

DVESScapades

escapades: interesting, stimulating, exciting activities and adventures



Delaware Valley Earth Science Society Newsletter



Program: July 14 Karenne Snow, NJ Geology

President's Message-

by Grant Elliott

Well, finally, the dog days of summer are upon us. Karenne Snow will regale us this month on the Geology of New Jersey at the general meeting on July 14th.

The picnic and auction will take place at Gerald Feigin's home/swimming pool estate on July 18th. Bring a swim suit, sun screen, an appetite, a guest or two, and lots of money. You cannot afford to miss out on the treasured goodies Gary will be bringing. See you there

PICNIC and AUCTION: Gerald Feigin has confirmed July 18th at his home/swim club estate.

BANQUET: Event to take place on October 24th at the Mandarin Buffet in Cherry Hill. Henry

Kennedy will present at our fall banquet regarding cats-eye and other wondrous gems. OTHER

BUSINESS: The Junior RockHounds and others are devouring the refreshments at the general meetings. It was suggested that a refreshment monetary contribution cup be present at the refreshment table.

From Grant our intrepid internet surfer Documentary on Australian Amber:

<http://www.abc.net.au/catalyst/stories/2929744.htm>

From Grant June 22, 2010 to Ms. Carolyn Weinberger
Dear Carolyn,

The officers and membership of the Delaware Valley Earth Science Society wish to extend their sincere thanks regarding your efforts and that of the Harvey Cantor family to repatriate the DVESS micromounts from Harvey's estate.

The micromounts will be used to bolster DVESS earth science objectives and educational programs. Thank You again for your efforts and the generosity of the Cantor family.

Very Truly Yours, Grant Elliott, President Delaware Valley Earth Science Society
cc: Gary Weinstein

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Minutes of Our March Jr Rockhouser Meeting:

There were 5 children at the June meeting. The discussion and hand out material were on the plant and animal life of the Cambrian Period. The July meeting will be continuing with this period, viewing 15 fossils and building a Trilobite and a "sea monster".

If time permits we will start discussing the Ordovician Period.

Mil LeCompte, our Jr Rockhouser Coordinator He can be reached at (856)783-0960 Or RocksAndBadges@yahoo.com

June 9, 2010 General Meeting By Grant Elliott, President and Substitute Recording Secretary

Meeting was held at Centenary United Methodist Church in Berlin, NJ.

Since our Recording Secretary continues to be in absentia, the President again served as surrogate author on the proceedings.

Officers and staff present were Ann Lynne Benson - Special Events Coordinator, Gary Weinstein - Treasurer/ Programs, Grant Elliot t- President, Mel LeCompte - Jr Rockhound Coordinator with 6 Jr Rock's, Terry Wilson - Website Coordinator, and Carol DeCuzzi - Newsletter Editor/ Membership Chair. Other esteemed members and guests attending included Carol's husband Peter, among several others.

Meeting was called to order at 8:10pm.

After the Junior Rockhounds settled in, the NOVA video program titled *Mystery of the Megavolcano* was presented. This video provoked some lively discussion and good questions, once the lights came back on.

The door prize winners were Junior Rockhound, Josh Liss and guest, Janice Rucker.

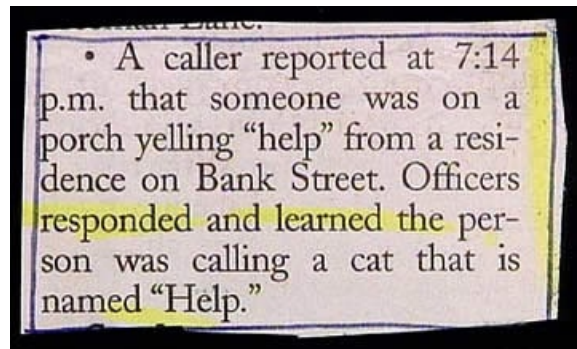
Karrene Snow will be our speaker in July (The geology of New Jersey) and possibly John Sanfacon in August. Show and Tell will take place in September.

The annual picnic is scheduled for either July 18th or July 25th at Gerald Feigin's house.

Meeting concluded at 9:20pm, after which Gary, Grant, Ann, and Terry repasted at the Berlin Diner.

From our sister club the **DVPS at the Academy of Natural sciences, Phila**, some sad news, many of our 'more seasoned members' will remember Ed Charlesworth. " I am sad to report that long-time DVPS member **Ed Charlesworth** passed away on May 10 at the age of 98. Ed was quite an inspiration as he actively collected fossils well into his nineties! And this was no casual surface collecting. Ed was a "hard-rock" man and to him collecting meant cracking rocks. He didn't do a lot of talking, never bragged of his finds; he just quietly went about his business and worked very hard. Through the years Ed also donated lots of material to the DVPS sales table to benefit the Society. He will be missed and remembered fondly."

Another internet find from our esteemed leader for your amusement.



Article copied from the AFMS club Newsletter for all of our edification - the report from the American Federation of Mineralogical Societies Conservation and Legislation Committee for publication in the AFMS Newsletters. It is very important to keep our members informed of the changes that are taking place in all of the Regional Federations and also at the National level. These changes will have an impact on our ability to collect rocks, minerals and fossils on public lands. Stay informed and check with the responsible Land Management Office before collecting on public lands to be on the safe side.

Here is John's report to the Southwest Federation MS Board of Directors. May 1, 2010

At present National Forest Service area managers and supervisory personnel are still working to revise policies regarding recreational activities in National forests with many aspects being reviewed and modified. Expanded, more detailed policies are expected to be published and placed into effect in a few areas later this year, but in many areas it may require several years. According to published accounts by the Forest Service, "In the interim, the current rockhounding policy will remain in place", i.e.:

- (1) ***Recreational Rockhounding may take place at areas where minerals are loose and free on the surface, and the activity is not restricted by permit or in an area designated as closed for this activity. Mineral collection must be with non-mechanical equipment and result in no significant ground or stream disturbance.***
- (2) ***Recreational Gold Panning is allowed where minerals are in federal ownership, using non-mechanized equipment, where no ground disturbance takes place, and where streams are not designated as closed to this activity.***
- (3) ***Metal detectors may only be used with clearance from the area forest manager.***

NOTE: Arrow heads, stone tools, and chips left from making them are considered "antiques" and covered under sub-paragraphs (g) & (h), 36 C, Code of Federal Regulations - Title 36: Parks, Forests, and Public Property (December, 2005), Chapter II – Forest Service, Department of Agriculture, Part 261 – Prohibitions, Subpart a - General Prohibitions, and the Antiquities Act of 1906.

The Paleontological Resources Preservation Act is now law and while it only protects and prevents the collecting of "vertebrate fossils" on federal lands, be aware that most Forest Service law enforcement officers do not know or care about the difference in fossils. You should also be aware that in many areas of the country vertebrate fossils are protected by state laws and collecting them even on private property is prohibited.

In most areas Forest Service managers leave the issuing of citations up to the discretion of law enforcement officers and let the courts determine innocence or guilt. (**PS: Federal judges find in favor of federal law enforcement officer 95% of the time.**)

This space blank - waiting for your article.

Safety First – And Last

by Jim Doran, EFMLS Safety

How many of us go collecting without letting someone know where we'll be? Not bringing a cell phone for emergencies? Collecting alone?

If we are guilty of even one of the items above, there is a high probability that this collecting trip may end very badly. Why risk serious injury or even worse?

How difficult is it to let someone know where you'll be in case something serious does happen?

Today, there's no excuse for not bringing a cell phone with you when you go collecting.

It may end up being the difference between a good trip or a very bad trip for you or your collecting partner. How would rescue people get to you if you can't contact them or someone who could contact them for you? You should never collect alone. Yes, I realize that many of us have done so. If nothing happened, then we should consider ourselves very lucky.

What if the odds finally catch up to you and you get hurt or injured?

Not a pleasant scenario to consider is it? Nor would it be pleasant for family or loved ones? Let's make sure that all our collecting trips are successful and safe!!

(from EFMLS News June/July 2010)

Dig this from the DVPS June Newsletter page 5

World's Oldest Fig Wasp Fossil Proves That If It Works, Don't Change It

ScienceDaily.com (June 15, 2010) — The world's oldest known example of a fig wasp has been found on the Isle of Wight. The fossil wasp is almost identical to the modern species, proving that this tiny but specialized insect has remained virtually unchanged for over 34 million years.

The fossil isn't a new find but was wrongly identified as an ant when it was first discovered in the 1920s. Fig wasp expert at the University of Leeds, Dr. Steve Compton, was called in to study the fossil when the late Dr. Mikhail Kozlov spotted the mistake during research at the Natural History Museum, London into the flora and fauna of the Isle of Wight. The findings of Dr. Compton and the team are published in the Royal Society journal *Biology Letters*.

"There were three very well-preserved specimens and we were able to use modern techniques to look at them in detail," says Dr. Compton. "What makes this fossil fascinating is not just its age, but that it is so similar to the modern species. This means that the complex relationship that exists today between the fig wasps and their host trees developed more than 34 million years ago and has remained unchanged since then."

Fig wasps and fig trees are mutually dependent, with each of the 800 or so modern species of tree pollinated by just one or two species of fig wasp that ignore other fig trees. The wasps -- which measure just 1.5 mm in length -- have developed a particular body shape and features to enable them to crawl into figs to reach the flowers there.

Using state of the art microscopy facilities at the Museum, Dr. Compton's team compared the fossils with modern fig wasps and with an example in Dominican amber dated to 20 million years, which he had bought over the internet and has since donated to the Museum. Their findings show that both fossil insects had the same body shape and features as modern species.

Because fig wasp larvae do better if they feed within a pollinated flower, the most highly developed species of wasps actively pollinate the figs before laying their eggs, rather than passively spreading pollen as they move between trees. The wasps collect pollen in pockets on the underside of their bodies and then take it to another tree, where they pull it out and spread in on the flowers before laying their eggs.

The team found pollen pockets on the underside of the fossil wasp and the wasp in amber and, using scanning electron microscopy, identified grains of fig pollen within the pockets. This proves that active

pollination was already achieved over 34 million years ago and has remained unchanged to this day.

The edible figs we eat today are produced on specialized female plants that trick the wasps into entering the figs and strip off their wings, but then prevent them from laying any eggs. As a result, the figs produce only seeds and no wasp offspring. The length of the ovipositor -- the organ the wasp uses to lay its eggs -- of the Isle of White fig wasp shows that its host fig tree had already evolved this method of cheating on its partner.

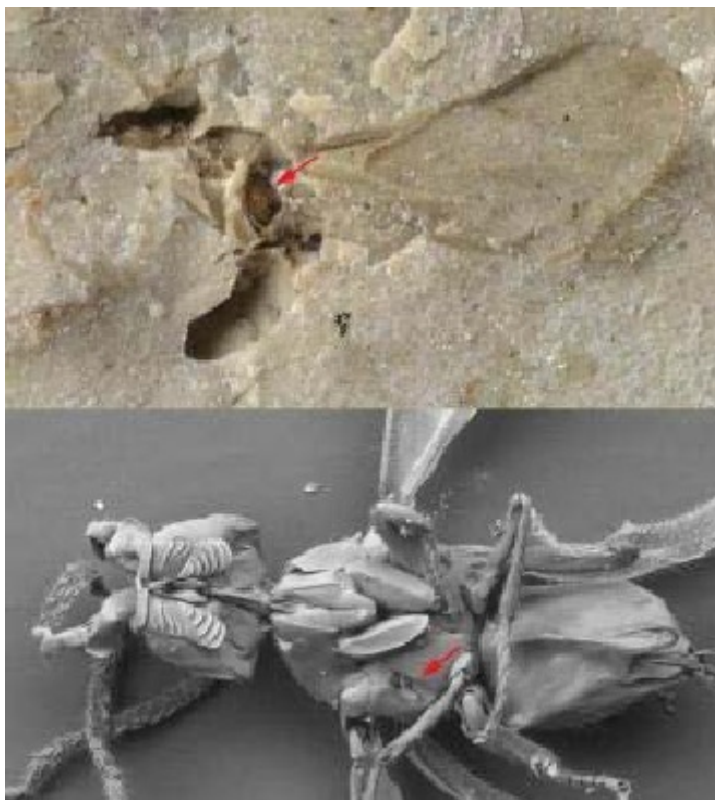
"We believe from molecular evidence that fig wasps and fig trees have been evolving together for over 60 million years," says Dr. Compton.

One of the major changes the fig and its wasp will have had to face -- beyond obvious climatic differences that mean fig trees are no longer native to the Isle of Wight -- is the range of animals that eat the fruit and spread its seeds. Figs are a major source of food in tropical forests and more birds and mammals feed on figs than on any other fruit -- so it's reassuring to know that these plants and their pollinators have responded successfully to previous episodes of climate change.

Exercise? Absolutely! by Don Monroe, SFMS Safety Chair from Lodestar, February 2010

Almost every newspaper or magazine or television advertisement extols the virtues of exercise and usually tries to sell you some sort of equipment. Now the equipment is probably not all bad but may not be necessary. Many forms of exercise such as walking or swimming may be accomplished without any significant investment.

Who really needs to exercise? Basically all of us need to exercise but it takes a lot of commitment to do enough. Think about young children. If we can keep them off the couch and out from in front of the television,



Top: 34-million year old fig wasp fossil which was mistaken for an ant when first described in the 1920s. The pocket where the pollen is stored has been arrowed.

Bottom: Scanning electron micrograph of a modern fig wasp. The pocket where the pollen is stored has been arrowed. (Credit: Images copy-right Natural History Museum, London)

they can burn up a lot of energy and hopefully not do too much damage around the house. It often takes a lot of imagination to challenge little ones.

To get pre-teens to exercise, is often more of a challenge because they often have a short attention span and you may need to constantly come up with new ideas or different games. All of you who have dealt with grandchildren are probably aware of just what it takes to keep them doing new and different things. Teenagers present the same issues but just more of them.

As you look through this article you begin to see a pattern. As the participants get older, the job gets more difficult. Well you haven't seen anything yet. Just wait

until we get to adults and, even worse, senior citizens. Many of us have been in a situation where we had to amuse our parents. Mercy, can they be demanding! They often have the attention span of a child but are quite comfortable telling us what to do and how to do it. Do I have any answers? I am not sure that I do, but I will, however, make the following suggestions:

- Collect puzzles appropriate to the various age groups.
- Look for games. Most game boxes will tell you what age group may be the best.
- Collect crayons, pens, pencils and paper.

- Collect decks of cards and a copy of Hoyles rules. Years ago we discovered that our entire family (about a dozen of us) really enjoyed rummy and canasta. Try dominos. There are some new ones on the market. Last but not least you may want to pray for dry weather. Even a large house seems small on a rainy day.



(From AFMS newsletter)

At the **Big Digg** some of our **WINNERS** disappeared without picking up their prizes !!!!!
Alex Laughlin - a small lamp, **Melody Apple** - a UV Kit, **Joanne Cermele** - UV Kit, **Aiden Kolakouski** - a small lamp. If you will please contact the treasure, we will try to remedy the situation.

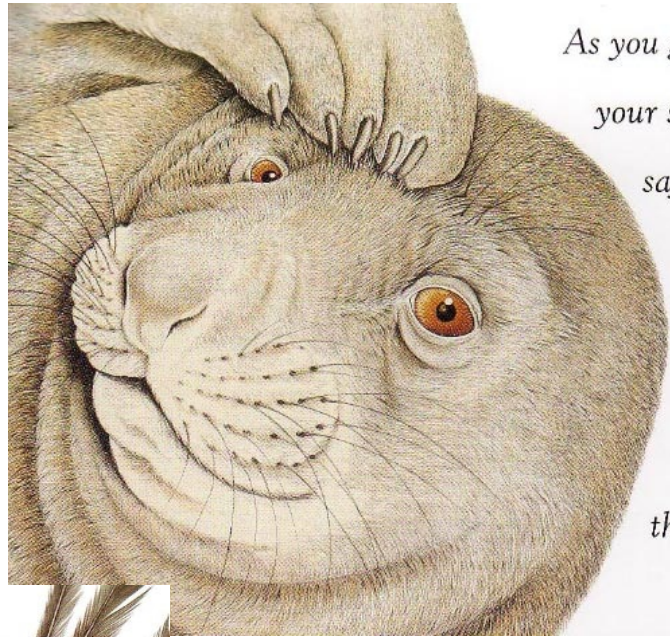
CREATE A MINERAL PUZZLE

You will need a mineral picture, a piece of cardboard, white glue and scissors. Select a large, colorful mineral picture. If you don't want to cut one out of a mineral magazine, draw one of your own and color it. (By the way, NEVER, NEVER, NEVER tear a picture out of a book!) Put a thin layer of white glue on the back side of the picture. Glue the page to the piece of cardboard. Put a pile of heavy books on the picture to hold it flat against the cardboard while the glue dries. Let it dry overnight. The next day, cut the picture into many random-sized pieces. You can make the pieces any shape you like. A more difficult puzzle will be one with a large number of smaller pieces. An easier puzzle will be one with a small number of large pieces. Challenge your mineral collecting friends, your parents and your siblings to put the puzzle back together. Time them. See who is the fastest.

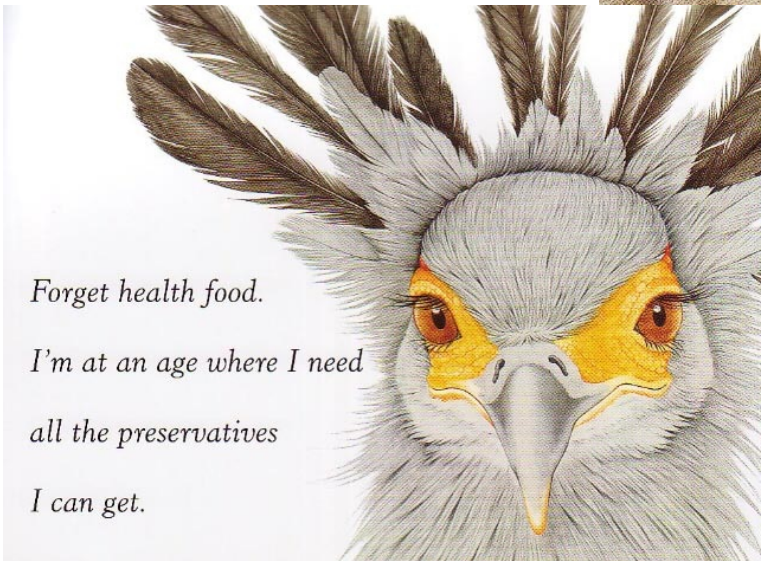
Above box from Diamond Dan

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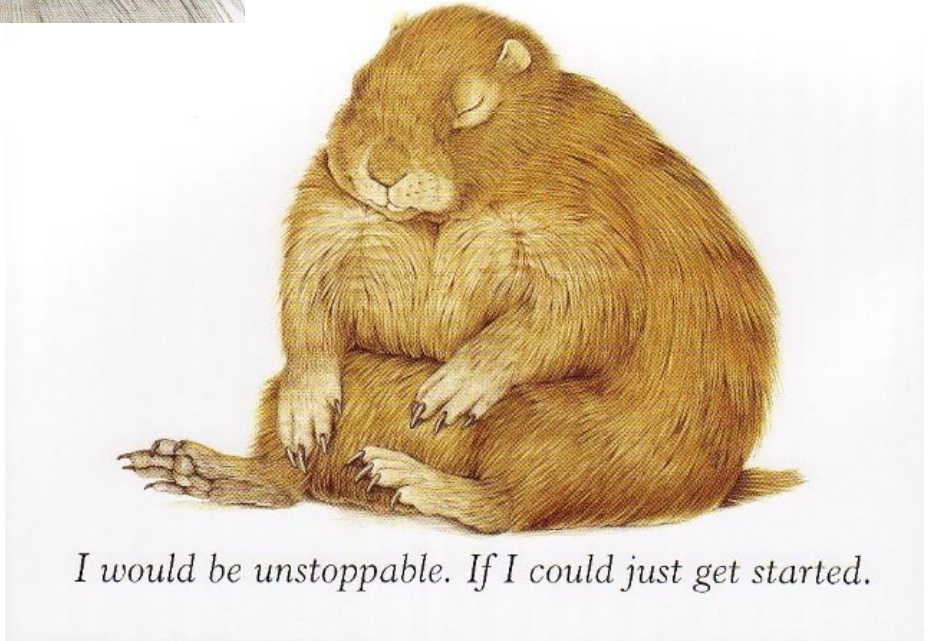
Wisdom of the ages for those “pyrite” years.



*As you get older,
your secrets are
safe with your
friends
because
they can't
remember
them either.*



*Forget health food.
I'm at an age where I need
all the preservatives
I can get.*



I would be unstoppable. If I could just get started.

UPCOMING SHOWS

June 26-27 5th Annual Nittany Gem and Mineral Show sponsored by Nittany Mineralogical Society, Inc., at Mt. Nittany Middle School, 656 Brandywine Drive, State College PA 16801, near the Oak Hall exit of US Route 322 east of State College. Vendors of minerals, lapidary materials, gemstones, jewelry, beads; expert speakers, hands-on activities, demonstrations, displays, Best of PA mineral specimen contest, club silent auctions including kids' sections, field trips, good food. Sat 10:00 AM to 6:00 PM, Sun 11:00 AM to 4:00 PM. Admission (good for both days) \$5.00; seniors and students \$2.00; children 12 and under and scouts in uniform free with an adult. Please check <<http://www.ems.psu.edu/nms/>> for details and updates. Contact: David Glick <xidg@verizon.net>.

NOTE Come visit DVPS (Delaware Valley Paelontological Society) the 4th Thursday of the month at the Academy of Natural Sciences in Philadelphia, PA

NJ museum in Trenton

If Pots Could Speak: A History of Pre-Historic Ceramics from New Jersey 2nd Floor Galleries through August 1, 2010.

Fossil Mysteries: Investigating the Prehistoric On extended view in the Auditorium Galleries.

Trenton: Crucial Crossroads On extended view in the Auditorium Alcove Gallery.

The Civil War Flag Collection of New Jersey On extended view in the Museum Galleries in the Department of State Building.

Maine Mineral Collecting Opportunity by Woody Thompson

The Maine Geological Survey in conjunction with the Maine Mineral Symposium Association is sponsoring a series of collecting trips to many of the famed Maine collecting areas. Because of the popularity of these trips and the limited number of participants who can attend, those wishing to attend one or more of the trips will need to register. Following closure of the registration period, lottery drawings will be held to determine who the lucky trip participants will be.

For 2010, trips being planned are as follows:

Saturday, July 17: Palermo Mine, No. Groton, NH

Saturday, August 21: Ryerson Hill Quarry, Paris, ME

Saturday, September 4: Newry Mines, Newry, ME

Saturday, October 23: Newry Mines, Newry, ME

For more information on the trips, applications, requirements and guidelines, visit

www.maine.gov/doc/nrimc/mgs/explore/minerals/fieldtrips/fieldtrips.htm.

Other shows if you want to travel a bit:

Aug: 7 - 8: 60th Annual Gem & Mineral Show sponsored by the Gem, Lapidary & Mineral Society of Washington, C. Stone Ridge School, 9101 Rockville Pike, Bethesda, MD.

7-8: 40th Annual Mid-State Gem & Mineral Show sponsored by the Water-Oak Gem & Mineral Society. Mt. Merici School, Waterville, ME

21-22: Gemboree 2010 sponsored by the Blue Grass Gem & Mineral Society. Lexington Convention Center, Lexington, KY.

21-22: 44th Annual Rock & Mineral Show sponsored by the St. Lawrence Co. Rock & Mineral Club. Madrid, NY (NEW LOCATION), near Canton, NY.

- Sept 4 – 5: 21st Annual Rockhoulder's Gem & Mineral Show sponsored by the Kennebec Rock & Minerals Club. National Guard Armory, Augusta, ME.
- 18-19: Central Pennsylvania Rock & Mineral Show sponsored by the Central PA Rock & Mineral Club. Zembo Shrine, Harrisburg, PA.
- 18-19: 41st Annual Gem, Mineral & Jewelry Show and Sale sponsored by the Mid-Hudson Valley Gem & Mineral Society. Dutchess Co. Fairgrounds, Rhinebeck, NY
- 25-26: 46th Annual Atlantic Coast Gem, Mineral and Jewelry Show hosted by the Gem Cutters Guild of Baltimore. Howard County Fairgrounds, West Friendship, MD.
- Oct 1 – 3: Annual Desautels Micromount Symposium hosted by the Baltimore Mineral Society. MHA Conference Center, Elkridge, MD. Registration and information: <cscrystals2@verizon.net>
- 1 – 3: 33rd Annual Gem, Mineral & Faceters Show sponsored by the Gaston Gem, Mineral & Faceters Club. Gaston County Park, Dallas, NC
- 16-17: 12th Annual Mineral Show & Sale sponsored by the Fulton Co. Mineral Club. Johnstown Moose Lodge, Rt. 30A; Johnstown, NY.
- 23-24: Rhode Island Mineral Hunters Annual Show sponsored by Rhode Island Mineral Hunters. CCRI Knight Campus, Warwick, RI.
- 23-24: 41st Annual Rochester Gem, Mineral, Jewelry & Fossil Show sponsored by the Rochester Academy of Science Mineral Section and Rochester Lapidary Society. Monroe Co. Fair & Expo Center, Henrietta, NY
- Nov 6 - 7: Gemarama 2010 sponsored by the Tuscarora Lapidary Society. CFS, The School at Church Farm, Exton, PA.
- 20-21: 44th Annual Gem, Mineral, Jewelry, Bead & Fossil Show sponsored by the Gem & Mineral Society of the Palm Beaches. Americraft Expo Center East; West Palm Beach, FL

Minerals Named After Women

Almost 100 minerals have been named after women. Some were mineral collectors. Others were scientists. Others were wives of scientists. Listed below are a number of minerals that were named after women.

Use this website (<http://www.webmineral.com/help/NameOrigin.shtml>) and discover more about the women behind these mineral names. Match these names on the left with the accurate fact about the woman after whom the mineral was named on the right.

Another Diamond Dan article for your enjoyment.

Rosemaryite	Russian Mineralogist
Lindbergite	The discoverer of the element radium
Sklodowskite	A distinguished mineral collector. Her husband was Eugene.
Caresite	Wife of Professor Peter Wyllie
Sophiite	A French chemist
Carnotite	A Russian volcanologist and mineralogist
Marialite	A United States Geological Survey Scientist
Mcnearite	A mineral collector and dealer from Sudbury, Mass.
Rondorfite	Her full name was Maria Rosa von Rath
Olgite	A mineralogist and crystallographer from Switzerland

DVESS MEETING LOCATION : Centenary United Methodist Church, 151 South White Horse Pike, (route 30) in Berlin, 856-767-3881 or 856-767-7453

DIRECTIONS:

From Atco (west-bound), after the traffic light at Taunton Ave. (Rite Aid drugstore on the left), the church is about the 3rd building on the right; turn into the first driveway. If you miss it, pass by the church and turn Right onto Broad St. (at the Berlin Diner) then turn Right into the parking lot of the Baptist Church and go straight all the way - the parking lots of both churches connect.

From Rt. 73 in Marlton: head East (South) on Rt. 73. As you enter Berlin, you will pass Wal-Mart (on the left) and a shopping center (on the right) with Shop Rite and Staples. **Get into the Right "Exit Only" lane and follow the signs for Cross Keys Rd. At the intersection of Cross Keys Rd. and the White Horse Pike (Rt. 30) turn LEFT. At the next intersection (Broad St.) continue straight past the Berlin Diner and SPEEDY MART on your left; pass by 2 or 3 white storefronts on the left then see the big white church with red front doors on your left. Pass in front of the church and turn into the driveway on the far side. Education Building is behind the church.**

From Lindenwold or Clementon on the White Horse Pike (east-bound): As you enter Berlin business district, you will pass through the traffic light at Cross Keys Rd. (CVS Pharmacy on right corner). Follow highlighted directions above.

MEMBERSHIP INFORMATION

Regular members are entitled to participate in all DVESS activities. Sponsoring members are entitled to the same plus a specially chosen mineral specimen. Dues are renewable each year in January. Membership rates for the Society:

Regular Membership:

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

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

Sponsoring Memberships (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 a Native Gold Specimen

“Platinum” \$100 for 1st family member - receive a Premium Specimen

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 , knowledge 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>)

MEETINGS

The Society meets the 2nd Wednesday of each month throughout the year at Centenary United Methodist Church, 151 South White Horse Pike, (route 30) in Berlin

Editor’s Notes: Editor is not responsible for authenticity of information in any articles submitted for publication. Nor are the opinions expressed in the “DVESScapades” necessarily those of the officers of the Delaware Valley Earth Science Society, Inc., and/or the editor.

To submit an article for publication in the DVESScapades contact the Newsletter Editor.

decuzzic@comcast.net, or Delaware Valley Earth Science Society Inc., DVESS, P O Box 372

Maple Shade, New Jersey 08052 or DVESS Website: <http://www.dvess.org>

garyskyrock@comcast.net

Our newsletter goes out solely by email (a major cost savings and quick delivery solution).

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AFMS CODE OF ETHICS (American Federation of Mineralogical Societies)

- I will respect both private and public property and will do no collecting on privately owned land without the owner's permission.
- I will keep informed on all laws, regulations of rules governing collecting on public lands and will observe them.
- I will to the best of my ability, ascertain the boundary lines of property on which I plan to collect.
- I will use no firearms or blasting material in collecting areas.
- I will cause no willful damage to property of any kind - fences, signs, buildings.
- I will leave all gates as found.
- I will build fires in designated or safe places only and will be certain they are completely extinguished before leaving the area.
- I will discard no burning material - matches, cigarettes, etc.
- I will fill all excavation holes which may be dangerous to livestock.
- I will not contaminate wells, creeks or other water supply.
- I will cause no willful damage to collecting material and will take home only what I can reasonably use.
- I will practice conservation and undertake to utilize fully and well the materials I have collected and will recycle my surplus for the pleasure and benefit of others.
- I will support the rockhound project H.E.L.P. (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless of how found.
- I will cooperate with field trip leaders and those in designated authority in all collecting areas.
- I will report to my club or Federation officers, Bureau of Land management or other authorities, any deposit of petrified wood or other materials on public lands which should be protected for the enjoyment of future generations for public educational and scientific purposes.
- I will appreciate and protect our heritage of natural resources.
- I will observe the "Golden Rule", will use "Good Outdoor Manners" and will at all times conduct myself in a manner which will add to the stature and Public "image" of rockhounds everywhere.

<i>DVESS Directory 2010</i>	President Grant Elliott 856-728-1731 gle@verizon.net
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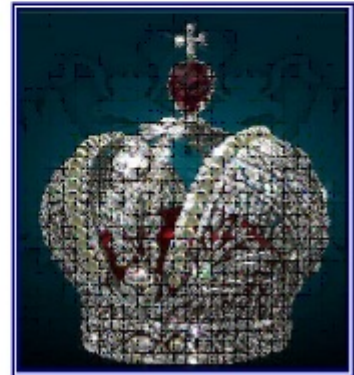
“How Do You Like Your Eggs”

By Ralph Thomas



Our marvelous friend, John Sanfacon, presented an amazing program on “Russian Lapidary and Mineral Treasures” at our May meeting. John, who is a teacher at the Delbarton School in Morristown, New Jersey, has been taking students and their families for seven separate trips to Russia to study, photograph and admire the treasures. His power point presentation to our club was a program to remember.

A map of the Soviet Union indicated how Russia has changed since 1914. The Kremlin, home of the Czars, built as a fortress covers 140 acres and includes 37 buildings. It houses gems and crown jewels from centuries ago starting with Catherine the Great in 1790. The Russian *fascination for bigness* is illustrated in their displays of huge mineral specimens of topaz, rhodonite, lapis, jaspers, aquamarine, diamond crystals, sulfur, gold nuggets, alexandrite, Siberian charolite, grossular, carved malachite art objects and an 80 foot column of red granite from Finland to name a few. Also shown were the agate and malachite rooms and the famous amber room. Many items are displayed in the Fersman Mineralogical Museum in Moscow with 138,000 specimens. The Heritage complex in Leningrad has an exhibit of the fabulous Faberge egg collection where craftsmen created most of these precious works of art in the 19th century.



Crown Jewels
of
Catherine the Great



Peter the Great Egg



Alexander Palace Egg



Catherine the Great Egg

The Dvess puzzle of the month by Ed Loveland, Puzzle maker to the DVESScapades for many great years, and well appreciated, is attached in a separate PDF file for the month.

Membership Form start w/ first family member (**designated as head of family**)

First Name: _____ Last Name: _____
Address: _____ City: _____
State: _____ ZIP+4 _____
Phone: _____ Email: _____
Cell Phone: _____ Profession, School or Major Work _____

Okay to let other members see your email and other orange-starred information(on website)?

Okay to share _____
Do NOT share _____

Newsletter Delivery **ONLY** via e-mail

Email _____

Type of membership **Regular Membership:**
\$15.00 for the 1st family member + \$5.00 for each additional family member
\$10.00 for the 1st Senior (65+) member + \$5.00 for each additional family member
Dues are collected on a calendar year Jan to Dec, no pro-rata rates

additional family members to be registered w/ above member

First Name: _____

Last Name (only if different from above) _____

First Name: _____

Last Name (only if different from above) _____

additional family members to be registered w/ above member

First Name: _____

Last Name (only if different from above) _____

First Name: _____

Last Name (only if different from above) _____

additional members on another paper if needed

Sponsoring Memberships (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 a Native Gold Specimen

"Platinum" \$100 for 1st family member - receive a Premium Specimen

Interests: Minerals ___ Fossils ___ Lapidary ___ Collecting ___ Museum Trips ___
Trotter ___ Sterling Hill ___ other, please list _____

How did you learn of DVESS? _____

Other clubs you belong to _____

Comments _____

What NON-DVESS interests or hobbies do you have? Would you be willing to share with our members? _____

Look for new application form new design coming soon.

Delaware Valley Earth Science Society, Inc. (DVESS)
P.O. Box 372
Maple Shade, N.J. 08052
DVESS Website : <http://www.dvess.org>

RETURN SERVICE REQUESTED

