

DVESScapades

escapades: interesting, stimulating, exciting activities and adventures



DELAWARE VALLEY EARTH SCIENCE SOCIETY NEWSLETTER



September 2022



Next Meeting: Wednesday, September 14th, via Zoom

7:00 pm social hour

8:00 pm Program: **Annual Show and Tell** - show off any of your specimens you may have collected over the summer or this year!



President's Message

We will continue having Zoom meetings for the foreseeable future. Our next in person meeting may be for our Christmas Party in December. We need to see if the COVID and flu levels continue to stay down. We will continue taking trips and remain safe too. We continue our summer field trips and are lining up our fall trip schedule now. I'd like everyone think about members that we haven't seen on our regular Zoom meetings. Please reach out, give them a call and let them know you are thinking about them. If you don't have their address or phone number, call me at 856-524-2103.

September 14th Meeting is our "Annual Show and Tell Event": We encourage you to show off any of your specimens you may have collected over the summer or this year.

October 12th Speaker will be Jason Downs, a paleontologist with the Academy of Natural Sciences and Delaware Valley University. Stay tuned to find out what Jason's presentation topic will be.

The "Cape Atlantic Club Mineral Show & Sale": Late summer/early fall Gem & Mineral Show will be September 17th & 18th, 10:00 to 5:00 each day.

Club Annual Picnic on August 28th: I'd like to thank Gerald and Jane for being such fantastic hosts again for our annual picnic. The weather was threatening all day. We lucked out with the exception of a few heavier showers. It was great to see everyone. Gerald gave a guided tour of the arboretum. I tried my hand at being the auctioneer since Gary was away at a show. We raised close to \$250.00 for the club from the auction. Gary might be looking for a new job.

Big Brook Fossil Preserve and Poricy Brook Fossil Bed, August 13th: Eight of our members went to both locations to find Cretaceous fossils. It was a beautiful day after several days in the upper 90s. Everyone came away with a few specimens and used the opportunity to teach others what to look for. It was a great day for grandparents taking their grandchildren out for a new adventure for both. Everyone learned something. We all had a great time.

DVESS Club Project: We are finalizing the sending of a package to the Gem & Mineral Club from Ventura, California containing fluorescent minerals from Franklin and Sterling Hill, NJ. If you have some small specimens (less than 2 inches in diameter) that are fluorescent and you are interested in participating/contributing, please notify Fred Hochkile or myself to make donations. Thanks.

Future Field Trips:

September 10th, 2022: Middleburg National Limestone and Mt Pleasant Mills quarries: We are meeting up at Mt. Pleasant Mills quarry first at 10:00; after collecting for a while we may stop at new Trilobite locality. Right now, the plan is to leave around 7:00 at the Wood Crest Station of the PATCO High Speedline. You will definitely need the hard rock equipment: various weights of mauls and sledge-hammers and chisels. Don't forget hard soled shoes, hard hat, gloves and safety goggles.

September 18th is our club's participation in the **Water Fest Event from 11 am - 4 pm at Scotland Run Park in Clayton, NJ.** This is an opportunity to show others your rocks, minerals and fossils. This is a great one-day event where we can share our knowledge of earth science with the community. It's also an opportunity to recruit new club members.

Saturday, October 22nd: Our annual pilgrimage up to the **Sterling Hill Mining Museum** for our free museum and mine tunnel tour as well as collecting on the mine tailings. Wear hard soled shoes, sweatshirt or light jacket, and bring hammers, chisels, gloves, backpack, snacks and water. You will have some time to collect fluorescent minerals. There is also a possibility to take in the haunted mine tour at night. We will be meeting at the PATCO High Speedline at the Wood Crest Station at 8:30 at Parking Lot 8A.

Mark Leipert, President

Shows and Events

through Jan. 8, 2023 - Jaw Dropping World of Sharks, New Jersey State Museum, Trenton. Sharks and their relatives share a 400-million-year history and have a diverse family tree. They inhabit the world's oceans, rivers and estuaries evoking fear and mystery. But much this fear comes from a lack of understanding about sharks and their habitats. This exhibition dispels some of the myths and misunderstandings about sharks and their relatives by exploring their biology, fossil record, conservation and cultural significance. Specimens and artifacts from the New Jersey State Museum collections will be on display to demonstrate the truly jaw-dropping world of sharks!

September 23-25 – EFMLS Annual Convention sponsored by the Central Pennsylvania Rock and Mineral Club, Harrisburg, PA.

October 8 - 9, 2022 - 5th Annual South Jersey Gem, Jewelry, Mineral & Fossil Show, 1721 Springdale Road, Cherry Hill, NJ 08054. Show Times: Saturday (10/8/22) 10:00 am - 6:00 pm & Sunday (10/9/22) 10:00am - 4:00 pm. www.sjmineralshow.com
Facebook: www.facebook.com/sjmineralshow

October 8 - 2022 Mineral Treasures Outdoor Show 10 am to 6 pm. Location: Picnic Grove at St. Michael's Byzantine Church, 203 Jacobs St., Mont Clare, PA 19453. Admission \$5 adult; under 13 and all scouts in uniform free. Minerals, fossils, gems, crystals, and jewelry from all over the world, as well as books, decorative items, and other merchandise for sale, with over 30 vendors under the pavilion and on the picnic grounds. Free parking. Kids' activities & free mineral specimens. Snack bar. Picnic tables on site -- bring your own picnic. Indoor restrooms. Information: www.phillyrocks.org. Contact: Cheryl Leibold: cleibold@verizon.net

November 12-13, 2022: Symposium on Pennsylvania Mineralogy and Geology, by Friends of Mineralogy – Pennsylvania Chapter. Saturday: Symposium at Bright Side Opportunities Center, 515 Hershey Ave., Lancaster, PA 17603. Talks by knowledgeable speakers; sales; silent auction; giveaway table. Sunday: field trip to Mount Pleasant Mills, open only to symposium registrants. Please register in advance. See <https://www.rasloto.com/FM/>

Poricy Brook and Big Brook field trip, August 13th



Poricy Brook Fossil Beds

Welcome to the Poricy Park Fossil Beds. Beyond the sign, the path leads to Poricy Brook, whose channel consists of many layers of ancient sediments. One of these layers, the Navesink Formation, has been found to contain fossils from the Cretaceous Period, in the Mesozoic Era. The public is welcome to explore this site, but we ask that you be responsible in order to preserve this wonderful heritage.

As you start to identify the different fossils that are found in the brook, you may realize that these remains are very similar to the creatures you find in and around today's New Jersey shore. This is because, 72 million years ago, this area lay beneath a shallow sea. When the creatures of this Cretaceous sea died, their bodies sank to the bottom and were covered with layers upon layers of sediment from the eroding land. The hard parts of these organisms were preserved beneath these layers and lay there for millions of years.

Today, the sea has receded a few miles to the east, but Poricy Brook has carved into these ancient layers and has shown us a glimpse of what this past environment must have been like. The preserved body parts of the long dead creatures can be found in the water in the form of molds, casts, imprints, or even the actual parts. They offer an amazing glimpse into the past and serve as a "time machine" into a strange and wondrous time.

The stream is working for you. **WARNING:** Do not dig into the banks. This may cause damage to fossils or equipment, and result in irreversible erosion. Many of the best fossils can be found in the bottom of the stream bed due to the stream's patience and hard work. Enjoy your trip into another time!



PYCNODONTE CONVEXA

SHARK TEETH



SNAILS



BELEMNITE



AGEROSTREA



BRACHIOPOD



EXOGYRA COSTATA







DVESS Picnic August 28th











Earth Impact Effects Program

Robert Marcus, H. Jay Melosh, and Gareth Collins

The Earth Impact Effects Program is an easy-to-use, interactive web site for estimating the regional environmental consequences of an impact on Earth. This program will estimate the ejecta distribution, ground shaking, atmospheric blast wave, and thermal effects of an impact as well as the size of the crater produced.

<https://impact.ese.ic.ac.uk/ImpactEarth/ImpactEffects/>

News

Impact crater may be dinosaur killer's baby cousin

<https://www.bbc.com/news/science-environment-62575581>

Ginormous Jurassic fossil in Portugal may be the biggest dinosaur ever found in Europe

<https://www.livescience.com/largest-european-dinosaur-discovered>



Quote of the Month:

It isn't the mountain ahead that wears you out; it's the grain of sand in your shoe.

- Robert W. Service

DVESS Directory for 2022

<u>Officers</u>	<u>Committee Chairs</u>
<p>President: Mark Leipert 856-524-2103 mark.leipert@yahoo.com</p> <p>Vice President: Jimmy Burlage james.burlage@outlook.com</p> <p>Secretary: Cathy Eskew ceskew5@gmail.com</p> <p>Treasurer: James Brennan 610-322-1540 brenimage@hotmail.com</p>	<p>Junior Rockhounds Chair:</p> <p>Millard LeCompte 609-458-7763 WorksInFaith08009@gmail.com</p> <p>Field Trips: Mark Leipert</p> <p>Co-Field Trips: Ed & Alice Houseal alicehouseal@verizon.net</p> <p>Membership: James Brennan</p>
<p><u>Newsletter</u></p> <p>Editor: Susan Moore aquamarinepaisleyorchid@yahoo.com</p>	<p><u>Other Information:</u></p> <p><u>Website: www.DVESS.org</u></p> <p><u>Facebook: <i>DVESSNJ – Amy Simpson</i></u></p>



Membership Information

Regular memberships are entitled to participate in all DVESS activities.

Regular Membership:

\$20.00 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

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)

Delaware Valley Earth Science Society

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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.

