

### Section 3

#### **Earth Science Week 2006 News Clippings**

<b>Publication</b>	<b>Circulation</b>	<b>Page</b>
<i>AAPG Explorer</i> – August 2006 – Tulsa, Oklahoma	31,000	3-3
<i>AAPG Explorer</i> – September 2006 – Tulsa, Oklahoma	31,000	3-4
<i>About.com</i> – August, 18, 2006	80	3-5
<i>Ann Arbor News</i> - October 8, 2006 - Ann Arbor, Michigan	66,904	3-6
<i>Arrive</i> - October 2006 - Phoenix, Arizona	200,000	3-6
<i>Black Issues in Higher Education</i> – October 5, 2006 – Fairfax, Virginia	40,000	3-7
<i>Brown University News Service</i> – October 13, 2006 – Providence, Rhode Island	60,000	3-8
<i>Chihuahuan Desert Research Institute: Education News</i> 2006 – Fort Davis, Texas	550	3-9
<i>Corpus Christi Caller-Times</i> – October 14, 2006 – Corpus Christi, Texas	58,042	3-10
<i>Courier</i> – September 25, 2006 – Waterloo, Iowa	44,883	3-12
<i>The Earth Scientist</i> – Summer 2006 – Liverpool, New York	1,600	3-13
<i>Farm and Dairy</i> – September 28, 2006 – Salem, Ohio	32,000	3-16
<i>Geotimes</i> – September 2006 – Alexandria, Virginia	10,000	-
<i>GSA Today</i> – August 2006 – Boulder, Colorado	20,000	3-17
<i>Ithaca Journal</i> – October 5, 2006 – Ithaca, New York	16,690	3-18
<i>Kentucky Geology</i> – Summer 2006 – Lexington, Kentucky	1,700	3-19
<i>Logan Daily News</i> – October 6, 2006 – Logan, Ohio	4,224	3-20
<i>Louisville Herald</i> – September 21, 2006 – Louisville, Ohio	3,100	3-21
<i>Martinsville Bulletin</i> – October 4, 2006 – Martinsville, Virginia	17,438	3-22
<i>NSTA Reports</i> - September 2006 – Arlington, Virginia	53,000	3-23
<i>Point and Shoreland Journal</i> – September 26, 2006 – Toledo, Ohio	8,700	3-24
<i>Review</i> - September 28, 2006 – Alliance, Ohio	12,527	3-25
<i>Ripley Bee</i> – September 21, 2006 – Ripley, Ohio	2,100	3-26

<i>Rocks and Minerals</i> – October 2006 – Washington D.C.	4,700	3-26
<i>Rutland Herald</i> – October 12, 2006 – Rutland, Vermont	23,000	3-27
<i>Rutland Tribune</i> - October 4, 2006 – Rutland, Vermont	15,000	3-28
<i>Sun Times</i> – October 3, 2006 – Jefferson City, Missouri	54,000	3-29
<i>Science Scope</i> – September 2006 – Arlington, Virginia	16,000	3-30
<i>The Science Teacher</i> – October 1, 2006 – Arlington, Virginia	28,000	3-31
<i>Tribune Chronicle</i> – October 8, 2006 – Warren, Ohio	38,764	3-34
<i>U-Wire</i> – October 16, 2006 – Carlsbad, California	828	3-35
<i>Versailles Policy</i> – September 27, 2006 – Versailles, Ohio	2,200	3-36
<i>Wilmington News Journal</i> – September 25, 2006 – Wilmington, Ohio	7,400	3-37

## Earth Science Week Seeks 'Citizen' Scientists

This issue of the EXPLORER carries a poster for Earth Science Week, promoting a series of events Oct. 8-14 engaging students and the public in an effort to spread earth science literacy.

With a theme of "Be A Citizen Scientist," Earth Science Week 2006 marks the ninth year AGI has sponsored this international event. Each year, local groups, educators and interested individuals organize activities to discover the Earth sciences and promote responsible stewardship of the Earth.

The AAPG Foundation provides funding support for materials and promotion of the celebration.

"Citizen science affords everyone an opportunity to investigate earth science questions," said Ann E. Benbow, AGI's director of education and outreach.

AAPG local societies also are involved, and past ESWs have been a platform for societies to hold public outreach activities. It is hoped the posters will find their way to a public location where teachers, students and others will know of the activities available.

Earth Science Week Toolkits also will be released in August, which include:

- ✓ A 12-month school-year activity calendar, suitable for hanging.
- ✓ The new Earth Science Week poster, including an activity.
- ✓ Up-to-date fact sheets and other materials from the U.S. Geological Survey.
- ✓ A park-views DVD from the National Park Service.
- ✓ A detailed climate change booklet from NOAA.
- ✓ An earth science education brochure and more from NASA.

✓ Posters from Scholastic, IRIS and EarthScope.

✓ A GeoCaching pamphlet from Geological Society of America.

✓ An Earth-science CD from ESRI.

✓ Materials for classroom and home.

In addition, copies of the careers-oriented 2005 Toolkit ("Geoscientists Explore the Earth") and the natural hazards-focused 2004 Toolkit ("Living on a Restless Earth") are available for order.

Orders outside of the United States will incur additional shipping charges. For special shipping, bulk orders and more information, visit [www.earthsciweek.org/materials/index.html](http://www.earthsciweek.org/materials/index.html).

Also, there are three national contests as part of Earth Science Week 2006. The photography, visual arts and essay contests offer opportunities for both students and the general public to participate in the celebration, learn about earth sciences and compete for prizes:

✓ The **photography contest**, open to all ages, focuses on "Using and Studying Earth's Resources."

✓ The **visual arts contest** is titled "Earth Science in Your Home Town." Students in grades K-5 are encouraged to draw, paint or create a poster on any aspect of earth science that affects their local community.

✓ Students in grades 5-9 are eligible to enter the **essay contest**: "Be a Citizen Scientist!" Essays must be no longer than 500 words and should highlight the ways every person can contribute to a better understanding of our planet.

The first place prize for each contest is \$300. To learn more about these contests, including how to enter, visit [www.earthsciweek.org/contests](http://www.earthsciweek.org/contests). □

# Earth Science Week Materials Available

5446  
Planning continues for promotion of activities related to this year's Earth Science Week, designed to celebrate science by spreading earth science literacy.

With a theme of "Be A Citizen Scientist," Earth Science Week 2006 will be observed Oct. 8-14 – the international event's ninth year, sponsored by the American Geological Institute.

Each year, local groups, educators and interested individuals organize activities to discover the earth sciences and promote responsible stewardship of the earth.

The AAPG Foundation provides funding support for materials and promotion of the celebration.

An Earth Science Week poster was included in the August EXPLORER, intended for use in public locations so that teachers, students and others will know of the activities available.

AAPG local societies also are involved, and past events have been platforms for societies to hold public outreach activities.

To help in the celebration, Earth Science Week Toolkits are available, which include:

- ✓ A 12-month school-year activity calendar, suitable for hanging.
- ✓ The new Earth Science Week poster, including an activity.
- ✓ Up-to-date fact sheets and other materials from the U.S. Geological Survey.
- ✓ A park-views DVD from the National Park Service.
- ✓ A detailed climate change booklet from NOAA.
- ✓ An earth science education brochure and more from NASA.
- ✓ Posters from Scholastic, IRIS and EarthScope.
- ✓ A GeoCaching pamphlet from Geological Society of America.

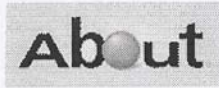
- ✓ An Earth-science CD from ESRI.
- ✓ Materials for classroom and home use.

In addition, copies of the careers-oriented 2005 Toolkit ("Geoscientists Explore the Earth") and the natural hazards-focused 2004 Toolkit ("Living on a Restless Earth") are available for order.

Orders outside of the United States will incur additional shipping charges. For special shipping, bulk orders and more information, visit [www.earthsciweek.org/materials/index.html](http://www.earthsciweek.org/materials/index.html). □



**About.com**  
August 2006



## Geology

### **Earth Science Week**

From [Andrew Alden](#),  
Your Guide to [Geology](#).

**FREE** Newsletter. [Sign Up Now!](#)

As always, Earth Science Week is coming in the fall, from October 8 to 14. This year's theme is "Be a Citizen Scientist."

[Earth Science Week Toolkits](#) are available now from sponsor AGI, for help in planning teachable moments. Another activity to consider is starting or visiting [EarthCaches](#). These are virtual geocaches with a geological theme. If [Earth Day doesn't do it for you](#) any more, try Earth Science Week.

Friday August 18, 2006 | [comments \(0\)](#)

[Email to a Friend](#) | [add to del.icio.us](#)

[< Tungurahua Erupts](#)

|

[Main](#)

|

[Geology of Washington DC >](#)

***Ann Arbor News***  
Ann Arbor, Michigan  
October, 2006

**Earth Science Week planned**  
Earth Science Week runs Oct. 8-14 and emphasizes the importance of the earth sciences in relation to everyone's health, safety, and economics. The Department of Environmental Quality's Office of Geological Survey offers a list of state geologists who can offer presentations to schools, community groups and other organizations on science topics. Find out more information at [www.deq.state.mi.us/eforms/speakerrequest.html](http://www.deq.state.mi.us/eforms/speakerrequest.html) or call 517-241-1515.

***Arrive***  
Phoenix, Arizona  
October 2006

**MARYLAND**  
5446  
**PATUXENT WILDLIFE FESTIVAL:**  
Celebrate National Wildlife Refuge Week and Earth Science Week in Laurel. Enjoy animals, children's crafts and behind-the-scenes research tours of the Patuxent Wildlife Research Center, from 10 a.m. to 3 p.m. on Oct. 14. For more information on this free event, visit [patuxent.fws.gov](http://patuxent.fws.gov)

***Black Issues in Higher Education***

Fairfax, Virginia

October 5, 2006

The **UNIVERSITY OF TEXAS AT EL PASO** has received a **\$81,500** grant from Shell Oil Co. to fund several grants focused on increasing the numbers of female and minority students in the science, technology, engineering and math fields. Among the programs which will benefit from the grant are Earth Science Week, Engineering Camp and Women in Science and Engineering.

**>> SEND GRANTS SUBMISSIONS TO:**

*Diverse: Issues In Higher Education*

Attn: Grants & Awards

10520 Warwick Ave., Suite B-8

Fairfax, Va., 22030

Fax: (703) 385-1839

E-mail: [editor@cmapublishing.com](mailto:editor@cmapublishing.com)

**Brown University News Service**  
Providence, Rhode Island  
October 13, 2006

**Coral reef lecture at Kent State U. raises concerns**  
**10/13/2006**

**Brown University News Service**  
**Roupe, Katie**

KENT, Ohio, Oct 12, 2006 (Daily Kent Stater, U-WIRE via COMTEX) --The declining coral reefs and global warming could drastically change our world, Pamela Hallock Muller said during a speech yesterday.

This will not be an uplifting lecture, Muller said.

The lecture, sponsored by the Association for Women Geoscientists, was part of Earth Science Week. Other events for Earth Science Week include the grand opening of the Kent State University Geology Museum on Friday.

Muller, a professor at the University of South Florida college of Marine Science, is an expert on the ecology and organisms of the coral reefs. In addition to an early morning discussion on Professionalism and Career Success in the Geosciences, Muller spoke to faculty, staff and students about the environment's impact on reefs.

Muller discussed the impact of increasing carbon dioxide levels on coral reefs and what that could mean for the environment. The increasing carbon dioxide produces a higher temperature, which in turn creates a bleaching effect on the corals, she said.

The bleaching doesn't kill corals, it weakens them, making them more susceptible to disease and knocks off a few years of reproduction, she said.

Because the corals can't reproduce, she said there is a smaller population of corals, especially shallow coral reefs. In addition to higher carbon dioxide levels, the pH count is increasing.

Muller said in a matter of 30 years, the pH level has increased by .15.

The implications of a .15 pH change are profound, Muller said. This could create problems for the fisheries and may create some medical changes. If you are continually breathing in 50 percent more carbon dioxide, it could make a difference.

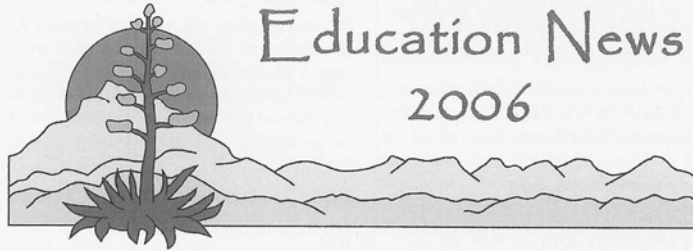


## Chihuahuan Desert Research Institute: Education News

Fort Davis, Texas

2006

# Chihuahuan Desert Research Institute Education News 2006



### March

#### Annual Cactus & Succulent Festival

Saturday, March 11–Saturday, March 18

Chihuahuan Desert Nature Center & Botanical Gardens

This year's festival features programs on propagation, candelilla wax processing, and edible cacti, on-demand PowerPoint exhibits about our cacti collection and the making of tequila from blue agave, desert goodies to eat, and plenty of cacti from the Chihuahuan Desert region for sale.

• **Chihuahuan Desert Cacti & Succulent Sale**  
The sale begins Saturday, March 11, at 9:00 AM. We're stocking up, so you'll have plenty to choose from all week long.

#### • Candelilla Wax Processing

Saturday, March 11, 10:00 AM

Wednesday, March 15, 2:00 PM

Chihuahuan Desert Nature Center & Botanical Gardens, Pavilion

Marc Goff will guide us through the process used to turn candelilla into marketable wax, sharing a little history, a few anecdotes, and a demonstration of how it is done.

#### • Cacti Propagation & Care

Tuesday, March 14, 2:00 PM

Thursday, March 16, 2:00 PM

Chihuahuan Desert Nature Center & Botanical Gardens, Greenhouse

Propagation of cacti can be tricky, as can keeping them healthy and pest-free. Cactus curator Marc Goff will discuss germination, soil, feeding, transplanting, and control of insect pests.

#### • De Gustibus non est Disputandum/Edible Cacti of West Texas: Modern Practices & Archeological Findings

Saturday, March 18, 10:00 AM & 11:00 AM

Chihuahuan Desert Nature Center & Botanical Gardens, Pavilion

This hands-on experience will leave your taste buds tingling as Dr. Martin Terry, of Sul Ross State University, shares his knowledge of succulents and their varying degrees of edibility, past and present. This program will be offered twice, but is limited to small groups, so arrive early to grab your seat.

#### BioBlitz: Exotic & Invasive Species

Monday, March 20–Saturday, March 25

The focus for this BioBlitz will be exotic species. Come learn about non-native plants and animals that now call the Chihuahuan Desert region home. In addition to the following lectures and outdoor programs, we will continue to survey the flora and fauna of our landsite.

#### • Man vs. Feral Hog: Perspective from the Trans-Pecos

Tuesday, March 21, 7:00 PM

Sul Ross State University, Lawrence Hall, Room 309

Dr. Louis Harveson, of SRSU, will give an evening lecture discussing the life history and management of feral hogs in west Texas, including the results of a research project in the Davis Mountains.

March	Cactus & Succulent Festival BioBlitz: Exotic & Invasive Species
April	Earth Day Volunteer Day Marc's Gardening Workshop 21st Annual Native Plant Sale
May	Indio Mountains Research Station BorderBlitz: Traditional Crafts of Ojinaga, Mexico
June	BioBlitz: Birds & Bees
July	Papermaking with Natural Materials
August	What's the Buzz? 10th Annual Davis Mountains Hum- mingbird & Nature Festival
September	BioBlitz Members' Appreciation BBQ
October	Earth Science Week
November	BioBlitz Thanksgiving Open House
December	Davis Mountains & Balmorhea Christmas Bird Counts

October

## A Celebration of Earth Science Week

Sunday, October 8–Saturday, October 14

- Geology of the Davis Mountains

Monday, October 9, 7:00 PM

Sul Ross State University, Room TBA

The Rockpile, Sleeping Lion, Mount Livermore...all are familiar places, but how much do you really know about them? In this lecture Bill MacLeod, author of *Davis Mountains Vistas: A Geological Exploration of the Davis Mountains*, will explain the natural forces that created the distinctive mountain terrain around Fort Davis.

- Tour the Chihuahuan Desert Mining

Heritage Exhibit

Tuesday, October 10, 5:00 PM

Chihuahuan Desert Nature Center & Botanical Gardens

The Chihuahuan Desert region has an abundance of minerals—many of which have been mined and processed for nearly 10,000 years. To learn more about this extraordinary heritage, join mining geologist Joe Mussey for a guided tour of the Chihuahuan Desert Mining Heritage Exhibit. You'll learn about the minerals that were mined, what it was like to be a miner in the 19<sup>th</sup> century, and what career opportunities there are in mining today.

## ***Corpus Christi Caller-Times***

Corpus Christi, Texas

October 14, 2006

### **Geologist: Show students other lands**

**Kaffie is first school out of 200 to receive map from local group**

**By Rachel Denny Clow Caller-Times  
October 14, 2006**

As geologist Owen Hopkins walks through some of the bare halls of Kaffie Middle School, he envisions those white walls turned vibrant by geological maps that could inform students as they pass by them every day.

The dream began to take shape Friday for Hopkins, president of the Corpus Christi Geological Society, as he delivered such a map to the school.

Students gathered round an atrium and learned how to read a geological time and terrain map. They discovered that over time land is continuing to change. That is just one concept Hopkins and fellow members of the society hope the maps will teach students.

"We need more scientists and geologists," Hopkins said. "I didn't even hear the word geology until I was a sophomore in college. We need to plant the seeds at younger ages."

Kaffie was the first middle school in the Corpus Christi Independent School District to receive a map, which arrived just in time for the conclusion of Earth Science Week. Eventually, the geological society plans to give one map to every school in the Coastal Bend with fifth- and sixth-grade students, about 200 schools.

At a cost of \$150 per map per school, the total cost could be about \$30,000.

At a recent meeting of geologists, Hopkins spoke about the importance of the maps and raised about \$8,000 in donations. Some of the costs will be offset by the Don Boyd Continuing Education Fund, which honors the memory of a local geologist.

In addition to the framed maps, teachers get an unframed map and a teaching guide.

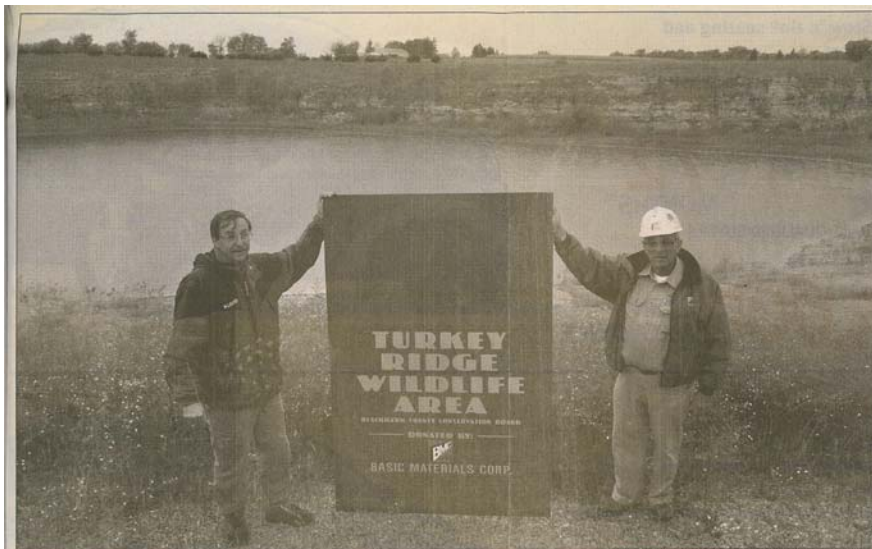
Contact Rachel Denny Clow at 886-4358 or [clowr@ caller.com](mailto:clowr@caller.com)

Copyright 2006, Caller.com. All Rights Reserved.



Rachel Denny  
Clow/Caller-Times

Owen Hopkins, president of the Corpus Christi Geological Society, talks with Kaffie Middle School students about the new donated geological map.



Photos by BRANDON POLLOCK / Courier Photo Editor

Vern Fish, at left and shown with BMC geologist Sherman Lundy, is excited to add a lot of natural features and plant life to the newly acquired quarry, which will be named Turkey Ridge Wildlife Area.

## Donated quarry to open for public use

By PAT KINNEY  
 Courier Business Editor

**FINCHFORD** — A 90-acre, 70-year-old former quarry is about to become Black Hawk County's newest public nature preserve.

The former Yokum Quarry, most recently operated by Basic Materials Corp. for more than 20 years and reclaimed as a natural area, has been turned over by that company to the Black Hawk County Conservation Board and will be open to the public Sunday.

A dedication celebration is planned from 10 a.m. to 3 p.m. that day at the quarry, located just north of the T-intersection of North Union and Winslow roads in rural Finchford, north of Cedar Falls. A dedication ceremony is scheduled for 1 p.m.

Basic Materials, now known as BMC Aggregates, the County Conservation Board, the Iowa Department of Natural Resources, the University of Northern Iowa geology department and various other entities will host a variety of activities in conjunction with Earth Science Week, including geology field trips, a fishing derby in the quarry lake with poles provided, fossil searches and various natural displays on the reclamation effort.

The preserve, to be called Turkey Ridge Wildlife Area, which includes a lake surrounded by scenic rock bluffs, is adjacent to the west fork of the Cedar River and sits between the county's Washington-Union Access



An effort is being made to secure a federal grant to create a water trail from Thunderwoman to McFarland Park (near La Porte City). The quarry would enhance that paddling trail, Vern Fish says.

wildlife habitat," Fish said. "This will be a wildlife management area. We're not going to have a campground. It will be a walk-in wildlife area. You'll be able to hunt; you'll be able to hike."

BMC and Conservation Board officials said a number of proposals had been suggested for the area — including residential development — but the two entities thought a restored preserve

### Celebration

A dedication celebration is planned from 10 a.m. to 3 p.m. Sunday at the quarry, located just north of the "T"-intersection of North Union and Winslow roads in Finchford, north of Cedar Falls.



COURIER Graphic/CHERIE NELSON

Falls and Waterloo dams. "This (acquisition) helps cement that greenbelt. Instead of having a quarry with loud noises and heavy equipment and blasting, now you have another wildlife area adjacent to that stream. So it enhances that wildlife corridor and that paddling trail."

The county now has almost a continuous greenbelt from Thunderwoman to the quarry. "From a wildlife standpoint, it's important, and from a recreational standpoint, it's important," Fish said.

"Basic Materials has gone way out of the way. They've done everything we asked. They've worked very closely with this, and we really appreciate it. This is a major donation," Fish said, similar to those made for the expansion of Hartman Reserve Nature Center in the early 1990s.

"We need to take some photos of this," for comparison in future years, Fish said. "In 10 or 15 years,



The preserve, to be called Turkey Ridge Wildlife Area, which includes a lake surrounded by scenic rock bluffs, is adjacent to the west fork of the Cedar River and sits between the county's Washington-Union Access and Thunderwoman Park.

BMC manager Chris Dinsdale and Conservation Board executive director Vern Fish said the two entities will continue to add natural features to the area over the next several years, including adding soil and seeding the area to create additional natural habitat. Secondary roads crews with the County Engineer's Office also are assisting with the effort.

"That partnership between secondary roads and Basic Materials has come together very nicely for us," Fish said.

"We've got water down below; we're going to plant a small prairie and plant some more trees. And eventually we'll close this in and create some sort of

wildlife habitat," Fish said. "This will be a wildlife management area. We're not going to have a campground. It will be a walk-in wildlife area. You'll be able to hunt; you'll be able to hike."

"You have basically 5 to 6 acres of water, on average 30 foot deep, all year round," Dinsdale said of the quarry lake. The exact fish population is not known, but panfish and bass are believed to be present. The company also created the fish habitat in the quarry lake.

"You have the west fork of the Cedar River that's a boundary line to the north; you have all this timber ground; you're going to have prairie grass. And working with Black Hawk County, it's just a neat partnership all the way around," Dinsdale said.

"Even when we were still operating out here, you'd see turkey, deer, everything would just come strolling across," he said.

BMC and Conservation Board officials said a number of proposals had been suggested for the area — including residential development — but the two entities thought a restored preserve was its best use.

"You had a lot of interested parties out here — from hunting clubs to development," BMC geologist Sherman Lundy said. But the BMC board decided earlier this year to turn it over to the county for a park. "Chris, our manager, is oriented in that direction," he said.

The area also provides an additional buffer for the Cedar's west fork. "The west fork is an absolutely gorgeous canoe route," Fish said. "One of the things we're working on right now is a federal grant to create a water trail from Thunderwoman all the way down to McFarland Park (near La Porte City), through Waterloo," with portages around the Cedar

major donation," Fish said, similar to those made for the expansion of Hartman Reserve Nature Center in the early 1990s.

"We need to take some photos of this," for comparison in future years, Fish said. "In 10 or 15 years, I hope to see trees and prairie grass. We know we've got some wildlife out here, but I think we can really create a major habitat out here for a variety of things with the water and the prairie and the forest and the green-belt."

More information about the dedication celebration may be obtained by calling Basic Materials at (319) 235-6583. The Conservation Board also is seeking volunteers to assist with tree and other vegetation plantings and other aspects of the reclamation effort and can be contacted at 266-0328.

Contact Pat Kinney at (319) 291-1484 or [pat.kinney@wctcourier.com](mailto:pat.kinney@wctcourier.com).

## CELEBRATE EARTH SCIENCE WEEK 2006

### BE A CITIZEN SCIENTIST

Ann E Benbow<sup>1</sup> and Geoff Camphire<sup>2</sup>

American Geological Institute, 4220 King St., Alexandria, VA 22302-1502, <sup>1</sup>aeb@agiweb.org;

<sup>2</sup>gac@agiweb.org

Most of your students may never become professional Earth scientists, but they can play a life-long role as "citizen scientists" that is just as important. Help prepare your students for this vital role by taking part in Earth Science Week, October 8-14, 2006. Guided by this year's theme — Be a Citizen Scientist! — Earth Science Week activities will engage students in real research and help spread science literacy among ordinary citizens.

The American Geological Institute (AGI) organizes the annual event to encourage better understanding of the Earth sciences and stewardship of the planet. During Earth Science Week, millions of citizen scientists worldwide will be sampling groundwater, monitoring weather, touring quarries, exploring caves, preparing competition projects, visiting museums and science centers, and learning about Earth science.

Visit the Earth Science Week website — [www.earthsciweek.org](http://www.earthsciweek.org) — to learn about how you can take part, related events sponsored by organizations in your community, the monthly Earth Science Week Update electronic newsletter, and how you can get an Earth Science Week Toolkit. And check out the Earth Science Week poster, featuring a classroom activity on the back, enclosed with this issue of *The Earth Scientist*.

#### What's Available?

Teachers can prepare for Earth Science Week by taking advantage of the many free resources offered in the Earth Science Week Toolkit. These activities and resources, available online at [www.earthsciweek.org](http://www.earthsciweek.org), have been designed to engage students and spark activity.

For example, the Earth Science Activity Calendar for the 2006-07 school year, features an engaging activity each month. In addition, the calendar provides a wealth of information about upcoming geoscience events, historical dates relating to Earth science, ways to participate in Earth Science Week, and links to internet resources. Teachers can hang the calendar in the classroom, where their students can use it throughout the current school year.

The Toolkit, free with a small fee for shipping and handling, also features many more materials — a DVD exploring U.S. National Parks, a CD, colorful posters, a Why Earth Science? brochure, geoscience maps, lithographs, fact sheets, and activity sheets — designed by AGI and 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, Geological Society of America, Scholastic, S'Cool, and EarthScope. In addition, copies of the careers-oriented 2005 Toolkit ("Geoscientists Explore the Earth") and the natural hazards-focused 2004 Toolkit ("Living on a Restless Earth") are available.

Besides kit-ordering information, the event ESW website offers additional resources for teachers. Dozens of lab activities describe lessons aligned with the National Science Education Standards. Recommendations detail how you can invite a local Earth scientist to your classroom, collaborate with a nearby geoscience company or organization for an excursion, and generate news media attention.

Students also are invited to participate in Earth Science Week contests in writing, art and photography. Essays should explore how each person can be a citizen scientist, how can people can contribute to the Earth sciences, and why is citizen science important. Photographs should illustrate the theme "Studying and Using Earth Resources" by showing students learning about

Earth science or people using natural resources for energy, housing, apparel, or other uses. Visual arts submissions should illustrate "Earth Science in Your Home Town." Entries received or postmarked by September 30 will be eligible for a grand prize of \$300 and a one-year subscription to *Geotimes*, AGI's monthly newsmagazine for the Earth sciences.

### **EarthCaching Nationwide**

Thousands of people nationwide are expected to go online, look up predetermined latitude and longitude coordinates, and use a Global Positioning System to hunt down a nearby location on October 8, the first day of Earth Science Week. Participants in these "geocaching" activities will investigate the natural world, use a GPS and other tools of science, meet other geocachers, and explore the frontiers of Earth science.

The EarthCache EventCache is being organized by the Geological Society of America, a major event partner. Geocachers across the country will visit geological outcrops, fossil and mineral collecting sites, and relevant college departments and state geological surveys. Once there, Earth scientists and other experts will provide exciting and educational talks about their site. (To set up an EarthCache or learn more about how you and your students can participate, see [www.Geocaching.com](http://www.Geocaching.com) or contact GSA at [cmclelland@geosociety.org](mailto:cmclelland@geosociety.org).)

And for those in the Washington, DC area, the first annual DC EarthCache is being organized for Sunday, October 8. Visit [www.Geocaching.com](http://www.Geocaching.com) for details on this special event, which is expected to provide Earth science educational activities and prizes, as well as attract national media coverage.

### **Students as Citizen Scientists**

Why celebrate Earth Science Week? Despite all the technology in their lives, your students may not grasp the importance of science. They may not see how Earth science can inform their opinions and decisions about issues ranging from fuel use to preparing for natural hazards. Some students may be intimidated by the very idea of "hard" science.

As citizens of the Earth, though, they have a stake in the current functioning and future prospects of the planet's natural systems. Earth Science Week offers opportunities for them to expand their knowledge and skills by conducting scientific investigations, making observations, analyzing data, testing predictions, drawing conclusions, and contributing to the scientific process.

Bring Earth science within reach. You and your students can dig up rocks in your neighborhood, crack them open with a rock hammer, and examine their insides with a magnifying glass. Record your observations of cloud patterns. Gather fossil evidence of past life. Take field trips to museums, science centers, parks, university geoscience departments, and weather stations. Volunteer time to collect data on water and air quality, biodiversity, climate change, and other phenomena for environmental monitoring efforts. Conduct learning activities featured in the Earth Science Week kit and website.

Last year, Arizona's Petrified Forest National Park held a special event during Earth Science Week, offering special tours and displays, a geological scavenger hunt with prizes, and hands-on exhibits. Ohio's St. Paris Public Library celebrated along with the nearby Graham High School Science Department by inviting students in first through third grade to participate in exciting Earth science experiments and hear a paleontologist from Wright State University speak about unearthing dinosaur bones. Read about these events and many others that went on during past Earth Science Weeks in "Highlights" at [www.earthsciweek.org](http://www.earthsciweek.org). Or check out resources to help "Plan an Event" online.

Our planet is a sprawling laboratory filled with opportunities to observe natural processes in action. It's also an ideal classroom for teaching about geoscience. Rediscover the planet during Earth Science Week 2006: Be a Citizen Scientist!

### **Helpful Links**

Earth Science Week—[www.earthsciweek.org](http://www.earthsciweek.org)

Earth Science Week Newsletter—[www.earthsciweek.org/newsletter/](http://www.earthsciweek.org/newsletter/)

Network with Local Earth Scientists—[www.earthsciweek.org/esnetwork/index.html](http://www.earthsciweek.org/esnetwork/index.html)

# Celebrate Earth Science Week!

October 8-14, 2006

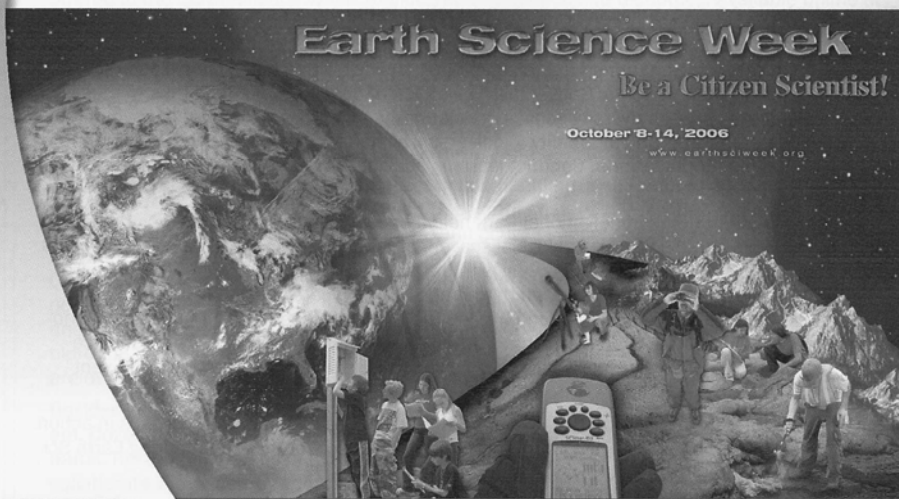
## Be a Citizen Scientist!

Join the millions of people worldwide celebrating "citizen science" in the earth sciences. Each year, local groups, educators, and interested individuals organize Earth Science Week activities to discover the geosciences and promote responsible stewardship of the Earth. This year's activities will engage students and the public in conducting real research and helping to spread science literacy.

Share your knowledge, enthusiasm, and curiosity about studying our dynamic Earth with other citizen scientists by getting involved in Earth Science Week!

### You can:

- Order an Earth Science Week Toolkit 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 work as an earth scientist.
- Attend an Earth Science Week event near you—visit [www.earthsciweek.org](http://www.earthsciweek.org) to find out what is going on!



Hurry — order your Earth Science Week kit now!  
For more information, visit: [www.earthsciweek.org](http://www.earthsciweek.org)



***Farm and Dairy***  
Salem, Ohio  
September 28, 2006

## *Spend an evening at the Museum of Natural History*

CLEVELAND — There will be an earth science evening Oct. 13, from 5:30 to 9:30 p.m. at the Cleveland Museum of Natural History.

The event features special exhibits by geologists and other experts in the fields of earth science and paleontology. Visitors are encouraged to bring rocks, minerals and fossils for identification.

The event is sponsored by the Cleveland Geological Society in celebration of National Earth Science Week.

Then attend Seth Stein's explorer series lecture, "Giant Earthquakes: Why, Where, When and What We Can Do," being held the same evening at 7:30 p.m.

**Cost.** Fees (includes explorer series lecture ticket) are: general public — adults, \$9 and students and seniors, \$8; and museum members — adults, \$7 and students and seniors, \$6.



**Details.** For reservations, call 216-231-1177 or 800-317-9155, ext. 3279, or purchase tickets at the door if they are not sold out.

The museum is at 1 Wade Oval Drive in University Circle, 15 minutes east of downtown Cleveland.

Paid parking is available in the museum's lot, in front of the museum and in nearby lots in University Circle.

# EARTHCACHING

## Earth Science Week 2006 GSA EarthCache EventCache



THE  
GEOLOGICAL  
SOCIETY  
OF AMERICA

***Help GSA celebrate Earth Science Week by  
hosting a special EarthCache EventCache!***

Earth Science Week is 8–14 October 2006. GSA is looking for volunteers to staff select EarthCache EventCache locations on Sunday, 8 October 2006, in order to explain the location's significance to earth science.

If you have a favorite geologic site you want to share, please consider hosting an EarthCache EventCache! For more information, contact Chris McLelland, educator@geosociety.org, +1-303-357-1082.

EarthCaches are special geocaching sites that can be located using a global positioning satellite device. EarthCachers can obtain site coordinates and educational material from the EarthCache Web page,  
**[www.earthcache.org](http://www.earthcache.org).**

***Ithaca Journal***  
Ithaca, New York  
October 5, 2006

## **Cornell University and PRI celebrate Earth Science Week 2006**

Ithaca, NY - The department of Earth and Atmospheric Sciences (EAS) at Cornell University with the support of the Paleontological Research Institution (PRI) and its Museum of the Earth celebrate Earth Science Week, a national and international event to help the public gain a better understanding and appreciation for the Earth Sciences and to encourage stewardship of the Earth.

This year's Earth Science Week, held from Oct. 8-14, will celebrate the theme "Be A Citizen Scientist!" and is sponsored by Chemung Canal Trust Company.

Both EAS and PRI have planned a week of events open to all in the community that includes everything from Teacher Resource Day, Museum tours and fossil giveaways to a campus Earth fair and geophysics demonstrations on the Arts Quad, topped off with a weather balloon launch at Bradfield Hall. Shuttles between Cornell's Snee Hall and the Museum of the Earth will be offered to help students access events at the Museum, located on Ithaca's West Hill.

To kick-off the week, PRI will hold their annual Teacher Resource Day at the Museum of the Earth on Saturday, Oct. 7.. Teacher Resource Day draws Earth science teachers from throughout the area and beyond, giving them the opportunity to explore and take home the invaluable resources that PRI offers and learn how to implement them in their classrooms.

"The objective of the day is to promote science education by providing hands-on resources for science teachers by introducing them to the Museum programs and exhibits by which we hope we can serve their classes," said Rob Ross, Director of Education for PRI.

For more information on Earth Science Week and a detailed schedule of events at both the Museum and Cornell University, please go to [www.museumoftheearth.org](http://www.museumoftheearth.org) and/or [www.eas.cornell.edu](http://www.eas.cornell.edu). Teachers can register for Teacher Resource Day by calling 607.273.6623 ext.22 or [sands@museumoftheearth.org](mailto:sands@museumoftheearth.org)

## **Earth Science Week is October 8–14**

**T**he American Geological Institute has announced the theme for its ninth Earth Science Week: “Be a Citizen Scientist!” Earth Science Week 2006, October 8–14, will engage students and the public in conducting real “citizen science” research and help to spread science literacy.

Events are being planned by KGS during the week. Information will be available on the KGS Web site ([www.uky.edu/kgs](http://www.uky.edu/kgs)). For more information on AGI-sponsored activities, visit [www.earthsciweek.org](http://www.earthsciweek.org). ❖



## Earth Science Week set for Oct. 8-14

5446  
COLUMBUS — In order to promote an understanding and appreciation of the earth sciences, Gov. Bob Taft has proclaimed Oct. 8 through 14 as Earth Science Week in Ohio in conjunction with the ninth national Earth Science Week observance.

"Earth Science Week is a great reminder about the significance of the earth's resources to our society and quality of life," Taft said. "This year's celebration is 'Be a Citizen Scientist,' and I

encourage Ohioans of all ages to focus on everyday activities that promote an understanding and respect for nature."

A "Be a Citizen Scientist" toolkit for grades K to 12 is available through the American Geological Institute and can be ordered on the Internet from the Earth Science Week Web site for \$4.95. The tool kit contains information about the Smithsonian Institution's "Earth from Space" Web

site that will be launched as part of the Earth Science Week 2006 observance; an activity-rich poster; an earth science calendar filled with geoscientific data; fact sheets on citizen science programs of the U.S. Geological Survey; a DVD titled "Views of the National Parks;" and more.

The week's activities in central Ohio will kick off with the annual Earth Science Expo, scheduled for 1 to 4 p.m. on Sunday, Oct. 8

at Highbanks Metro Park, 9466 Columbus Pike. Local, state and federal agencies and organizations plan to be represented.

Earth Science Week is held annually during the second week of October. The American Geological Institute, founded in 1948, coordinates the event with support from the U.S. Geological Survey and the National Park Service. For further information, please visit [www.earthsciweek.org](http://www.earthsciweek.org).

# Earth Science Week In Ohio is Oct. 8-14

*"Be a Citizen Scientist"*

COLUMBUS, OH <sup>5446</sup> - In order to promote an understanding and appreciation of the earth sciences, Governor Bob Taft has proclaimed October 8-14 as Earth Science Week in Ohio in conjunction with the ninth national Earth Science Week observance.

"Earth Science Week is a great reminder about the significance of the earth's resources to our society and quality of life," Taft said. "This year's celebration is 'Be a Citizen Scientist' and I encourage Ohioans of all ages to focus on everyday activities that promote an understanding and respect for nature."

The week's activities in central Ohio will kick off with the annual Earth Science Expo, scheduled for 1 p.m. to 4 p.m. on Sunday, October 8, at Highbanks Metro Park, 9466 Columbus Pike (U.S. 23, opposite Resurrection Cemetery). Local, state and federal agencies and organizations will be represented.

A "Be a Citizen Scientist" tool kit for grades K-12 is available through the American Geological Institute and can be ordered on the Internet from the Earth Science Week web site for \$4.95. The tool kit contains information about the Smithsonian Institution's "Earth from Space" web site that will be launched as part of the Earth Science Week 2006 observance; an activity-rich poster; an Earth Science Calendar filled with important geoscientific data; fact sheets on citizen science programs of the U.S. Geological Survey; a DVD entitled "Views of the National parks;" and more.

Earth Science Week is held annually during the second week of October. The American Geological Institute, founded in 1948, coordinates the event with support from the U.S. Geological Survey, the AAPG Foundation and the National Park Service. For more information visit [www.earthsiweek.org](http://www.earthsiweek.org).

## Schools sponsor week of science

Journey Through the Universe Science, sponsored by Martinsville Middle School, Henry County Schools and Carlisle School, will be held next week, beginning with a community event at Martinsville Speedway this Saturday.

Journey Through the Universe is a program started locally three years ago by the Challenger Center. During the week, students of various grade levels in Martinsville and Henry County are immersed in science through classroom visits by scientists from NASA and the Challenger Center. There also is a family science night during which students and families come together to hear a speaker.

Held in conjunction with

Earth Science Week, this year's program will begin with a community event from 2-5 p.m. Saturday at Martinsville Speedway. Dr. Rae Carpenter will present an interactive Physics Demonstration for all ages. Displays about NASA, Philpott Dam, and the 4-H Club will be among those on exhibit, as well as student science projects and Lego Robotics.

In addition to the displays, there will be free food donated by area restaurants such as Taco Bell, Pigs-R-Us, Subway and Chik-fil-A.

Next week, representatives of various organizations including the Virginia Museum of Natural History, NASA, Virginia Tech and Patrick Henry Community College will visit classrooms. 5446

## Coming Next Month: Earth Science Week

<sup>5446</sup>  
This year's Earth Science Week celebration, taking place October 8-14, invites teachers and students to "Be a Citizen Scientist!" This theme encourages classes to conduct real "citizen science" research and promote the spread of science literacy.

Organized annually by the American Geological Institute (AGI), Earth Science Week is a national and international event to help the public understand and appreciate the Earth sciences and the work of geoscientists and to

encourage stewardship of the Earth.

AGI is distributing Earth Science Week education kits to support individuals and groups interested in holding their own Earth Science Week activities and programs. The kits contain citizen-science materials for classroom and home use, including posters, pamphlets, fact sheets, a climate change booklet, and Earth science education materials from NASA. Learn more at [www.earthsciweek.org](http://www.earthsciweek.org).

AGI is coordinating national contests

related to "Citizen Science" (deadline for all entries is **October 5**).

- The visual arts contest encourages K-5 students to create a drawing, collage, or other two-dimensional piece of artwork that reflects the topic "Earth Science in Your Home Town." The winning artist will receive \$300 in cash.
  - The essay contest invites students in grades 5-9 to write about being a citizen scientist. The winner will receive \$300 in cash.
  - Open to all ages, the photography contest asks the public to photograph images for the theme "Using and Studying Earth's Resources." Contestants should submit photos of students learning about Earth science or people using natural resources for energy, housing, apparel, or other purposes. The winner will receive \$300 in cash.
- AGI is also supporting public events, awareness efforts, discussion forums, and much more. See also [www.earthsciweek.org](http://www.earthsciweek.org).



[scienceworld.org](http://scienceworld.org), which offers information on geoscience careers, games, an interactive geological time scale, and a selection of Earth science images. ●

## October 8-14 proclaimed Earth Science Week in Ohio

<sup>5-446</sup>  
In order to promote an understanding and appreciation of the earth sciences, Governor Bob Taft has proclaimed October 8 to 14 as Earth Science Week in Ohio in conjunction with the ninth national Earth Science Week observance.

"Earth Science Week is a great reminder about the significance of the earth's resources to our society and quality of life," Governor Taft said. "This year's celebration is 'Be a Citizen Scientist,' and I encourage Ohioans of all ages to focus on everyday activities that promote an understanding and respect for nature."

The week's activities in central Ohio will kick off with the annual Earth Science Expo, scheduled for 1 to 4 p.m. on Sunday, October 8, at Highbanks Metro Park, 1466 Columbus Pike (U.S. 23, opposite Resurrection Cemetery). Local, state and federal agencies and organizations will be represented.

A "Be a Citizen Scientist"

toolkit for grades K-12 is available through the American Geological Institute and can be ordered on the Internet from the Earth Science Week Web site for \$4.95. The tool kit contains information about the Smithsonian Institution's "Earth from Space" Web site that will be launched as part of the Earth Science Week 2006 observance; an activity-rich poster; an Earth Science calendar filled with important geoscientific data; fact sheets on citizen science programs of the U.S. Geological Survey; a DVD entitled "Views of the National Parks," and more.

Earth Science Week is held annually during the second week of October. The American Geological Institute, founded in 1948, coordinates the event with support from the U.S. Geological Survey, the AAPG Foundation and the National Park Service. For more information visit [www.earthsciweek.org](http://www.earthsciweek.org)



## **Review**

Alliance, Ohio

September 28, 2006

### **Toolkit available to celebrate earth sciences**

5446

To promote an understanding and appreciation of the earth sciences, Gov. Bob Taft has proclaimed Oct. 8-14 as Earth Science Week in Ohio in conjunction with the ninth national Earth Science Week observance.

"Earth Science Week is a great reminder about the significance of the earth's resources to our society and quality of life," Taft said. "This year's celebration is 'Be a Citizen Scientist,' and I encourage Ohioans of all ages to focus on everyday activities that promote an understanding and respect for nature."

An Earth Science Expo is scheduled for Oct. 8 at Highbanks Metor Park (U.S. 23, opposite Rsurrection Cemetery) from 1 to 4 p.m. Local, state and federal agencies and organizations will be represented.

A "Be a Citizen Scientist" toolkit for grades K-12 is available through the American Geological Institute and can be ordered on the Internet at [www.earthsciweek.org](http://www.earthsciweek.org). The kit includes a calendar with geoscientific data, poster, fact sheet and DVD on national parks.

## ***Ripley Bee***

Ripley, Ohio

September 21, 2006

# **Taft announces Earth Science Week**

5446  
In order to promote an understanding and appreciation of the earth sciences, Governor Bob Taft has proclaimed Oct. 8-14 as Earth Science Week in Ohio in conjunction with the ninth national Earth Science Week observance.

"Earth Science Week is a great reminder about the significance of the earth's resources to our society and quality of life," Taft said. "This year's celebration is 'Be a Citizen Scientist' and I encourage Ohioans of all ages to focus on everyday activities that promote an understanding and respect for nature."

The week's activities in central Ohio will kick off with the annual Earth Science Expo, scheduled 1-4 p.m., Sunday, Oct. 8, at Highbanks Metro Park, located 9466 Columbus Pike (U.S. 23, opposite Resurrection Cemetery). Local, state and federal agencies and organizations will be represented.

A "Be a Citizen Scientist" tool kit for grades K-12 is available through the American Geological Institute and can be ordered on the internet from the Earth Science Week web site for \$4.95. The tool kit contains information about the Smithsonian Institute's "Earth From Space" web site that will be launched as part of the Earth Science Week 2006 observance; an activity-rich poster; an Earth Science calendar filled with important geoscientific data; fact sheets on citizen science programs of the U.S. Geological Survey; a DVD entitled "Views of the National Parks" and more.

Earth Science Week is held annually during the second week of October. The American Geological Institute, founded in 1948, coordinates the event with support from the U.S. Geological Survey, the AAPG Foundation and the National Park Service. For more information, visit [www.earthsciweek.org](http://www.earthsciweek.org).

## ***Rocks and Minerals***

Washington D.C.

October 2006

**EARTH SCIENCE WEEK:** This year marks the ninth 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 the Earth sciences and to encourage stewardship of Earth.

**Rutland Herald**

This is a printer friendly version of an article from [www.rutlandherald.com](http://www.rutlandherald.com)  
To print this article open the file menu and choose Print.

[Back](#)

---

Article published Oct 12, 2006

**Rock show at Omya quarry**

For an unforgettable family adventure, take the Omya marble company's tour of its Middlebury quarry.

In the old days, the workers went down into the pit; at the Open House, you will go down, in a school bus, to the bottom of this 85-acre, 150-foot-deep geological marvel. It's a guided tour, actually part of Earth Sciences Week, where the scientific-minded can learn a surprising amount about how marble came about, the differences between marble and dolomite, how marble ore is blended into Omya's calcium carbonate products, blasting and more.

For little kids, it will all seem twice as big, and they will be amazed at the size of the dump trucks that looked so small from above. Eventually, the pit could be 350 feet deep, and if abandoned after that, it would become a pond deeper than Lake Champlain.

It's possible to get off one bus and explore at any point, and rejoin the tour on another. That's perfect for gathering rock specimens, which Omya welcomes to the point of handing out plastic bags (bring something sturdier if you can, and if you want the pink marble, look around the north end).

Back up top there are typically educational exhibits and free refreshments. Don't let rain deter you: everything that doesn't involve riding a bus (which you don't have to get off) is under a roof.

The rock crushing operation is pretty amazing, too. The piles of crushed rock there make the largest town highway department sand piles look tiny by comparison.

The quarry Open House is from 10 a.m. to 4 p.m., with the last tour leaving at 3 p.m. Take Route 7 a mile north of its junction with Route 125 in East Middlebury, and go right on 1975 Private Road, between Foster Motors and Standard Register (look for signs). The event is free for all ages.

For more information, call 770-7267 or 770-7465.

---

# Ice caves are doorway into alien, underground world

5446  
Pittsford Ice Caves formed in rock talus millennia ago

By Lou Varricchio  
adv@vtr.com

Deep within the shady "Fern Canyon" boulder field a blast of cold air awaits the curious hiker. As the hiker scrambles up the rocky defile, located off Goat Farm Road in Pittsford, Vt., he will notice a rapid drop in the surrounding air temperature.

Like a harbinger of winter to come, the cold air lingering here is actually the exhalation of winters past—exhalations arising from deep within the narrow boulder field itself.

Within the lichen and fern-covered quartzite boulder field are the famous Pittsford Ice Caves, a network of *tectonic* caves formed by rock slides thousands of years ago.

Nature Conservancy steward and expert caver Rick Pingree, past president of the Vermont Cavers Association, guided local news writers on a unique tour of Pittsford's famous caves last week.

Pingree's goal in bringing newspapermen into the caves was to first educate writers about the uniqueness and fragility of Vermont's subterranean environment; he also wanted to tip his hard hat, so to speak, to Earth Science Week, held Oct. 8-14. The week-long, national science-education event is sponsored by the American Geological Institute.

See **CAVES**, page 8



Nature Conservancy steward Rick Pingree leads a small party of area news reporters into the Pittsford Ice Caves last week. Geology-oriented events celebrating Earth Science Week, Oct. 8-14, will be held around Vermont.



## *Sun Times*

Jefferson City, Missouri

October 3, 2006

### Governor proclaims Earth Science Week

10/03/2006

Sun Times

JEFFERSON CITY--Governor Matt Blunt has declared the week of Oct. 8-14 as Earth Science Week to bring awareness to the fact that earth sciences are fundamental to the health, safety and welfare of all Missourians. 'Encouraging youth to consider earth sciences as a career is an important part of recognizing Earth Science Week,' said Mimi Garstang, state geologist and director of the Department of Natural Resources' Division of Geology and Land Survey (DGLS). 'Earth science plays a vital role in the preparation for natural hazards such as earthquakes, floods, landslides and sinkholes which will in-turn lessen the impacts from these natural hazards. Our lives are affected daily by the important role geologists, surveyors, and all earth scientists play in the society in which we live.' Every October, states across the nation join forces with the American Geological Institute and other sponsoring agencies to bring earth sciences to the forefront. Garstang said, 'We encourage schools to highlight the earth sciences as a career choice and demonstrate the benefits earth sciences bring to the community. Engaging students and the public in conducting real 'citizen science' research and helping to spread science literacy will benefit all Missourians.' In conjunction with Earth Science Week, DGLS will participate in the Future Farmers of America Science Career Day at the Wurdack Farm, Missouri University Agricultural Experiment Station near Cook Station. High school agriculture students attending the DGLS short-course will learn about Missouri's geology and varied landscapes. Maps created by DGLS will be used to illustrate the geology of the state. Students should obtain a greater understanding of the geology of the state and how it relates to water availability, soil type, natural hazards, and how geology affects the resources available for people and industries, including agriculture.

Understanding earth science is crucial to environmental, ecological and economic issues. Herb Turner, a middle school science teacher in Waynesville, incorporates the use of the popular Missouri Environmental Geology Atlas (MEGA) CD-ROM into his classroom throughout the school year.

This innovative digital data tool was created and distributed by the DGLS in 2003. Turner said, 'Students currently are using MEGA to create maps for the city council that

will combine recreational use areas with environmental information. This tool allows us to share so much information with the community. I appreciate that the digital maps are designed for use by the general public.' The MEGA 2007 CD-ROM is expected to be released in October, it is the second edition of interactive computer maps that allow the user access to more than 30 statewide Geographic Information System (GIS) data layers, all from their computer desktop. Significant improvements and additions have been made since MEGA's debut in 2003. New data layers have been added and many of the existing data layers have been updated.

Look for announcements regarding the release of MEGA 2007 later this month.

For more information, DGLS offers fact sheets, maps, trading cards and a wide variety of publications on topics such as rocks, minerals and fossils. The division's publications desk in Rolla can be reached by calling (573) 368-2125 or 1-800-361-4827. Also visit DGLS's Web site at [http //www.dnr.mo.gov/geology](http://www.dnr.mo.gov/geology)

For news releases on the Web, visit [www.dnr.mo.gov/newsrel](http://www.dnr.mo.gov/newsrel). For a complete listing of the department's upcoming meetings, hearings and events, visit the department's online calendar at [http //www.dnr.mo.gov/calendar/search.do](http://www.dnr.mo.gov/calendar/search.do)



**D**uring Earth Science Week (October 8–14, 2006), millions of citizen scientists worldwide will be sampling groundwater, monitoring weather, touring quarries, exploring caves, preparing competition projects, and visiting museums and science centers to learn about Earth science. The American Geological Institute (AGI) organizes this annual event to encourage better understanding of the Earth sciences and stewardship of the planet. Guided by this year's theme, Be a Citizen Scientist, Earth Science Week 2006 activities will engage students in real research and help spread science literacy among ordinary citizens.

### Getting involved

Earth Science Week offers teachers many free classroom materials to engage students and spark activity. Available for order at [www.earthsciweek.org](http://www.earthsciweek.org), the Earth Science Week Toolkit contains a wealth of resources. The Earth Science Activity Calendar for the 2006–2007 school year, for example, features an engaging activity each month. In addition, the calendar provides information about upcoming geoscience events, historical dates relating to Earth science, ways to participate in Earth Science Week, and links to resources on the web. Teachers can hang the calendar in the classroom for students to use throughout the current school year.

The Toolkit, free with a small fee for shipping and handling, also features many more materials—thought-provoking CD-ROMs, colorful posters, a *Why Earth Science?* brochure, geoscience maps, lithographs, and activity sheets—designed by AGI and partners including the U.S. Geological Survey, National Aeronautics and Space Administration, National Oceanic and Atmospheric Administration, National Weather Service, National Park Service, Incorporated Research Institutions in Seismology, Geological Society of America, Scholastic, and S'Cool.

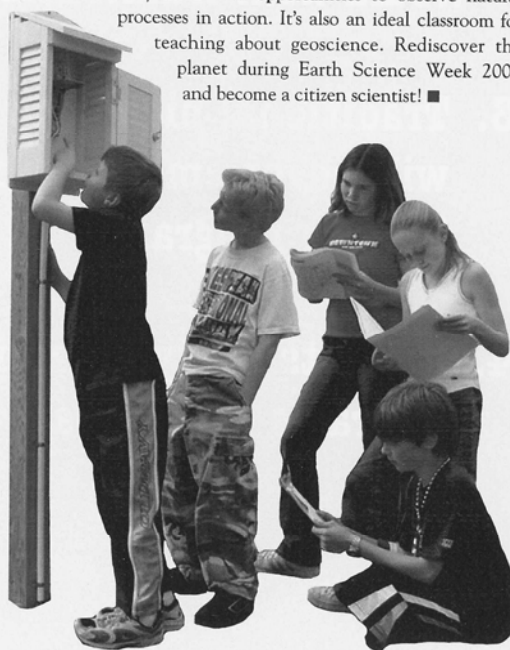
Besides ordering information, the event website ([www.earthsciweek.org](http://www.earthsciweek.org)) offers additional resources for teachers. Dozens of lab activities describe lessons aligned with the National Science Education Standards. Tips are provided for inviting a local Earth scientist to your classroom, collaborating with a nearby geoscience company or organization for an excursion, and generating news media attention. The website will also help you find events in your area and allow you to subscribe to the *Earth Science Week Update* electronic newsletter.

Middle school students are invited to participate in the Earth Science Week writing and photography con-

tests. For the writing contest, students are asked to submit essays answering questions on what it means to be a citizen scientist. For the photography contest, students are asked to submit images of exciting geoscience subjects or geoscientists in amazing locations or situations that reflect the theme Studying and Using Earth's Resources. Entries received or postmarked by October 5 will be eligible for a grand prize of \$300 and a one-year subscription to *Geotimes*, AGI's monthly newsmagazine for the Earth sciences.

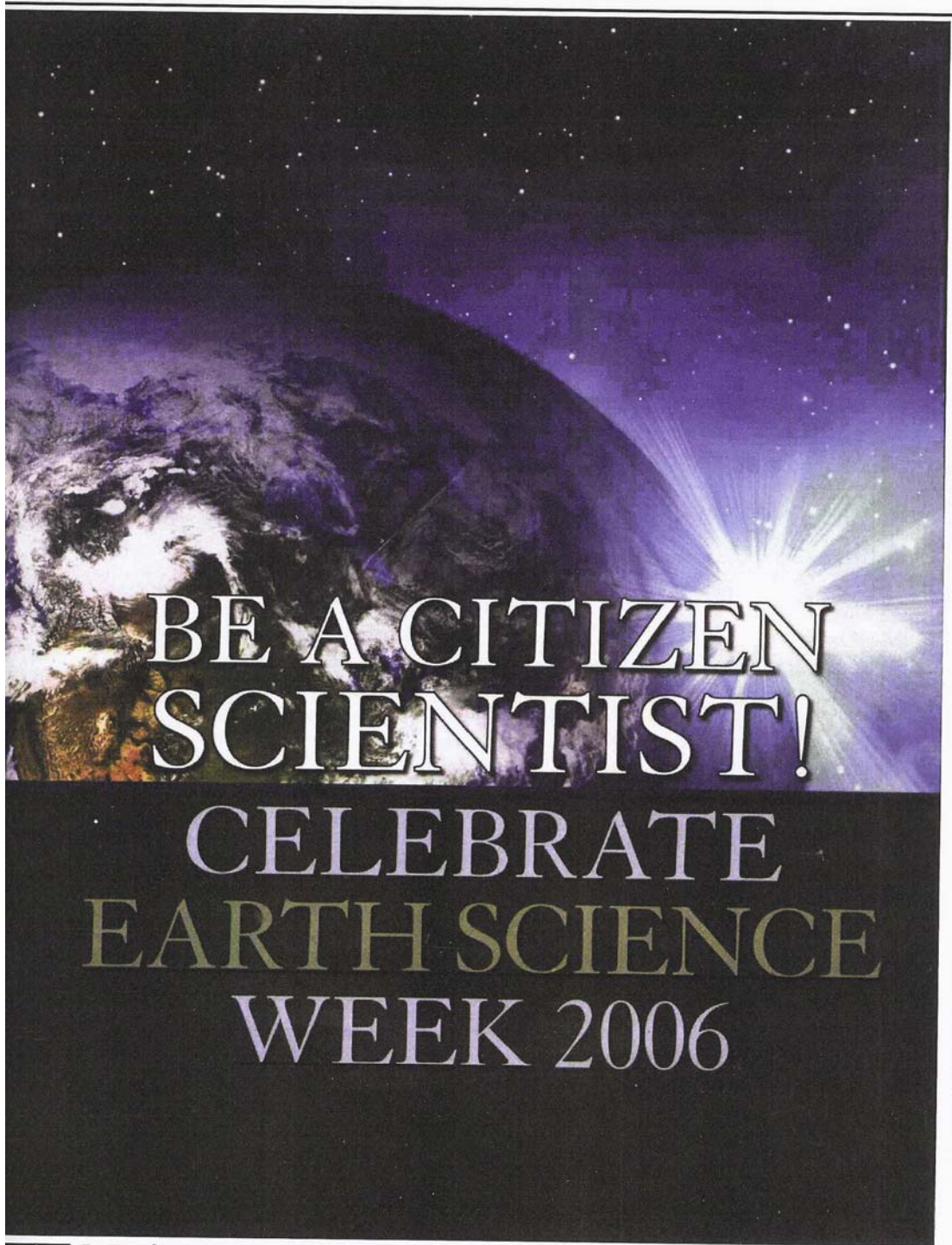
### Students as citizen scientists

Why celebrate Earth Science Week? Despite all the technology in their lives, students may not grasp the importance of science. They may not see how Earth science can inform their opinions and decisions about issues ranging from fuel use to preparing for natural hazards. Even worse, they may be intimidated by the very idea of "hard" science. As citizens of the Earth, though, they have a stake in the current functioning and future prospects of the planet's natural systems. Earth Science Week offers opportunities for them to expand their knowledge and skills by conducting scientific investigations, making observations, analyzing data, testing predictions, drawing conclusions, and contributing to the scientific process. Our planet is a sprawling laboratory filled with opportunities to observe natural processes in action. It's also an ideal classroom for teaching about geoscience. Rediscover the planet during Earth Science Week 2006 and become a citizen scientist! ■



**Ann E. Benbow** ([aeb@agiweb.org](mailto:aeb@agiweb.org)) is director of Education, Outreach, and Development, and **Geoff Camphire** ([gac@agiweb.org](mailto:gac@agiweb.org)) is Earth Science Week manager at the American Geological Institute in Alexandria, Virginia.

*The Science Teacher*  
Arlington, Virginia  
October 1, 2006



by Ann E. Benbow and Geoff Camphire

---

**D**uring Earth Science Week (October 8–14, 2006), millions of citizen scientists worldwide will be sampling groundwater, monitoring weather, touring quarries, exploring caves, preparing competition projects, and visiting museums and science centers to learn about Earth science. The American Geological Institute (AGI) organizes this annual event to encourage better understanding of the Earth sciences and stewardship of the planet. Guided by this year's theme, *Be a Citizen Scientist!*, Earth Science Week 2006 activities will engage students in real research and help spread science literacy among ordinary citizens.

One way to engage students in real research is through “EarthCache EventCache,” organized by The Geological Society of America (GSA), a major event partner. This activity, which kicks off the week's celebration on *October 8*, involves geocachers across the United States who will visit geological outcrops, fossil and mineral collecting sites, relevant college departments, and state geological surveys. Once there, Earth scientists and other experts will provide exciting and educational talks about their site. To set up an EarthCache or learn more about how you and your students can participate, see [www.geocaching.com](http://www.geocaching.com) or contact GSA at [cmclelland@geosociety.org](mailto:cmclelland@geosociety.org).

### **Getting involved**

Earth Science Week offers teachers many free resources to engage students and spark activity. Available for order at [www.earthsciweek.org](http://www.earthsciweek.org), the Earth Science Week Toolkit contains a wealth of resources. The Earth Science Activity Calendar for the 2006–2007 school year, for example, features an engaging activity each month. In addition, the calendar provides a wealth of information about upcoming geoscience events, historical dates relating to Earth science, ways to participate in Earth Science Week, and links to resources on the web. Teachers can hang the calendar in the classroom, where their students can use it throughout the current school year.

The toolkit, free with a small fee for shipping and handling, also features many more materials—thought-provoking CD-ROMs, colorful posters, a *Why Earth Science?* brochure, geoscience maps, lithographs, and activity sheets—designed by AGI and partners including the U.S. Geological Survey, National Aeronautics and Space Administration, National Oceanic and Atmospheric Administration, National



Weather Service, National Park Service, Incorporated Research Institutions in Seismology, Geological Society of America, Scholastic, and S'Cool.

Besides ordering information, the event website ([www.earthsciweek.org](http://www.earthsciweek.org)) offers additional resources for teachers. Dozens of lab activities describe lessons aligned with the National Science Education Standards. Tips are provided for inviting a local Earth scientist to your classroom, collaborating with a nearby geoscience company or organization for an excursion, and generating news media attention. The website will also help you find events in your area and allow you to subscribe to the *Earth Science Week Update* electronic newsletter.

High school students are invited to participate in the Earth Science Week writing and photography contests. For the writing contest, students are asked to submit essays answering the question, "How does Earth science affect your community?" For the photography contest, students are asked to submit images of exciting geoscience subjects or geoscientists in amazing locations or situations that reflect the theme Studying and Using Earth Resources. Entries received or postmarked by *September 30* will be eligible for a grand prize of \$300 and a one-year subscription to *Geotimes*, AGI's monthly newsmagazine for the Earth sciences.

### Students as citizen scientists

Why celebrate Earth Science Week? Despite all the technology in their lives, your students may not grasp the importance of science. They may not see how Earth science can inform their opinions and decisions about issues ranging from fuel use to preparing for natural hazards. Even worse, they may be intimidated by the very idea of "hard" science.

As citizens of Earth, though, they have a stake in the current functioning and future prospects of the planet's natural systems. Earth Science Week offers opportunities for students to expand their knowledge and skills by conducting scientific investigations, making observations, analyzing data, testing predictions, drawing conclusions, and contributing to the scientific process. Our planet is a sprawling laboratory filled with opportunities to observe natural processes in action. It's also an ideal classroom for teaching about geoscience. Rediscover the planet during Earth

Science Week 2006 and become a citizen scientist! ■

*Ann E. Benbow* ([aeb@agiweb.org](mailto:aeb@agiweb.org)) is Director of Education, Outreach, and Development, and *Geoff Camphire* ([gac@agiweb.org](mailto:gac@agiweb.org)) is Earth Science Week Program Manager, both at the American Geological Institute, 4220 King Street, Alexandria, VA 22302.



## Donations sought for war veterans

**DONATIONS FOR INJURED WARRIORS**, a charitable organization, is seeking to provide clothing for injured service men and women who are being treated and/ or transported for injuries sustained in their tour of duty.

The military is low on items many of the men and women need after their clothing was destroyed in combat. Many have to be transported to either hospitals or back home. Items being collected include T-shirts, slippers, underwear, towels, pajamas, sports bras, and flip flops. Items can be dropped off at Fitness One, 14 Youngstown-Warren Road, Niles. Fitness One will give a free one-week gym pass and a \$50 coupon off any one-year gym membership to those bringing in a new item for a donation. Monetary donations may also be made at Farmers National Bank where a fund has been established for the "Donations for Injured Warriors."

In order to promote an understanding and appreciation of the earth sciences, Governor Bob Taft has proclaimed Oct. 8-14 as **EARTH SCIENCE WEEK** in Ohio in conjunction with the ninth national Earth Science Week observance. This year's theme is "Be a Citizen Scientist." Earth Science Week is held annually during the second week of October. The American Geological Institute coordinates the event with support from the U.S. Geological Survey, the AAPG Foundation and the National Park Service. For more information, visit [www.earthsciweek.org](http://www.earthsciweek.org)

The Warren G. Harding Raider Marching Band's annu-

### Seeing Eye

Send items to:  
Seeing Eye  
Tribune Chronicle  
240 Franklin St. S.E.  
Warren 44482

al **FRUIT SALE** is under way. Order need to be placed by Nov. 3. Navel oranges, grapefruit, tangelos, mixed cartons of oranges and grapefruit, and fruit baskets are available and priced at: 10 lb. carton - \$12, 20 lb. carton - \$20, fruit baskets - \$15. All orders must be prepaid. To place an order see any band member or call 300-841-2316, ext. 231 or 330-372-1053.

Howland Township's **LEAF PICK-UP PROGRAM** will be held through November. Leaves will be picked up weekly and longer if necessary. Residents must use biodegradable bags available at Andrews, Home Depot and Lowes. Bags are to be placed at curbside. The burning of leaves is prohibited.

The Jewish Community Center is offering its adult **LECTURE SERIES** with the first of the four-program series to be taught by David Simonelli, assistant professor of history at Youngstown State University from 7 to 8 p.m. Wednesday in the adult lounge at the Jewish Community Center. The program is "19th and 20th Century British Empire" with Simonelli, who specializes in the 20th Century British, will compare the development of the British Empire to current debates about the nature of American foreign policy and whether or not the United States is an imperialist power. The four week lecture series features a different topic related to history and contemporary empires. The pro-

gram is free to the public. For more information, call 330-746-3251.

The Trumbull Memorial Hospital Foundation in partnership with Trumbull Area Artists are presenting an art show featuring the art work of Trumbull County artists Gary Herdman, Sue Jacobs and Lee Roby. The exhibit will run through Nov. 16 in the Nissen Art Gallery on the first floor of north lobby of Trumbull Memorial Hospital. The artwork of Trumbull Area Artists will be available for sale. The public is welcome.

### TODAY:

● To reach the 24-hour information referral and crisis intervention service in Trumbull County, call **CONTACT** at 330-393-1565.

● Call **Help Hotline** at 330-747-2696 or 800-427-3606 for more information on service agencies and support groups.

● **Someplace Safe Inc.**, domestic violence agency, offers support groups for women, children and individual support services. 330-393-3003.

● **GriefShare recovery seminar and support group**, 6:30 p.m., Woodland Park United Methodist Church, 601 Ohio Ave., McDonald.

● **Sunday Nite Our Gratitude Speaks, Narcotics Anonymous**, 7 p.m., open discussion, speaker, St. Joseph Health Center atrium, 667 Eastland Ave. S.E., Warren. Wheelchair accessible.

Anyone with items for *Seeing Eye* should call 330-841-1738; e-mail [news@tribune-chronicle.com](mailto:news@tribune-chronicle.com), mail or drop off information at the *Tribune Chronicle*.



## *U-Wire*

Carlsbad, California

October 16, 2006

### **Cornell U. Cornell U. co-sponsors Earth Science Week 10/16/2006 U-WIRE**

By Michelle Pascucci, Cornell Daily Sun (Cornell U.)

ITHACA, N.Y. -- Earth Science Week took place last week at Cornell University. Created in 1998 by the American Geological Institute, Earth Science Week is an information session on the coordination of earth science fields and their importance to society, according to Mark Wysocki, director of undergraduate studies for earth and atmospheric studies. This year's theme was Be a Citizen Scientist, which reinforced the importance of having a scientifically literate community.

Cornell's EAS department worked in conjunction with the Museum of the Earth, part of the Paleontological Research Institute, to spread the word to the community.

The Museum of the Earth kicked off the week last Saturday with Teacher Resource Day, which gave about 60 teachers the opportunity to receive the museum's surplus rocks and shells for use in the classroom.

According to Warren Allmon, director of the Museum of the Earth, the events conducted at the museum throughout the week drew strong crowds.

PRi wanted to reach the non-campus community -- teachers and school students of all ages. Both of these audiences tend to be unaware of earth sciences in general, Allmon said.

Because there are few strong earth science programs at public schools and those that do exist tend to be poorly funded, it is especially important to inform these groups.

Unfortunately, at public schools earth science is pretty poorly taught, said Allmon. It is usually the science you take if you're not good enough to take the others.

For Allmon, Earth Science Week was also about widening the perspectives of the general community.

If people knew about the science behind climate change, the science of soil erosion, if people understand how the earth affects living organisms, they might read the newspaper differently each day, he said.

For instance, Allmon described how one event held at the museum showed how scientists used techniques for sensing earthquakes to detect the recent North Korea nuclear test.

Events held at Cornell, according to Wysocki, were meant to demonstrate the various components of Earth Science as a career and how they apply to real life types and problem solving.

Such events included a two-day Institute for the Study of the Continents workshop entitled Subduction, Orogeny and the Surface of the Earth, a weather balloon launch from the roof of Bradfield Hall and a demonstration of subsurface imaging on the Arts Quad.

Unfortunately, the timing of Earth Science Week made it difficult to attract students to the various lectures and demonstrations, as many students were off-campus when the events took place, due to Fall Break.

Another issue was Ithaca's infamously unpredictable weather. It rained several times last week, including the morning of the weather balloon launch. The threat of storms may have dissuaded interested students from coming.

Next year, we need to look carefully at the timing, said Larry Brown, earth and atmospheric sciences and director of INSTOC. We need to do a better job of getting the word out ahead of time.

Still, Brown was pleased with the extremely successful INSTOC workshop, which brought in a range of experts from all over the world. Some of the scientific visitors included Cornell alumni who are now involved in their own research. The symposium was a celebration of the work of Brian Isacks, geological sciences.

However, Wysocki saw that the lack of interest in Earth Science Week was indicative of earth science's problems in general. Because many of the careers that earth science offers are not as lucrative as other fields, the students that choose to pursue programs in the EAS department must be motivated by the genuine desire to solve problems pertaining to climate change and the state of the earth.

These problems become especially pertinent when considering the recent natural disasters and the ubiquitous issue of global warming.

The general public's response [to these natural disasters] was, "Why don't you have these problems solved?" said Wysocki. But we don't have enough people. We need help. Look at Katrina; look at the cleanup from Hurricane Andrew. They just don't go away in a few weeks.

## October 8-14 Proclaimed Earth Science Week in Ohio

5446  
COLUMBUS, OHIO — In order to promote an understanding and appreciation of the earth sciences, Governor Bob Taft has proclaimed October 8-14 as Earth Science Week in Ohio in conjunction with the ninth national Earth Science Week observance.

"Earth Science Week is a great reminder about the significance of the earth's resources to our society and quality of life," Taft said. "This year's celebration is 'Be a Citizen Scientist,' and I encourage Ohioans of all ages to focus on everyday activities that promote an understanding and respect for nature."

This week's activities in central Ohio will kick off with the annual Earth Science Expo, scheduled for 1 p.m. to 4 p.m. on Sunday, October 8, at Highbanks Metro Park, 9466 Columbus Pike (U. S. 23, opposite Resurrection Cemetery). Local, state and federal agencies and organizations will be represented.

A "Be a Citizen Scientist" toolkit for grades K-12 is available through the American Geological Institute and can be ordered on the Internet from the Earth Science Week web sit for \$4.95. The tool kit contains information about the Smithsonian Institution's "Earth from Space" web site that will be launched as part of the Earth Science Week 2006 observance; an activity-rich poster; an Earth Science calendar filled with important geoscientific data; fact sheets on citizen science programs of the U. S. Geological Survey; a DVD entitled "Views of the National Parks;" and more.

Earth Science Week is held annually during the second week of October. The American Geological Institute, founded in 1948, coordinates the event with support from the U. S. Geological Survey, the AAPG Foundtion and the National Park Service. For more information visit [www.earthsci-week.org](http://www.earthsci-week.org).

**Wilmington News Journal**  
Wilmington, Ohio  
September 25, 2006

## Earth Science Week theme in C

5446  
In order to promote an understanding and appreciation of the earth sciences, the week of Oct. 8 through 14 has been proclaimed Earth Science Week in Ohio by Gov. Bob Taft, in conjunction with the ninth national Earth Science Week observance.

The week's activities in central Ohio

will kick off with the annual Earth Science Expo, scheduled from 1 to 4 p.m. Oct. 8 at Highbanks Metro park, 9466 Columbus Pike (U.S. 23, opposite Resurrection Cemetery). Local, state and federal agencies and organizations will be represented.

A Be a Citizen Scientist toolkit for

students in kindergarten through grade is available through the American Geological Institute and can be ordered on the Internet from the Earth Science Week Web site for \$4.95. The toolkit contains information from the Smithsonian Institution's Space Web site that will be

## Ohio 'be a citizen scientist'

from through 12th grade. The American Geological Institute can be ordered from the Earth Science Week Web site for \$4.95. The toolkit contains information about the week's Earth Science Week observance. It will be launched as

part of the Earth Science Week 2006 observance, an activity-rich poster, an Earth Science calendar filled with important geoscientific data, fact sheets on citizen science programs of the U.S. Geological Survey, a DVD entitled "Views of the National Park," and more. Earth Science Week is held annually

during the second week of October. The American Geological Institute, founded in 1948, coordinates the event with support from the U.S. Geological Survey, the AAPG Foundation and the National Park Service.

For more information, visit