

*Meeting place: Evergreen Avenue School  
Woodbury, New Jersey*

*Meeting Time: 7:30 PM, 2nd Wednesday of month*

*Meeting Date: April 9th, 2003*



## This Month's Meeting

*April 9th, 2003*

**Mr. John LaBold**

*Of*

**Feasterville, PA**

**And**

**Rock & Mineral Club of Lower Bucks**

*Will present:*

**Gemstone Enhancement**

## Junior Rockhounds Club

Mini-lesson 7:40 - 8:00PM

New members welcome!

No additional fees

More Fossils from Aurora NC.

Lee Creek Invertebrates.

Fossil shells and coral collected by Paul Funk will be provided.

**Don't Forget!**

## **Trotter/Buckwheat/Sterling Annual Trip**

April 26<sup>th</sup> & 27<sup>th</sup>, 2003

Contact: Jeff Winkler, [TripMaster@UVworld.org](mailto:TripMaster@UVworld.org), 973-835-2582

<http://www.UVworld.org>



American Federation  
of  
Mineralogical Societies



Eastern Federation  
of  
Mineralogical & Lapidary Societies



Special Congress  
Representing  
Involved Bulletin Editors

# DVESSCAPADES

Newsletter of the Delaware Valley Earth Science Society – DVESS

## BACKGROUND

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. The Society supports the conservation of natural resources, advocates the availability of collecting sites, and maintains close contact with those in the academic field.

## MEETINGS

The Society meets the 2<sup>nd</sup> Wednesday of each month from September through June, at the Evergreen Avenue School in Woodbury, New Jersey. At 7:30 pm members meet to socialize, view displays, sign the registry and receive a door-prize ticket, toward a specially chosen specimen. Meetings start promptly at 8:00 PM and include the evening’s program followed by the monthly business meeting, concluding around 10:00 PM. Meetings are open to the general public.

## MEMBERSHIP

See the Membership Chairperson for an application for membership in the Society. Regular memberships are entitled to participate in all DVESS activities and to receive a newsletter when published. Sponsoring memberships are entitled to all of the above plus a specially chosen mineral specimen. Membership rates for the Society are:

### Regular Membership

\$15.00 for the 1<sup>st</sup> family member + \$5.00 for each family member  
\$10.00 for the 1<sup>st</sup> Senior (65+ ) member + \$5.00 for each family member

### Sponsoring Membership

<u>Level</u>	<u>1<sup>st</sup> Member</u>	<u>+</u>	<u>Additional Members</u>	<u>=</u>	<u>Receive</u>
“Silver”	\$50.00	+	\$5.00	=	Geode Specimen
“Gold”	\$75.00	+	\$5.00	=	Native Gold Specimen
“Platinum	\$100.00	+	\$5.00	=	Premium Specimen

*Dues are renewable each year in January*

Delaware Valley Earth Science Society Inc., - DVESS  
P.O.Box 372  
Maple Shade, New Jersey 08052

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

EFMLS Website:  
<http://www.AmFed.org/EFMLS>

### 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 editors.

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

### DVESS 2003 SPONSORS

“Platinum” - Gerald Feigan  
“Platinum” -- Harvey Cantor  
“Silver” – Jeff Winkler

Evergreen Avenue School  
160 N. Evergreen Ave.  
Woodbury, N.J. 08096  
Privilege to enter the school is limited to the night of the meeting between the hours of 7PM & 10PM under the direction of the school staff.  
Permission from the school staff is required to enter the school at any other time.

## DVESS 2003 Officers & Positions

### President

Grant Elliot  
(856) 728-1731  
[gle@bellatlantic.net](mailto:gle@bellatlantic.net)

### 1<sup>st</sup> Vice President

Rick Harty  
(215) 729-2059  
[a8rharty@msn.com](mailto:a8rharty@msn.com)

### 2<sup>nd</sup> Vice President

Lou Detofsky

### Treasurer

### Program Chairperson

Gary Weinstein  
(856) 234-0708 – Home  
(856) 795-5077 – Work  
[d.g.wein@att.net](mailto:d.g.wein@att.net)

### Recording Secretary

Terry Wilson  
(609) 714-1309  
[terry@dvess.org](mailto:terry@dvess.org)

### Corresponding Secretary

Pat Carey

### Sage

Len Morgan  
George Petreshock

### Membership Chairperson

### Newsletter Editor

Mike Jacob  
(856) 596-2230  
[stargazer7584@yahoo.com](mailto:stargazer7584@yahoo.com)

### Jr. Rockhound Coordinator

Paul Funk  
(856) 912-1245  
[jerry7@snip.net](mailto:jerry7@snip.net)

### Field Trip Coordinators

Rick & Alice Harty  
(215) 729-2059  
[a8rharty@msn.com](mailto:a8rharty@msn.com)

Paul Funk  
Jeff Winkler

### Website Coordinator

Terry Wilson  
[terry@dvess.org](mailto:terry@dvess.org)

### Special Events

### Coordinator

Ann Lynne Benson  
(856) 783-0969  
[SeleniteQueen@comcast.net](mailto:SeleniteQueen@comcast.net)

This Month!

## Annual Pot Luck Banquet!

Sunday, April 13<sup>th</sup>, 2003 @ 2PM  
Centary Methodist Church  
149 South White Horse Pike  
Berlin, NJ

**Program: Aurora, NC**

View a film about the formation of sediments from the ocean millions of years ago where marine fossils are now found. See how the phosphate mining company digs up the deep layers and brings up fossils from the past. Everyone will receive a bag of "Mine Mix" to look through and find sharks teeth and other fossils to keep. If you have been to Aurora, bring your collection to show and tell your collecting stories!

### Directions:



Guests are Welcome

Bring your Family and Friends!

DVESS will provide beverages and paper products. Please bring a main dish, salad, veggies or a desert.

## Minutes of the March 12<sup>th</sup>, 2003 DVESS General Meeting

By Terry Wilson

Our meeting started at 8:10 with the introduction of DVESS life member Phil Betancourt, who is also a professor of archaeology and antiquities at the University of Pennsylvania. Phil also has a fine mineral collection, displayed beautifully, as in a museum, and tonight he talked to us about silver. First, he showed us his PowerPoint system with a projector hooked up to his laptop and explained the merits of a digital presentation over a traditional slide show.

There are over 130 silver minerals found worldwide in abundance. Silver has the shiniest luster of all the elements and is similar to gold in that it is found as a pure element, and it is malleable enough to be made into things such as coins, jewelry and tableware. It is also used in photography and electronics. Phil gave us quite a bit of historical perspective using slides of artwork from the various periods. Silver was one of the earliest minerals used, back in 4000 BC, and around 5 BC coins came into being when society needed a commodity to represent wealth. In more modern times (this is where his historical drawings came into play), it was discovered in Germany (10th century) as acanthite, the Czech republic (16th century) in crystalline form; and in Norway (17th century) as native silver. In Saxony, a 20 ton nugget was found, and eventually used up.

Phil finished his presentation with a gallery of slides of a variety of silver minerals, such as boleite, dyscrasite, moschellandsbergite, stephanite (gold and silver), and two fascinating minerals, proustite ("ruby silver") and pyrargyrite, which are bright red until exposed to light, which turns the surface black.

After Phil's talk, Gary Weinstein reminded people about the bus trip that weekend, and the banquet in April. We held the door prize drawing for a Thunder Bay amethyst, which Mike Jacob won. Gary turned the meeting over to Grant Elliot. We accepted the minutes as published in the newsletter, and Gary's treasurer's report stated that we were in balance. Mike reported that we had 53 paid members. Of those, 41 were part of the mailing list, and 13 opted for emailed newsletters. Gary announced the programs upcoming, with a speaker not scheduled yet for the April Pot Luck banquet, which will be held in Berlin, at the same location as last year.

Gary passed out flyers with NEFTA trip schedules, and told us to contact Paul Funk if interested in going on one of the field trips. He continued by talking up the Trotter trip; this year the fee includes day collecting at nearby Buckwheat. In other club news, new pictures (from the February meeting) are up at the website. Stu Cleveland volunteered to inventory the library. Gary followed up on a few email queries on our mailing list, and asked if they had been resolved. (Yes, they had.)

Outside the club, Lou Detofsky announced a lecture he was giving on Antarctica in Jamesburg, NJ; and Andrew Lopert took a 3rd prize at the science fair at the Camden County College's Corielle Institute. To finish up the meeting, Gary presented Lorraine Campbell with a framed certificate acknowledging her many contributions to the club over the years she has been a member. Lorraine and her husband are retiring to Tennessee.

We adjourned at 9:20.

## Junior Rockhound Report

By Paul Funk

Sixteen young Paleontologists showed up to collect fossils from North Carolina. Fortunately, our founding junior rockhound chairperson Lorraine Campbell happened to be visiting. She assisted by taking attendance and helping juniors. I would like to extend thanks to our assistant Junior Rockhound coordinator Barbara Turner, Mrs. Jackson, Kim Ruth, and Lori DelGesso for helping with this presentation. Junior Rockhounds who would like to thank Madeline White and Curtis Ormand at the Aurora fossil Museum for giving Paul Funk so many good things to learn with.... may write to:

Aurora Fossil Museum  
P.O. Box 352  
Aurora, NC 27806.

I will be requesting our correspondence secretary send our appreciation formally as well.

Fossil Collecting is a great way for kids to learn about science. One Junior Rockhound asked what the MYA meant after a date given in geologic time. MYA is an abbreviation for the term: Millions of Years Ago. I often forget the meaning of this abbreviation myself.

Many parks allow youngsters to collect and Fossils are generally plentiful enough to prevent children from being discouraged. For instance, Jennifer Bundy said that she has collected fossils on beaches in Florida. I collected many fossils on a beach in Venice, Florida. Fossils can also be found on Myrtle beach in Carolina. Also, there are beaches right here in New Jersey with fossils. Farther north Canadian beaches have some great fossils.

There is more information from the Aurora Museum to be distributed. Because I just returned from NC the night before our meeting there was only time to wash the shark teeth, make eighty copies, and still arrive late at the school. The children's display case was made from a plastic picture frame modified into sort of a shadow box. We also discussed how a Riker Mount works. Each Jr. RH received a dozen or more specimens with at least a few being 2-2 1/2 inches and instructions for identifying them. The Jr. RH's noticed that the specimens are chipped. There are several causes for a fossil to appear damaged. One, it was partially dissolved (rotted) before fossilizing. Two, it was chipped while the animal was alive perhaps while biting a bone. Three, it was damaged when it was processed by the mining equipment. Four, it is twelve million years old; it should show some natural wear after being buried under tons of sediment over one hundred feet thick. Old does not always mean big. While the extinct megalodon teeth are bigger than the modern counterpart a great white shark, many fossil shark teeth are from small sharks. Also, the part of the jaw that the tooth comes from effects the size. A tooth from the back row of a small sharks mouth will be almost microscopic.

Junior Rockhound attendance: Mike Fitzpatrick Ruth, Eamond Fitzpatrick Ruth, Sean Fitzpatrick Ruth, Kevin Fitzpatrick Ruth, Jennifer Bundy Jonathan Feigen, Peter Stankiwitz?, Michael Anderson, Christopher Turner, Matthew Anderson, Thomas Jeffrey Anderson, Daniel Anderson, Mark Cardchidi, Josh Jackson and Paul DelGesso.

More information about the shark teeth and the location they came from will be distributed at the April meeting. There is much to learn about how the fossils were formed. Look for our field trip to a nearby fossil collecting site for shark teeth and more in the field trip list of this newsletter.

**Special Invitation to Junior Rockhounds  
Collecting at the Millington Quarry Education Day  
Basking Ridge, New Jersey Saturday May 3,**

The Delaware Valley Earth Science Society has been invited to have our Junior Rockhounds participate in Quarry Education day. Saturday May 3, from 9am -1pm. For children of all ages, there will be bus tours inside the quarry for all children, free minerals, educational activities and exhibits. 8th grade level Junior Rockhounds collect in the quarry and find: prehnite, pectolite, natrolite, appophyllite amethyst, quartz, calcite and others in the quarry! Must be 8th graders to collect in the quarry. There is an extensive display of antique mine trucks and equipment that can be compared to the Quarry's modern much larger machines of today. Great for all kids of all ages.

This is a superb chance for all children to see and learn about an active quarry, and a special chance for the 8th graders to collect in a famous New Jersey quarry. Many adults only dream of collecting in Millington Quarry. Contact: Paul Funk for more information

## DVESS Members Field Trip List

**April 27.....** C & D Canal dredge piles.....Delaware.....Fossils Exogyra Gryphee oyster shells, Turritella spirals, Blemnitella Americana, Pyrite concretions, Ostree,, Sharks' teeth, Baculites, Ammonites, Gastropods... equipment shovel, sifting screen, boots

**May 4.....** New Street Quarry..... Patterson, N.J.....Prehnite, Amethyst, Zeolites

**May 17, .....** Lake Valhalla.....New Jersey.....Gemmy Serpentine, Large hornblende crystals others.

**Saturday June 21** Delaware Valley Earth Science Society..... Kurtz Quarry, Lancaster County, PA 8 - 4 pm.... calcite fluorite dolomite pyrite sphalerite.... O.K. for children with guardians-signing safety equipment: goggles, steel toe shoes, hard hat and EFMLS membership

**Sunday morning June 22** Delaware Valley Earth Science Society..... Burkholder Quarry, Lancaster County, PA 8 - 12pm.... don't know what we'll find. This active location has produced collectible specimens in the past fluorite calcite others. O.K for children with guardians-signing safety equipment: goggles, steel toe shoes, hard hat and EFMLS membership

**Sunday afternoon June 22** Delaware Valley Earth Science Society.... Weaverdland Quarry, Lancaster County, PA 12 - 4pm .... this active location has produced pyrite cube specimens in the past.... O.K. for children with guardians-signing safety equipment: goggles, steel toe shoes, hard hat and EFMLS membership

## NEFTA Field Trip List

Contact Paul Funk Two weeks before date of NEFTA trip  
For info 856-912-1245 [amphibole@snip.net](mailto:amphibole@snip.net)

April 6..... Rhode Island Mineral Hunters.....Lincoln, RI.....Bowneite, Rhode Island's State Mineral.

April 12.....St. Lawrence Co. Mineral Club.....St. Lawrence County, New York, ..... Uvites, Uralite

April 12.....DELAWARE MINERALOGICAL SOCIETY..... Sykesville, MD..... One of the oldest copper mines in MD. Dating back to 1748. Old shafts are still visible. Minerals include: Pyrite, Chalcopyrite, Chalcocite, Bornite, Brochantite, Actinolite, Magnetite, Malachite, Siegenite (Co-Ni ore). Weather permitting. Safety glasses, boots, rock hammer, chisels needed. OK for kids.

April 16..... Syracuse Mineral Club .....NY – Spring Creek,.....(20 miles east of Buffalo) - Wednesday, th, 2p.m. - fossils, pyritized fossils - soft rock (shale) - crack hammer & chisels - free

April 17.....Syracuse Mineral Club .....Tully, NY - fossils - Thursday, 10:00 a.m. - soft rock - crack hammer & chisels

April 19.....Syracuse Mineral Club .....Crystal Grove Diamond Mine, St. Johnsville, NY - Saturday,th, 9:30a.m., meet at the mine - Herkimer diamonds, hard rock digging and sifting through piles of dirt and rock. Bug spray and sun screen are often needed. - digging fee about \$6.00

April 19.....Mineralogical & Lapidary Society of the RaritanValley.....Passaic Co., New Jersey.....Description: Trap rock mineral dig. Limit to 20 first collectors.....Geology: quarry cuts through numerous layers of Triassic Watchung basalts down to a basal Triassic red shale layer. The upper part of the lower Orange Mountain (First Watchung) flow is exposed. Uppermost zones of the pits cut through well mineralized bedded pillow basalt and vesicular basalts but the upper flow has been largely mined away - still some persisting on eastern rim of the pit.. The lower levels of the pit cut through more solid lava basalt (massive and columnar).

April 26.....Delaware Valley Earth Science Society.....Trotter Mine Dump - 9:00am to 11:00pm – fluorescent minerals

April 26.....Delaware Valley Earth Science Society.....Buckwheat Mine Dump - 10:00am to 4:00pm - fluorescent minerals

April 26.....Wayne County Mineral Club.....Western New York, 7:30 am to 12:00 noon, Fluorites, Sphalerite, Calcite,

April 27.....Delaware Valley Earth Science Society.....Sterling Hill Dig - 9:00am to 3:00pm – fluorescent minerals

April 27.....Danbury Mineralogical Society..... Grossular Garnet, Diopside, Calcite, Quartz

May 17.....Wayne County Mineral Club.....Westren, New York.....7:30 am to 12:00 noon Fluorites, Sphalerite, Calcite

May 24.....Danbury Mineralogical Society.....????????? Almandine Garnet, Staurolite

June 7.....DELAWARE MINERALOGICAL SOCIETY.....Gibralter, PA (carbonates).....zeolites and carbonate

June 7.....CAPITOL MINERAL CLUB..... Lisbon, NH .....?????????????

June 7.....Mineralogical & Lapidary Society of the Raritan Valley.....Lancaster Co., Pennsylvania,.....Description: Limestone mineral dig. Meet at gate to quarry entrance for entry at 8 am.... Limit to 20 first collectors Geology: This active quarry is mining the Buffalo Springs Fm. Cambrian in age. Rocks are gray limestones with white calcite veins, dolostones and shales and sandstones. Minerals as crystals include: golden calcites, pink dolomites, cubic and octohedral fluorites, pyrites and chalcopyrites.

June 21.....Rhode Island Mineral Hunters.....Portsmouth, RI. Fern Fossils

June 21.....St. Lawrence Co. Mineral Club.....Little Falls, New York.....Herkimer Diamonds

June 21.....Delaware Valley Earth Science Society.....Lancaster County, PA., Calcite, Fluorite, Dolomite, Pyrite, Sphalerite

June 22.....Delaware Valley Earth Science Society.....Lancaster County, PA., active limestone quarry don't know what we'll find. This location has produced collectible specimens in the past

June 22.....Delaware Valley Earth Science Society.....Lancaster County, PA., pyrite

## NEFTA Field Trip List (Cont.)

July 12.....CAPITOL MINERAL CLUB....., W. Ossipee, New Hampshire ????????????????

July 13.....Danbury Mineralogical Society.....????????????? Tremolite, Diopside, Sphene, Rutile, Quartz, Calcite, Phlogopite, Aragonite, Hyalite Opal

August 2.....CAPITOL MINERAL CLUB.....N. Groton, New Hampshire ????????????????

August 2.....Mineralogical & Lapidary Society of the Raritan Valley..... Lancaster Co., Pennsylvania, Description: Limestone mineral dig. Meet at gate to quarry entrance for entry at 8 am Limit to 20 first collectors Geology: This is an active limestone quarry which cuts through the Formation of dense gray to black dolomitic limestone. Mineralization occurs as vein fillings in brecciated limestone

Aug,16.....Wayne County Mineral Club.....Western, New York, ... time 7:30 am to 12:00 noon Fluorites, Sphalerite, Calcite,

August 25.....St. Lawrence Co. Mineral Club..... St. Lawrence County, New York \$5.00 fee.....Blue Calcite, Hexagonite, Wollastonite, Prehnite, Talc, Chrome Tremolite, Tremolite,



THE NEW YORK SOUTHERN TIER  
GEOLOGY CLUB PRESENTS ITS



## 34th MUSEUM of Gems Minerals & Fossils Show

*at Johnson City Senior Center*

*Saturday, April 12th*      *Sunday, April 13th*  
*9:00 am - 5:00 pm*      *10:00 am - 5:00 pm*

**Gems, Mineral, Fossils & Jewelry from all around the world**  
**Museum Exhibits • Door Prizes • Demonstrations**  
**Earth Science Treasure Hunt & Quiz & Prizes, Silent Auction**

Johnson City Senior Center  
30 Brockton Ave, Johnson City, NY  
Route 17, Exit 70N, right on Harry L.  
Drive, right on N. Broad St, left  
on Brocton Ave. (map on back)

*This Coupon Admits One for  
a \$2.00 donation to Geology  
Scholarships Fund. Children  
under 12 - Free (with an adult)*



## **Volunteers Needed To Help At The AURORA, NC FOSSIL FESTIVAL On Saturday May 24th 2003**

by Lorraine Campbell

Dear fellow members of the Delaware Earth Science Society and the Rock and Mineral Club Of Lower Bucks County,

At the invitation of the Aurora Fossil Museum, I have been working on plans to organize a large display of rocks minerals and Fossils from NJ and PA. This is over the Memorial Day weekend and it would be an educational and fun place for families to visit. There is a nearby campground for tents and campers. Motels are available in nearby towns.

For example: Bay River Campground and Marina Weavercamp Rd. Merritt, NC ph. 252-745-4879

### **Would you like to help?**

These are activities I am working on that will be provided with the the display:

1. PA coal - free to children

2. Mineral and Fossil sales tables.

3. NJ Cape May diamonds and stones for adults and children to search through and collect in small jars (for a small fee).

\*\* (donations of small jars with lids are needed bring to your club meeting in April and May) I will be at the meeting.

4. A craft table for adults and children to make candle holders decorated with rocks and minerals (for a fee).

5. A display table about rock and mineral clubs showing club newsletters. The Eastern Federation guidebook will be there for people to look up clubs in their home areas.

Contact: Lorraine Campbell at 856-662-6676 or drop me a note at 3333 Cooper Ave Pennsauken, NJ 08109 or leave a message on my husband's cell phone: 856-889-1121 (Barry Campbell)

### **Visit THE ANNUAL AURORA, NC FOSSIL FESTIVAL Sat May 24th, 2003**

\* Festival Activities include FREE FOSSIL COLLECTING plus:

\* Truck loads of the aurora phosphate mine mix are dumped in piles around town for everyone to search for fossils.

\* Fossil Festival Parade on Main Street.

\* Displays by collectors and the PCS phosphate mine company.

\* Bus tours of the mine facilities (free) 1 -4 pm

\* Lots of food and crafts for sale.

\* New this year NJ and PA rocks minerals and fossils display!

\*\* collecting note - A screen box 1/4" (wire) for sifting is helpful to collect the fossils and a small shovel.

## Calendar of Shows and Events by Paul Funk

Look for Field Trips, Children's activities, Free Minerals and more

April 11 - 13 **26th Annual Atlantic Micromounters Conference** sponsored by the Micro Mineralogists of the National Capitol Area Contact Steve Weinberger for registration email: [cweinber@bept.net](mailto:cweinber@bept.net)

April 12, 13 **20th annual show; Maine Mineralogical & Geological Society**; Finley Gym, University of New England, 716 Stevens Ave. Portland, Maine; Sat. 10-5, Sun. 10-5; adults \$4, seniors and under 18 \$3, children under 12 free; contact Wes Baker, 1359 Pownal Rd., Auburn, ME 04210, (207) 784-1738; e-mail: [wesbton@adelphia.net](mailto:wesbton@adelphia.net)

April 12, 13 **32nd annual show; New Haven Mineral Club**; Amity Regional Jr. High School, Sheffield Rd. Orange, Connecticut, off Rte. 34; Sat. 9:30-5, Sun. 10-4:30; admission \$3.50, children under 12 free with adult; 70th anniversary show, minerals, gems, jewelry, exhibits, dealers, door prizes, lectures, demonstrations, children's activities, metaphysical stones; contact Mary-Elizabeth Molon, 316 Reef Rd., Fairfield, CT 06430, (203) 606-1704.

April 12, 13 **34th annual show; New York Southern Tier Geology Club**; Johnson City Senior Citizen Center, 30 Brocton Street Johnson City, NY; Sat. 9-6, Sun. 10-5; gems, minerals, fossils; contact Al Conklin, (607) 625-4140; e-mail: [agclgc@aol.com](mailto:agclgc@aol.com).

April 26, **Arundel Sand and Gravel Open House**...Noon - 4pm 938 Quarry Road Havre De Grace Maryland Includes: Tour of Quarry, Children's Activities, Tour of Tugboats, Food and Entertainment, Displays and Demonstrations, Rock Blast at 4pm R.S.V.P. 410-939-9225 or 410-575-6587

April 26-27, **New Jersey Earth Science Mineral Show**....Littel Center, just west of Junction of Rt. 23 and Rt. 517 in Franklin, New Jersey Saturday 9 AM to 5:30 PM and Sunday 10 AM to 5 PM Contact Sterling Hill Mining Museum at (973) 209-7212

May 3-4 **40th annual show; North Shore Rock & Mineral Club**; Topsfield Fairgrounds, Rte. 1N. Topsfield, Massachusetts; Sat. 9-5, Sun. 10-4; hourly door prizes, geode cutting, spin-o-gem game, rocks, minerals, fossils, crystals, wholesale and retail dealers, mineral identification booth; adults \$4, seniors \$3, children under 12 free; Donna Lee Hanlon, (781) 272-0488; e-mail: [donna@nahant.com](mailto:donna@nahant.com); Web site: [www.nahant.com/nsrmc/welcome.html](http://www.nahant.com/nsrmc/welcome.html).

May 9, 11 **14th Annual Maine Mineral Symposium**.... Senator Inn Western Avenue Augusta Maine.....Features: lectures on Gems and minerals, Auction, gem mineral and fossil dealers, field trips Contact: Woodrow Thompson 207-287-7178 or [woodrow.b.Thompson@state.me.us](mailto:woodrow.b.Thompson@state.me.us)

May 18 Sunday....**Annual Swap / Sell at Goucher** Chesapeake Gem and Mineral Society Goucher College, Krausher Auditorium Pavillian, Dulaney Valley Rd. just off I-695; Towson Maryland .....Sunday

May 24, **Aurora, North Carolina Fossil Festival**...Phosphate mine tours, Fossil collecting, Exhibits, Fossil auction, and more. Aurora Fossil Museum ph. 252-322-4238

June 7, **Spring Mineralfest at Macungie** The Pennsylvania Earth Sciences Association will hold its annual Spring Mineralfest on Saturday, June 2 at Macungie Memorial Park.

The Spring Mineralfest is a one-day convention of rock and mineral collectors, amateur mineralogists, and rock, mineral, fossil and gemstone dealers from many states, door prizes every 30 minutes, a fluorescent mineral room, gold-panning demonstrations, and geode-cutting. It will be possible to have a pendant wire-wrapped or have a gemstone set in a sterling silver ring, pendant or bracelet. Children will receive a free mineral specimen and enjoy special games with prizes. Minerals may be brought in for identification.

The show runs from 9 a.m. to 3 p.m. There is an admission fee; children under 12 are admitted free. Macungie Memorial Park is located in Macungie just off Route 100 at Poplar Street.

June 14, 15 **Show and sale; Fulton County Mineral Club**; Fulton-Montgomery Community College Campus, state Route 67, Johnstown, N Y; Sat. 10-5, Sun. 10-5; adults \$2, students \$1, children under 12 free; door prizes, children's "mineral dig", exhibits; contact Chamber of Commerce, (800) 676-3858, or Bob Hartig, (518) 842-5948; e-mail: [phartig@nycap.rr.com](mailto:phartig@nycap.rr.com)

August 8-10, **East Coast Gem and Mineral Show**....Eastern States Exposition Center (the Big "E"), on Memorial Avenue 2 miles west of I-91, West Springfield, Massachusetts

September 27-28(?), 2003 **Franklin Mineral Show**.....Franklin, New Jersey

November 1-2, 2003 **Stamford Mineral Show**....Ripowam High School Gymnasium, 1.8 miles south of Merritt Parkway Exit 35 on High Ridge Road, Stamford Connecticut

# Trotter Dump! Buckwheat Dump! Sterling Hill!

Franklin & Ogdensburg, New Jersey

**April 26 & 27, 2003**

## Along with the 31st Annual NJESA Gem & Mineral Show and Outdoor Swap & Sell !

The Delaware Valley Earth Science Society (DVESS) and the North East Field Trip Alliance (NEFTA), in cooperation with the Franklin Mineral Museum and Sterling Hill Mining Museum, invite you to share an international collecting experience. This field trip has attracted dedicated collectors from across the globe. Be one of them this year! Read the following terms, and then contact the coordinator below to reserve your spot . . .

### **Trotter Mineral Dump** Saturday • April 26th

Facilities fee: \$20  
Daylight Hours: 9a.m. to 7p.m.  
Night Hours: 7:30p.m. to 11p.m.  
Daylight pound rate: \$1/pound  
Nightlight pound rate: \$2/pound  
Owner will provide: running water;  
restroom facilities;  
darkroom for admiring your  
flourescent minerals;  
electricity (in darkroom);  
off-road parking area.  
Age limit: No one under 9 years old  
will be permitted on the site.

### **Buckwheat Dump** Saturday • April 26th

Facilities fee: (included in Trotter fee)  
Daylight Hours: 9a.m. to 7p.m.  
Night Hours: Sorry, NO night dig  
Daylight pound rate: \$2/pound  
Nightlight pound rate: no digging  
Will provide:  
restroom facilities;  
darkroom for admiring your  
flourescent minerals;  
electricity (in darkroom);  
off-road parking area.  
Age limit: Children must be  
accompanied by an adult.

### **Sterling Hill Dig** Sunday • April 27th

Facilities fee: \$10  
The \$10 fee will be collected on-site by the Sterling Hill Mining Museum at time of first entry (bring cash) and will be credited against poundage fees.  
Daylight Hours: 9a.m. to 3p.m.  
Night Hours: Sorry, NO night dig  
Daylight pound rate: \$1/pound  
Will provide: restroom facilities;  
darkroom for admiring your  
flourescent minerals;  
electricity (in darkroom);  
off-road parking area.  
Age limit: No one under 13 years old  
will be permitted on the site.

Please note -- each of the three sites above is operated by a different group or organization, so there are different facilities, fees, rules, etc. for each site - as shown in the sections above. In addition, there are rules and requirements that are common to all three sites and to the "dig" in general - these are below:

- Tools and UV lights will be available for purchase at the Franklin Museum and the Sterling Hill Mining Museum.
- Both Trotter and Buckwheat will have excavation / turnover of fresh NEW soil areas for your digging pleasure.
- Attendance is by advance reservation. Sign up early! See below for details. We MUST have at least 100 people and . . . in case you are wondering, it IS "rain or shine" -- so come prepared!! Maximum of 200 this year.
- Local hotels/motels fill up quickly, so if you are staying in the area overnight be sure to reserve early.
- All collectors must carry liability insurance that covers damage to the property, such as the insurance offered by the EFMLS to its affiliate clubs. Your club must co-sponsor the activity in order to be covered by Federation policies. If you have no other means of insurance, you may join the DVESS to get it. Proof of personal liability is acceptable. Collectors enter any site at their own risk and must sign a hold-harmless liability waiver when registering.
- Standard Federation safety rules apply -- safety goggles and durable footwear are mandatory (no sneakers or sandals). Work gloves are strongly recommended. Note the age requirement at each site.
- All guests at Trotter/Buckwheat sites receive a \$1 discount coupon for tour of Sterling Hill Mining Museum (good only on Sunday, April 27th)

To register right away, send \$20 per collector made out to DVESS, to Jeff Winkler at 55 White Way, Pompton Lakes NJ 07442  
email: [TripMaster@UVworld.org](mailto:TripMaster@UVworld.org)  
phone: 973-835-2582

Official web site for "Trotter 2003" is  
[www.UVworld.org](http://www.UVworld.org)

Visit the web site to find trip info, pictures, area maps, hotel/motel info, update news, number registered, etc.

Also stop by and visit [www.DVESS.org](http://www.DVESS.org)



Oregon Ridge Nature Center's  
**PRIMITIVE TECHNOLOGY  
WEEKEND**  
"In Baltimore County, Maryland"

**MAY 3 - MAY 4, 2003**

Attention all professional and avocational  
**flintknappers, living history practitioners,**  
traditional archers, archaeologists, and the public at large.

You are invited to the Oregon Ridge Nature Center's 15th Annual Primitive Technology Workshop for the purpose of sharing knowledge and hands-on experience in the replication of items composed of stone, bone, wood, and natural fibers. Also we will be featuring guest speakers and presenters who will share their specialties with us during the course of the weekend.

On Saturday, May 3, and Sunday, May 4, the Oregon Ridge Nature Center has been set aside for the Primitive Technology Weekend. The programs will run from 10 AM to 4 PM on both days. Please note that the worksite and camping areas have changed.

For the weekend workshops be sure to bring your own tools and materials. Some tools and materials can be purchased at the site. We ask that you bring **no copper billets** to this event. Since this is an educational opportunity for the visiting public, our desire is that they observe knappers using native techniques and tools, not new age tools. Copper pressure flakers are permissible since they are represented in archaeological records, whereas copper billets are not.

Presenters, participants, and visitors are asked to bring their self bows, flu-flu arrows, and rubber blunt arrows for a fun and exciting Sunday morning bow shoot. The shoot starts at 8:00 AM and features aerial targets and a 24 target woods shoot.

**Admission is \$1/person.** If interested in camping during this workshop, please call to register in advance. \*Camping is free this year. All children must be accompanied by at least one parent - no exceptions.

**Contact:** Oregon Ridge Nature Center, 13555 Beaver Dam Road, Cockeysville, MD 21030, Attn: F. Kirk Dreier, Director. (Call Tuesday through Friday 410-887-1815, or fax 410-785-1020 or 410-887-1816, email [ornc@bcpl.net](mailto:ornc@bcpl.net) or [kdreier@co.ba.md.us](mailto:kdreier@co.ba.md.us). Check our website for up-to-date information - [www.oregonridge.org](http://www.oregonridge.org).)

## **N.E.F.T.A fossil field trips with the Virginia Museum of Natural History** **Fees associated with these trips are considered to be donations to the VMNH**

April 12-13, 2003

Morehead, KY

This trip explores the Ordovician sediments exposed in various road cuts in the vicinity of Morehead, Kentucky. Collect crinoids, brachiopods, bryozoans, and trilobites from deposits that predate the Appalachian Mountains. We will meet in Morehead on Saturday morning, visiting various stops in northern Kentucky. On Sunday we will return to Virginia, possibly making additional stops. Bring a trowel, plastic baggies, and a bucket. Dress to get dirty. Access is moderate, with some walking required, and getting wet is likely. For an additional fee, on the April trip only you can travel by museum vehicle (this is limited to the number of seats available).

9 a.m Saturday-12 noon Sunday. Suggested donation: \$35 (\$75 if traveling by museum vehicle).

June 21

Martin Marietta-Carmel Church Quarry

Visit one of the richest vertebrate fossil sites east of the Mississippi. The 12 million-year-old Calvert Formation deposits at Carmel Church contain at least five species of whales and two dozen shark species, as well as manatees, crocodiles, turtles, birds, and bony fish. Don't miss this extraordinary site! This is one of Virginia's most important vertebrate fossil sites that produces thousands of shark teeth and numerous whale, dolphin, manatee, turtle, fish, and ray bones. You may bring your own fossils for identification. This is an active research site yielding deposits ranging from 60 million to about 4 million-years-old. Bring your own lunch, a trowel, plastic baggies, and a bucket. Dress to get dirty. There is easy access for the young, elderly, and disabled, but there are no restrooms.

9 a.m.-1 p.m. Suggested donation: \$25 adults, \$15 children under 12.

June 22, 2003

Westmoreland State Park

Take a trip along the spectacular cliffs along the Potomac River, in an area rich in paleontology, ecology, and history. The 140-foot high cliffs expose sediment ranging for 3.5 million to 14 million years old, and have produced fossils of whales, seals, crocodiles, sharks, and numerous seashells. These cliffs have been studied by naturalists for nearly 200 years. While on the trip, take time to explore the scenic beauty at Westmoreland State Park and the historic structures and museum at Stratford Hall. Accommodations and park fees are not included in your donation. There is a campground at Westmoreland State Park, and hotels are available in Montross and Colonial Beach. Bring your own lunch, a trowel, plastic baggies, and a bucket. Dress to wade and get dirty. Access is moderate, with some walking required, and getting wet is likely. There are no restrooms.

9 a.m.-3 p.m. Saturday (July 26) or Sunday (July 22) Suggested donation: \$25 adults, \$15 children under 12.

July 26, 2003

Westmoreland State Park

Take a trip along the spectacular cliffs along the Potomac River, in an area rich in paleontology, ecology, and history. The 140-foot high cliffs expose sediment ranging for 3.5 million to 14 million years old, and have produced fossils of whales, seals, crocodiles, sharks, and numerous seashells. These cliffs have been studied by naturalists for nearly 200 years. While on the trip, take time to explore the scenic beauty at Westmoreland State Park and the historic structures and museum at Stratford Hall. Accommodations and park fees are not included

## **N.E.F.T.A fossil field trips with the Virginia Museum of Natural History (Cont.)**

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September 20

Chuckatuck Quarry/Mobjack Pit

This trip includes stops at the fossil pits south of Smithfield near the town of Chuckatuck. Over 200 species of well-preserved fossil marine shells, 3 million years old, can be collected there, including snails, clams, sand dollars, and bryozoans. These deposits include the last occurrences of the scallop *Chesapecten* and the snail *Ecphora* before their extinction. After lunch (lunches can be obtained from numerous fast-food restaurants in Smithfield), we will travel to the Mobjack Pit, which has 4 million-year-old sediments that are rich in fossil shells, including large specimens of Virginia's state fossil *Chesapecten jeffersonius*, the first New World fossil to be figured and described. Bring your own lunch, a trowel, plastic baggies, and a bucket. Dress to get dirty. There is easy access for the young, elderly, and disabled, but there are no restrooms. 9 a.m.-3 p.m. Saturday. Suggested donation: \$25 adults, \$15 children under 12.

October 17

Martin Marietta-Castle Hayne/Martin Marietta-Belgrade/Old Dock

This trip to the North Carolina Coastal Plain includes time periods not preserved in the sediments in Virginia, with fossils that indicate much warmer water. We will meet Friday morning at the Martin Marietta-Belgrade Quarry, which includes the Cretaceous PeeDee Formation and the Eocene Castle Hayne Formation. After lunch we will visit the Martin Marietta-Castle Hayne Quarry, with further exposures of the Castle Hayne Formation that are rich in fossil echinoids. Time permitting, we will then visit the Old Dock locality, which includes extremely rich deposits of the Pleistocene Waccamaw Formation. There is also a possibility of visiting additional quarries in the area. Bring your own lunch, a trowel, plastic baggies, and a bucket. Dress to get dirty. Access is moderate, with some walking required, and getting wet is likely. There are no restrooms. **NOTE THAT THIS TRIP IS ON FRIDAY, NOT SATURDAY!** 9 am-5 pm. Friday. Suggested donation: \$25 adults, \$15 children under 12.

## The Dynamics of Exploration

We make exploring comfortable. Our expeditions take us to some of the world's remotest locations, where standard amenities may be in short supply. That may mean making a few accommodations. It doesn't mean making sacrifices.

We know that, first and foremost, you're on vacation. So we go to great lengths to ensure your total comfort, enjoyment and peace of mind.

**Lodging.** As a rule, we stay with local families or camp out. First and last night accommodations are in premium hotels.

**Equipment.** On camping trips, we use only the highest-quality gear and equipment. Members sleep in top-of-the-line U.S.-made dome tents, which are set up and taken down by our support team. Foam mats and blankets are supplied; members bring their own sleeping bags. Well in advance of your departure, you'll receive a detailed list of items to bring, as well as any required visas and inoculations.

**Transportation.** In-country travel is typically via 4x4 jeeps. Our drivers are highly skilled, experienced and reliable; all have a thorough knowledge of roads, terrain and driving conditions and an uncompromising commitment to your comfort and safety. On horseback expeditions, members are furnished with western saddles.

**Meals.** You'll be served three delicious, balanced meals a day prepared by a professional chef using a combination of local and imported foods. Meal preparation, service and clean-up are handled by our support team. On the final night, members attend a lavish farewell dinner at a first-class restaurant.

**Diplomas.** During a farewell ceremony a diploma will be awarded by the representative of the local University to each member.

**Personal needs.** No matter where our travels take us, we make sure that clean, potable drinking water is always available and abundant. Campsites are equipped with field toilets and wherever possible, showers.

## About Global Research & Discovery Network

Founded in 1991 by world explorers Gus Grabsherd and David Henkel, Global Research & Discovery Network conducts unique archaeological expeditions throughout the world using advanced electronic detection equipment. Working closely with host-country partners, we pursue the following mission:



- Search and rescue of artifacts that would otherwise remain buried and hidden.
- Helping local archaeologists discover new archaeological sites — and rediscover their history.
- Turning ordinary people into world explorers
- Facilitating true cultural exchange. We interact on a personal level with host-country families and individuals, sponsoring lectures at local universities and adding archaeological and other scientific projects. We often make contributions of equipment, clothing, and money. Many of our members have formed enduring relationships with host-country friends and correspond regularly.

**The adventure of a lifetime.** Travelers bring home extraordinary memories from Global Research & Discovery trips — riding in a camel caravan across the Gobi desert... sharing meals and music with local families... hunting for buried artifacts in remote areas... following trails in search of ancient Incan settlements.

Our members include students, professionals, managers, retirees and entrepreneurs. What they share in common is an insatiable curiosity about the world around them, and a passion for *experiencing* adventure — not just watching it on the screen.

We invite you to travel with us in 2003. For more information, including references and descriptions of past trips, please contact **Global Research & Discovery Network**.

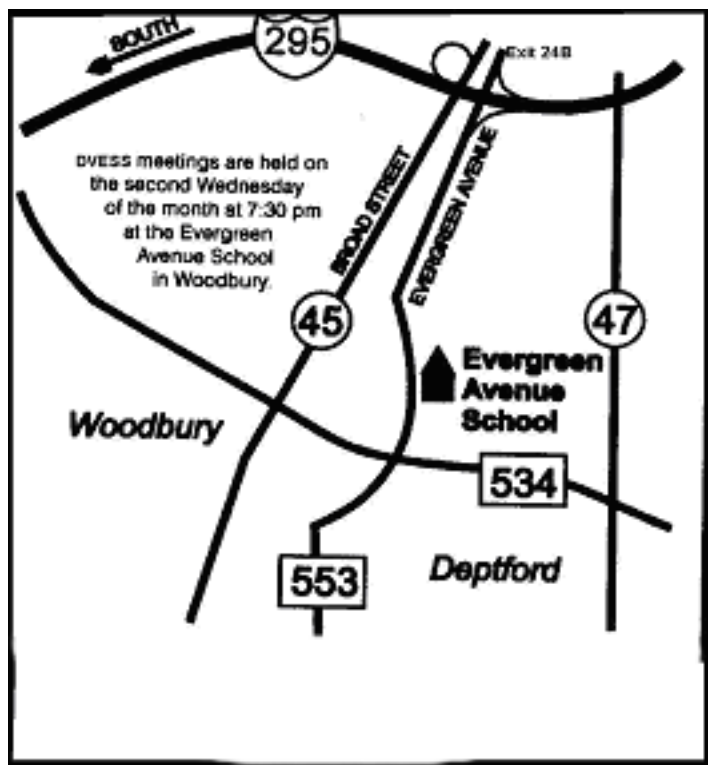
# Why watch Indiana Jones when you can be Indiana Jones?

*Explore ancient lands and new worlds with The Global Research & Discovery Network*



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henkellang@aol.com  
www.globaldiscoverynetwork.com



## This Month's Meeting: Wednesday, April 9th 2003

7:30 PM at the Evergreen Avenue School

**Mr. John LaBold**

*Of*

Feasterville, PA

And

Rock & Mineral Club of Lower Bucks

*Will present:*

**Gemstone Enhancement**

*Don't miss it!*

## DVESScapades

*The Newsletter of the*

*Delaware Valley Earth Science Society*

**PO Box 372**

**Maple Shade, New Jersey 08052**



**Birthstone: [Diamond](#)**