



American Institute of Professional Geologists Kentucky Section Newsletter

Summer 2008

2008 Executive Committee
President: Jim Howard
President Elect: Faith Fiene
Vice President: Randy Shields
Secretary: Donnie Lumm
Treasurer: Gil Cumbee
Past President: Dan Phelps
Editor: Richard Smath
Webmaster: Trent Garrison

Committee Chairpersons:
Membership: Larry Rhodes
Legislative: Donnie Lumm
Nominating: Larry Rhodes
Awards: Larry Rhodes

Website:
www.professionalgeologist.org

Mailing Address:
Kentucky Section AIPG
P.O. Box 24690
Lexington, KY 40524-4690

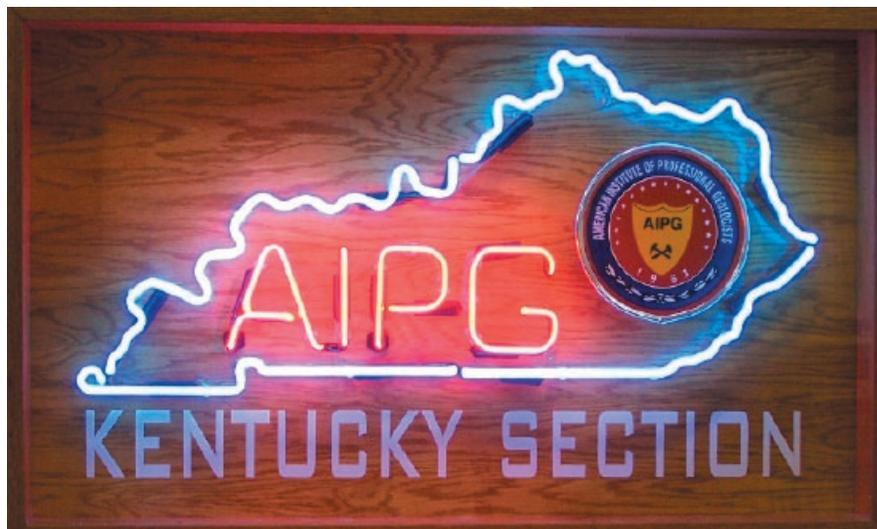
On the KY-AIPG Website:

Outreach Volunteer Program

Fieldtrip Guidebooks

Schedule of Upcoming Events

Member Contacts



INTERNATIONAL YEAR OF PLANET EARTH

The International Year of Planet Earth, proclaimed by the United Nations, is a 3-year event (2007-2009). IYPE is a joint initiative of the International Union of Geological Sciences and United Nations Educational, Scientific and Cultural Organization. It will be implemented through both science and outreach programs to demonstrate the ways in which we can more effectively use the knowledge of various disciplines of geosciences to make our planet a safer and healthier place for future generations. Click on the link to www.yearofplanetearth.org for more information.

GLOBAL CLIMATE CHANGE SYMPOSIUM

Kentucky Section of AIPG International Year of Planet Earth activities this year will be focused on presenting a symposium on global climate change on Monday, November 10, 2008, at 7 p.m. in Memorial Hall on the University of Kentucky campus. There will be a reception at 6 p.m. at the Kentucky Geological Survey. Parking is free in parking structure 2. For more information about the symposium and parking, click on the IYPE Symposium flyer link.

LAKE CUMBERLAND FIELD TRIP

Kentucky Section of AIPG would like to thank the following hosts and sponsors who contributed to the success of this field trip: Association of Environmental and Engineering Geologists, RS Energy LLC, GeoScience Consultants Inc., Spade Corporation, the Allen Company Inc., Environmental Science Corporation, Regenesys, Republic Waste Services, Kentucky Geological Survey. We would also like to thank the field trip leaders: Dr. Paul Potter, University of Cincinnati; Dr. Dave Meyer, University of Cincinnati; Dr. Stephen Greb, Kentucky Geological Survey; Dr. William Ausich, University of Ohio; Brook Brosi and Scott Massa, U.S. Army Corps of Engineers.

On Friday, May 16, we met field trip leaders and geologists Brook Brosi and Scot Massa from the U.S. Army Corps of Engineers at the Wolf Creek Dam to get a tour of the dam and the progress of the on going rehabilitation plan. This plan introduces more grout along the length of the earthen embankment along the dam, which was built in the 1940's. Also, a modern cut-off wall will be incorporated along the the length of the dam using innovative technology to stop seepage. High lake levels on Wolf Creek Dam have put stress on the weakened foundation and increased seepage, so since March 2005, the Corps have been keeping the lake levels lower than normal to reduce the risk of failure while they rehabilitate the dam. The lower lake level (43 feet below normal summer pool level) has had a slight impact on the recreational aspects of the lake, but is a big advantage for geologists, by exposing more of the complicated and diverse structure of the Fort Payne Formation.



Brook Brosi, geologist with the U.S. Army Corps of Engineers, giving us a tour of the Wolf Creek Dam rehabilitation.



After the dam tour, there was time to take a side trip to an obscure location to visit the Rock House Natural Bridge near Ribbon.



Here we stopped to view small scours with soft-sediment deformation structures and flow rolls, as well as a deep scour filled with dark gray, shaly siltstone.



On Saturday, May 17, we met up with our field trip leaders, Dr. Paul Potter, Dr. Dave Meyer, Dr. Stephen Greb, and Dr. William Ausich at the Lure Lodge. Randy met with the food staff and was given meat, bread, toppings, desserts, and drinks for us to take. We then headed for our float trip on Lake Cumberland, where we boarded four eight-passenger pontoon boats and set off for the shores along Greasy Creek.



Farther down Greasy Creek we started to see the numerous green-shale mud mounds and their associated carbonate buildups.

At our next stop, we docked the pontoons and set foot on shore to view one of these mud mounds. Abundant coarse crinoidal grainstones as well as numerous geodes were found.



Back in the pontoons, we went farther down Greasy Creek to view other sedimentary and structural features of the Fort Payne Formation.

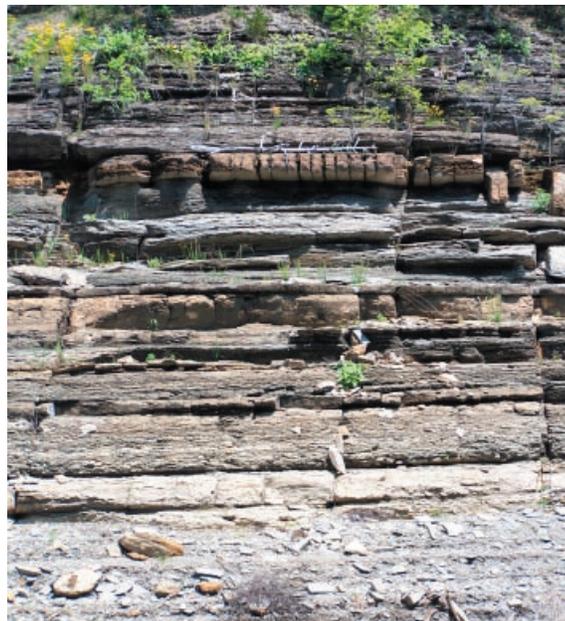


Undulated bedding in the Fort Payne Formation.

Lunch was at another stop, where the fossil and geode collecting continued after everyone made their own sandwiches.



Crinoids and brachiopod.



Fractured siltstone bed in the Fort Payne Formation.



The famous Russell County Tim Crumbie geode.

Back in the pontoon boats, we spent the rest of the day on Wolf Creek viewing more of the mounds, soft-sediment deformation, slumping, and scours of the Fort Payne Formation.



Intense deformation and recumbent folding in the Fort Payne Formation.

Returning to the boat dock at 4:00 p.m., everyone went back to the lodge to clean up for the evening banquet and awards ceremony in the Lake Cumberland State Resort Park's Lure Lodge.



Left to right: Donna Slone, Steve Greb, Tim Crumbie, Greg Cornett, Dan Phelps, William Ausich, and Dave Meyer.



After dinner, Brook Brosi, from the U.S. Army Corps of Engineers, gave a PowerPoint presentation on the history and detailed work being done on the Wolf Creek Dam.

After Brook's presentation, awards were presented.



Donnie Lumm (left) presents the \$500 Outstanding Student Scholarship Award to Sam Williams of Morehead State University.



Dave Moecher (left) presents the \$500 Outstanding Student Scholarship Award to Jordan Drew of the University of Kentucky



Donnie Lumm (right) presents the 2008 Lifetime Achievement Award to David Williams of the Kentucky Geological Survey.



Donnie Lumm (left) presents the 2008 Geologist of the Year Award to Douglas Curl of the Kentucky Geological Survey.