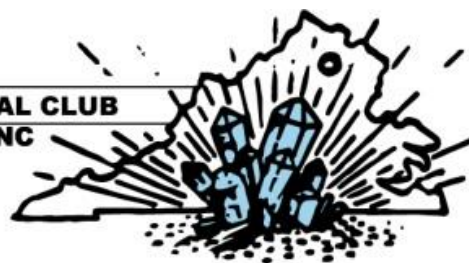




# THE NORTHERN VIRGINIA

MINERAL CLUB  
INC



## The Mineral Newsletter

**Meeting: September 22 Time: 7:30–10:00 p.m.**

**Long Branch Nature Center, 625 S. Carlin Springs Rd. Arlington, VA 22204**

Welcome!  
Back!

... from  
summer  
break!

### Club Member Rocks and Minerals Auction Coming Up September 22 Meeting

Our September club meeting will get off to a lively start with our club member auction! Proceeds from the auction are deposited into the Fred C. Schaefermeyer Scholarship Fund, which supports students in the field of geology.



*Items from the club auction in April 2014.*

**Volume 55, No. 7**

**September 2014**

You can explore our club website:

<http://www.novamineralclub.org/>

### Northern Virginia Mineral Club board members,

The club board will hold a meeting before the September club member auction. Board members will meet on September 22 at 6 p.m. at the Olive Garden.

*Olive Garden, Baileys Cross Roads (across  
from Skyline Towers), 3548 South Jefferson St.  
(intersecting Leesburg Pike),  
Falls Church, VA  
Phone: (703) 671-7507*

Reservations are under Kathy Hrechka, Vice President, NVMC. Please RSVP to my cell at (703) 407-5393 or [kshrechka@msn.com](mailto:kshrechka@msn.com).

The meeting will start promptly at **7:30 p.m.** (15 minutes earlier than usual). We will quickly move through the business part of the meeting so we can get to the fun!

Sellers, come early to help set up the room and your items. Bid slips, which you can copy if more are needed, are contained in this newsletter below.

Feel free to bring a guest or invite nonmembers! Only current 2014 club members are allowed to sell, but the meeting and auction are open to everyone.



Auctioneers, accountants, and runners are volunteers—help us out here, folks!

*Bring small bills, bid early and often, and help us move on to the next item.* We need to be out of our meeting room by about 10 p.m.

### **\*\* Note Current Club Auction Rules\*\***

- Any member may offer up to 20 specimens or up to 4 flats for auction.
- Each flat is one auctionable item.
- The club gets **15%** of the purchase price; the remainder goes to the seller.
- Anyone may donate items to the auction to fully benefit the club (no money goes back to the donor).
- The minimum bid is **\$1** on any item. Bids above **\$20** increase by **\$5**.
- We start with a silent auction, so look carefully and start bidding. Items with multiple bids during the silent auction will be brought sooner to the vocal auction.
- Winning bidders must pay for the item promptly, with cash or check. ➤

## **The Prez Sez**

*by Wayne Sukow, President*

Welcome back from your busy summer! Mine was definitely busy, and the answer to my theme question for 2014—“Is anybody out there? Does anybody care?”—is ... a resounding **YES! CHECK!**

Here’s what I originally wrote in May:

“Maybe NVMC members don’t read the club newsletter because my April ‘Prez Sez’ has not resulted in any response. So I might conclude that there’s nobody out there—or, if there is, nobody cares.

Well, I’ll try again. Bits and Pieces are the centerpiece of May’s ‘Prez Sez.’

- ✓ #2 sez: We’ve some leftover business from the April meeting: to recognize members who received Certificates of Award at the B.E.A.C. awards breakfast at the EFMLS meeting at the end of March.
- ✓ #3 sez: I keep up my membership in several other mineral clubs; it’s a very nice way to keep in touch

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with old friends and get new ideas or perspectives. In the minutes from one club’s April meeting, the club treasurer reported a balance of \$25,590 in checking and \$26,260 in savings. Wow! I plan to watch to see how they use some of that wealth. I like what the NVMC did, which was to support mineral/geology education in schools K–12.

- ✓ #4 sez: I plan to appoint a nominating committee for NVMC officers in May 2014. I will begin by asking for three volunteers.
- ✓ #5 sez: If you have an item you want the NVMC to consider for club action or discussion, please let me know and I’ll add it to the May NVMC agenda.
- ✓ #6 sez: It’s time for me to stop ‘sezzing’ and place an order for some 2015 calendars I’ve just finished designing. The theme is Lake Superior agates. Then I need to prepare a presentation about copper replacement agates from Michigan’s Keweenaw County. I love those pricey, little, and unique gems. Your Prez ...” ➤



*Fossilized dinosaur egg in rock, displayed at the June 23 NVMC meeting.*

## Previous Meeting Minutes

### June 23, 2014

by Ti Meredith, Secretary

President Wayne Sukow called the meeting to order at 8:05 p.m. at the Long Branch Nature Center, Arlington, VA.

### Preliminary Business

Visitors included Tim Smith and his daughter from Georgia, who brought a rock sample to show the club.

Past club presidents in attendance included Barry Remer and Wayne Sukow.

Door prize winners included Kiersten and Julia Hoff, Tom Benedict and Wayne Sukow. The door prizes came from Linda Smith, who contributed Science Olympiad pins, and from Ti Meredith.

### Announcements

Kathy Hrechka and Jim Kostka announced that they were participating in Boy Scouts activities related to our hobby (see the article below).

The nominating committee for club officers will include three volunteers: Carol Cooke (later replaced by Ti Meredith), Kathy Hrechka, and David Hennessy. The election will be in December.

### Show and Tell

Members brought rock and mineral specimens to show the club.

Member	Specimen/Locality
Linda Benedict	Fossilized sharks' teeth/West Moreland State Park, VA
Bob Cooke	Bug-in-a-vug oxidized biotite/ NH
Ti Meredith	Fossils, quarts, crystals/ WV, VA, PA
Joseph Poranski	Quartz/Mt. Ida, Wegner Crystal Mines, AR
Jeff Guerber	Meteorites/various localities
Dennis Hedrick	Tourmaline /Newry & Byron, ME—Swift River
Patricia Flavin	Agates, selenite, oil shale/UT, CO
Sheryl Sims	Coral, shells/San Juan, PR, and surrounding islands

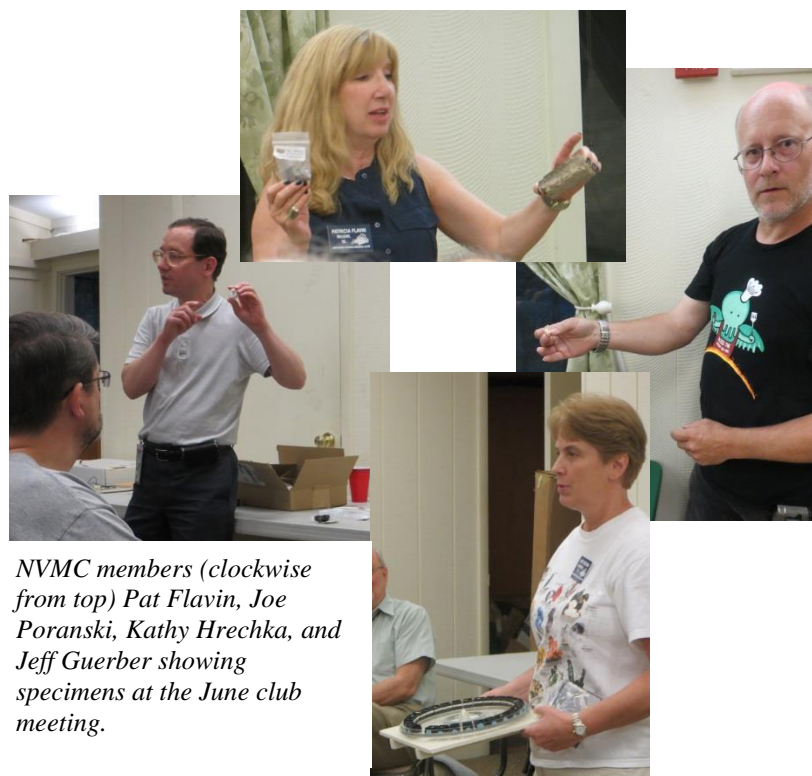


*Fossilized sharks' teeth displayed by Linda Benedict at the June 23 NVMC meeting.*

Member	Specimen/Locality
Kathy Hrechka	Micromounts, A-Z diamond, crystal photo/various localities
Matt Charsky	Himalayan "Herks"/Nepal
Wayne Sukow	Datolite/Lake Superior

Kathy Hrechka brought *Rocks & Minerals* magazines to distribute to presenters.

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*NVMC members (clockwise from top) Pat Flavin, Joe Poranski, Kathy Hrechka, and Jeff Guerber showing specimens at the June club meeting.*



## The Annual NVMC Mineral Show—Volunteers Needed!

by Jim Kostka, Show Co-Chair

**O**ur annual mineral show is coming up in November. This is *your* show—we need your help!

It's easy to sign up online. Just type or copy and paste the following spot link into your browser: <http://vols.pt/fmg5iM>. Then enter your e-mail address twice.

You'll see a range of activities you can sign up for. Just click on whatever appeals to you. Even if you can't participate this year, just click "No, thanks." Maybe next year!

Just to let you know, there are four white display cases available for allotment. When they are all taken, that's it. If you have a great display case available, please let Jim Kostka know.

Your rocks are needed for the show! Please give generously! This is a great time to clean out your garage and basement and donate to the club! In particular, we need moderately sized specimens suitable for the kids' tables, door prizes, and the silent auction.

- Kids Mini Mines—the size of a quarter to a half-dollar is best. Detailed information on the specimen is not necessary. Also needed are loose Herkimer diamonds for the Herkimer bin and lapidary scraps (small slabs, cabs, and cuttings) for the lapidary bins.
- Door prizes—pretty specimens are best, but relatively small (under 4 inches). Labels are desirable but not required.
- Silent auction—labeled and well-identified specimens are best. Again, the specimens should be moderately small.
- If you have something to contribute to the cause, bring it to the show—or contact Tom Taaffe, Jim Kostka, or Rob Robinson. ➤

## The AFMS Annual Meeting

by Matt and Jean Charsky

**I**n July, Jean and I attended the 67th Annual Meeting of the American Federation of Mineralogical Societies in Tulsa, OK. The Tulsa Rock and Miner-



*Incoming AFMS officers include (back, left to right) Marion Roberts, president; Matthew Charsky, president-elect; J.C. Moore, 2nd Regional Vice President; Jon Spunaugle, 3rd Regional Vice President; and Judy Beck, 5th Regional Vice President; and (front, left to right) Pat LaRue, Treasurer; Anne Cook, Secretary; and Ann Monroe, 4th Regional Vice President.*

al Society, along with the Rocky Mountain Federation of Mineralogical Societies, hosted the meeting. The organizers put on a great convention. They also put on a wonderful mineral show, with 28 dealers and 16 demonstrations.

As you might know, the AFMS is made up of seven regional federations, including our own EFMLS. The AFMS has over 50,000 members. The EFMLS alone has over 110 clubs, including roughly 9,000 adults and 1,000 juniors.

At the AFMS Delegate Annual Meeting, we approved minutes from the last meeting (held in Minneapolis, MN) and reviewed reports from each regional federation and from the AFMS committees. We also discussed the AFMS 70th Anniversary coming up next year. We approved the 2014–15 budget and elected new officers; in addition, the AFMS president appointed the office staff.

At the AFMS Scholarship Meeting, AFMS provided two scholarships per federation, a standing practice. The EFMLS honoree is Dr. Ryan Mathur and the two students selected are Michael Oxman of Penn State University and Michael Nguyen of the University of Massachusetts.

Other meetings included the Uniform Rules Committee Meeting, All American Club Award Meeting, and American Lands Access Association Meeting. The culmination of all the activities was the AFMS Awards Banquet on Saturday night and the Editors' and Webmaster Breakfast on Sunday morning.

At the AFMS Awards Banquet, 171 attendees were treated to a sumptuous barbeque and great local Tulsa entertainment. The food was delicious, including such Oklahoma delicacies as fried bologna and fried green tomatoes. The entertainment was provided by a Native American dance troop that performed authentic (though nonspiritual) tribal dances, and the dancers were interesting story tellers as well.

At the AFMS Awards Banquet, the incoming officers for 2014–15 were sworn in, including:

- Marion Roberts, president (from the California Federation);
- Matthew Charsky, president-elect (from the Eastern Federation);
- Virginia Adian, 1st Regional Vice President (from the South Central Federation);
- J.C. Moore, 2nd Regional Vice President (from the Midwest Federation);
- Jon Spunaugle, 3rd Vice President (from the Northwest Federation);
- Ann Monroe, 4th Regional Vice President (from the Southeast Federation); and
- Judy Beck, 5th Regional Vice President (Rocky Mountain Federation).

More than a hundred people attended the Editors' Breakfast. Two NVMC members were honored in separate categories: Hutch Brown received the 4th place award in the category of New Editors! Congratulations, Hutch! Sue Marcus received an honorable mention award in the category of Written Features for her article, "Opportunities for Self-Collecting: Where Can You Go?" Congratulations, Sue!

Remember, these awardees were also tops in the preceding EFMLS contest, their EFMLS awards advancing them for consideration at the national level.

Other NVMC members won awards as part of other EFMLS clubs, including Kathy Hrechka, who won 6th place for small bulletins; and Sheryl Sims, who won 5th place for large bulletins and 7th place for adult articles. Congratulations to all our authors and editors!

The AFMS convention can be a wonderful event. You can learn a lot about your own federation as well as the other federations around the country.

Every club should be aware of the AFMS Uniform Rules for competitive exhibiting and of the AFMS Scholarship Foundation for giving funds back to the hobby by helping to prepare the next generation of AFMS members and leaders.

The next AFMS convention is scheduled for October 23–25, 2015, in Austin, TX. Details will follow!

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## Upcoming Events (of interest in the mid-Atlantic region)

### September

**26–28:** 47th Annual Gem & Mineral Show; Shenandoah Valley Gem & Mineral Society; Augusta Expo, 277 Expo Road, Fishersville, VA; Fri 2–6, Sat. 10–6, Sun 11–5 pm; adults \$3, students/seniors \$2, 12 & under/Scouts in uniform free.

**27–28:** 50th Annual Atlantic Coast Gem, Mineral, & Jewelry Show; Gem Cutters Guild of Baltimore; Howard County Fairgrounds, I-70 at MD 32; [www.gemcuttersguild.com](http://www.gemcuttersguild.com)

### October

**3–5:** 36th Annual Gaston Gem & Mineral Show; Gaston County Park, 1303 Dallas Cherryville Hwy, Dallas, NC; Fri/Sat, 9–6, Sun 9–5; admittance/parking free;

<http://gastongemclub.weebly.com/our-show.html>

**18–19:** 41st Annual Jewelry, Gem, Mineral & Fossil Show; Kanawha Rock & Gem Club; So. Charleston Community Center, So. Charleston, WV.

**25:** Ultraviolation 2014 (fluorescent minerals only)—show/swap/sell; Rock & Mineral Club of Lower Bucks County, PA; First United Methodist Church, 840 Trenton Road, Fairless Hills, PA; 9–4; \$2 donation, 12 & under free.

### November

**1–2:** 45th Gemarama; Tuscarora Lapidary Society; CFS, The School at Church Farm, 1001 E. Lincoln Hwy, Exton, PA 19431  
<http://www.lapidary.org>

**22–23: Northern Virginia Mineral Club Annual Show;** George Mason University; Braddock Rd. and Rte. 123, Fairfax, VA. To volunteer, please click on <http://vols.pt/fmg5iM>!





## CSI: Cub Scout Investigators Day Camp, June 23–27, 2014 Algonkian Regional Park

by Kathy Hrechka, Vice-President

Local Cub and Webelos Scouts became rock detectives at their summer day camp through the outreach of some of our club members. Eagle Scout Jim Kostka, Kathy Hrechka, geologist Sue Becker, Victoria Martin, and Powhatan District Boy Scout Leader Tony Petruzzi combined their efforts to instruct over one hundred Scouts at the Algonkian Regional Park in Sterling, VA.



Jim Kostka and Kathy Hrechka teaching Scouts about elements.



Above: Joe Petruzzi teaching Scouts about volcanos. Right: Sue Becker and Victoria Martin with a display on erosion.





Topics included definition of geology; the three rock types; the Mohs hardness scale; minerals found in the home; volcanos; and erosion by wind, water, and ice.

Each Scout was given a “starter rock collection” containing limestone, marble, granite, quartz, a quartz crystal, lava, coal, prehnite, and a conglomerate rock. The collection included a page of information about rocks and minerals and a list of minerals and related products commonly found in the home.

Our teaching posters and program designed by junior member Conrad Smith and created for his Boy Scout Eagle project. ➤

## Note from Tony Petruzzi

I want to thank Jim, Kathy, Victoria, Sue, and Linda Smith for supporting this year’s Powhatan District Cub Scout Day Camp. Everyone deeply appreciated all their work with the boys! Parents have told me that boys came back from camp saying that what they liked most was GEOLOGY!!!

This weeklong experience also proved to be a good dry run for our Scout Corner at the George Mason University club show coming up on November 22–23. Based on this experience, I truly believe that we can educate 300 to 400 Cub Scouts about geology, help them earn their Geology belt loop and pin, and have them complete most requirements for the STEM NOVA “Science Everywhere” Award.





## Vulcan Quarry: Sugar and Spice and Everything Gneiss

by Sheryl Sims

Being the only female at the Vulcan Quarry on our club's July 12 field trip didn't faze me at all! It was a great day to watch the sunrise over the quarry rim and to pound some rocks.

Besides, it's always nice to meet up with fellow rockhounds from area clubs. Our group comprised members from the Southern Maryland Rock and Mineral Club, the Montgomery County club, and of course our own Northern Virginia Mineral Club. I believe that we even had one member from the Lynchburg mineral club.

"KT" was our gracious quarry manager, and Ted Carver was our field trip coordinator extraordinaire. We were in good hands!

Over the course of the morning, we found calcite, laumontite, prehnite, chalcopyrite, slickensides, and quartz, just to name a few specimens. Given a wide range of access to the quarry by KT, we were literally spread out from one end to the other.

It was interesting learning about the rocks surrounding us and analyzing the way the rocks had fallen to determine where minerals might be found. It was also beautiful to see the horizontal and vertical planes of the terrain shaped and carved out from the shifting ground. I learn more with each field trip.

Oh, and moving rocks so that we could drive to the lower levels was a first, but well worth the effort. Just ask Ted Carver! ➤



Quarry manager KT (on left), with field trip participants.  
Photos: Sheryl Sims.



Ted Carver, field trip coordinator, putting some muscle into it as we cleared a path for our cars.







## Flag Ponds Fossil Trip with Patricia Flavin, Our Infamous Gem Hunter of Fossil Shark Teeth

by Kathy Hrechka, Vice-President

On May 17, 2014, Patricia Flavin led an NVMC-sponsored field trip to the beaches of Calvert County, MD, seeking fossil sharks' teeth. Park ranger Shannon Steele guided us to the best location for excavating the fossils. With the weather just right—overcast skies with a gentle breeze, the temperature at 77 °F—we were set.

The tide was low, so we scoured the tidal area along with the dry sand, hoping to locate our treasures. We found numerous teeth amongst the mating sand crabs. Craig Moore located a sizeable Miocene fossil shark tooth from 8 to 22 million years old. Kathy Hrechka found her fossil sharks' teeth by using her driftwood divining rod. This field trip made for an enjoyable adventure away from the city.

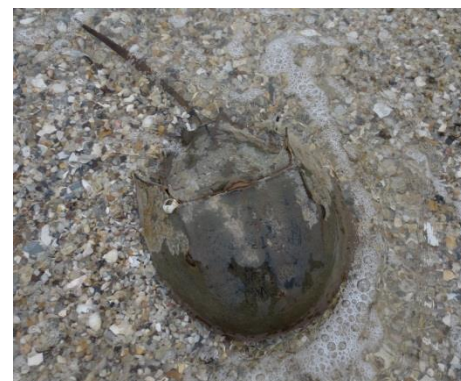
Flag Ponds Nature Park is located in Lusby, MD, along the Chesapeake Bay in Calvert County. It is operated by the Calvert County Department of Natural Resources. Millions of years ago, sharks, whales, crocodiles, and other creatures inhabited the area's waters and shores. The sharp-eyed visitor can find sharks' teeth and other Miocene fossils along the park's shoreline. ↴



Left to right: Craig Moore and his daughter Emma, Ti Meredith, Kathy Hrechka, Lewis Holt, Patricia Flavin, and Patricia and Mike Kaas.



Craig Moore made the best find of the day, a Miocene shark's tooth.



## Geodes

*Editor's note: The article is adapted from Gem Cutters News (newsletter of the Gem Cutters Guild, Baltimore, MD), February 2013, p. 9. The original source is Wikipedia.*

Geodes (from the Greek word for Earth-like) are geological structures in certain sedimentary and volcanic or subvolcanic rocks, especially in basaltic lavas and in limestones.

### Formation

Geodes are hollow spherical masses of mineral matter that can form in two ways: when hydrothermal fluids fill gas bubbles in volcanic or subvolcanic rocks and then deposit minerals inside the hollows; and when nodules or concretions in sedimentary rock dissolve, leaving hollows that are filled by fluids that then deposit minerals.

Geodes form as early rounded structures within the surrounding rock, whereas vugs are irregular voids or cavities within a cross-cutting formation, often a vein. Unlike a geode, a nodule is a mass of mineral matter that has accreted around a nucleus, although both structures contain minerals deposited from groundwater or hydrothermal processes.

Geodes commonly have a shell made of chalcedony (cryptocrystalline quartz). The shell is lined with various minerals, often as crystals. In particular, geodes can contain pyrite, calcite, kaolinite, sphalerite, millerite, barite, dolomite, limonite, and smithsonite; but quartz is by far the most common. Surrounding bedrock eventually weathers and decomposes, exposing the more erosion-resistant quartz shell of the geode.

### Coloration

Most geodes contain clear quartz crystals; some have purple amethyst crystals, and others have



*Geode with quartz and calcite crystals.*

agate, chalcedony, or jasper banding or crystals such as calcite, dolomite, celestite, and more.

There is no easy way of telling what the inside of a geode holds until it is cut open or broken apart. However, geodes from any one locality usually have a similar variety of interior mineralization.

Geodes and geode slices are sometimes dyed with artificial colors. Samples of geodes with unusual colors or highly unlikely formations have usually been synthetically altered.

### Prevalence

Geodes are common in some formations in the United States, mainly in Indiana, Iowa, Kentucky, Missouri, and Utah. For example, the Warsaw Formation in the Keokuk region where Illinois, Iowa, and Missouri join contains abundant geodes. Geodes are also common in Brazil, Mexico, and Namibia.

A large geode was discovered in Put-in-Bay, OH, in the early 20th century. It is known as Crystal Cave, and tours are possible during the summer. In 1967, Iowa designated the geode as the official state rock, and it has a Geode State Park. ↗



*Septarian geode from Utah, formed when calcite from decomposing sea life seeped into cracks in a shale ball, forming calcite crystals. A thin wall (septum in Latin) of calcite transformed into aragonite, dividing the shale exterior from the calcite center.*

### GEOLOGIST AT LUNCH



Source: Science Jokes Daily  
(<http://sciencejokesdaily.com/pos>).

©1993 Tom Swanson



## Bog Iron: America's First Mining Industry

by Thomas Pallanta, Jr.

*Editor's note: The piece is adapted from Rock Chatter (newsletter of the Rock and Mineral Club of Lower Bucks County, PA, Inc.), 47(10): 6–8.*

Recently, our club took a trip to the Big Brook fossil site in New Jersey. We spent over 4 hours sieving the shallow creek bottom for Cretaceous fossils. Unfortunately, Big Brook yielded little for us due to easy access, numerous visitors, and a low erosion rate in the fossil-bearing layer.

While working the streambed, I found a curious brown material that a friend identified as bog iron. I took samples, and basic tests at home confirmed that it was bog iron.

The history of New Jersey bog iron goes back over 250 million years to the Permian period, when all of the world's continents formed a supercontinent called Pangaea. What is now West Africa slowly collided with what are now Pennsylvania and northern New Jersey.

The collision pushed up a chain of mountains that stretched from the Arctic almost to the South Pole. The ancient mountains were mainly upthrust sedimentary rocks, including shale, sandstone, and limestone, with a core of schist and gneiss. All of these rocks were rich in disseminated iron in various forms.

During the Triassic period (about 230 million to 181 million years ago), the continents started splitting apart, forming a series of rift valleys in the fracture zones. These valleys were later flooded by the infant Atlantic Ocean.

What is now southern New Jersey was covered by shallow coastal waters. Erosion wore down the ancient mountains to the west, creating the sandy sediments that form the southern half of New Jersey.

The sediments formed marshy coastal lowlands where iron was leached out of the water by the evaporation of carbonic acid and the work of iron bacteria, a microorganism that absorbs iron and deposits it in sediments as ferric hydroxide. Chemical action then changed the material into limonite, a hydrous iron oxide. Over millions of years, huge deposits of bog iron formed in central and southern New Jersey.

Early European settlers needed iron for making tools. No one knows who first discovered the New Jersey deposits of bog iron, but it might have been the Swedes, who settled in Philadelphia before the Quakers. Sweden has huge deposits of bog iron, which the Swedes had exploited for centuries. They would certainly have recognized the bog iron potential and possessed the knowhow to exploit it.

In the 18th century, the mining and processing of bog iron became a major industry in New Jersey, which became the main source of iron for the 13 colonies. During the War of Independence, control of the iron-producing areas was vitally important. The fledgling American government needed the iron to produce cannons, shot, and guns.

After America gained independence, bog iron provided the raw materials for America's early Industrial Revolution. However, the discovery of huge reserves of iron and anthracite coal in Pennsylvania changed things as the steel mills of Allentown, Bethlehem, and Scranton fired up. Their production quickly outstripped New Jersey's bog iron industry.

Today, New Jersey's boom days of bog iron production are almost forgotten. You can relive them by touring the historic Batsto Village and Wharton State Forest in Hammonton, NJ. When you hold a piece of bog iron in your hand, you hold a piece of our history. ➤



*Bog iron at Batsto in New Jersey. Photo: Carolyn Foote Edelmenn for NJ Wild.*

Smithsonian Museum of Natural History, Department of Mineral Sciences  
**New Acquisitions from the 2014 Tucson Gem and Mineral Show**

(from *NMNH Geosciences*, Spring 2014, p. 6)



**Clockwise from top left:** tabular beryl (Afghanistan); honey-colored beryl crystal and cut stone—147.2 carats (Brazil); brown opal in basalt matrix (Ethiopia); titanite round—25.02 carats (Madagascar); dark green needlelike atacamite crystals with drusy quartz covering malachite (Peru). Photos: Ken Larsen.



## AUCTION BID SLIP

ITEM # \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

FROM \_\_\_\_\_

Starting Bid amount: \_\_\_\_\_

*Bidders: You need to bid on this item if you want it to be auctioned! Place bid below.*

NAME BID

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## AUCTION BID SLIP

ITEM # \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

FROM \_\_\_\_\_

Starting Bid amount: \_\_\_\_ \$2 \_\_\_\_\_

*Bidders: You need to bid on this item if you want it to be auctioned! Place bid below.*

NAME BID

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## AUCTION BID SLIP

ITEM # \_\_\_\_\_

DESCRIPTION \_\_\_\_\_

FROM \_\_\_\_\_

Starting Bid amount: \_\_\_\_\_

*Bidders: You need to bid on this item if you want it to be auctioned! Place bid below.*

NAME BID

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FROM \_\_\_\_\_

Starting Bid amount: \_\_\_\_\_

*Bidders: You need to bid on this item if you want it to be auctioned! Place bid below.*

NAME BID

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## 2014 Club Officers

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PLEASE VISIT OUR WEBSITE AT:  
<http://www.novamineralclub>

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## The Northern Virginia Mineral Club

You can send your newsletter articles to:

[hutchbrown41@gmail.com](mailto:hutchbrown41@gmail.com)

**Visitors are always welcome at our club meetings!**

### RENEW YOUR MEMBERSHIP!

#### SEND YOUR DUES TO:

Kenny Loveless, Treasurer, NVMC  
PO Box 10085, Manassas, VA 20108

**OR**

Bring your dues to the next meeting.

**Purpose:** To promote and encourage interest in and learning about geology, mineralogy, lapidary arts, and related sciences. The club is a member of the Eastern Federation of Mineralogical and Lapidary Societies (EFMLS, <http://www.amfed.org/efmls>) and the American Federation of Mineralogical Societies (AFMS—at <http://www.amfed.org>).

**Dues:** Due by January 1 of each year; \$15 individual, \$20 family, \$6 junior (under 16, sponsored by an adult member).

**Meetings:** At 7:45 p.m. on the fourth Monday of each month (except May and December)\* at **Long Branch Nature Center**, 625 Carlin Springs Road, Arlington, VA 22204. (No meeting in July or August.)

*\*Changes are announced in the newsletter; we follow the snow schedule of Arlington County schools.*