



Eastern Indiana Gem & Geological Society December 2016

ROCK PICKINGS

P.O. Box 1724 • Richmond, IN 47375 • eiggs.weebly.com • facebook.com/EasternIndianaGemGeologicalSocietyEIGGS

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Memberships:

Annual dues
\$15 Individuals
\$20 Families

Please send dues to:

EIGGS
PO Box 1724
Richmond, IN 47375

 **Next meeting: Thursday, January 5, 6:30 p.m.**

PRESIDENT'S MESSAGE

Happy New Year, Rock Hounds!

I don't have much to say for this newsletter. Thank you for electing me as your club president once again. I think this will be my final year as president. So if anyone out there is looking for an opportunity to serve the club, there will most likely be an opening come next December.

Membership Dues - PLEASE submit your dues to Dave Straw ASAP. The membership form is on page 2 of this newsletter. In the past some members have lingered well into the year before settling their dues. We would like to curtail this habit. \$15 for single member and \$20 for a family membership.

REMINDER: The grab bag filling party will take place at the January meeting. If you are at the club using the shop, please take a minute to help make up some grab bags for the spring show. Instructions and all materials should be laid out in the meeting room. If folks volunteer their time while using the shop, it will speed up how much has to be done at the January meeting.

Maybe I had a bit more to say than I thought! See you on Thursday in the shop.

Mark



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Christmas party photos



Susan Kuhlman

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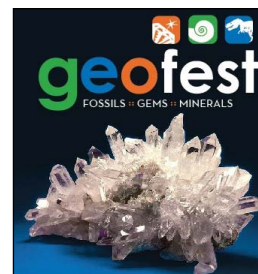
Grab bag assembly



Help make grab bags at January meeting

PAGE 5

GeoFest is coming!



Event held February 19, 18, 19

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Hamilton Ice Fest



Event held January 20-21

MEETING MINUTES:

DEC. 1, 2016 MARY ANN MORSE

Members & guests present

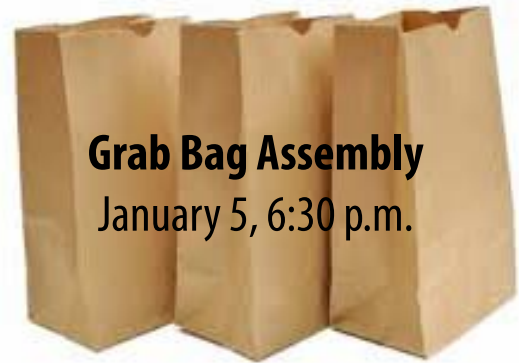
Pam Beneker, Malessia Bowling, Deb Chagares, Jim Chagares, Missy Killion, Erna Jacob, Susan Kuhlman, John LaMont, Mark Lisota,, Jeanette Lunsford, John Morse, Mary Ann Morse, Kyle Nash, Lisa Nash, Charlene Reidenbach, Matt Rudicil, Chase Siliven, Nicole Siliven, Danny Spurgeon, Dave Straw, Linda Straw

New business

A short business meeting was held to elect 2017 officers. After that, the meeting adjourned for the annual Christmas party and pitch-in dinner.

Officer elections

The slate presented by the nominating committee was accepted with no additional nominations from the floor. New officers are: President, Mark Lisota; Vice-President, John LaMont; Treasurer, Dave Straw; Secretary, Mary Ann Morse.



Grab Bag Assembly
January 5, 6:30 p.m.

goodie bags

You can count on fun times with friends as we fill 150 bags with eight mineral specimens at the January meeting. This is one more task that can be marked off the list prior to the annual gem and mineral show in March, so please plan to attend.

The minerals are already labeled and packaged (thanks to the Tuesday night crew!), so all that is left to do is stuff the bags. With plenty of volunteers and an assembly line set-up, the task should be quickly completed.

The meeting will be held at the club house at 6:30 p.m. Thursday, January 5. See you there!

MEMBERSHIP RENEWAL

EIGGS club memberships are for one calendar year, January through December, so if you haven't renewed, it is time to do so. The club currently has about 97 member and exists for those interested in earth sciences; collecting minerals; crystals; fossils; cutting, grinding, and polishing stones; tumbling stones; etching and carving stones; silver inlay; beadwork; and silver-smithing. The club hosts an annual rock & gem show and awards scholarships to high school seniors and Earlham College students.

Eastern Indiana Gem & Geological Society

Annual Membership Renewal Form

Please check your membership level

Family Membership \$20

Single (age 16 and older) \$15

Name(s) _____

Street Address: _____

City: _____ State: _____ Zip: _____

Home phone: _____ Cell phone: _____

E-mail address: _____

To help with club upkeep & projects, I would like to make an additional donation to the club.
 \$10 \$25 \$50 \$100 Other amount \$ _____

***Please print this form & bring it and your payment to the next club meeting
OR mail the completed form and a check made out to EIGGS to the address below.***

EIGGS Membership • PO Box 1724 • Richmond, IN 47375

CHRISTMAS PARTY: DECEMBER 1



Special thanks to Deb Chagares for taking photos



Kyle Nash, Lisa Nash, Jeanette Lunsford, Erna Jacob, Malessia Bowling



Harris Precht, John Morse, Mary Ann Morse



Danny Spurgeon



Erna Jacob



Dave Straw, Linda Straw



Charlene Reidenbach, John LaMont



Missy Killion, Matt Rudicil



Pam Beneker



Chase Silven, Nicole Silven, Mark Lisota



John LaMont



Susan Kuhlman



VOLCANOES ON VENUS

Seeing volcanoes without being there

by Anna Schonwald, *Earlham College senior*

Venus is the second closest planet to our sun. It has a thick atmosphere which makes the surface of the planet very warm, about 864 F or eight times hotter than the hottest day in August you can remember. It is so hot that the spacecrafts we send there melt! We do know that Venus has a lot of volcanoes, but how do we learn more about them and the surface of this weird hot planet?

Using telescopes that see radio waves, which are just really big light waves, we can look through the clouds and see the surface of Venus without even going there! We do that by bouncing the radio waves off of the surface of Venus, which is called radar. We use radar to look at Earth from space, too, so we can compare the volcanoes on Earth to the ones on Venus.

Why do we want to know about volcanoes on Venus? It's because volcanoes don't always have the same kind of lava. The type of lava coming out of volcanoes is different based on the type of stuff that is in the Earth's center and the rocks the hot lava goes through to get to the surface. This means we can learn about what kind of rocks Venus has, and what the center of Venus is made of without even going there.

We can walk around on Earth and make sure we know what the radar image is showing us. Red radar spots can show vegetation (forests and plants) or shadows or lava flows. Now we can look at the Venus image: there are no forests there, all the trees would burn up. There isn't anything to cast a shadow so we know that these are lava flows like the ones in Hawaii.

Anna Schonwald is a senior geology and physics double major from Barrington, NH. After graduation Anna plans to go to graduate school to study planetary geology, specifically Martian geomorphology.

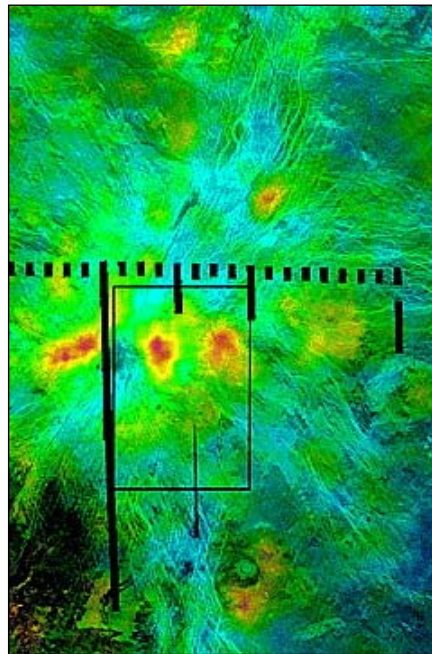


Fig 1: A radar image of Venus

Carter, Lynn M., Campbell, Donald B. and Campbell, Bruce A. "Volcanic Deposits in Shield Fields and Highland Regions on Venus: Surface Properties from Radar Polarimetry." *Journal of Geophysical Research* 111. E6 (2006).

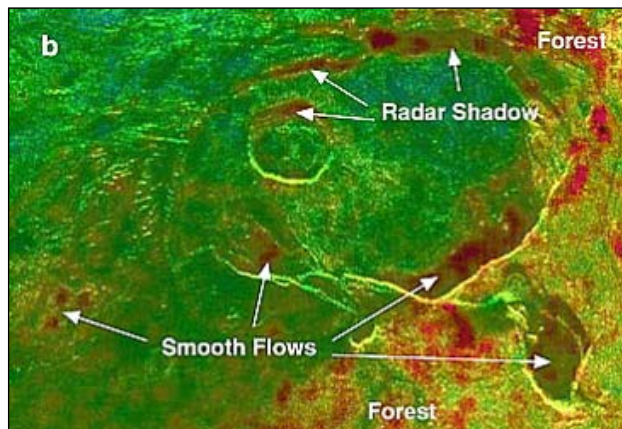


Fig 2: A radar image of a volcano in Hawaii

This is the second in what we hope is a series of short articles from students or staff in the Earlham College Department of Geology.



Julianna Barnes

REMINDER: LAPIDARY LAB USAGE & HOURS

To use equipment you are required to attend at least SIX regular club meetings a year.

Participants must be trained (& re-certified) in proper equipment usage.

There is a \$2 fee per lab session for equipment usage & maintenance.

Please remember to use the sign-in book.

Tuesdays 6-8 p.m.

This lab is perfect for beginners and those with intermediate skill levels since there are experts on hand to teach basic and advanced skills.

Thursdays 6-8 p.m.

The lab is usually open on Thursdays. Call or text Deanna Smith 765-914-4811 or Alma Glisson 937-231-3024 to be sure someone will be there.

Sundays 6-9 p.m.

The lab is sometimes open on Sundays. Call or text Missy Killion in advance to be sure someone will be there. Her number is 765-960-7635



GET READY FOR GEOFEST

15th Annual Indiana State Museum Fossil, Gem & Mineral Show

When: February 17, 18, 19, 2017

Where: Indiana State Museum, Indianapolis

Times: Friday & Saturday: 10 a.m. - 5 p.m.; Sunday: 11 a.m. - 4 p.m.

Admission: Included with museum admission. Adults \$13; seniors (60+) \$12; children (age 3-17) \$8.50; children under 3, free.

Web site: www.indianamuseum.org/

GeoFest "rocks" the Indiana State Museum as experts and vendors from all over the country come to the museum with fossils, rocks, minerals, jewelry and more!

Shop for your own unique geo-treasure and meet experts from throughout Indiana. Explore the museum's natural history galleries, enjoy hands-on geology activities and win geo-prizes.

UPCOMING SHOWS

Feb. 10-12—QUARTZSITE, AZ: Annual show; Quartzsite Gold Show, QIA; 235 N Ironwood; Fri. & Sat. 9 a.m.-4 p.m., Sun. 9 a.m.-3 p.m. Admission \$5, Children free. Sales and demonstrations of gold prospecting equipment, nuggets, jewelry, coins and more. There will also be speakers, demonstrations, questions and answers for metal detectors and other prospecting equipment. Door prizes include gold nuggets and a metal detector. Contact Richard Trusty, PO Box 4051, Quartzsite, AZ 85359; 928-927-5479; e-mail: QuartzsiteAZGold-Show@gmail.com; Web site: quartzsiteazgoldshow.com

Feb. 17-19—INDIANAPOLIS, IN: GeoFest, the 15th Annual Indiana State Museum Fossil, Gem and Mineral Show; Indiana State Museum; 650 West Washington Street; Daily 10 a.m.-5 p.m.; Adults \$13, Seniors \$12, Children \$8.50. Regional clubs, and adult and kid's activities in a beautiful museum building. Contact Peggy Fisherkeller, 650 West Washington Street, Indianapolis, IN 46204. 317-232-7172; e-mail: pfisherkeller@indianamuseum.org; Web site: www.indianamuseum.org

March 17-19—JACKSON, MI: Michigan Gem & Mineral Society annual show. This year's theme: "We Will Rock You." Jackson County Fairgrounds American One Event Center; 200 W. Ganson St.; Fri. 10 a.m.-7 p.m., Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-5 p.m. Adults \$4, Seniors \$2, Students \$1, Children \$1. Many activities for kids; Dealers and demonstrators. Gems, minerals, fossils, beads, jewelry, raffle, exhibits, displays, lapidary supplies, door prize drawings, and 3 days of silent auctions. Contact Sally Hoskin, P.O. Box 633, Michigan Center, MI 49254. 517-522-3396; e-mail: main@mgmsrockclub.com; Web site: <http://mgmsrockclub.com/annual-show.html>

March 31- April 2—INDIANAPOLIS, IN: Treasures of the Earth Gem & Jewelry Show; Indiana State Fairgrounds - Agriculture/Horticulture Building; 1202 East 38th Street; Fri. & Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-5 p.m. Adults \$5 (good all 3 days), Children free under age 16. Jewelry makers,



goldsmiths and silversmiths from all over the U.S. who can reconstruct, repair, design or make original jewelry from customer-selected gems, stones, opals and crystals. Wire wrap, wire sculpture, stone beads, pearls, stone setting, amber, opal, mineral and fossil dealers. Hourly door prizes including a grand prize ring with a precious stone. Contact Van Wimmer - Show Director, 5273 Bradshaw Road, Salem, VA 24153; 540-384-6047; e-mail: vawimmer@verizon.net; Web site: www.toteshows.com

April 8-9—COLUMBUS, OH: Columbus Rock & Mineral Society and Licking County Rock & Mineral Society Annual show; Northland Performing Arts Center; 4411 Tamarack Blvd.; Sat. 10 a.m.-6 p.m., Sun. 11 a.m.-5 p.m.; Adults \$7, Seniors \$6, Students \$3, Children under 6 free; Scouts in uniform and teachers with school ID free. Large education area containing exhibits on rocks, minerals and metals. Stocks of minerals, crystals, geodes, agates, opal, turquoise, jewelry, faceted stones, silver findings, rough cutting material, rhodochrosite, cabochons, fossils, beads and dinosaur bone from all over the world. Demonstrations of cabochon making, sphere making, gem tree construction, gold panning, jewelry soldering and faceting. Credit cards accepted by dealers but cash or check must be used for show admission. Contact Craig Kramer, 628 Sanbridge Circle E, Columbus, OH 43085; 614-436-4511; e-mail: craig.kramer@wowway.com; Web site: <http://www.columbusrockandmineralsociety.org/>

ROAD TRIP: HAMILTON, OHIO, ICE FESTIVAL

Ice Fest to be held January 20 & 21

Held every other year, Ice Fest is Hamilton, Ohio's premier community event and fundraiser. This year's theme is "To Boldly Go Where No One Has Gone Before." It pays tribute to the spirit of exploration with ice sculptures centered around the frontier of exploration, science, and technology, as well as the people who have taken us there over the years.

IceFest is a free event, which offers visitors a winter wonderland filled with ice sculptures, ice carving competitions, hot chocolate and family-fun activities. An estimated 200 blocks and 40 tons of ice are needed for the event; then locally and nationally-based carvers will chisel and create to bring the works of art to life.

For events and times, please search online or on Facebook.



Anhydrite and Gypsum *Indiana's Evaporite Minerals*

Gypsum ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) and anhydrite (CaSO_4) are two related minerals that formed in Indiana during periodic episodes of ancient sea water evaporation in restricted basins. Large deposits of both minerals are located in northwestern and southwestern Indiana. These deposits are commonly associated with dolostone and limestone.

Anhydrite converts to gypsum when exposed to water, which creates a volume increase that destroys any planar features in the beds. The reverse is also possible—anhydrite can be created when gypsum is dehydrated.

Both minerals display vitreous luster and are white in color and streak. The calcium in either mineral may be substituted by small amounts of strontium and barium. But gypsum and anhydrite have differing physical characteristics that can help to identify them. Gypsum is soft and can be scratched with a fingernail. It has four different cleavage surfaces, and its crystals display a variety of forms, the most common being a granular, massive rock known as alabaster. Another type, selenite, is a transparent crystalline material that forms large, well-developed crystals. Aggregates of fibrous gypsum form a variety called satin spar.



satin spar gypsum



bluish anhydrite with calcite

Although associated with gypsum, anhydrite lacks H_2O molecules. Anhydrite closely resembles gypsum in hand samples, but it has three cleavage planes at 90 degree angles. In addition, anhydrite is slightly harder and denser compared with gypsum and may have a bluish tint.

Both gypsum and anhydrite are used as soil additives and in portland cement. Because of its use in drywall manufacturing, gypsum is more economically desirable.



gypsum crystals

HOLIDAY CRAFT SALE: DECEMBER 2-3



Special thanks
to Danny
Spurgeon for
allowing club
members to use
his building in
Centerville



Faithe Jones, Naomi Jones



Deb Chagares



Erna Jacob



Deb Chagares



Mary Ann Morse



Danny Spurgeon



Dave Straw

RAM HOLIDAY ART MART

Five club members featured in annual Art Mart

Holiday Art Mart Richmond Art Museum

now until January 14

Admission: free

350 Hub Etchinson Parkway
Richmond, IN 47374

Phone: (765) 966-0256

Hours: Tuesday-Saturday
10 a.m.-5 p.m.

Five EIGGS club members have work featured in the Richmond Art Museum's Holiday Art Mart. Barbara Kuhlman is selling a pendant, her ceramic sculptures and a variety of ceramic birds' nests. Deb Chagares, Susan Kuhlman, Jan Roestamadji and Joe Wirrig have a selection of pendants, bracelets and earrings in the exhibition.

This is an annual juried event which allows area artists to showcase original works that are no larger than 5"x7", as well as sculpture, ceramics and jewelry.

This annual exhibit is designed to inspire unique gift giving and art collection. All the works on display are \$250 or less. Sales support both the artists and RAM.



pieces by Barbara Kuhlman



pieces by Debra Chagares



pieces by Jan Roestamadji



pieces by Susan Kuhlman



pieces by Joe Wirrig