

DVESScapades

escapades: interesting, stimulating, exciting activities and adventures



DELAWARE VALLEY EARTH SCIENCE SOCIETY NEWSLETTER



August 2020



Next Meeting: Wednesday, August 12th, via Zoom

7:00 pm social hour

8:00 pm Program: **Cathy Eskew will share her exciting adventures with us with her presentation called "Places Where I Have Been and Things I Have Found"**

Upcoming programs:

September 9th: **Dr. Robert Kamilli (via Zoom from Arizona) will give us a presentation on his work with the US Geological Survey in Saudi Arabia**

All in-person meetings and field trips are cancelled until further notice.

**Meeting location: Education Bldg. behind Centenary United Methodist Church,
South White Horse Pike, Berlin NJ 08009**

President's Corner:

I hope everyone is doing well hunkered down, avoiding/fighting the COVID-19 virus. All meetings and field trips continue to be cancelled until further notice. While sheltered-in-place, take a field trip into your basement, closet, garage or secret stash area and look through many of the items you've collected over the years. You might surprise yourself and find something you didn't know you had. Also, if you have duplicates or extras, think about bringing them to a future meeting for the junior rock hounds or the give-away table. This is a great time to continue cleaning out your collections and even possibly downsizing and being more selective in specimens you hold onto. Maybe if you're ambitious, you could research some places you would like the club to go on field trips once we are let free from our shelter-in-place. Feel free to email, text or call myself or any officer with your recommendations. Meanwhile, until we meet again, please stay safe, practice social distancing, wash your hands frequently, use hand sanitizer, disinfect surfaces and wear some type of face mask when you go out.

We held our very first Zoom meeting last month. Our guest speaker was our very own Terry Wilson, who talked about her trip to Middle Fork Davis Creek, CA. She had visited three sites while up there: Pink Lady Mine, Needles Pit and Rainbow Mine. She shared her blue, green, purple, electric blue, silver sheen and the rainbow obsidian. Terry is also a member of the Ventura Gem & Mineral Club. Please share with us what you thought of our first Zoom meeting. None of us are experts in working with the software but we are getting better every day. We will probably be continuing into the Fall and beyond using Zoom as our vehicle to hold meetings.

This month's Zoom meeting will be Wednesday, August 12 at 7:00. We will have a twenty minute or so social time then some club business and then our very own Cathy Eskew will share her exciting adventures with us with her presentation called "Places Where I Have Been and Things I Have Found." Cathy is one of our newer members and has been a volunteer at the Edelman Fossil Park for years.

The Super Diggg that was possibly going to be re-scheduled for the Fall of 2020 is not going to happen. There are too many issues up in the air with COVID-19, rebounding, possibly slowing down opening up, new hot spots, upcoming flu season and potentially a vaccine. So, right now we are setting our sights on Super Diggg Spring 2021. This gives us more time to get organized, gather up more volunteers and get the Franklin



Mineral Museum promoting this event on their website and social media. I have also been notified that there will be a cost per pound increase for the material you collect.

One thing I've been doing besides looking at old specimens, labeling specimens, talking to old members and telling and listening to old stories was to go back and read a lot of our old DVESS newsletters. There is a lot of history, write-ups of field trips, mentioning of guest speakers, the old picking table, and plenty of good old science like geology and paleontology. I started digging out some select articles and sharing them as part of our current newsletter. It's important share some of our club's highlights over the last 64 years. Next year we will be celebrating our 65th Anniversary.

Special thanks to the following members who helped clean out our Club's storage space in the 95 degree plus heat index on July 24th: Amy Simpson and friend Row, Fred Hochkile and myself. Most of the materials are temporarily stored at Amy's but you will be able to bid on the materials soon. Thank you Amy.

The club received a donation of rocks, fossils and reference materials for the Junior Rockhounds from Mr. Stephen Stambaugh. Many thanks; I'm sure they will enjoy using the material.

Mark Leipert, President



Quote of the Month:

In the year 1456 ... a Comet was seen passing Retrograde between the Earth and the sun... Hence I dare venture to foretell, that it will return again in the year 1758." — [Edmond Halley](#)

News



Miner who discovered the largest tanzanite gems ever has now found a third - and it's worth millions

<https://www.usatoday.com/story/news/world/2020/08/04/tanzania-n-miner-another-discovers-tanzanite-gem/3288790001/>

Iceland's most active volcano is likely headed for another eruption

<https://phys.org/news/2020-08-iceland-volcano-eruption.html>

Residents cut off by volcano say more road openings needed

Residents who lost access to their properties in the Kilauea volcanic eruption say the county needs to expand a road restoration plan.

<https://www.hawaiinewsnow.com/2020/08/05/residents-cut-off-by-volcano-say-more-road-openings-needed/>

Tenerife fears: How La Palma volcano eruption could trigger mega-tsunami

<https://www.express.co.uk/news/science/1318936/tenerife-fears-la-palma-cumbre-vieja-volcano-canary-islands-mega-tsunami-atlantic-spt>



Photos - Picnics from Years Past

by Jim Brennan and Susan Moore





From the DVESS newsletter for January 1971 by Helena Morgan

FOUND -- A DINOSAUR IN HADDONFIELD

Years ago, in 1838, John Estaugh Hopkins was selling marl to farmers for fertilizer. Hopkins lived at Birdwood. One of his workmen digging in the marl pit, located at the end of Narberth Avenue, discovered some strange bones. No one seemed to know what they were. They were black in color and very heavy. Mr. Hopkins gave away several of these objects among his friends, keeping a few large ones himself, which in time ended in his attic.

Twenty years later in the summer of 1858 Mr. William Parker Foulke, of the Academy of Natural Sciences in Philadelphia, was a guest at the Hopkins home. Because he was a paleontologist Mr. Hopkins recounted the finding of the bones and, after a lengthy search, produced one or two. Mr. Foulke was quite excited over the fossils and was given permission to dig for more on the Hopkins land.

The old excavation was difficult to locate because it had been overgrown with grass and shrubs. However, with the help of some experienced marl diggers a pile of heavy bones was found about ten feet deep.

It was necessary to be very careful unearthing these objects. The marl clung to the bones making them heavy and cumbersome. Sketches were made showing the position of each bone as it was removed, also some measurements were taken in case of breakage through handling. "Each bone was separately transferred to a board, and thus carried from the pit and then wrapped in a piece of coarse cloth. Thus enveloped it was laid upon a thick bed of straws in the bottom of a cart; and the whole was safely transported in this way to Mr. Foulke's residence." (From the minutes of the Academy of Natural Sciences)

Mr. Foulke informed Dr. Joseph Leidy, Curator of the Academy of Natural Sciences and Mr. Isaac Lea, who made a visit to the excavation and suggested further digging through the month of October. Several teeth and pieces of jawbone were thus discovered.

After much study Dr. Leidy declared that the bones from the marl pit were those of a huge plant eating lizard. It seemed related to the extinct Iguanodon of the Wealden and Lower Greensand deposits of Europe. The genus is different, however, so the name Hadrosaurus was suggested.

Probably the Hadrosaurus was amphibious. The bones excavated showed the animal to be twenty-five feet long, twelve to fifteen feet high and one hundred million years old.

In honor of Dr. Foulke's labors and the contribution to history and science the creature was named "HADROSAURUS FOULKII." It was presented to the Academy of Natural Sciences by Dr. Foulke in 1858 and the bones may be seen there at 19th & Parkway, Philadelphia. A plaster replica has been made and is on view in the State House at Trenton, N. J.

Source - "Haddonfield's Prehistoric Monster" by Elizabeth Hopkins Lenhart in "THIS IS HADDONFIELD" 1963
Condensed by Helena J. Morgan

FLUORESCENT MINERALS

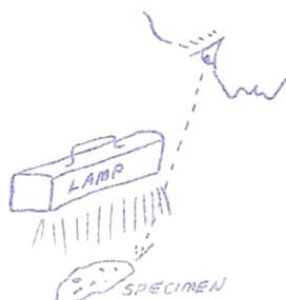
THE USE OF SHORT and LONG WAVE ULTRAVIOLET LIGHT IN DETECTING MINERALS IN
FRANKLIN - OGDENSBURG, SUSSEX COUNTY, NEW JERSEY ORE AND ROCKS.

A. P. Kinshaw

Mineral collectors have always been fascinated with the phosphorescence and fluorescence of minerals. New Jersey has been termed "The Rainbow Capital of the World" by writers of mineral books for the simple reason that so many minerals from the Franklin - Ogdensburg area are capable of being excited by the photon energy of Short and Long Wave Ultraviolet light.

With so many youngsters and adults now interested in collecting and exhibiting these type minerals, they quite naturally purchase the Ultraviolet lamps. The writer feels that some word of caution is now in order. Long Wave Ultraviolet light is practically harmless to the eyes even when looking at it for long periods of time, however, this is not recommended. SHORT WAVE ULTRAVIOLET light on the other hand is definitely injurious to the eyes and one should never look directly at the light for more than a few seconds. Oh yes, some people say they can look at it for minutes without any harm. Well that is like someone saying they can look directly into a bright sun without feeling any effects. Everybody's eyes are not all alike. You could be blinded either way. Short Wave light, whether it be produced by sun; a welders arc; a bare quartz lamp or by the commercial Short Wave Lamp, can produce conjunctivitis, reddening of the eyes and feel as if someone threw sand in your eyes. If you experience this, consult a doctor right away, not two days later.

This article is not intended to scare one into purchasing a mineral lamp. The lamp is harmless if used correctly.



Long Wave Ultraviolet lights are cheap to construct~ all you need is a Blacklight tube of 15 watts, a ballast, a switch and a housing of wood or sheetmetal and aluminum foil for a reflector.

Short Wave lights are expensive to make and it does not pay to attempt making one yourself even if you are an engineer or a Mr. Do-it-all. Several of us made one some years ago and the parts alone nearly cost us what a manufactured lamp would have cost.

Members of the Delaware Valley Earth Science Society have been fortunate enough to obtain some of the fluorescent minerals from the "Prize Table" and will be able to do so at future meetings. Some members have excellent displays. Some artists have used pulverized fluorescent rocks to create pictures in fluorescent light. One person has used these rocks and minerals to face his fireplace and it gives a spectacular show in the living room with all lights out except the Ultraviolet lights hidden in the ceiling. Many artistic things can be made from fluorescent minerals.

From the DVESS newsletter for April 1973 by Robert Bartoz, Jr.

WORD SEARCH for FUN

Master Robert Bartoz Jr. thought it was about time the readers have a bit of fun with word puzzles and I agree. In the following puzzles you will find many different words dealing with Rock Collecting. See if you can find the words listed alongside of the puzzle. The letters can be written either forward or backward, up or down or even diagonally. the letters can be used for more than one word, and words can overlap each other, but you will not use every letter in the entire puzzle.

IT'S A GEM — ROCK HUNTING

YPERIDOTREAGAR
LBRADONKAQDSTP
TYUTANYIUULAPO
RTRROIOAUExAJT
ASAEMMMNTYZXS
IAXOBACCASNAAY
DLZURETOAIOPTH
ONZUIOSSPNGDONT
NINZDAPJASUTUE
EETOAHXRRTNV
RSOAILLYMAPOTA
ELIRJZSANYTYND
BNEOCALIHORXLE
MRKOUISTPSDAL
APRUNQMPTARRRA
TAVEQURGEELJAP
LZAUUUOUMRGNES
NONGARNETOTIAPA

Amber
Amethyst
Aquamarine
Beryl
Bloodstone
Coral
Diamond
Emerald
Garnet
Jade
Jasper
Lapis Lazuli

Moonstone
Onyx
Opal
Pearl
Peridot
Ruby
Sapphire
Sardonyx
Topaz
Tourmaline
Turquoise

EVMLZSEDIMENTARY
TRAPROCKHOUNDP
AORYDIMHTOKVAOGA
LUBRILAMINATELZP
SGLIALORESVSAIMI
SHETMRUZKTTTPBSID
UDDEOYESLOOHRHNA
OIOGNBNSTNDELIER
EAEGDCCOPEPNKNRY
NMGNT HUNDEREGSS
GOVDOOZTEECMLKPE
INSROTOKQMCITIT
SDLITPSTLUCLMRCA
LAAFHRGQHAAFAEK
ICRTEJRN SKRFHNA
SIEDDPTKAIPETCCT
SLNBSLABSNDABZNA
OIIUAPNGLXIDREVR
FSMKWZINCMJTUVDT
SDOOWDEIFIRTEPKS

AGATES
BASALT
CHALCEDONY
CHERT
CUT QUARTZ
DEFEET
DIAMOND
DIAMOND TOOTH SAW
DIGS
DOG TOOTH SPAR
DRIFT
FINDERS KEEPERS
FOSSILS
GEM
GEMME

GRANITE
GYPSUM
IGNEOUS
JET
LAME BEDS
LAPIDARY SET
LUSTER
MARBLE
MICA
MINERALS
MINERS PICK
MOONSTONE
OPAL
ORES

PETRIFIED WOODS
POLISHING
PUDDING STONE
PYRITE
ROCK SPECIMEN
ROCK
ROCKHOUND
ROUGH DIAMOND
SARDS
SCHIST
SEDIMENTARY
SLICA
SLABS
SLATE

SOIL
SPHENE
STONE
STRATA
TAP
THUNDER EGGS
TOPH
TRAP ROCKS
ZINC

DVESS Directory for 2020

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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)

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To submit an article or photos for publication in the DVESScapades, contact the Newsletter Editor at aquamarinepaisleyorchid@yahoo.com.

