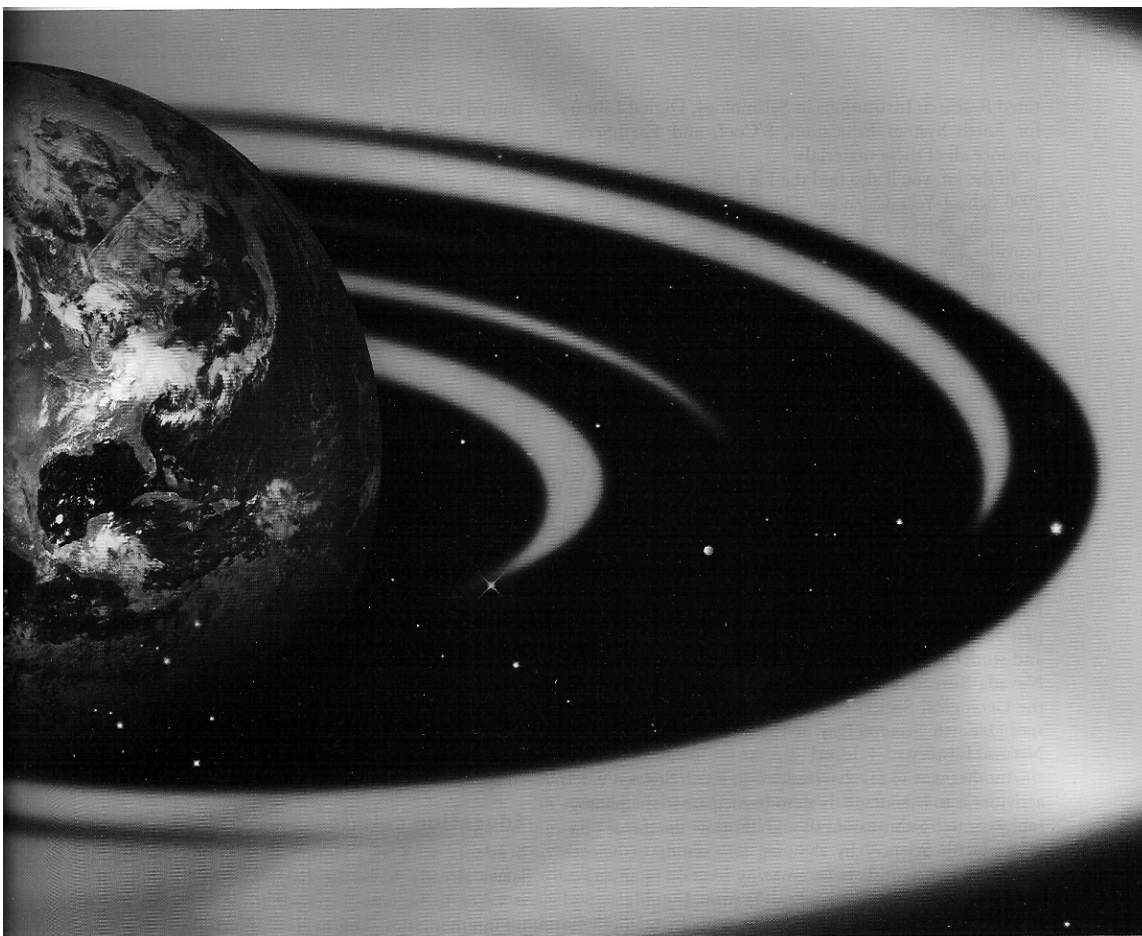




Ann E. Benbow and Geoff Camphire

Across the country and around the world, Earth science students will sample groundwater, monitor the weather, tour mines, explore caves, visit museums and science centers, prepare projects for competitions, and conduct investigations in their own classrooms during Earth Science Week 2005 (October 9–15), sponsored by the American Geological Institute (AGI). Visit the American Geological Institute (AGI) Earth Science Week website—www.earthsciweek.org—to learn more about how you can become involved. On the website you will find events taking place in your community, local organizations to partner with, the many careers available in geoscience, the monthly Earth Science Week Update electronic newsletter, and how you can order an Earth Science Week educator's kit.

This year, Earth Science Week celebrates the theme “Geoscientists Explore the Earth.” Earth Science Week will focus on the wide range of exciting professional opportunities available—including careers in geology, geophysics, oceanography, paleontology, climatology, and Earth science education.



AGI is emphasizing geoscience careers this year for many important reasons. Geoscientists help identify adequate supplies of natural resources, maintain agricultural productivity, protect the environment, monitor global weather patterns, predict and minimize the catastrophic effects of natural hazards, and perform a host of other critical functions. In addition, employers in business, industry, technology, research, and education are preparing for the retirement of the Baby Boom generation, which will open a substantial number of job opportunities for geoscientists in the workforce.

Secondary students may not be aware of the wide variety of geoscience careers available to them, and the importance of such careers to society. The Earth Science Week kit, materials, events, and website can help students—the next generation of geoscientists—learn about these career options.

Find your opening

AGI has organized this annual international event since 1998 to help people better understand and appreciate

the Earth sciences and to encourage stewardship of the planet. Want to get involved? Earth Science Week offers something for everyone.

Start by checking out the colorful Earth Science Week poster included in this month's issue of *The Science Teacher*. Before you put it up in your classroom, see the reverse side of the poster for an activity that you and your students can conduct in the classroom.

At www.earthsciweek.org you can order an Earth Science Week educator's kit. This year's kit contains CD-ROMs, classroom activities for high school and other grade levels, the new Spanish translation of AGI's *Why Earth Science?* brochure, geoscience maps and lithographs, and information on event contests. AGI and its event partners, including the U.S. Geological Survey, National Park Service, National Aeronautics and Space Administration, National Oceanic and Atmospheric Administration, National Weather Service, American Association of Petroleum Geologists Foundation, Incorporated,

rated Research Institutions in Seismology, Digital Library for Earth System Education, S'Cool, and EarthScope, produce all of these materials.

In the kit, you'll also find the Earth Science Week 2005–2006 School-Year Calendar. This wall calendar features a classroom activity each month. In addition, the publication provides a wealth of information about geoscience careers, upcoming geoscience events, historical dates relating to Earth science, ways to participate in Earth Science Week, and links to resources on the internet. Hang the calendar in your classroom, so you and your students can use it throughout the school year—far beyond the October celebration of Earth Science Week.

During Earth Science Week you can also conduct an Earth science classroom activity. The Earth Science Week website describes several activities, all aligned with the National Science Education Standards. To add a real-world dimension, consider inviting a local scientist to talk with your students about careers in the geosciences.

You could also partner with a nearby science organization to run or attend a local event. For ideas, see the Earth Science Week highlights and news clippings from past years featured on the website. For example, teachers and students have taken a field trip near Reno led by the Nevada Bureau of Mines, competed in contests hosted by the Geological Society of Houston, and participated in a special Earth Science Day at the Cleveland Museum of Natural History.

Another way to involve students in Earth Science Week activities is to encourage them to participate in the photography contest. Submissions should illustrate the theme “Extreme Earth Science” by showing an exciting geoscience subject or geoscientists in an amazing location or situation. Your high school students also might provide guidance and assistance to elementary and middle school students who are eligible to enter related contests for essays and the visual arts. Entries received by October 7, 2005, could win a grand prize of \$300 and a one-year subscription to *GeoTimes*, AGI's monthly newsmagazine for the Earth sciences.

On the website, your students can complete the Geosciences Career Webquest to test their knowledge of what Earth scientists do. This electronic quiz is just one example of how Earth Science Week 2005 is turning a spotlight on geoscience careers.

Focus on careers

As a high school teacher, you are encouraged to educate your students, who soon will be entering the workforce, about the crucial roles that geoscientists play and the ways they build understanding about natural processes on Earth and other planets. You might want to ask your students, “What exactly are some of the jobs that geoscientists do?”

See how surprised your students are by some of the answers: Developing plans for land use and maintaining agricultural productivity; finding and maintaining quality supplies of

natural resources, such as water, petroleum, and metals; monitoring and safeguarding the environment; observing climate change and forecasting weather; anticipating natural hazards, such as earthquakes and tsunamis, and helping to mitigate their effects; exploring the solar system; and helping to set government policies for resource management, environmental protection, and public health and welfare.

Many high school students often are fascinated to learn about the exciting variety of geoscientists' work. Whether serving as exploration geologists, engineering consultants, environmental researchers, teachers, writers, editors, or museum curators, geoscientists divide their time among work in the field, laboratory, and office.

Field work might consist of making maps of the Earth's surface, exploring its interior by drilling or using geophysical tools, collecting samples, and making measurements that will be analyzed in the laboratory. For example, rock samples can be studied under an electron microscope, and analyzed to determine physical and chemical properties. Geoscientists also conduct experiments and design computer models to test theories about geologic phenomena and processes.

In the office, these scientists integrate field and laboratory data and prepare reports and presentations, including maps and diagrams that illustrate the results of their studies. Such maps might pinpoint the possible occurrence of specific natural resources or indicate subsurface conditions or hazards that could affect the viability of construction sites or land-use plans.

Education counts

Students who are excited about science and like to learn already have the basic building blocks of what it takes to become a geoscientist. Earth science draws on mathematics, engineering, and a variety of other sciences. Geoscientists should have good language and communication skills in order to present their work clearly in writing or through public speaking.

In choosing a college, high school seniors should review course listings for departments of geology, geoscience, Earth-systems science, or environmental science to identify programs that match their interests. Some professional positions in the geosciences require a master's degree. A doctorate degree is needed for advancement in college teaching and most high-level research positions.

For more information, visit AGI's Careers website (www.agiweb.org/careers) and Earth Science World (www.earthscienceworld.org). These sites are just some of the Earth Science Week 2005 resources that have been created to help you and your students succeed in the Earth sciences. ■

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TESTING QUALITY: Elaine Burgess, 17, a junior at Brown City High School, left, and Alex Gay, 17, of Croswell-Lexington High School on Tuesday watch a water sample from Lexington Harbor after adding chemicals that will give a reading of the carbon dioxide levels. They and other students attending the Sanilac County Science and Math Center were doing water-quality tests along the lakeshore in Lexington Harbor.

Times Herald photos by MELISSA WAWZYSKO

Earth Science Week has hands-on lessons

By HILLARY
WHITCOMB JESSE
Times Herald

Turning on the water faucet or walking into the basement are everyday activities that may not seem to connect to science classes studied long ago.

Activities such as those are examples of earth science in everyday life and are related to water quality or the soil your house's foundation and basement sit on.

This week, Michigan is one of 35 states celebrating Earth Science Week, focusing on how earth science affects the health, safety and economic well being of citizens.

For St. Clair County, earth science may have its most obvious public connection in the waterways.

"The water is so near the surface. If you're going to do any work near the St. Clair River or the lake, you pretty much know where the water table is," said Terry Parks, director of the St. Clair County Regional Educational Service Agency's mathematics and science center.

Geology affected the soil under where one of



Parks' neighbors tried to build a new house, he said. A deeper hole and pilings were necessary to assure stability, he said.

In Sanilac County, Juanita Smith's fourth-grade science students at Brown City Elementary School also enjoy geology.

"They all want to bring in rocks. I have rocks all over my windowsill — and shells. As soon as you say, 'rocks,' they say, 'oh, I've got a beautiful rock at home!'" Smith said.

Countywide, fourth-grade classes receive a lesson kit called "Great

FLOW INFO: Elizabeth Thomas, a Brown City High School freshman, right, holds a stream probe as she watches Ryan Ehardt, a junior at Croswell-Lexington High School, get stream-flow results on a combination graphing calculator.

Lakes and the Land" from the Sanilac Intermediate School District's ABC in Science program.

Smith said it includes lots of hands-on projects including making "fossils" (out of plaster of Paris), building volcanoes and adding pollution to a clear tank of water to show its effects.

Sanilac County high school students from the ISD's Science and Mathematics Center take that lesson to the real world, doing a yearly water-quality study along the Lake Huron shore, then send-

TO LEARN MORE EARTH SCIENCE & WATER

■ A free presentation for students in forth through 12th grades, called "Pollution Solutions," is available from environmental educator Sheri Faust at the St. Clair County Health Department. The one-hour, hands-on program teaches how this area's geology affects the interplay of ground water and surface water. Faust customizes the program for each grade based on curriculum. For details, call (810) 987-5306.

ing a report to the state.

"It's a very comprehensive study. We do everything from cyanide count, oxygen count to E. coli, bacteria levels in the water," science instructor Brian Derowski said.

The 74 students did water- and soil-sampling Tuesday in Lexington and plan to continue Thursday.

Derowski said they look at stream flow, earth formations and fish and plant life. This is the 16th year for the study.

○ Contact Hillary Whitcomb Jesse at (810) 989-6277 or hjesse@gannett.com.

Town Talk (Southern Delaware County)
Media, PA
September 28, 2005

Girl Scouts: Earth Science Week At Penn State Delco

Penn State Delaware County is calling all Junior, Cadette and Senior Girl Scouts to participate in Earth Science Week activities and earn a special patch to mark the occasion on Saturday (Oct. 8) from 9 a.m. to noon in the Classroom Building on campus.

The program, which is the brainchild of Laura Guertin, assistant professor of earth science, involves Penn State Delaware County students who

have designed coursework for the program, and who will also guide the Girl Scouts through the morning's activities. The goal is to make science exciting for girls and to open their eyes to different science careers. Participants will discuss and investigate themes related to earth science, and they will have the opportunity to conduct hands-on investigations of the stream that runs through campus, so sneakers are highly

recommended.

At the end of the program, the girls will get to take home a customized workbook filled with resources on science and earth science careers, as well as the Earth Science Week Activity Patch.

The program is free, but registration is required by Oct. 5. Penn State Delaware is at 25 Yearsley Mill Road, Lima. For information or to register call Laura Guertin at 610-892-1427.

TsuInfo Alert
Olympia, WA
October 2005

EARTH SCIENCE WEEK

Every year during the second week of October, the American Geological Institute (AGI) sponsors Earth Science Week to promote geoscience education and awareness of the importance of earth sciences.

This year the ESW kit contains *TsunamiReady Education CD* by the National Oceanic and Atmospheric Administration's National Weather Service Office of Education and Sustainable Development. The material is for grade levels K-12, and includes textbooks and teachers' guides in both doc and pdf files. A copy, with the complete ESW kit, can be purchased for \$4.95 from <http://www.earthsciweek.org/materials/index.html>; or you can borrow the NTHMP copy for a 1-week loan. See contact information on page 2.

Earth Science Week slated

Special to the Citizen

ST. PARIS – The Graham High School Science Department in collaboration with the St. Paris Public Library will host an “Earth Science Week Celebration” on Wednesday, Oct. 12 at 7 p.m.

Activities will include earth science experiments. Students in first through third grade will be able to erupt a volcano, make clouds, hunt for fossils and participate in other activities.

There will be a short presentation by a paleontologist from Wright State University.

Call the St. Paris Public Library at 663-4349 to register. Space is limited.