

# **Newsletter of the KENTUCKY PALEONTOLOGICAL SOCIETY**

Vol. 17, No. 11

November 2009

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## **OCTOBER MEETING**

Dr. Frank Eddensohn gave us an overview of his research on fossil stemless crinoids in a multimedia presentation that included videos of modern feather stars swimming. We thank Frank for his excellent talk.

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## **NOVEMBER MEETING: MONTANA DINOSAUR DIG**

The KPS will meet at 7:30 PM on Friday, November 20 on the first floor of the Mining and Minerals Resources Building on the University of Kentucky campus (see meeting announcement for more details).

This month our speaker will be Mary Chesnut, sophomore, Fine Arts Academy at Henry Clay High School. Mary will speak on "A Teenage Dinosaur Dig in the Jurassic of Montana."

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## **NOVEMBER FIELD TRIP – HAZARD – PENNSYLVANIAN FOSSILS**

On Saturday, November 21 we will be visiting Hazard to collect fossil plants from the Breathitt Group and marine invertebrates from the Magoffin Shale. We will meet at 11:00 AM at the Wendy's located on Highway 80, just west of the intersection of Highway 80 and KY 15. Please be on time, especially if you want to eat lunch there, as we will leave by 11:15 AM.

Previous trips have uncovered various well-preserved plant fossils and one of only two known vertebrate trackways in Kentucky. It is highly recommended that you bring along a can of inexpensive hairspray (such as Aqua Net™) to preserve the plant fossils and flat boxes so the fossil will not be damaged.

**THINK SAFETY!!!**

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## **NEW GEOLOGIC MAP OF KENTUCKY PUBLISHED BY THE KENTUCKY GEOLOGICAL SURVEY**

A new publication, the *Geologic Map of Kentucky*, now available from the Kentucky Geological Survey (KGS) at the University of Kentucky, compiles over 700 digital maps to make up the full geologic map of the state. It can be downloaded from the KGS Web site or purchased in paper form and laminated. This colorful 1:350,000-scale map includes all major geologic formations of the state, along with major surface faults, counties, county seats, streams, and rivers. The 36 x 80 inch map was created

from 707 U.S. Geological Survey-minute geologic quadrangle maps (scale 1:24,000) that were digitized during the KGS Digital Geologic Mapping Program (1996 - 2006).

"This publication encapsulates the original mapping done during a cooperative project by the USGS and KGS from 1960 to 1978, when Wally Hagan was state geologist," says Tom Sparks of the KGS Geospatial Analysis Section. From 1996 to 2006, using funding from the STATEMAP Program of the USGS National Cooperative Geologic Mapping Program, KGS staff digitized and compiled the previously published 707 geologic quadrangle maps into a seamless map.

"Just about anyone interested in the general geology of Kentucky, as well as educators and students of geology will find the map useful and interesting." Sparks points out that a long list of people contributed to the program and the map, including KGS project staff, visiting scholars, students, volunteers, and summer interns.

The publication illustrates regional changes in stratigraphic nomenclature (proper geologic names and their associated characteristics within the rock record) that arise from lateral variations in the rocks but may also be due to evolving nomenclature usage during and after the original mapping program. While compiling the maps, every effort was made to resolve inconsistencies in the formation names, to adopt more recent usage, and edgematch adjoining maps. The end result is a map that uniquely combines the fidelity of large-scale maps with the regional perspective of a statewide compilation to illustrate the achievements of the KGS Digital Geologic Mapping Program.

Visitors to the KGS web page can view and download the map by going to the KGS Publications & Map catalog at <http://kgsweb.uky.edu/findpubsmain.asp>. Enter this publication's number, 17283, in the box next to "Enter Publication Number or SkuCode". Clicking on the "Search" button opens a new page with a link to the map. The Adobe PDF file is over 16 megabytes in size but it is a high quality resolution plot file with detail in both the geology and hillshading displayed. Its download and online viewing time may vary, depending on the user's internet access speed. In addition, printing times on plotters may be long due to the size and details of the digital file.

Paper copies of the map are available from the KGS Public Information Center on the UK campus for \$10 each plus shipping. They may also be laminated for an extra charge. To order a copy, call (859) 257-3896 or toll free at (877) 778-7827. The digital data, for use in GIS software, for each of the 707 quadrangle maps are available from the Public Information Center under the KGS DVGQ series. Quadrangle datasets are also \$10 each.

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## **KYANA GEM AND MINERAL SHOW**

KYANA is having their annual gem and mineral show on November 13 to 15. The show is free. Times for the show are: Friday 10 AM - 7 PM, Saturday 10 AM - 7 PM, and Sunday Noon - 6 PM. The show will be held at the Resurrection Lutheran Church Gym, 4205 Gardiner

View Avenue, Louisville, Kentucky. For more information visit: [www.kyanageo.org](http://www.kyanageo.org)

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## DINOSAURS: THE BIG PICTURE

One of the largest private dinosaur collections in the country belongs to a father and son team from right here in Danville - a duo with a prehistoric pastime that has led them to collect more than 60 full dinosaur skeletons and travel to excavations around the globe. While they are quick to note this "hobby" is all for the benefit of science and the fun of sharing their fossilized finds with others, John and Jack Hankla have exhibited their amazing acquisition in major museums around the nation... and in January/February 2010 they'll bring it home for a must-see display at the Community Arts Center in Danville.



This exhibit will feature "the final chapter" of dinosaurs on loan from the Hankla collection, filling every space of the facility with life-sized cast dinosaur skeletons and fossil material from the Cretaceous period (145-65 million years ago)... including a Tyrannosaurus Rex!

*Among the related planned activities:*

"Museum in the Dark": see the exhibit by flashlight at night!

Interactive Sessions: sketch and sculpt your own dinosaur or fossil.

Fluorescent minerals exhibit.

Guided Tours.

Fossils and other Dinosaur-related gift shop items

**Pricing per person:** \$6.00 adults, \$4.00 kids, \$5.00 seniors, **\$2.50 field trips.** All proceeds of the exhibit benefit the CAC

We are working at making this a January 2010 field trip.

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## PALEOBOTANY/FOSSIL WOOD CALENDAR

Paleobotanist Elisabeth Wheeler from North Carolina State University has put together a 2010 calendar for sale at <http://www.lulu.com/content/7565290>.

To see a preview of the calendar pages, click on the "Preview" underneath the calendar cover.

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## FACEBOOK

The Kentucky Paleontological Society now has a Facebook page. Presently, we have 91 members on the page. If you are on Facebook you can join and get updates about KPS activities.

To join, create a Facebook account at: <http://www.facebook.com> and search for "Kentucky Paleontological Society."

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## MEETING DATES FOR 2009

The KPS will meet the following Fridays in 2009: December 18, annual election, party and auction.

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## NOVEMBER FIELD TRIP ANNOUNCEMENT

**WHAT:** Collect Middle Pennsylvanian terrestrial and marine fossils

**WHERE:** Meet at the Wendy's located on US 80, west of the intersection of KY 15 with US 80 near Hazard.

**WHEN:** Saturday, November 21, 11:00 AM (be on time!)

### ITEMS YOU MAY NEED:

Water

Sturdy shoes and clothes that can get dirty

Geology hammer

Safety glasses

Inexpensive hairspray (Aqua Net™)

Flat boxes/containers for specimens

*Everyone please remember to think of safety!*

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## EARTH SCIENCE LITERACY POSTER/PAMPHLET

Available for free at: [www.earthscienceliteracy.org](http://www.earthscienceliteracy.org)

## NOVEMBER MEETING ANNOUNCEMENT

**WHEN** - Friday, November 20, 7:30 PM.

**WHERE** - Mines and Minerals Resources Building, Room 101, next to the Faculty Club (see map below). The Mines and Minerals

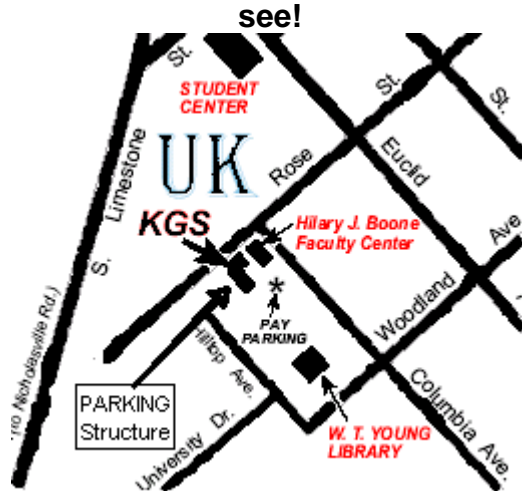
Building is home of the **Kentucky Geological Survey (KGS)**. It is conveniently located on the University of Kentucky campus. **Free** parking is available in the parking structure located on Hilltop Avenue.

**SPEAKER:** Mary Chesnut,  
Sophomore, Fine Arts Academy at  
Henry Clay High School,  
Lexington

**TOPIC:** "Teenage Dinosaur Dig in the  
Jurassic of Montana."

Discussion of upcoming KPS field trips and meetings. Feel free to bring snacks, etc. for our hospitality table!

**Bring your unidentified specimens for us to see!**



**NOTE THAT ROSE STREET NO LONGER  
CONNECTS WITH NICHOLASVILLE ROAD!  
FREE PARKING AT THE STRUCTURE ON  
HILLTOP AVENUE.**

monthly, and several field trips are arranged annually.

Meetings of the Society are held once a month. Visitors are welcome.

[ ] **Family Membership.** For families. \$17 annually.

[ ] **Individual Membership.** \$12 annually.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE # \_\_\_\_\_

E-MAIL ADDRESS \_\_\_\_\_

DO YOU WANT TO RECEIVE THE NEWSLETTER BY  
**REGULAR MAIL or E-MAIL?** Circle one.

I hereby promise to support the ethical standards and purposes of this society-

(Signed) \_\_\_\_\_

**CODE OF ETHICS**

I. Members shall not collect specimens where prohibited by federal, state or local laws.

II. Members shall not trespass on private property. All private property laws shall be respected by members.

III. Members agree to protect scientifically important sites. These sites will be made known to members by the Executive Committee.

IV. Members agree to make all specimens of scientific importance available to recognized scientific researchers or institutions for study and photography before final disposal. Sale of specimens of scientific importance should be done with respect towards their scientific value; donations to scientific institutions are encouraged.

V. Members agree not to over collect sites, thus allowing others to study and enjoy those sites.

VI. Members agree not to collect in advance of Society field trips.

*The following (optional) information will be included in the society's membership directory:*

OCCUPATION

INTERESTS/COMMENTS on the back of the form:

**MEMBERSHIP**

MAIL TO: KENTUCKY PALEONTOLOGICAL SOCIETY, INC.  
2004 Sawyer Court  
Lexington, KY 40514

**SOCIETY PURPOSE**

The Kentucky Paleontological Society was founded in 1993 for the purpose of promoting interest in and knowledge of the science of paleontology. It is intended that the Society be a network for the exchange of data between professionals and serious amateurs in the field. A newsletter is published