

DVESScapades

escapades: interesting, stimulating, exciting activities and adventures



DELAWARE VALLEY EARTH SCIENCE SOCIETY NEWSLETTER



> founded in 1956 <

Next Meeting: July 10th, 2013

Program: Amy Carpinelli, Washington Twp. High School Science teacher, Trace Fossils

Hot Weather Note - July and August

If the weather is hot, the meeting will be held in the (air conditioned) basement of the main building.

Location: Education Bldg. behind Centenary United Methodist Church
149 South White Horse Pike, Berlin NJ 08009

Program Schedule

August - Ned Gilmore "New Jersey Fossils & Fossils in the Academy of Natural Sciences Collection"

September - You, DVESS members, Show and Tell

October - Dr. Louis Detofsky, "Geology of the Mediterranean"

October Banquet - Dr. Stephen Okulewicz, topic TBD

November - John Ferrante, "History of Micromounting and the Leidy Microscopical Society"

December - Holiday Party with DVD, gift exchange, Food and elections.

Next year we will have John Sanfacon, Derek Yost and Richard Bostwick returning with some new, wonderful programs to enthrall us. Stay tuned. - Gary

President's Message: By Mark Leipert, President

Phoenixville Mining District Trip, Saturday, June 22nd - Four members and two guests from our club went to the Pickering Valley Golf Club to collect at two of Chester County's historical mine dumps. Those members and guests were: Bob and Sally Todd, Joanne and friend Linda, Mike Mostardi and myself. First, Bob and I went to the Pro Shop to introduce ourselves and let them know we were there to collect from the mine dumps and to get directions as to where each mine dump was located. Then we walked to the Brookdale mine dump which still had the historical furnace stack standing. We found many clusters of quartz crystals and pyromorphite. Other minerals found included galena, hematite, limonite, malachite and possible traces of silver. After several hours of collecting in the sweltering heat we then carried our equipment downstream to the Chester mine dump area. This area was not as prolific as the Brookdale mine dump but we did find some nice pieces. Everyone had a good time and we enjoyed each other's company during the long trip back to the vehicles. A cold water fountain was waiting for us near the top of the hill. Before we left I went back to the Pro Shop and thanked them for allowing us to collect at their golf course. Specimens will be on display at the July meeting.

Big Brook/Raminessin Creek/Shark River Fossil Trip, Saturday, June 29th - We met in the parking lot at PATCO's Woodcrest Station. Six members of the club started the trip hoping that the rain would hold off until later in the day. The six members included: Jim Brennan, Heather Bolton, Sue Vancola, Susan Moore, Vince Franchi and myself. When we arrived at Big Brook Fossil Preserve we found the road lined with many cars. Down at the streambed we found hundreds of people collecting. It turns out that two Boy Scout troops came to collect fossils with families and it was too crowded to stay and collect there. Sue Vancola told us of another location near Raminessin Creek that she had found shark teeth before. At Raminessin Creek we found a couple of dozen shark's teeth of different varieties, worm tubes, pieces of Baculites and possible pieces of bone. We then decided to give Shark River a try being that it was only a short distance away. We went inside the Shark River Park to see what we could find. A place named "Shark River" had to yield a lot of shark's teeth, right? Wrong. We found three shark's teeth, one fish vertebrae and several brachiopods. We need to do some more research before we go back to find out where the best location for collecting. It could have also been the fact that the water levels were way up due to all the rain over the last few days. This was a new place for us. We need to do some homework before we go back.

D.V.E.S.S Summer Picnic: Our annual picnic will be held at the home of **Mr. Gerald Feigan on Sunday, July 14th at 1:00.** The club will provide hamburgers and hot dogs as well as soda and water. Please bring other items such as salads, baked beans, snacks and desserts. Sign up at <http://whosbringingwhat.com/dvess/> to let everyone what you will be bringing to the club picnic. Bring

your bathing suit to go swimming and stay cool in the pool. Directions will be sent out by Gerald by email or given out at the July meeting.

There will be a club auction at the picnic. We will be auctioning off materials from Claire Leap, Len Morgan, and many more surprises. Please bring materials to be auctioned off too.

Saint Clair/Whale Back/Deer Lake Fossil Trip (Schuylkill County), July 27-28 – This is a one day trip. The reason for the two dates is just in case of rain. We plan to go to each location and collect a variety of plant fossils at St. Clair and Whale Back. Whale Back is a new locality for many of us but there is supposed to be plenty of fossil plant material. I was also informed that there has been a lot of activity at the roadside collecting area at Deer Lake lately. Plenty of Devonian fossils including brachiopods, crinoids, pelecypods and bryozoans. Sign-up sheet will be at the July 10th meeting.

Cornwall Iron Furnace Museum and Indian Echo Caverns, Saturday, August 10th – Also open to proposals for a mineral collecting trip. Sign-up sheet will be at the July 10th meeting.



"Unless you catalog your
collection, all you really have is a
box of rocks!"



Minutes of the DVESS General Meeting - By Grant Elliott, Recording Secretary June 12, 2013

Meeting was held at Centenary UM Church in Berlin, NJ.

Attendance: AnnLynne Benson- 1st VP/Special Events Coordinator/Membership, Lou Detofsky- 2nd VP, Gary Weinstein- Treasurer/Program Chair, Grant Elliott- Recording Secretary, Mark Leipert- President/Field Trip Chair, Mil LeCompte- Jr Rockhound Coordinator/ Facilitator, Lance Schnatterly- Cyber Consultant (facebook.com/DVESSNJ), and Susan Moore- Newsletter Editor (aquamarinepaisleyorchid@yahoo.com).

Stu Cleveland, Bob Todd, Evelyn Vickovich, James Lawless, Sue Vancola, in addition to some new members/guests and featured speaker, Phil Betancourt and spouse, were also present.

President Mark Leipert gaveled commencement of the meeting at approximately 7:55pm.

Phil made a presentation on "Agates Around the World"

Mark's notes:

-6/22/2013 Lou's Grand Tour postponed to September or October 2013.

-Sterling Hill Mine Tour will take place on 9/21/2013, not 10/12/2013 as previously amended.

-Big Brook trip is 6/29/2013.

-10/13/2013 Banquet - Membership needs to choose topic for Dr. Steve Okulewicz to present. Menu of topics were circulated amongst those present to denote their choice.

-Executive Board meeting on June 19th will be at Ann's house and Exec on July 17th will be at the Jim Lawless abode in Somerdale (Thanks Jim).

-Sue Vancola announced a Kayak trip- Breezy Point (Calvert County), south of Annapolis, Maryland on 6/15/2013.

Program:

Phil Betancourt presentation as mentioned.

Future Programs:

July 2013 - Amy Carpenelli tentatively scheduled as speaker.

August 2013 - Ned Gilmore on Fossils in New Jersey and at the Academy of Natural Science (Philadelphia).

September 2013 - Membership Show & Tell experiences.

October 2013 - Lou will present a monumental treatise on the archeology and geology of the Mediterranean (Italy, Turkey, and Greece).

Derek Yoost and John Sanfacon in the works.

Special Events/Field Trips:

A number of earth science trips planned to possibly include many of the following (dates and details to follow):

-Whale Back, Deer Lake, and Saint Clair

-Inversand (Opening up April 5th) Mark is continuing to stay close to the principals.

-Cornwall Furnace Museum and Indian Echo Caverns, Wheatly Mine, Ecton Mine, Upper New Street Quarry, Delaware Museum of Natural History, The Mutter Museum, The Prehistoric Museum in Greenwich Township, NJ.

Berlin Baptist Church Board approved usage of their 15-passenger van for some of these events.

Scheduled:

June 29th- Big Brook stream sediment fossil expedition. Sign-up sheet at general meeting.

July 14th – DVESS Summer Picnic at Gerald Feigin's house - Donations from previous years (Clare Leap collection, etc.) will be auctioned

September 21st – Sterling Hill Mine Club Tour

September or October- Lou's Grand (Coastal Geology) Tour – 15 passenger van trip- Sign-up sheet at general meeting.

October 13th – Annual Club Banquet at Mandarin Restaurant- featuring Magician/Geologist/Professor Dr. Steve Okulewicz presentation.

Meeting adjourned at Approximately 9:30pm.

News

Stability of active mantle upwelling revealed by net characteristics of plate tectonics

Clinton P. Conrad, Bernhard Steinberger, & Trond H. Torsvik

According to Clinton Conrad, Associate Professor of Geology at the University of Hawaii -- Manoa's School of Ocean and Earth Science and Technology and colleagues, most large-scale upwelling within Earth's mantle occurs in two places – beneath Africa and the Central Pacific. In an article published in the June 26 issue of *Nature*, these two areas of upwelling have remained relatively stable over an extended period of geologic time. They used the behavior of surface plate motions to identify areas of divergence, which mark the areas of upwelling.

<http://www.nature.com/nature/journal/v498/n7455/full/nature12203.html>

Seismology: Quake catcher

With earthquake death tolls rising, Ross Stein is building a global risk model to mitigate future disasters.

<http://www.nature.com/news/seismology-quake-catcher-1.13216>

Pavlof Volcano From Space

Astronauts aboard the International Space Station (ISS) photographed this striking view of Pavlof Volcano on May 18, 2013. The oblique perspective from the ISS reveals the three dimensional structure of the ash plume, which is often obscured by the top-down view of most remote sensing satellites.

http://www.nasa.gov/multimedia/imagegallery/image_feature_2515.html



"Image courtesy of the Image Science & Analysis Laboratory, NASA Johnson Space Center"

Websites of the Month

Trace Fossil Image Database <http://www.envs.emory.edu/faculty/MARTIN/ichnology/images.htm>

Fossils of New Jersey - Shark Teeth - Big Brook and Surrounding Brooks - Information, Tips, and Fossil Identification <http://www.fossilguy.com/sites/bbrook/>

Big Brook Fossil Identification Page <http://www.njfossils.net/cover.html>

American Federation <http://www.amfed.org/>

Eastern Federation <http://www.amfed.org/efmls/>

Wildacres Fall 2013 workshops <http://efmls-wildacres.org/page5/index.html>

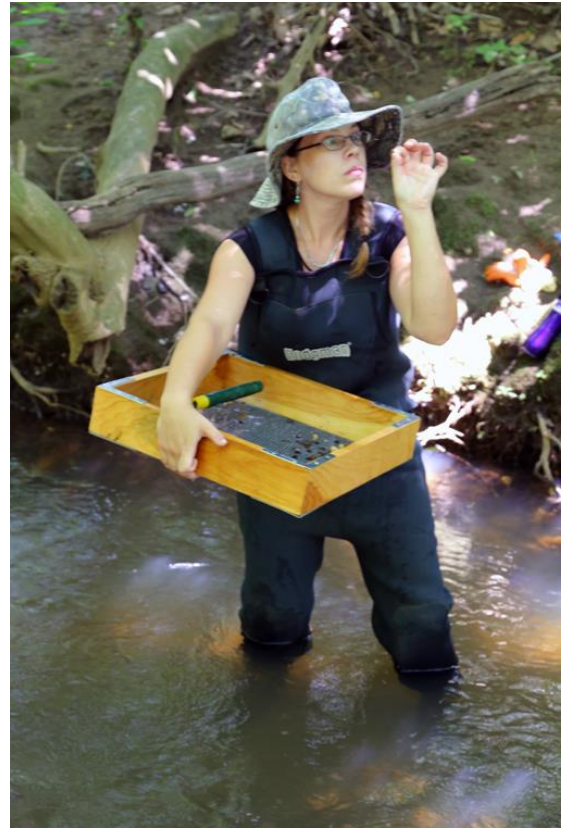
Iron Hill Museum, Newark, DE <http://www.ironhill-museum.org/default.htm>

Field Trip Photos

June 29th trip to Big Brook, Ramanessin Creek, and Shark River

by Jim Brennan





Upcoming Field Trips

July 27/28 – Saint Clair/Whale Back/Deer Lake Fossil Trip (Schuylkill County),

September 21st – Sterling Hill Mine Club Tour

September or October- Lou's Grand (Coastal Geology) Tour – 15 passenger van trip- Sign-up sheet at general meeting.

Shows and Events

July

July 14th - DVESS Summer Picnic at Gerald Feigin's house - Donations from previous years (Clare Leap collection, etc.) will be auctioned

September

September 18th - 22nd - AFMS/SFMS Convention and Show, Heavens and Earth, Jacksonville, FL

<http://www.amfed.org/show2013.htm>

September 21 - Sterling Hill Mine Club Tour (tentatively scheduled)

September 28-29 - 49th Annual Atlantic Coast Gem, Mineral & Jewelry Show hosted by the Gem Cutters Guild of Baltimore. Howard County Fairgrounds, West Friendship, MD.

Looking Ahead

October 13th - Annual Club Banquet at Mandarin Restaurant- featuring Magician/Geologist/Professor Dr. Steve Okulewicz presentation.

October 13-19 – Earth Science Week 2013 promotes awareness of the many exciting uses of maps and mapping technologies in the geosciences. <http://www.earthsciweek.org/>

October 26 - The Rock and Mineral Club of Lower Bucks County, PA presents our Annual "ULTRAVIOLATION" an all Fluorescent Mineral Show, at the First United Methodist Church, 840 Trenton Road, Fairless Hills, PA. Information contact Chuck O'Loughlin: ultraviolation@yahoo.com



Puzzled

There are 13 words hidden below - up, down, across, crossways, or backwards - and 12 of them are listed below. What is the mystery word not listed?

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M T L A R F R E C Z E K K H C
E A R T E U C I N S N X R A O
S S K I L E S C I E E T R V Y
O L U H A S T L Q Y C B I L P
Z D L O A S U B B B O O Z S O
O P Q R E R S K U N E N L E H
I M U Q I C U I I G L A C O I
C J G A Q E A F C B A I M V H
H U N H Q E E T E C P M K I H
Q P X N L R B N E X I R X J F
N A I N O V E D B R R E C G S
X G H U J C X Q D Q C P R R C
V E S E O C A M B R I A N Y O
K Q N E N A R C Q Z V Q K U I
N A I R B M A C E R P Q J N L
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CAMBRIAN

CARBONIFEROUS

CRETACEOUS

DEVONIAN

HOLOCENE

JURASSIC

MESOZOIC

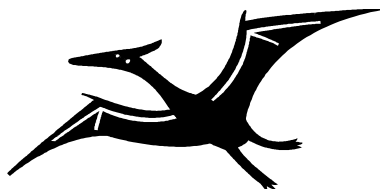
PALEOCENE

PERMIAN

PRECAMBRIAN

SILURIAN

TRIASSIC



Club Brochures

Please pick up one or two yellow club brochures and have them on hand in your vehicle or handbag to give out to folks. If you see a parent and child, strike up a conversation by asking, “Does your child like rocks or dinosaurs?” Offer them a club brochure; if they’re not from our area, addresses and websites for the American Federation are on the back of the brochure. Your small gesture may make a world of difference to that child, his/her family, and to our club.



Quote of the Month

“What are men to rocks and mountains?” *Jane Austen*, *Pride and Prejudice*

“The entire universe has been neatly divided into things to (a) mate with, (b) eat, (c) run away from, and (d) rocks.” *Terry Pratchett*

Membership Information

Regular memberships are entitled to participate in all DVESS activities.

Sponsoring memberships are entitled to the same plus a specially chosen mineral specimen. Dues are renewable each year in January.

Regular Membership:

\$15.00 for the 1st family member + \$5.00 for each family member

\$10.00 for the 1st Senior (65+) member + \$5.00 for each family member

Sponsoring Membership: (each additional family member - \$5.00)

“Silver” \$50.00 for 1st family member – receive a Geode Specimen

“Gold” \$75.00 for 1st family member – receive Mineral Specimen

“Platinum” \$100.00 for 1st family member – receive Premium Specimen



Delaware Valley Earth Science Society Information

The Delaware Valley Earth Science Society, Inc. (DVESS), a non-profit organization, was founded in 1956 and incorporated in the state of New Jersey in 1957. The Society:

- promotes interest in, knowledge of, and the development of skills in the "earth sciences." These interests include mineralogy, paleontology, lapidary arts, archeology, and local preservation.
- supports the conservation of natural resources, advocates the availability of collecting sites, and maintains close contact with those in the academic field.
- is a member club of the Eastern Federation of Mineralogical and Lapidary Societies (<http://www.AmFed.org/EFMLS>)

Delaware Valley Earth Science Society Inc. (DVESS)

P.O. Box 372

Maple Shade, New Jersey 08052

DVESS Website: <http://www.DVESS.org>



To submit an article or photos for publication in the DVESScapades, contact the Newsletter Editor at aquamarinepaisleyorchid@yahoo.com. How about some photos of your prized specimens or latest collecting trip? Share them with us!

