



EARTH SCIENCES

THE ROCK CLUB DEDICATED TO THE SERIOUS STUDY OF GEOLOGY, MINERALOGY,
PALEONTOLOGY

THE TUMBLER

May 2009

Indianapolis, IN 46290-0352

May MEETING

NORTH EASTWOOD
CHRISTIAN CHURCH
9425 EAST 30TH STREET
INDIANAPOLIS, INDIANA

SUNDAY, May 3, 2009, 2:00 PM

“Volcanoes”

Ron Everheart,
Vulcanologist

2009 OFFICERS

President	Ann Richardson
Vice President	Jim Yarber
Secretary	Marge Begeman
Treasurer	Gail Hall

PRESIDENT’S MESSAGE

Greetings! After the April 4th meeting I received several complimentary comments from members who participated in the topographical map presentation that James Yarber gave. I am sorry that I had to miss the program. I was thrilled to hear that sixteen members that present to support his effort as well. During the May 3rd meeting I would like to address the issue of planning for the future. First is the issue of what you want to do as a member of the club, below is a list of things to think about:

I. What would you like to gain from club meetings?

II. What type of programs would interest you; informational presentation, hands on activities, demonstrations, member participation activities, etc?

III. What can I do as president?

During the May meeting we will take a few moments to discuss “Planning for the future so please give the list of questions above some serious thought and bring in your ideas for the discussion. The Club’s Board of Directors will be meeting after the club meeting and I would like to begin making plans for the remainder of the year.

Ann



2009 CLUB MEETING DATES AND PROGRAMS

May 3 Ron Everheart, Vulcanologist
June 14 TBA
July



CLUB WEB SITE

www.geology.iupui.edu/Outreach/500%5FEarth%5Fs ciences/

Please send pictures and information you would like to share on the website to Len Gritzer at leng@indy.net



The Tumbler is published monthly by
500 Earth Sciences
P O Box 90352

MINUTES OF THE MEETING

April 4, 2009

In the absence of Ann Richardson, James Yarber vice president, opened the meeting with April’s program. He presented a program on ‘Topographical Map Reading Skills’. We were paired off so each two people shared one topographical map of West Indianapolis.

James taught us how to read the symbols for churches, US bench marks, schools, small creeks, etc. and also how to determine the types and distance of the contour lines, read the longitudinal and latitude information, and other

important basic skills needed to use the map. Then we were asked to use these skills to find answers to the pre-prepared questions he gave us.

The formal business meeting started at three pm. James opened it with a memoriam to Dee Slater who passed away last month. His memoriam was in the form of reading a diary he had written on a field trip to the Gypsum Quarry in Southern Indiana in the near past. Included in this same field trip were stops at Jug Rock, House Rock, a cemetery where 'wet stone' grave markers were, and seeing the second longest bridge in Indiana. Joe Palooka's statue and a visit to the quarry where the limestone for the Empire State Building was mined also found their way into this busy day. At one point on the trip James looked at the ground and saw a large black snake crawling over Dee's foot. In Williams, Indiana, Dee found, and purchased, a limestone statue of a mammoth! All this is very typical of Dee and her large and deep interest in nature and living a full life.

Submitted, Marjorie K. Begeman

OLD BUSINESS:

CORRESPONDENCE: None reported

NEW BUSINESS:

Monthly Giveaway: Judy Gayle won an ammonite fossil from Madagascar.

COMMITTEE REPORTS:

PROGRAM: We will be having our next meeting May 4

FIELD TRIPS: A potential field trip for May will be at the Hanson Quarry.

SHOW COMMITTEE: The next show will be the June 26-28 at Bloomington. Listed below are other shows as well!

PUBLICITY: No report.

MIDWEST FEDERATION: No report

LIBRARY: No report.

WEBSITE: Len Gritzer asked members to submit material for the website to him.

MICROMOUNTERS: No date was available at this time.

MEMBERSHIP: Cheryl Hamilton will fill this position.

HOSPITALITY: We still need a Chair for this position

NEXT MEETING: February 5, 2009.

Refreshments:

April: Laura and Cassidy Creemer

May: The Begemans

June: Cheryl Hamilton and Gail Hall



LITTLE KNOWN FACTS Submitted by Ann Richardson

Welcome to the *Little Known Facts* column about our club members. This month we are featuring club member **Dora Foltz**. **Did you know** that Dora has been living her life on the wild side since she was a child? It all started when she joined the Boys 4-H instead of the Girls 4-H. By doing this she was able to show a variety of animals at the County and State Fair. This list included hamsters, pigs and quarter horses. She won several ribbons. She won the Grand Champion ribbon by raising and showing standard breed horses and quarter horses. She also rode horse both Western and English style, her horseback were perfected during the years she rode horses to school. She would tie them up behind the school while she was in class and at recess and lunch time she would let the students in the school ride them. As an adult Dora continues to live her life on the wild side. She informed me that she likes to participate in sports activities that are 'on the edge'. She has been an active licensed scuba diver since 1988. Future plans include Bunge Jumping and Hand Gliding. GO FOR IT DORA! Next month the *Little Known Fact* Column will feature Secretary Marge Begeman.

Future Shows:

May 2-3, 2009 CINCINNATI GEO FAIR, Cincinnati Mineral Society & Dry Dredgers, Cincinnati Gardens, 2250 Seymour Ave. Sat 10-6, Sun 11-5.
May 9-10--HANNA CITY, ILLINOIS
May 16-17--BEREA (CLEVELAND), OHIO
May 23-24--WHEATON, ILLINOIS
May 30-31--COLUMBUS, OHIO
June 13--CHICAGO, ILLINOIS
June 20-21--GEORGETOWN, INDIANA
June 26-28--BLOOMINGTON, INDIANA, Lawrence Co. Rock Club, Monroe Co. 4-h Fairgrounds
July 10-12--SHARONVILLE (CINCINNATI), OHIO

Tiny Hidden Treasures: The Microfossils of Ohio

Unknown. Rock Pickings, May 2003, Pg 4-6

Microfossils are very useful in many geological investigations. Their size and abundance make them invaluable tools for determining the age of sedimentary rocks, and they are commonly used as index fossils (fossils that are diagnostic of a certain age or rock unit). Microfossils can be used for correlations within and between continents in order to show whether or not a body of rock was deposited at the same time in different regions. Such information allows reconstructions of the history of the Earth. Rocks that lack larger fossils may, and commonly do, have abundant microfossils. The microfossils may be the only tool available for determining the environmental origin and age of the rock. Microfossils are particularly useful in examining drill cores, which have obvious sample size limitations.

The composition of the microfossil also may have advantages. Some groups, such as conodonts, show variations in color when exposed to different temperatures and can be used as a "paleothermometer." Because oil and gas are formed within a specific temperature range, it is of great importance to know what degree a rock has been heated during its geologic history in order to determine whether or not it may be a source rock, and, as such, if it is worth exploring further. Thus, microfossils not only have great scientific value, but are also crucial economic importance.

TREASURERS OF THE EARTH:

Ann, Len, Jamison, Eric, Cassidy, Jud, and Dwaine Eddington were some of the members that worked the show. Thank you for your hard work and dedication, we appreciate it!

MEMBER VOLUNTEER ACTIVITY:

Len Gritzer gave a one hour geology lecture to third graders at St. Michaels School on March 25, 2009. He stated the children asked lots of questions and enjoyed his lecture. They also enjoyed the geology specimens he gave each child. The children responded to him by writing a thank you note.

SEPTEMBER GEM AND MINERAL SHOW:

1. The next board meeting will decide the question of a table available for club members to sell their items. It is problematic since we have a small membership and members are needed to work the show.
2. The Sheep Barn and the Main Building are already sold out.

GENERAL:

1. Nora shared that Kentland, in northern Indiana, has a meteorite impact.
2. There is a philosophy that Mammoth and mammoths became extinct due to meteorite crater with the resulting iridium plus the ice age
3. Nelson Schaeffer, who gave a lecture to the club recently, is a member of the Indiana Geological Survey. To find more information on geodes search his website. There are web sights of his that are instructional and interesting.
4. Judy Gayle brought in two fossilized geodes with horn fossils embedded in the outer part of the geode. This occurrence is apparently caused by pressure and heat.

