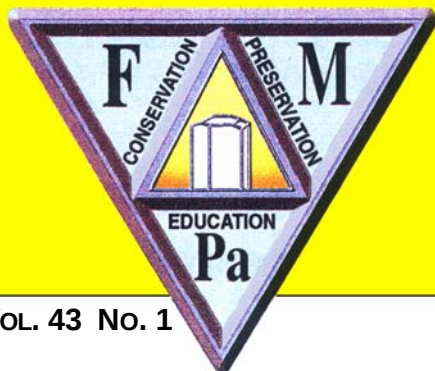




FRIENDS OF MINERALOGY Pennsylvania Chapter NEWSLETTER

VOL. 43 No. 1

SPRING 2015

Gearing Up for Spring and Beyond

by President Joe Marchesani
with the Board of Directors

Field trips are planned!

• Tentatively **Saturday April 11** (pending owner's approval, date to be confirmed, might be pushed back a few weeks): Brinton's Quarry - no backhoe, we'll just see what has been washed off by the rain.

• **Saturday, April 18:** National Limestone Quarry, Mount Pleasant Mills, PA

• **Saturday May 9:** "The BIG Hill" at Cornwall, joint trip with Delaware Mineralogical Society, organized by Tom Pankratz. See the article on page 4.

These trips are open to **paid-up** chapter members only; if you haven't renewed for 2015, contact Treasurer & Membership Chair Ron Sloto. Dues are \$20.00 per year (\$15.00 per year for students and seniors over 62); this includes your National FM dues. Make checks out to "Friends of Mineralogy Pennsylvania Chapter."

RSVP for these trips to Joe Marchesani (see page 6). Default meet time is 9:00 a.m. for all trips unless noted otherwise.

We're looking for ideas for more collecting trips, and volunteers to coordinate trips. If you can help, please contact Joe Marchesani.

The Delaware Mineralogical Society's gem and fossil show was held March 7-8. It was not as packed as last year mainly due to weather, but there were some great deals and nice specimens. It seems that there are a lot of nice Mexico specimens lately... Naica perhaps?

Our Chapter's 2015 Symposium is being planned for the weekend of Saturday, Nov. 7. Does anyone have a theme idea? Would anyone enjoy giving a presentation?

We wanna get out and collect while we still can. Ain't gettin' any younger! We invite new members to participate in field trips.

That's all I've got for now. Keep the chisel down. -Joe

Newsletter Back Issues on Web Site

Ron Sloto is working on scanning back issues of the chapter newsletter and putting PDF files on the web site < www.rasloto.com/FM/ >. Watch for more issues being added soon. If anyone has issues that are not online, Ron would greatly appreciate the opportunity to borrow them to scan; contact information is on page 6.

Board Member Volunteers Needed

Our Board of Directors is understaffed! Can you help? If you could volunteer to stand for election to the Board of Directors, and in particular if you might be interested in being Vice President of the Chapter, please contact the President (see p. 6).

Brookmyer Collection at Carnegie Museum

Our Summer 2014 issue reported on the Carnegie Museum of Natural History acquiring the Bryon Brookmyer Collection of Pennsylvania minerals. Carnegie Magazine's Summer 2014 issue included a well-illustrated article (pages 20-25) on Brookmyer, his collecting history which started in childhood, and how he came to collaborate with Carnegie minerals section head Marc Wilson and eventually arrange for the museum to acquire his collection. It quotes Brookmyer as saying, "It means a lot that the collection is in a museum in Pennsylvania where people who live here can see it. And who knows, maybe it will light a fire in the next kid-collector."

To see the article, go to <http://www.carnegiemuseums.org/cmp/cmag/index.php?issue=42> and choose the "rockhound" article. At the bottom is a "download PDF" link - this will give you the article with some larger photos, exactly as it was laid out in the magazine.

-Editor

Mineral Hill, Elwyn, Pa. Field Trip Report

Delaware Mineralogical Society and
Friends of Mineralogy - Pa. Chapter
Sunday, Nov. 22, 2014

by Tom Pankratz

On Sunday, November 22, about 20 members of the Delaware Mineralogical Society and The Pennsylvania Friends of Mineralogy met and collected minerals at a construction site on Mineral Hill, near Elwyn, Pa.

Mary Ann Levan learned of this site from a friend who stopped to collect garnets (there aren't any) and set about trying to get mineralogical and geologic information about it. She found it surprisingly hard to find any hard information, especially for a place that so many people recognize by name. Through contact with Sandy Schenck (Delaware Geological Survey), Hal Bosbyshell (West Chester University) and Roger Mitchell (Delaware County Institute of Science, Media Pa), she learned that the Institute "has the original plates" from the book by Samuel Gordon (The Mineralogy of Pennsylvania: Academy of Natural Sciences of Philadelphia Special Publication no. 1), and was able to purchase a copy. This book is organized by county and township. Within a township, it lists farms, mines and quarries and the minerals found there. Mineral Hill is in Middletown Township, Delaware County. A few relevant entries include:

Mineral Hill: exposures along the road from Media to Blackhorse; just west of Ridley Creek; about a mile northeast of Elwyn. Wissahickon gneiss: sillimanite, cyanite, staurolite.

Crump's Quarry, on the grounds of the Pennsylvania Training School for the Feeble-Minded. Pyroxenite and metaperidotite: enstatite, actinolite, tremolite, hornblende, serpentine, talc, chlorite, vermiculite, deweylite, chromite, magnesite, ferruginous quartz.

Small abandoned feldspar quarry and exposures about 1/8 mile north of Crump's quarry. Pegmatite and metaperidotite. Orthoclase, microcline- amazonstone, albite- moonstone, oligoclase- sunstone, almandite, vermiculite, columbite.

Additionally, Bill Stephens found:

-- The Mineral Hill (Crump Serpentine mine at Mineral Hill) was well known for albite feldspar and

oligoclase feldspar, semiprecious gem varieties known as moonstone and sunstone, respectively. This is sodic plagioclase commonly found in association with recrystallized commonly serpentinized gabbroic rocks and dunites.

-- A mine north of Mineral Hill Crump's serpentine quarry was worked for feldspar including gemstones. Some research into the old maps, maybe the second Pennsylvania Geological Survey reports, may reveal its exact location, but suffice it to say the rocks, however weathered, were consistent with the ultramafic suite mapped across the Mineral Hill area and that includes Crump's Serpentine Quarry and the old feldspar mine.

The Institute's museum has a collection of local minerals, as well as other natural history objects. Some of the birds were collected by one of North America's foremost ornithologists (John Cassin, 1813-1869). This area was very active scientifically in the early history of the United States. Today, you can go to the Delaware County Institute of Science to see a great collection of minerals from the Mineral Hill area, and also to attend a monthly science talk.

The construction project covers about 30 acres of the upper part of Mineral Hill on the north side of US Route 1 (Baltimore Pike) about a mile west of Media, Pa. The construction project is primarily in the excavation phase though some roads, retaining walls and condominiums have been completed. Permission was obtained to visit and collect at the site. Natural Lands Trust recently acquired the lower part of Mineral Hill towards Ridley Creek and created a development plan which lays out trails and public use amenities.

The site contains an incredible mix of soil and rock types. The two main rock types are serpentine and gneiss, with some pegmatite veins. The serpentine and gneiss appear to be interlayered, both vertically and horizontally. It appears the serpentine was intruded by a granitic magma before the Taconic Orogeny, and subducted and metamorphosed during the orogeny. Later erosion and uplift created fractures allowing pegmatite formation in veins. Further erosion brought it to the surface where today we have weathering gradation (hydration/oxidation) from surface mud, through saprolite, to hard rock. Finally construction excavation has mixed and scattered everything and covered rocks with mud. Thankfully, many of the rocks on mounds and along the silt fence have been washed fairly clean by rains. Many of the exposed rocks, both gneisses and schists, are so weathered as to be easily

broken by hand. Many of the minerals found were weathered beyond suitability for collection and display.

There is a pile of 3'-5' boulders that were excavated by blasting, though the construction company crushed much of the rock creating a pile of 4-5" stones and another of 1" gravel. Most of this rock is gneiss. The upper half of the site appears to be a mix of serpentines and gneiss. There are many chlorite schist veins on the lower half creating green swaths where exposed by grading. Though hilly, most of the site is graded smooth. But there are a lot of different kinds of rocks up to 3' on several hillsides, mounds and particularly along an erosion fence on the east and south sides. I've never seen such a mix of different rock colors, compositions, textures in any one place before. Many of the rocks had sections of slickenside.

This site is clearly a rock collectors delight. Not so much so for mineral collectors.

Here's a summary of the minerals and rocks that were collected:

Clinocllore: The abundant chlorite schist seems to be mainly clinocllore, though perhaps some talc is mixed in. Virtually all of the chlorite schist is deep green, fine and easily crumbled by hand, even that still unexcavated. One chlorite schist vein was found that contained clinocllore 'books' up to 1/2" thick with faces to 2". This clinocllore is a stunning metallic green.

Vermiculite: Occasional books of metallic-coppery vermiculite were found. The largest was about 1".

Anthophyllite: Three types of anthophyllite were found:

1. Light green and pseudomorphing into talc
2. White, asbestiform.
3. Red, possibly due to iron.

Actinolite: Many actinolite specimens were found. Some were deep green, others apple green and some weathered clear/white. Occasionally green and clear/white in the same specimen. Most of the crystals are 1/8 to 3/8", occasionally to 1".

Magnesite: veins of white magnesite were abundant. A few clumps were also found.

Deweylite: One interesting piece of deweylite slickenside. Much more is probably there.

Quartz: Four different forms of quartz were found, though three all are likely the same having formed from excess silica produced by the weathering of the serpentine:

1. The most abundant are rusty-red (hematite?) rocks and boulders that range from finger-sized to 3'

boulders, with highly irregular (rough) surfaces. When broken the cores appears to be jasper. They are particularly abundant along the erosion fence.

I broke a fist-sized piece from a boulder, washed it with a pressure washer, and treated it with Iron Out. Viewed under a microscope the surface was completely coated with small quartz crystals.

2. A few fist-sized pieces have a white and green coating. They have the same rough texture though the quartz crystals are more weathered.
3. A few 1 1/2" specimens were found with 1/8" to 1/4" clusters of quartz crystals. The crystal clusters appear to radiate from a single point, possibly a magnetite crystal (verbal communication from Roger Mitchell).
4. Massive grey quartz in pegmatite veins

Feldspar: Three types of feldspar were found:

1. White, massive albite in pegmatite veins and gneiss
2. Pink, perthitic, microcline. Some near-perfect cleavage rhombs (one nearly 5 lbs) were found in the creek just below the construction site.
3. Amazonite was also found in the creek just below the site, some mixed with microcline perthite, and some with albite.
4. Bill Stephens collected a large block of feldspar which contains megacrysts over 2" in diameter that may be both moonstone and perhaps sunstone, but the final determination as to whether they are gem grade or not remains to be proven. The block came from a spoil pile, but an in-place exposure was found on the west side of the site. A gentleman from another club worked this location intensely and recovered some nice feldspar megacrysts.

Granitic gneiss: There were a lot of interesting gneiss rocks that predominated in the lighter (white) feldspar and quartz veins with small, distinct layers of black biotite (heavily collected by some). There is also a lot of highly weathered gneiss with red bands, presumably an iron mineral. And also the piles of gneiss that was blasted and crushed.

Chromite: There are a few red rocks along the silt fence (with a black weathered exterior) that contained small octahedral crystals (up to 1mm) of chromite. Even when crushed to dust, the red rock remains weakly attracted to a rare earth magnet. There is a vein of this rock on the shoulder across the street and slightly uphill from the site.

Rocks and minerals from this site will be shown in the DMS Club Field Trip display case at the March 2015 Show.

Cornwall Tailings, the Big Hill

Friends of Mineralogy- PA Field Collecting Trip

May 9, 2015 (Saturday)

By Tom Pankratz and Bill Stephens

(edited by Joseph Marchesani)

The Cornwall iron mine is the largest iron deposit in the US east of the Minnesota Mesabi range. It was mined from 1732 to 1972 both as an open pit and underground mines with more than 100 million tons of ore recovered. The big pit was flooded by hurricane Agnes in 1972. The mines were subsequently closed and blasted, which formed several lakes on the golf course. There are many tailings piles in the area and we visited several over the past decade. This trip will be to a site known as the Big Hill which is generally considered to be the best collecting site in the area. The site overlooks the flooded 'big pit lake' and consists of several terraced benches and a long slope of tailings (see attached pictures by Bill Stephens). MinDat list 68 valid minerals for this site. We can expect to find many minerals and interesting rocks (see site geology and mineralogy below). For those interested in this trip I recommend spending a few minutes doing an internet search....many interesting and informative articles are available.

Logistics

The meet-up time and location details have not been set. They will be sent by email to registered participants about April 20th.

This trip is solely for members of the Delaware Mineralogical Society and Friends of Mineralogy, PA Chapter. Contact Joseph Marchesani Jmarch06@comcast.net or Tom Pankratz at tjpankratz@verizon.net if you are interested in joining this trip (if you do not get a return email confirming registration within 48 hours, try again).

Site Geology & Mineralogy

The minerals at Cornwall are associated with two major rock types: diabase and limestone. The Triassic diabase is an igneous rock of dark green to black color containing feldspars and pyroxenes, with minor amounts of biotite, ilmenite and hornblende. The diabase formed by crystallization of these minerals from a molten rock that cut upward through surrounding Cambrian and Ordovician limestone. This diabase, as it cooled and solidified, recrystallized some of the limestone into marble. Several minerals, such as diopside, actinolite, epidote, and garnet, also formed in the limestone partly as a result of the heat from the diabase and partly as a result of the addition of some chemical elements from the final crystallization of the diabase. Later, additional solutions spread outward

along the top of the diabase into the limestone. The magnetite, hematite, pyrite, chalcopyrite, actinolite and chlorite formed at this stage. Sometimes they replaced the limestone, and sometimes they replaced the previously formed diopside and actinolite. The zeolites, sulfated, hydroxides, and copper carbonates crystallized last, filling open fractures and cavities. The consequence of this series of geologic events has resulted in certain minerals occurring together. Three such examples are the associations 1) magnetite-chalcopyrite-actinolite, 2) zeolites-calcite-magnetite, and 3) garnet-tremolite-calcite-serpentine. The age of the ore deposit is approximately 190 mya, which is within the Triassic period. (cite: Mineral Collecting in Pennsylvania by Lapham, D.M., and Geyer, A.R., 1965)

Collecting

The mines at Cornwall have been closed for some time, and are now imploded and/or flooded. However extensive tailing piles remain. We will be collecting at one such site: the Big Hill, which is owned by the mining company Haines & Kibblehouse. The site consists of several benches on the hill top and a large (100yds x 100yds) 'scree' slope. We may have to walk up to ½ mi. to reach the collecting site. The tailings range from gravel to football-size. Collecting will entail mostly turning over, breaking and examining loose rocks.

Equipment:

Required: Leather boots, safety glasses and hard hat.

Recommended: Gloves, rock hammers, chisels and small sledges (2-5 lb range), wrapping material, backpack, cart or wagon, buckets and flats (I don't think a big sledge is necessary, nor are shovels or screens). **Other:** magnet, hand lens and 0.1M hydrochloric acid. Wear clothing consistent with the season.

Bring lunch, snacks and drinks; there are no food sources nearby.



Cornwall, Pennsylvania: The Big Hill, lower slope.



Cornwall, Pennsylvania: The Big Hill, upper slope.



Cornwall, Pennsylvania: The Big Hill, terraces.

From the Editor

David Glick

THANK YOU to everyone who has been providing material for the Newsletter! Everyone else - join the fun! **Please provide materials for the next issue by June 1, 2015.** Feel free to contact me at xidg@verizon.net, or 814-237-1094 days and evenings (especially Thurs-Sat., otherwise leave a message).

Materials related to Pennsylvania mineralogy, collecting or collectors are invited for this newsletter: articles, long or short; announcements from FM-PA committees; photographs of specimens, field localities, collections, etc.; reports on publications about PA minerals or by PA authors, or actual book reviews; or other items within the mineralogy and mineral collecting areas of interest. Photographs should be of good resolution (1000 pixels across) without much JPEG compression, so that they will look good in print. Please provide captions including photographers' names.

We are producing four issues each year; **your material is needed** to make them worthwhile!. If you know people who have interesting material, please encourage them to submit it.

2015 Friends of Mineralogy Award Winners

reported by

Alexander G. Schauss, PhD

President, Friends of Mineralogy (FM)

The winners of various Friends of Mineralogy awards at the 2015 Tucson Gem & Mineral Show are:

Best Educational Exhibit by an Individual

Eric Asselborn

Sucres: Crystals with the habit called sucre or sugar are also *geschlossen* gwindel or closed gwindel.

Best Educational Exhibit by an Institution

Lead Minerals.

Rice Northwest Museum of Rocks and Minerals,
Portland, Oregon

Best Article published in 2014 in *The Mineralogical Record*

Thomas P. Moore and Rob M. Woodside

The Sar-e-Sang Lapis Mines

Best Article published in 2014 in *Rocks & Minerals*

John I. Koivula and Elise A. Skälwold

Microworld of Diamonds: Images from Earth's Mantle

Best Article published in 2014 in *Mineral News*

Frank Lutwerk-Dudas

Tin and Tungsten Minerals from Butte, Montana

In addition, Friends of Mineralogy awards \$200 to each publication.

Friends of Mineralogy - Pennsylvania Chapter Summary Financial Report 2014

Submitted by Treasurer Ron Sloto

INCOME

Dues	1,129.00
Symposium	1,060.00
Book sales	15.00
Brinton field trip	60.00
Donation	35.00

EXPENSES

Office supplies	91.04
Symposium lanyards	104.00
Newsletter expenses 2013	65.95
National dues	256.00
PA sales tax - books sold 2013	4.39
Donation St Junes Hospital	50.00
Symposium expenses	750.00
Insurance	500.00

TOTAL	\$2,299.00	1,821.38
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UPCOMING EVENTS

March 28-29, 2015: Philadelphia Mineral Treasures and Fossil Fair, by Phila. Mineral. Soc. & Delaware Valley Paleo. Soc. Lulu Temple, 5140 Butler Pike, Plymouth Meeting, PA

March 28-29, 2015: Rock & Mineral Show by Che-Hanna Rock & Mineral Club. Athens Township Vol. Fire Hall, 211 Herrick Ave., Athens PA.
<http://www.chehannarocks.com/show.html>

April 18-19, 2015: North Museum Rock, Mineral & Fossil Show, by North Museum of Natural History & Science. Farm & Home Center, 1383 Arcadia Rd. Lancaster PA

May 2-3, 2015: Treasures of the Earth 2015, Annual Show & Sale by The Mineralogical Society of Northeastern Pennsylvania. Oblates of St. Joseph, 1880 Hwy 315, Pittston PA 18640. Sat 10-5, Sun 10-4.

May 9, 2015: South Penn Spring Swap & Sale sponsored by Central Penn and Franklin County Rock & Mineral Clubs. Outdoor pavilion at South Mountain Fairgrounds, 1.5 miles west of Arendtsville, PA on route 234. 8 a.m. to 3 p.m. Admission Adults \$1.00; Children free. \$5 per table for as many tables as you need; first come basis to set up. Address for GPS: 615 Narrows Road, Biglerville 17307. Contact Tom Smith, tsmith1012@comcast.net

November 7-8, 2015: Friends of Mineralogy - PA Chapter Symposium (Nov. 7, Lancaster, PA) & Field Trip (Nov. 8).

CLASSIFIED ADS

FOR SALE: Long-time Pennsylvania collector John 'Pen' Ambler in Hollidaysburg has books, specimens and more for sale. Pen reports: "I have some 10 – 15 cartons of books on mineral and mineral related subjects. My cataloged collection consist of upwards of 6,000 specimens some of which were the Ed Carper collection. The specimens are cabinet, small cabinet, hand-sized, miniature, thumbnail and micro minerals. Many of the minerals are PA and eastern U.S.; however, it is a varied collection. There are lapidary materials (slabs and some bulk); limited fossils; tumbled stones including PA amethyst; UV materials and equipment; supplies (boxes, etc.)." Please contact Pen by email: bridger@atlanticbb.net

FOR SALE: Collection, Microscope & Accessories, Crystal Models - Avid collector wants these to be purchased by someone who would appreciate them. Contact Frank & Gail Beall, 724-789-7290. Western PA. **See much more complete listing** at www.nittanymineral.org/beall.pdf

DONATIONS WELCOMED

The FM-PA Chapter is a 501(c)(3) nonprofit organization; donations are gratefully accepted and may be deducted from your federal income tax. Donations of any size help to offset the general operating costs of the Society, helping to keep dues low.

FM on the WWW

Please explore the FM-PA web site at
www.rasloto.com/FM/

National News

National FM newsletters, links to other chapters, and much more can be found on their web site:
www.friendsofmineralogy.org

Friends of Mineralogy Pennsylvania Chapter Directory of Officers

OFFICERS and BOARD OF DIRECTORS members

President	Joe Marchesani
Vice President	
Treasurer	Ron Sloto
Secretary	

Members can find Board
 contact information in the
 Newsletter which they
 receive directly.

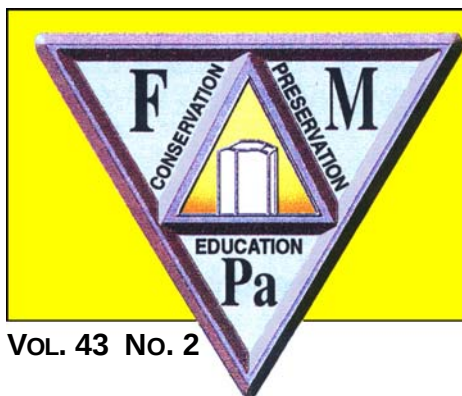
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Newsletter Editor	David Glick
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William Kochanov
 David Glick

Friends of Mineralogy Pennsylvania Chapter Web Site: <http://www.rasloto.com/FM>



FRIENDS OF MINERALOGY Pennsylvania Chapter NEWSLETTER

VOL. 43 No. 2

SUMMER 2015

Symposium Planned for November 7-8

The Board of Directors will soon be working hard on planning our Annual Symposium for the weekend of Saturday, November 7, at Franklin & Marshall College in Lancaster, Pa. If you can help, can give a presentation involving Pennsylvania mineralogy or relevant geology, or know someone who might, please contact Joe Marchesani (see p. 4).

We're looking for ideas for more collecting trips, and volunteers to coordinate trips. If you can help, please contact Joe Marchesani.

Newsletter Back Issues on Web Site

Ron Sloto is working on scanning back issues of the chapter newsletter and putting PDF files on the web site < www.rasloto.com/FM/ >. Watch for more issues being added soon. If anyone has issues that are not online, Ron would greatly appreciate the opportunity to borrow them to scan; contact information is on page 4.

Friends of Mineralogy National Newsletter

The FM National Newsletter is available on their web site, <http://www.friendsofmineralogy.org/newsletters.html>. The January 2015 issue (vol. 45, no. 1) includes a long article (pages 23-33) by Terry Wallace on **Tales from the Tags: Mineral Labels and Specimen Value**. The March issue (vol. 45, no. 2) includes an article reviewing **New Books about Minerals/Mineralogy** on pages 14-16. There's lots more as well, including news from FM on Board of Directors decisions, progress on new and old projects, and new personnel. - Editor

Board Member Volunteers Needed

Our Board of Directors is understaffed! Can you help? If you could volunteer to stand for election to the Board of Directors, and in particular if you might be interested in being Vice President of the Chapter, please contact the President (see p. 4).

Penn State loans Mining & Industrial Art to the Michener Museum

Penn State's Earth and Mineral Sciences Museum is loaning 55 paintings from its Steidle Collection to the Michener Art Museum in Doylestown. The Michener has a new curator whose specialty is Industrial Art; she found out about the Steidle Collection through the book that the EMS Museum had published (*Wonders of Work and Labor: The Steidle Collection of American Industrial Art*, 2009). The show, *Iron and Coal, Petroleum and Steel: Industrial Art from the Steidle Collection*, will run July 11 - October 25; see their web site, <http://www.michenermuseum.org/>

- Editor

Mount Pleasant Mills Field Trip

reported by Mike Dunton

Good weather prevailed on the FM-Pa trip to National Limestone quarry property at Mount Pleasant Mills, Pa., on April 18. The wavellite area on the ridge provided some good specimens, such as the one shown below.



Wavellite collected on FM-Pa field trip, National Limestone quarry property, Mount Pleasant Mills, PA, April 18, 2015

Mineral Locality: Texas, Pennsylvania. Where is Texas?

by
Ronald A. Sloto
West Chester University

I have studied and photographed many old mineral collections. Some mineral specimens from Lancaster County dating from the mid 1850s to the early 1900s are labeled with the locality “Texas, Pennsylvania,” and some are labeled “Wood Mine, Texas, Pennsylvania.” For example, figure 1 shows a label from the collection at West Chester University that reads “Williamsite, Texas, Pennsylvania.” It is likely from the Wood Mine. However, the Wood mine is not in Texas. The USGS topographic maps of the area show that there is no town or village named Texas in Lancaster County.

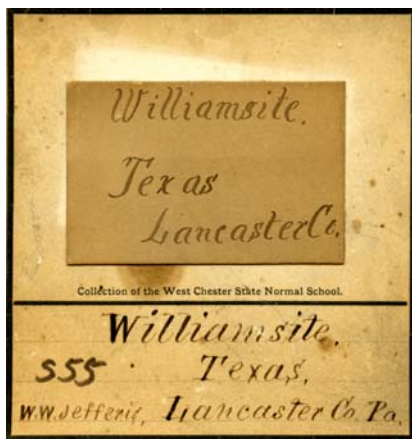


Figure 1. Texas, Pa. label

There was a Texas in Lycoming County, and there is a Texas Township in Wayne County and an East Texas in Lower Macungie Township, Lehigh County. There also is a small village named New Texas in Fulton Township, Lancaster County, about 3.3 miles northwest of the Wood mine. However, there is no Texas in Lancaster County.



Figure 2. 1842 map showing the village of Texas, Lancaster County, Pa.

The Wood Mine was opened in 1828. The first reference to minerals from the Wood Mine appears to be in the third edition of James Dwight Dana's mineralogy published in 1850. The Wood mine is listed in his “Catalog of American Localities of Minerals” under Lancaster County:

“LANCASTER CO. – Near Texas in the south part of the county, at Wood's Chrome Mine, emerald nickel, pennite, kamererite, baltimorite, williamsite, chromic iron, marmolite, picrolite, dolomite, cryst. magnesite, calcite, serpentine.”

The previous version of Dana's Catalog of American Localities of Minerals in the second edition (1844) does not list the Wood Mine or Texas.

Individual township maps for Lancaster County were first published in 1864 by Bare and Bridgens. The 1864 map of Little Britain Township, where the Wood Mine is located, shows the villages of Kinseyville, Eastland, and Wrightsdale, which are much closer than New Texas, which is shown on the 1864 map of Fulton Township.

A county wall map for Lancaster County was published in 1842 by Joshua Scott. The map, part of which is pictured here (figure 2), shows a much larger Little Britain Township and the village of Texas, which was the closest village to the Wood mine in 1842. Therefore, Dana was correct in saying that the Wood Mine was near Texas. Everyone thereafter followed Dana's lead, often dropping the near and just using Texas as the location.

Sometime between 1842 and 1864, Little Britain Township was split into Fulton and Little Britain Townships, and Texas became New Texas. The usual reason for changing the name of a town or village in those days was the establishment of a post office. When the citizens of St. Marys in Chester County wanted to establish a post office, they could not because there was already an established post office with the name St. Marys; they changed the name of their village to Warwick. Likewise, nearby Blue Rock became Elverson in order to establish a post office. The Baldwin and Thomas "New and Complete Gazetteer of the United States" published in 1854 lists Texas as a small village 25 miles SSE from Lancaster and Texas as a post office in Lycoming County. When a post office was established in the Lancaster County village, the residents had to change the name from Texas to New Texas because there was already a post office with the name Texas in Pennsylvania.

You can download PDF copies of Dana's first through sixth editions of his *System of Mineralogy*, as well as many other historical publications, from the FM-PA website. Visit <http://rasloto.com/FM/> and click on the digital books tab.

Virtual Museum of the History of Mineralogy

By Alex Schauss

from Friends of Mineralogy National Newsletter,
vol. 45 no 2 (March 2015) p. 20

This "museum" is a joint initiative of two Europeans, Paul Tambuyser and Claude Hootele, whose interests are in crystallography, classic mineralogy, history of mineralogy and crystallography, and mineral collecting, brought them together to create the website. Numerous museums in Europe and individuals have contributed to this fascinating website dedicated to the history of mineralogy.

The Virtual Museum has a newsletter that updates readers on new acquisitions of historical mineralogy interest including books and mineralogical instruments added to the sites archive. In 2012, for example, they started an archive giving access to an important number of digitalized crystallography catalogs. Previous electronic copies of the semi-annual newsletter are included.

On June 22, 2007, the Virtual Museum of the History of Mineralogy opened to the public. Tambuyser and Hootele experienced that the information in these

fields is dispersed and therefore sometimes difficult to find and to access, particularly for the private collector. With this observation in mind, they started to assemble and eventually offer information regarding the history of mineralogy and crystallography. Initially, they contacted some nearby collectors who were willing to have their treasures photographed and described. Selections of these objects were organized into 5 major collections that have grown over the last eight years that serve to illustrate the history of mineralogy and crystallography in the pre x-ray diffraction era.

These collections include:

Crystallographic goniometers: At present over 50 goniometers are photographed and described. Among them are 24 different contact goniometers illustrating the earliest models till the more recent types used for educational purposes (mainly for measuring crystal models).

Other instruments related to mineralogy and crystallography: They presently show some 20 instruments that were mainly used in optical mineralogy and crystallography (e.g. polarizing microscopes, polariscopes, etc.). Apart from optical instruments there are a few blowpipe sets and an areometer.

Crystal models: The amount of crystal models surviving is pretty large. Initially we present only a small selection in order to give an idea of these interesting objects that were (and some still are) used for educational purposes.

Antique labels and their accompanying mineral specimens: The presence of a label - or possibly of a set of labels - accompanying an early mineral specimen enhances the historical value of both. Some 20 labels together with their accompanying mineral specimen are presently shown in the collection.

Mineralogy and crystallography books: A large amount of early mineralogy and crystallography books need to be described. As a start they have chosen the main works by René Just Haüy, one of the key persons in the development of the sciences of mineralogy and crystallography.

The Museum Shop includes ads from collectors, dealers and prestigious booksellers. The site also has links to antiquarian book dealers worldwide, including Rocks of Ages in the United States <http://www.rxofages.com>, to help readers find mineralogical works of interest.

The link to this fascinating website is:
<http://www.mineralogy.eu>

From the Editor

David Glick

THANK YOU to everyone who has been providing material for the Newsletter! Everyone else - join the fun! **Please provide materials for the next issue by September 15, 2015.** Feel free to contact me at xidg@verizon.net, or 814-237-1094 days and evenings (especially Thurs-Sat., otherwise leave a message).

Materials related to Pennsylvania mineralogy, collecting or collectors are invited for this newsletter: articles, long or short; announcements from FM-PA committees; photographs of specimens, field localities, collections, etc.; reports on publications about PA minerals or by PA authors, or actual book reviews; or other items within the mineralogy and mineral collecting areas of interest. Photographs should be of good resolution (1000 pixels across) without much JPEG compression, so that they will look good in print. Please provide captions including photographers' names.

We are producing four issues each year; **your material is needed** to make them worthwhile!. If you know people who have interesting material, please encourage them to submit it.

UPCOMING EVENTS

Sept. 19-20, 2105: 50th Annual Gem, Mineral & jewelry Show by Central PA Rock & Mineral Club. Zembo Shrine, 3rd & Division Sts, Harrisburg PA Sat 10-6, Sun 10-5.

Sept. 26-27, 2015: Franklin-Sterling Hill Mineral, Gem & Jewelry Show, by FOMS & Franklin Mineral Museum. Franklin Borough School, 50 Washington Ave., Franklin NJ. Sat. 9-5, Sun. 10-4. <http://spmom3.wix.com/franklin-gem-mineral>

October 3, 2015: Autumn Mineralfest, by Penna. Earth Sciences Ass'n. Macungie Memorial Park, Poplar St., Macungie PA. Sat. only, 8:30-3:00. www.mineralfest.com

October 25, 2015: South Penn Fall Rock Swap, by CPRMC & Franklin Cty RMC. South Mountain Fairground, 1.5 mi W of Arendtsville PA on Rt 234.

November 7-8, 2015: Friends of Mineralogy - PA Chapter Symposium (Nov. 7, Lancaster, PA) & Field Trip (Nov. 8).

CLASSIFIED ADS

FOR SALE: Long-time Pennsylvania collector John 'Pen' Ambler in Hollidaysburg has books, specimens and more for sale. Pen reports: "I have some 10 – 15 cartons of books on mineral and mineral related subjects. My cataloged collection consist of upwards of 6,000 specimens some of which were the Ed Carper collection. The specimens are cabinet, small cabinet, hand-sized, miniature, thumbnail and micro minerals. Many of the minerals are PA and eastern U.S.; however, it is a varied collection. There are lapidary materials (slabs and some bulk); limited fossils; tumbled stones including PA amethyst; UV materials and equipment; supplies (boxes, etc.)." Please contact Pen by email: bridger@atlanticbb.net

FOR SALE: Collection, Microscope & Accessories, Crystal Models - Avid collector wants these to be purchased by someone who would appreciate them. Contact Frank & Gail Beall, 724-789-7290. Western PA. **See much more complete listing** at www.nittanymineral.org/beall.pdf

DONATIONS WELCOMED

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FM on the WWW

Please explore the FM-PA web site at
www.rasloto.com/FM/

National News

National FM newsletters, links to other chapters, and much more can be found on their web site:
www.friendsofmineralogy.org

Friends of Mineralogy Pennsylvania Chapter Directory of Officers

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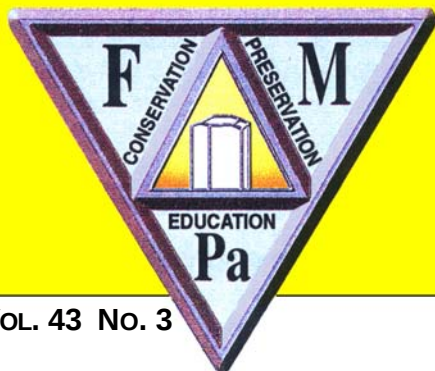
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William Kochanov
David Glick

Friends of Mineralogy Pennsylvania Chapter Web Site: <http://www.rasloto.com/FM>



FRIENDS OF MINERALOGY Pennsylvania Chapter NEWSLETTER

VOL. 43 No. 3

FALL 2015

Register Now for our Annual Symposium Recent Advances in Mineralogy: Pennsylvania and Universal Applications

Mineral Collecting Enthusiasts Meet and Learn

November 7-8, 2015

Franklin and Marshall College, Lancaster, PA

Please Register in Advance

The Friends of Mineralogy – Pennsylvania Chapter will hold their 2015 Symposium and field trip on the first weekend in November. Mineral collectors in attendance on Saturday will meet in the Hackman Physical Sciences Building at Franklin & Marshall College, Lancaster, PA., to hear five talks by experts on minerals, geology and mining in Pennsylvania and beyond. On Sunday, a field trip for those registered for the symposium will provide an opportunity for mineral collecting.

The program planned for the symposium includes these presentations:

Michael Stefanic, PG: Phosphate Minerals in Pennsylvania

Bill Stephens, PG: Preliminary Evaluation of the Mount Pleasant Mills Wavellite Occurrence

Ron Sloto, PG: The Geology and Mineralogy of the Grace Mine

Ian Saginor, PhD: Volcanic Evolution of Central America

Stan Mertzman, PhD: Mineralogy of the Surface of Mars

All interested mineral collectors are invited to register and attend. As usual, select mineral dealers will be present, and there will be a silent auction of donated specimens, books, tools, etc. (please donate!); give-away table; and refreshments. Lunch is available at restaurants within walking distance. Please see the web site <http://www.rasloto.com/FM/> for details, updates, and the registration form.

The mineral collecting field trip on Sunday is planned for a location where a variety of minerals may be available. Details will be given at the symposium. The trip is open only to symposium registrants. Safety equipment will be required.

Registration: \$25 for non-members, \$15 for current FM-Pa members; free for students with student ID.

Please register in advance; a **form is included** with this Newsletter, and is available on the web site. 2016 dues may also be paid using the symposium form. Professional Geologists: lecture attendance qualifies for PDHs.

Contact: Joe Marchesani

e-mail: Jmarch06@comcast.net phone: 609-433-5129

President's Message

I'm looking forward to the symposium. We will have a silent auction and word has it there will be some great specimens abound. Mineral specimen donations towards the silent auction are always welcome. Funds from the silent auction go towards keeping membership prices stable. There are currently no plans to raise membership prices, and we want to keep it that way. The silent auction will either end around lunch or follow lunch, which is a great time to meet others. There are five speakers, and therefore 5 PDH's available. Not a bad deal for \$15 (members fee)! Two of the professional presentations are on the wavellite occurrence that we have all come to know and admire. They should supplement each other quite well. From a personal perspective, I am fascinated by this occurrence and even more so when I break out the UV light on the stuff... WOW! The symposium and subsequent field trip to the "newer" Cornwall collecting locality has come together quite nicely. I am grateful for the help provided by Tom Pankratz, and the entire FM-PA board.

Tentative field trips for the Spring 2016 season are Brinton's Quarry and Mount Pleasant Mills. Although these have not been put together yet, they pend. There are currently no field trips planned for Fall 2015 except Cornwall as part of the Symposium. This year, as was last year it will be a joint trip with DMS. This joint trip theme is becoming more common, and seems the way in future trips. There is another possible joint trip with the New Jersey Chapter (see page 2). However, field trips could change so keep an eye out, and your email (if you have one) open.

We have time to get ourselves another Fall 2015 field trip, and Spring 2016 field trip. We're looking for more collecting trip ideas (localities and contact persons), and volunteers to coordinate them. In particular, for contacts, we would like to know who took Bob Buckmoyer's place at H&K. Bob was instrumental in helping us collect at Cornwall, and he is surely missed. Any assistance here or help is greatly appreciated. If you can help with any of this, please contact me.

Keep the chisel down. -Joe

PLEASE SEE PAGE 2 FOR:

Martin Anné Elections October 17 field trip

Field Trip Notice: Burkholder Quarry Saturday, October 17, 2015

Friends of Mineralogy - Pa Chapter has been invited by our neighbors, the New Jersey Chapter, to participate in a joint field trip to Burkholder Quarry, near Ephrata, Lancaster County, PA.

*** Our participation is **contingent upon** an FM-Pa member stepping forward to be in charge of the Pa Chapter on-site. If you can do this, please notify Joe Marchesani as part of your RSVP. ***

FM-Pa members planning to attend must RSVP to Joe Marchesani: e-mail <jmarch06@comcast.net> or if you don't have e-mail, leave voicemail at 609-433-5129. We must have your contact information so that we may contact you in case of cancellation or changes.

The group will meet at the quarry at **8:00 a.m.**, Saturday, October 17. This is a working quarry and full safety gear is required. Please be on time and help make a success of this joint trip experiment with our new partners of the New Jersey Chapter. The site address is:

Martin Limestone Burkholder Quarry
606 Martindale Road
Ephrata, PA 17522

A writeup on the geology and minerals has been provided on the Delaware Mineralogical Society web site: <http://www.delminsociety.net/fieldtrips/burkholder.htm>. The Mindat locality page is at <http://www.mindat.org/loc-220305.html>. The quarry is known for fluorite and calcite specimens. The cover of the 2014 FM-Pa Symposium program featured a photo of small (3-4mm) fluorite crystals on calcite from Burkholder.

Pennsylvania Geological Survey Photograph Collection Going Online

Pennsylvania Geology magazine online (v. 45 no. 2) announces that "Our library personnel have started scanning the Survey's photograph collection, and we are making it available online at <http://contentdm1.accesspa.org/cdm/search/collection/spgsl-photo>."



"Middle Hill" pit, Cornwall. 1922 photo by George H. Ashley, from Pennsylvania Geological Survey historical photograph collection online.

Elections and Annual Meeting at Symposium

FM-Pa Chapter will hold a brief Annual Meeting of the Membership, including elections of candidates for three-year terms on the Board of Directors, as part of the Symposium on November 7. Only paid-up members of the Chapter may vote in the election. Candidates are:

Bill Kochanov	Dianne Soccio
Ron Sloto	Bill Stephens

In Memoriam: Martin L. Anné

We've received the sad news that FM-Pa Life Member Martin Anné died on September 19th. Martin was a very active member, a past Chairman of FM Region 3 (pre-dating the Pa. Chapter), and for many years the keeper of the list of valid Pennsylvania mineral species.

Your reminiscences, stories and photographs of Martin are requested, for inclusion in a tribute in the next issue. Please mail or e-mail them to the Editor (see p. 8); all materials will be returned if requested. - Editor

Friends of Mineralogy National Newsletter

The FM National Newsletter is available at <<http://www.friendsofmineralogy.org/newsletters.html>>. The July 2015 issue (vol. 45, no. 3) includes an extensive President's Message; the first article in a series on mineral knowledge 100 years ago; Tsumeb azurites; contemporary contributors to mineralogy: William W. Besse, M.S.; new books; chapter reports (including our own Ron Sloto's article on Texas, Pa.); and the article on the China Gem & Mineral Show which is reprinted on pages 3-7 of this Newsletter. There's lots more as well.

National newsletter editor Beth Heesacker invites articles (as does this Chapter Newsletter). The next deadline for the FM National Newsletter is September 28th, and next after that should be December. - Editor

Mining & Industrial Art Show Continues with Lecture

The James A. Michener Art Museum exhibit *Iron and Coal, Petroleum and Steel: Industrial Art from the Steidle Collection*, featuring 54 paintings loaned by Penn State's Earth and Mineral Sciences Museum & Art Gallery, runs from July 11 to October 25. Related events at the museum in Doylestown include a guest lecture on September 29 by Penn State's Julianne Snider, assistant director for exhibits and collections for the Earth and Mineral Sciences Museum & Art Gallery. The lecture, "Steidle's Vision: Art as Education", is described at <http://www.michenermuseum.org/events/?id=422>. Also see the web site <http://www.michenermuseum.org/> - Editor

380,000 Attend Four-day 3rd Annual Gem & Mineral Show in Chenzhou, China

by Alexander Schauss, PhD

Photos by Nora Chen

from Friends of Mineralogy National Newsletter, vol. 45 no. 3 (July 2015), p. 30-36

A record turnout of 380,000 attended the 3rd Annual China Gem and Mineral Show (CGMS), held in Chenzhou, Hunan, China, over a four-day period, from the 22nd to the 25th of May 2015. This is without a doubt the largest attendance by far of any gem and mineral show held in the world to date. The unique person attendance estimate was over 150,000 visitors.

Attending the show from the United States as guests of the Ministry of Land and Resources of Hunan People's (Provincial) Government, was Gene Meieran, Sc.D., Chair of the University of Arizona Mineral Museum Advisory Board, Peter Megaw, PhD, Show Chair of the Tucson Gem & Mineral Show (TGMS), and myself, representing Friends of Mineralogy. During our visit we made five presentations related to minerals, the evolution and history of major mineral shows around the world, and our mineralogical interests, at a two-day open Summit and Education Forum on Minerals, held in conjunction with the gem and mineral show.

A mountainous province, Hunan is located on the south bank of the Yangtze River, in southern China. It was the birthplace and early home of Mao Zedong. Northwestern Hunan is distinguished by the Wulingyuan Scenic Area that consists of thousands of quartzite sandstone columns, the Langshan mountains, numerous caves and waterfalls, and 17 UNESCO World Heritage sites. Hunan province and the surrounding provinces of Guangdong, Guizhou, Hubei, Jiangxi, and Sichuan form China's most important geological zones of interest. For example, the tungsten-mining area of



Gene Meieran, Alex Schauss and Peter Megaw at the CGMS Show in China

Yaogangxian in Chenzhou's Yizhang County where 308 different mineral species have been identified, some not found anywhere else in the world. This same area is China's largest producer of wolframite ((Fe,Mn)(WO₄). The mines around the town of Shizhuyuan in Chenzhou Prefecture has had 143 minerals identified. The province is noted for its stibnite (Sb₂S₃) mines and specimens found in the center of the province in the Lengshuijiang area, noted for its rich deposits of antimony (Sb) that produce more than 50% of the world's production. The region's graphite crystals account for 70% of the world's reserves. Tin ore is mined in Xianghualing, Linwu County, tungsten ore in Yaogangxian, Yizhang County, and in Rucheng, Rucheng County.

Nearly 75 million Chinese live in Hunan Province, divided into 14 prefectures, 122 counties, and 2576 townships, whose provincial seat is Changsha to the



Photo courtesy of Wikipedia, <https://en.wikipedia.org/wiki/Wulingyuan> [by chensiyuan; "Five Fingers Peak" in Hunan Province; "quartzite sandstone"]

north, with a population of over 7 million.

Beihu is the administrative seat of Chenzhou Prefecture. The province and mines around Chenzhou are well known by collectors of Chinese minerals, as the city sits in the middle of numerous mines that have yielded an extraordinary variety minerals for collectors, still actively producing specimens for collectors. Chenzhou with a population of nearly 5 million is literally surrounded by mines.

During our stay in the province we had the opportunity to visit the Baoshan ore field (Baoshan mine), a porphyry, skarn and vein-type polymetallic deposit, related to granodiorite intrusions, rich in antimony (Sb), bismuth (Bi), copper (Cu), fluorine (F), lead (Pb), magnesium (Mg), molybdenum (Mo), tungsten (W), and zinc (Zn), located near the ancient city of Guiyang, in Guiyang County, Chenzhou Prefecture. The CGMS Organizing Committee provided us and our translators a remarkable mine tour open to the public for a very nominal fee that takes visitors on an underground tour at the Baoshan National Mine Park, using old rail cars to see over 20 exhibits illustrating, in a Disneyland-style, methods that were used for the last 2,500 years beginning with the post-neolithic Xia (ca. 2100-1600 BCE), Shang (ca. 1600-1050 BCE), and Zhou (1046-256 BCE) dynasties, to extract ore from the mine. The mining technologies employed during the Han (206 BCE-220 CE), Sui (581-618 CE), Tang (618-906 CE), and Song and Yuan dynasties (960-1368 CE), were of particular interest as one could see how miners worked at the time to mine the ore and hoist it to the surface for processing.

As we left the underground mine museum we walked across the parking lot to see the Baoshan open pit mine, which in our opinion was as large as any open pit mine in Arizona, with the caveat that this open pit mine wasn't mined with machinery it was mined by hand over hundreds of years!

Afterwards we were taken to the Baoshan Mining and Mineral Museum, part of the National Mine Park, that utilizes advanced educational displays providing exhibits that cover virtually every method used in the



Alex Schauss pointing to location of Chenzhou on a map of China's provinces in the Baoshan National Mine Park in Guiyang County.

recent past and present in mining. The three of us agreed we could have spent the entire day just in this part of the museum, which provided English and Chinese signage, before heading upstairs to see the mineral displays on the second floor. Unfortunately, we spent so much time in the underground mine and on then on the main floor of the museum that by the time we were ready to go upstairs to see minerals we had to return to Chenzhou to attend the CGMS.

When we arrived at the CGMS, the turnout was massive, or as Gene called it, "historic." The photo below illustrates when it looked like when we arrived on day-2 back from the mine and museum tour.

The show's theme was "The Greatest Mineral and Gem Exhibition in Asia," organized by the Hunan provincial government, the Ministry of Land and Resources, the China (Chenzhou) Mineral and Gem Show, and its organizing committees. It was held in the Chenzhou Convention Center that provides 100,000 sq. meters of floor space that can accommodate 2,600 booths on two floors. Booth space toward the front of the entrance was provided for overseas exhibitors and dealers, some of which came from as far as South Africa, Pakistan, India and the United States, including The Arkenstone (Richardson, Texas) and Collector's Edge Minerals (Golden, Colorado). There were also quite a few dealers from the United States walking the show floor, some of which had attended either the first or



Record turnout of over 80,000 show up on day-two (Saturday) of the four-day GMS in Chenzhou, Hunan Province.



Chenzhou Convention Center, Hunan Province, site of the China Gem and Mineral Show (CGMS).

second or both CGMS shows that had previously been held in Changsha, Hunan Province, and had been coming to China for years to acquire specimens for their customers.

To help traverse the show floor, and converse with Chinese booth holders, take photos of mineral exhibits, and talk to attendees, the organizing committee provided junior-college-level English translators from Xiangnan University (XNU) in Chenzhou. To assist foreign English speaking guests, over 100 English translators volunteered to serve in this capacity studying English at XNU.

What surprised me was how many young children and their parents attended the show, not just to look but to purchase minerals for their children. It was fun watching the kids use their smart phones to take photos of their favorite specimens, and then haggle with the dealer on price.



Parents watch their youngest child's interest in minerals. Small minerals especially appeal to younger children.

The variety of minerals, particularly the size of many on exhibit or for sale which I called "folk lift specimens", was an eye opener wherever one turned, near set-aside exhibits or in large dealer booths, as illustrated in the photo below.



Xiangnan University English translator (Nora Chen, photographer) next to “fork lift” size green fluorite crystals on calcite from Shangbao, Hunan Province, China.

Other specimens were more manageable and aesthetically appealing as illustrated by the following photos.

CGMS’s historic attendance record was partially due to the support it received from the government. To encourage attendance, the city of Chenzhou declared a four-day holiday. Tickets to attend the show were free if registered in advance online. All tickets were numbered sequentially. Without a ticket, one had to pay 50 yuan (~US\$8.00) on show days.

Upon entering the convention grounds, one presented their ticket to staff at the gate, and then went through a turn style, which also kept track of attendance numbers. This system of anticipating turnout provided time



Babingtonite with prehnite and quartz (~15 cm), Qiaojia, Zhaotong Prefecture, Yuannan Province, China.



Purple fluorite (~10 cm) from Yaogangxian mine, Yaogangxian W-Sn ore field, Yizhang County, Chenzhou Prefecture, Hunan Province, China.

for organizers to determine what resources were needed to handle the crowds each day. Despite such planning the attendance proved to be overwhelming on Saturday when they had to stop people at the gate from coming into the show for much of the day as over 60,000 had entered the convention center by mid-day. After a while they opened the gates again, and another 20,000 added to the day's total. Both on Saturday and Sunday I saw lines that stretched over five long city blocks waiting to attend the show. Unlike crowds to many events I have witnessed over the years in China, the lines in Chenzhou were remarkably orderly, a credit to the community and its citizens.

What about next year's show? At this time no decision has been made whether to hold CGMS in Chenzhou or return it to Changsha, where it was held the first two years. Changsha has a sizeable regional airport and connects to major cities in China. To get to Chenzhou, one flies into either Guangzhou Province or Chansha and then takes a bullet train which whisks you to Chenzhou from either location at 311 km/hr (~193 miles/hr). It's a very pleasant ride that allows one to see the countryside. Chenzhou does have an airport, however, it has not yet re-ceived permission to open. If it does, this would make it much easier for foreign visitors to reach Chenzhou. Until then, it will be up to the government to decide which city gets the 4th China Gem & Mineral Show venue. If it is in Chenzhou again, I'd highly recommend that if you attend, spend a few extra days before or after the show, or during the four-day show visiting one of five destinations near the city related to its geology and/or mining history.

One tip is to get to the city several days before the show. Houfu Rare Stone Street has gem and mineral shops as well as stores that sell ornamental stones, known as "viewing stones," very popular in China. One viewing stone association in China has over 2.5 million members. Houfu Street is also where one can find Tongtian, Huanglong, and ink jade. If seeking fossils, be mindful that taking any fossil from China is strictly prohibited. An early visit provides a chance to see what's available before many shopkeepers head to the show to be in their booth or walk the floor.

The city also has three museums: the High-tech Zone International Nonferrous Metals Museum, the Chenzhou Geological Science Museum, and the Chenzhou Minerals and Gem Museum, along with four mine tourism sites, including: the Wanhuayan Karst Cave; Feitian Mountain Geological Museum; the mines of Peizhuyuan; and, Baoshan National Mine Park.

If the next CGMS brings you to Changsha, the Hunan Museum of Geology would be well worth visiting in the Tianxin District of the city. ✱



The FM-Pa Chapter Board of Directors met on August 29, 2015; left to right: Board candidate Bill Stephens; President Joe Marchesani; Board candidate Dianne Soccio; former Pres. Arnold Mogel; Board member David Glick. C. Mogel photo.

The Tucson Gem and Mineral Society
proudly presents the
2016 Tucson Gem and Mineral Show®

"Shades of Blue: Minerals of the World"
February 11–14, 2016

SMG-Tucson Convention Center

from their web site <http://www.tgms.org/show-2015/>

Exhibits

Our show exhibits provide a rare window into private and museum collections of the mineral world's stars. It is with great pride that the Tucson Gem and Mineral Society and the Tucson Gem and Mineral Show® Committee showcase different treasures each year.

Kids and the Show

The Tucson Gem and Mineral Show® features two separate annual events that focus on kids. The Society's hope is to create an impact on curious young minds, and share the delight in the science and beauty of minerals and related earth sciences.

Supporting Mineral and Earth Sciences Organizations

Non-profit mineral and earth sciences organizations are invited, at no cost to them, to participate at the show. Each organization staffs their own booth and meets with the public to share an abundance of information.

Saturday Night Program

The Saturday Night Dinner Program on February 13, 2016 will include a silent auction, buffet, awards ceremony, slide competition awards and a voice auction.

Lectures & Seminars

Lectures and seminars are held Thursday through Sunday of the Show week in the Crystal Ballroom and Turquoise Ballroom at the SMG-Tucson Convention Center. They are open to the public and free of charge.

Show Retail Dealers

There are an estimated 250 retail dealers sharing the Exhibition Hall and the Arena areas of the Tucson Convention Center. An unparalleled variety of mineral, fossil, jewelry, lapidary crafts and related publications are presented under one roof.

School Visits

The Society and the Show Committee invite approximately 3,000 Arizona elementary school students from grades 3-5 to attend the Tucson Gem and Mineral Show® free of charge with their teachers and chaperones.

UPCOMING EVENTS

Sept. 26-27, 2015: Franklin-Sterling Hill Mineral, Gem & Jewelry Show, by FOMS & Franklin Mineral Museum. Franklin Borough School, 50 Washington Ave., Franklin NJ. Sat. 9-5, Sun. 10-4.
<http://spmom3.wix.com/franklin-gem-mineral>

October 1-3, 2015: Mineral & Fossil Yard Sale by Tom Smith, 10 Roger Av., Shippensburg PA. Thurs. 6 p.m. - 8 p.m., Fri 8-1 and 6-8, Sat 8 a.m. - 1 p.m., or by appt. 100+ flats of specimens. 2.1 mi from center of town on Earl St Extended (Rt 696 heading N/W) past Shippensburg Univ. Ph. 717-552-6554, tsmith1012@comcast.net

October 3, 2015: Autumn Mineralfest, by Penna. Earth Sciences Ass'n. Macungie Memorial Park, Poplar St., Macungie PA. Sat. only, 8:30-3:00.
www.mineralfest.com

October 24, 2015: Ultraviolation - Fluorescent minerals show by Rock & Mineral Club of Lower Bucks County. First United Methodist Church, 840 Trenton Road, Fairless Hills, PA, 9a.m. - 5 p.m. Door Prizes, vendors, food, fun!
<http://rockandmineralclub.wix.com/lowerbuckscountypa>

October 31, 2015: (Note this correct date) South Penn Fall Rock Swap, by CPRMC & Franklin Cty RMC. South Mountain Fairground, 1.5 mi W of Arendtsville PA on Rt 234. Sat. only, 8:30-3:00. For GPS, use address: 615 Narrows Road, Biglerville, PA 17307. General admissions \$1.00/person. Table for Swappers \$5.00/table. Contact: tsmith1012@comcast.net

November 7-8, 2015: Friends of Mineralogy - PA Chapter Symposium (Nov. 7, Lancaster, PA) & Field Trip (Nov. 8). **See page 1.**

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From the Editor

David Glick

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Materials related to Pennsylvania mineralogy, collecting or collectors are invited for this newsletter: articles, long or short; announcements from FM-PA committees; photographs of specimens, field localities, collections, etc.; reports on publications about PA minerals or by PA authors, or actual book reviews; or other items within the mineralogy and mineral collecting areas of interest. Photographs should be of good resolution (1000 pixels across) without much JPEG compression, so that they will look good in print. Please provide captions including photographers' names.

We are producing four issues each year; **your material is needed** to make them worthwhile!. If you know people who have interesting material, please encourage them to submit it.

FM on the WWW

Please explore the FM-PA web site at
www.rasloto.com/FM/

National News

National FM newsletters, links to other chapters, and much more can be found on their web site:
www.friendsofmineralogy.org

Friends of Mineralogy Pennsylvania Chapter Directory of Officers

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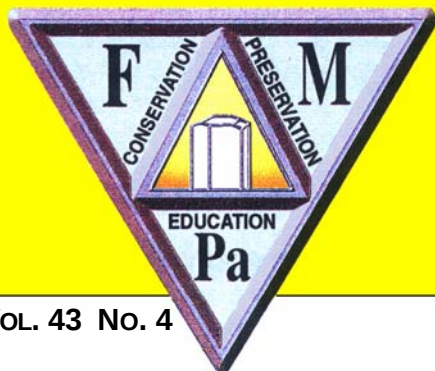
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William Kochanov
 David Glick

Friends of Mineralogy Pennsylvania Chapter Web Site: <http://www.rasloto.com/FM>



FRIENDS OF MINERALOGY

Pennsylvania Chapter

NEWSLETTER

VOL. 43 No. 4

WINTER 2015

Annual Symposium

Recent Advances in Mineralogy:

Pennsylvania and

Universal Applications

The Friends of Mineralogy – Pennsylvania Chapter held our 2015 Symposium on November 7, with a field trip to the mine dumps of Cornwall, PA, on November 8. See the illustrated article on pages 2-5. The presentations were:

Stan Mertzman, PhD: Mineralogy of the Surface of Mars

Ron Sloto, PG: The Geology and Mineralogy of the Grace Mine

Michael Stefanic, PG: Phosphate Minerals in Pennsylvania

Bill Stephens, PG: Preliminary Evaluation of the Mount Pleasant Mills Wavellite Occurrence

Ian Saginor, PhD: Volcanic Evolution of Central America

Board Members and Officers

Elected at Symposium

During the Symposium, FM-PA Chapter held a brief Annual Meeting of the Membership, including electing the following candidates for three-year terms on the Board of Directors:

Bill Kochanov,	Dianne Soccio,
Ron Sloto,	Bill Stephens.

Following the close of the symposium on Saturday afternoon, the Board of Directors met to elect the four officers for the coming year from within the Board, as prescribed in the Bylaws. They are:

President	Joe Marchesani
Vice President	Dianne Soccio
Treasurer	Ron Sloto
Secretary	David Glick

Officers, Board members and committee chairs are always shown on the final page of this newsletter.

National Friends of Mineralogy

Elections

Those receiving this Newsletter in print will find enclosed pages 4 (Nominated Candidates) and 5 (Ballot) for national Friends of Mineralogy Board of Directors, from the national Newsletter, January, 2016. Instructions for voting and mailing are on page 5; ballots must be received before February 13.

For those receiving this newsletter via e-mail, the entire January national Newsletter will also be sent, and the ballot can be found on page 5.

See pages 10-11 of this issue for the Midwest Chapter's Symposium, Midwest Fluorites, to be held March 12 at Miami University, Oxford, Ohio.

Pennsylvania Geology Magazine

The Pennsylvania Geological Survey's magazine, Pennsylvania Geology, can be found on their web site; volume 45 number 3 is now available. In the editorial, Dr. Gale C. Blackmer introduces herself as the new State Geologist, the first woman in that position. The issue includes articles on Conodoguinet Cave, in Carlisle, and the 2015 Field Conference of Pennsylvania Geologists, which met in the anthracite coal region. Among the new Survey publications announced are the second edition of Educational Series 11, Sinkholes in Pennsylvania, by William E. Kochanov. This and most other Survey publications are available for download from <http://www.dcnr.state.pa.us/topogeo/publications/>

It has been some time since this Newsletter covered Pennsylvania Geology magazine. One article of mineralogical interest was in the Winter 2014 issue (vol. 44, no. 4): Mineralogy at the Pennsylvania Geological Survey - 1973 Versus Now, by John H. Barnes and Robert C. Smith, II.

In Memoriam: Martin L. Anné

Reminiscences and information on FM-Pa Life Member Martin Anné, who died on September 19th, are still invited for a memorial article. Please mail or e-mail them to the Editor (see p. 8); all materials will be returned if requested.

- Editor

2016 Symposium Provides Five Presentations and Plenty of Activities



Joe Marchesani, Friends of Mineralogy - Pennsylvania Chapter President, and Dr. Stan Mertzman, our host at Franklin & Marshall College, prepare to open the Symposium.



Ron Sloto spoke on The Grace Mine, New Morgan Borough, Berks County, Pennsylvania.

Dr. Stan Mertzman spoke on Mineralogy of the Surface of Mars.



Michael Stefanic's presentation addressed Phosphate Minerals in Pennsylvania, including some historic collecting localities.



The Adams Auditorium provides a comfortable venue for our Symposium.



Bill Stephens addressed a currently popular phosphate collecting site in his talk on Preliminary Evaluation of the Mount Pleasant Mills Wavellite Occurrence, National Limestone Quarry, Mount Pleasant Mills, Snyder County, Pennsylvania.



The presentation by Dr. Ian Saginor, second from left, on Evolution of Volcanism in Central America, was supported by 3D printed models of volcanos, which were later examined by the audience.



The silent auction of donated specimens and publications was successful in raising funds and providing "food for thought" and conversation.



The Friends of Mineralogy – Pennsylvania Chapter held its 2015 Symposium on November 7, with a field trip on November 8. The symposium theme was **Recent Advances in Mineralogy: Pennsylvania and Universal Applications.** The attendance was up slightly from recent years, with fifty people taking part. Professional Geologists were able to receive Professional Development Hours for lecture attendance.

The Chapter is grateful for the use of Adams Auditorium in Kaufman Hall for lectures, and the teaching lab for silent auction and social activities, as arranged by Dr. Stan Mertzman.

Symposium Field Trip Visits New Sites at Cornwall



Bob Benson photo



Spray of pink stilbite crystals from the golf course dumps.
Mike Dunton specimen & photo.



Bob Benson photo

The symposium field trip took place Sunday at the mine dumps of Cornwall, Pennsylvania. Among the sites available for collecting were two on the property of the Iron Valley Golf Club, which had not been visited by this group before. Permission for field trip attendees to collect on the golf course property was greatly appreciated.

This was a joint trip with Delaware Mineralogical Society (DMS). DMS member Bob Benson reports identifying the following minerals collected from the tailings piles: hematite, diopside, epidote, chlorite, chalcopryite, brochantite, chalcantite, calcite, pyrite, azurite, malachite, actinolite (?), and mottramite (?). The last two are less certain, but came from the best effort to key them out from mineral guide books.



Photo courtesy of Kim & Sarko Yepremian



Photo courtesy of Kim & Sarko Yepremian

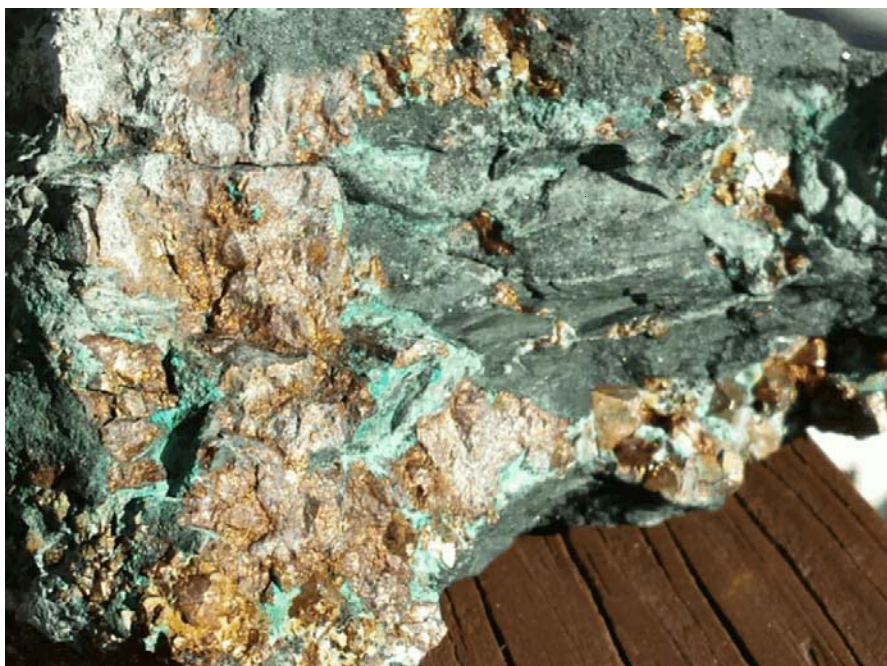


Photo courtesy of Kim & Sarko Yepremian



Photo courtesy of Kim & Sarko Yepremian



Photo courtesy of Kim & Sarko Yepremian



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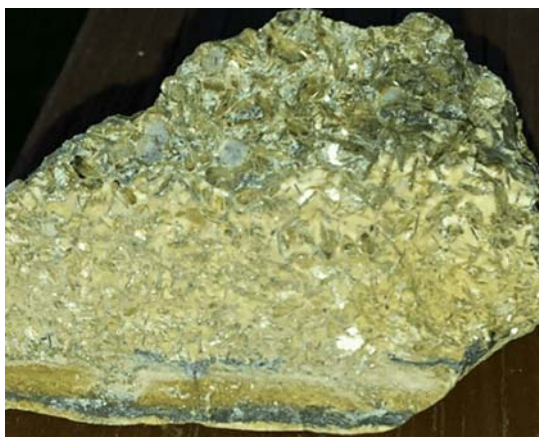


Photo courtesy of Kim & Sarko Yepremian

A LOOK BACK AT THE FIRST FRIENDS OF MINERALOGY PENNSYLVANIA CHAPTER SYMPOSIUM

by Ron Sloto

The first Friends of Mineralogy Pennsylvania Chapter Symposium was held on November 2-4, 1973, at Lafayette College in Easton. The three-day symposium featured a social hour and Pennsylvania mineral swap on Friday night, presentations on Saturday, and a field trip on Sunday. The photographs were taken by Martin Anné.

On Saturday, presentations were made by Dr. Raymond Grant (Lafayette College), Dr. Arthur Montgomery (Lafayette College), Delbert Oswald (Carnegie Museum of Natural History), Dr. Donald Hoff (William Penn Museum), Dr. Robert Smith II (Pennsylvania Geological Survey), Milton Leet (Bethlehem Steel Corporation), Dr. Alice Weeks (Temple University), Dr. Deane Smith (Pennsylvania State University), and Dr. John Way (Pennsylvania Geological Survey). Dinner in the Lafayette College cafeteria was followed by discussion and more swapping.

PROGRAM

Friday, November 2, 1973

7:00 PM to 8:30 PM Registration

8:30 Pennsylvania Geology for Mineral Collectors
Dr. Raymond Grant, Department of Geology, Lafayette College

9:30 Social Hour (Refreshments)

TABLES AVAILABLE FOR SWAPPING PENNSYLVANIA MINERALS

Saturday, November 3, 1973.

8:00 AM to 4:00 PM Facilities available for the identification
of Pennsylvania Minerals (microscopes and x-ray equipment)

8:00AM to 9:00 AM Registration for those arriving Saturday

PENNSYLVANIA MINERAL COLLECTIONS

9:00 AM The Philadelphia Academy of Natural Sciences
Collection and Sam Gordon
Dr. Arthur Montgomery, Department of Geology,
Lafayette College

9:30 The Jefferis' Collection, Carnegie Institute, Pittsburg
Delbert Oswald, Associate Curator of Mineralogy,
Carnegie Institute

10:00 The William Penn Memorial Museum Collection
Dr. Donald Hoff, Curator of Minerals
William Penn Museum

10:30 Coffee Break (Refreshments)

Thank you to Steve Carter for donating
Marty's photos to the FM-PA archives.



Fig. 1 Approximately 125 interested in collecting and conserving Pennsylvania minerals attended the first symposium.

PENNSYLVANIA MINERAL LOCALITIES (REGIONAL)

- 11:00 Pb-Zn occurrences in Pennsylvania
Dr. Robert Smith, Pennsylvania Geological Survey
- 11:15 Minerals of the Cornwall type iron deposits Milton Leet,
Bethlehem Steel Corporation
- 11:30 Uranium occurrences in Pennsylvania
Dr. Alice Weeks, Department of Geology, Temple University

12:00 Lunch (available in school cafeteria)

PENNSYLVANIA MINERALS

- 1:30 Characterization problems in defining a new mineral
Dr. Deane Smith, Department of Geosciences
Pennsylvania State University
- 2:15 Wurtzite
Delbert Oswald, Curator of Mineralogy, Carnegie Museum
- 2:45 Definition of a mineral and the minerals associated with
the burning coal mines
Dr. Davis Lapham, Pennsylvania Geological Survey

3:15 Coffee Break (Refreshments)

3:45 to 5:30 Pennsylvania Mineral Clubs

A discussion of the role of Pennsylvania Mineral Clubs
and Friends of Mineralogy. Each club which desires
will be given time to make their feelings known.

5:30 Dinner (available in school cafeteria)

7:30 to ? Mineral Swap, Informal Discussion, Social Time

Sunday, November 4

Possible field trips - Williams Quarry, Friedensville,
Hellertown Phosphates - as requested by attendees.



Fig. 2 Dr. Raymond Grant spoke on Pennsylvania geology for mineral collectors.

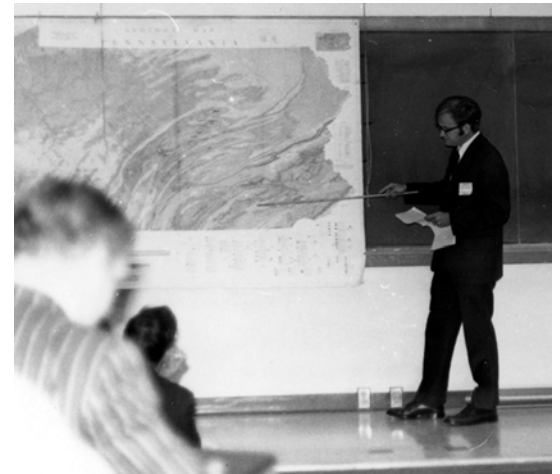


Fig. 4 Dr. Robert Smith II spoke on lead and zinc occurrences in Pennsylvania.

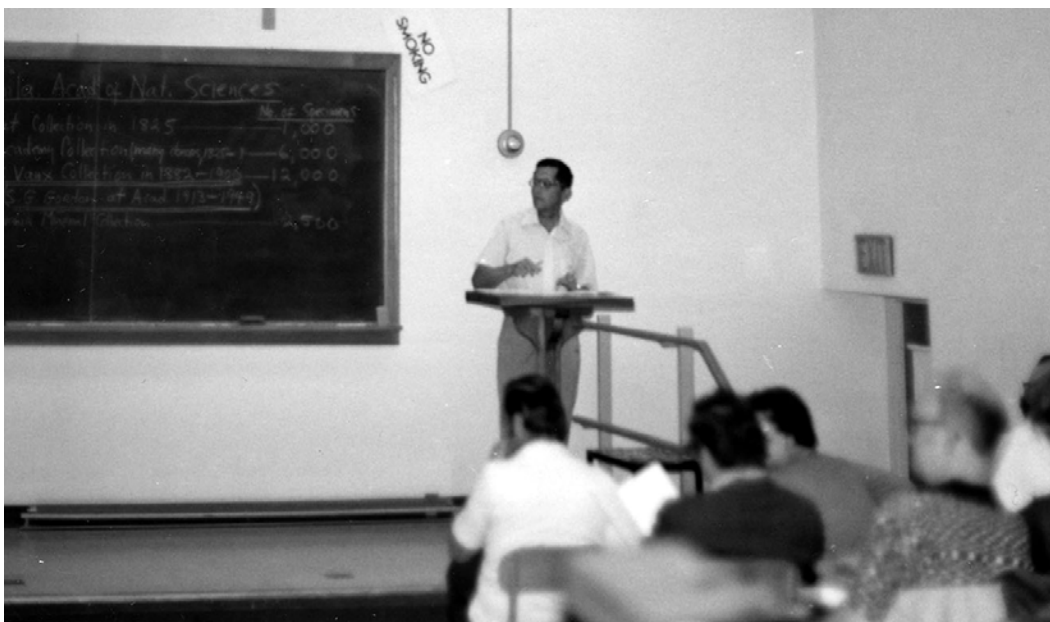


Fig. 3 Dr. Authur Montgomery spoke on the Philadelphia Academy of Natural Sciences collection and Sam Gordon.



Fig. 5 Delbert Oswald spoke on the Jefferis collection at the Carnegie Museum of Natural History.



Fig. 8 The mineral swap. Marge Matula is on the left. Martin Anné is in the center.



Fig. 6 Dr. John Way spoke on the definition of a mineral and minerals associated with burning coal mines.



Fig. 9 The mineral swap. Vince Matula is in the center.



Fig. 7 The social hour sparked many discussions on Pennsylvania minerals.

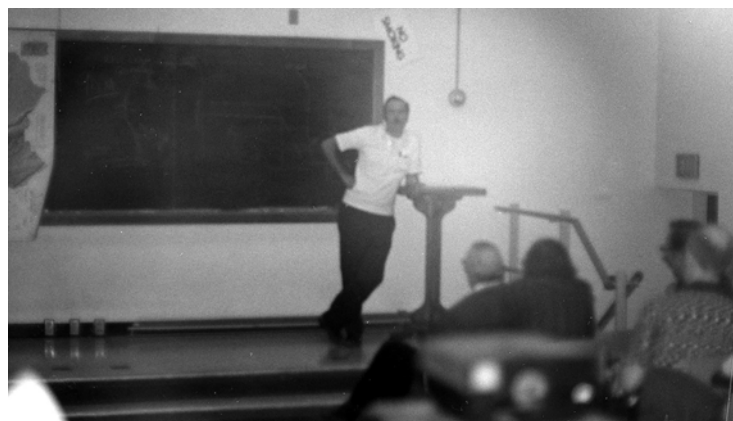
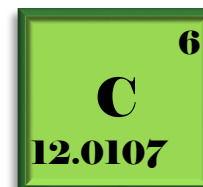


Fig. 10 Martin Anné, first Director of Friends of Mineralogy, Region 3.

Carbon Mineral Challenge: A Worldwide Hunt for New Carbon Minerals

The Carbon Mineral Challenge sets the stage for both professional and amateur mineral collectors to make their mark by discovering never-before described minerals. Researchers predict at least 145 of Earth's carbon-bearing minerals remain undiscovered. How many can collectors find by 2019?



The Carbon Mineral Challenge is the brainchild of Robert Hazen, Robert Downs, Daniel Hummer, and colleagues, and is conducted in collaboration with the Deep Carbon Observatory. Hazen and colleague's new paper, "Carbon mineral ecology: Predicting the undiscovered minerals of carbon", is currently in press at the *American Mineralogist*. However, you can obtain a pre-publication print copy by going to this link: http://www.minsocam.org/msa/ammin/AM_Preprints/5546HazenPreprintApr.pdf

An exceptional 1 minute and 35 second explanation about the Carbon Challenge can be seen at: <http://mineralchallenge.net>

The Deep Carbon Observatory Science Network points out the unparalleled role carbon plays in our lives: as the element of life, as the basis of most of our energy, as the backbone of most new materials, and as the central focus in efforts to understand the Earth's variable and uncertain climate. Yet in spite of carbon's importance, scientists remain largely ignorant of the physical, chemical, and biological behavior of many of Earth's carbon-bearing systems.

The subject of carbon was also featured in a 700-page special issue of *Reviews in Mineralogy and Geochemistry* called Carbon in Earth, Volume 75, which comprises 20 chapters by more than 50 researchers in nine countries. The book-sized volume of the journal integrates a vast body of research in physics, chemistry, and biology and the Earth and space sciences. The volume is Open Access -- free to all readers due to the generous funding from the Sloan Foundation and Deep Carbon Observatory, and can be found at: <http://rimg.geoscienceworld.org/content/75/1/iii.1/suppl/DC1>

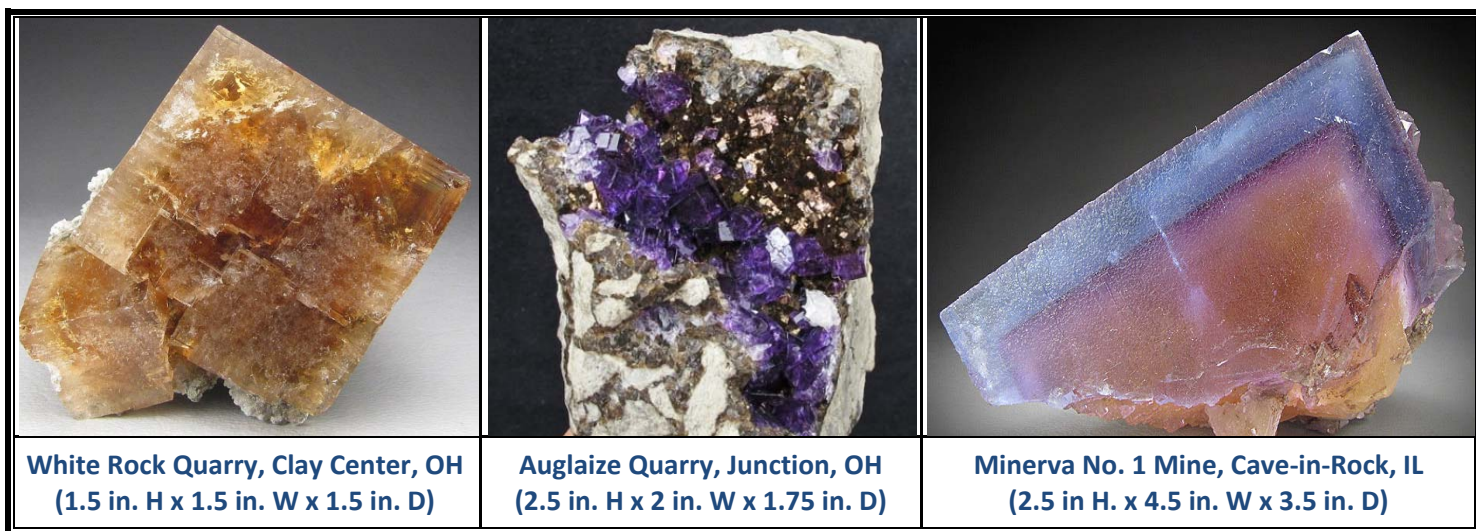


Aragonite coated snake skeleton, Santa Juliana Mine, East Camp, Santa Eulalia District, Chihuahua, Mexico. 9 cm, Peter Megaw specimen, Jeff Scovil photograph

FRIENDS OF MINERALOGY MIDWEST CHAPTER
4th ANNUAL MINERALOGICAL SYMPOSIUM
(SPONSORED BY THE KARL E. LIMPER GEOLOGY MUSEUM)



MIDWEST FLUORITES



DATE: Saturday March 12, 2016

TIME: 9:30 AM – 6:30 PM

LOCATION: Shideler Hall, Miami University, Oxford, Ohio

CONTACT: Randy Marsh, VP Programs, FM Midwest Chapter (marsh.rg@pg.com or 513-515-7890)

DETAILED AGENDA:

- | | |
|-------------|---|
| 9:30-10:00 | FM Midwest Chapter Meeting (open to all) |
| 10:00-11:00 | <i>Fluorite</i> – Arvid Pasto |
| 11:00-12:00 | <i>Midwest Fluorite</i> – Jeff Scovil |
| 12:00-1:00 | Lunch Break and Viewing Time for Specimens |
| 1:00-1:30 | <i>Fluorite in Mississippi Valley Type Deposits</i> – John Rakovan |
| 1:30-2:00 | <i>The Significance of Ultramafic Rocks Underlying the Illinois-Kentucky Fluorspar District</i> – Brett Denny |
| 2:00-2:30 | <i>Investigating the Nature of the Primary Ore Forming Fluids in the Illinois-Kentucky District</i> – Stuart Kenderes |
| 2:30-2:45 | Break |
| 2:45-3:15 | <i>Findlay Arch Fluorites</i> – John Medici |
| 3:15-3:45 | <i>The Many Faces of Midwest Fluorites</i> – Nelson Shaffer |
| 3:45-4:15 | <i>Crystallography of Fluorite</i> – Pete Richards |
| 4:15-4:30 | Break |
| 4:30-5:00 | <i>Fluorite Deposits of Kentucky</i> – Alan Goldstein |
| 5:00-5:30 | <i>Selecting Fluorite Specimens & Building a Fluorite Collection: A Mineral Collector's Perspective</i> – Jim Gebel |
| 5:30-6:30 | Tour of Facility and Viewing Time for Specimens |

DIRECTIONS and PARKING: The Limper Geology Museum is located on the Miami University campus just inside the East and West entrances to Shideler Hall on the first floor. Shideler Hall is located west of the intersection of US Highway 27 and State Route 73. Parking on Saturday is free in the lot across from Shideler Hall (Cook Field Parking Lot on corner of 27 and 73). See map below.



UPCOMING EVENTS

January 23, 2016: 2nd Annual Philadelphia Interclub Mineral and Fossil Swap and Sell. Cathedral Village, 600 E. Cathedral Rd., Philadelphia PA 19128. Sat. only, 9:00-1:00. Contact John Rateike, 215-576-0741

March 5-6 2016: *Where in the World?*, 53rd Annual Gem, Mineral & Fossil Show, by Delaware Mineralogical Society, Del. Tech. & Comm. Coll., 400 Stanton-Christiana Rd., Newark, DE. Sat. 10-6, Sun. 11-5.

<http://delministry.net/marchshow/marchshow.htm>

March 12, 2016: 40th Annual Micromount Show, sponsored this year by Leidy Microscopical Society. Northminster Presbyterian Church, 140 Trenton Rd., Fairless Hills PA 9a.m. - 3 p.m.

March 19-20, 2016: Gem, Mineral & Jewelry Show, by Franklin County R&M Club. Hamilton Heights Elem. School, 1589 Johnson Rd., Chambersburg PA

April 2-3, 2016: Philadelphia Mineral Treasures & Fossil Fair, by Phila. Min. Soc. & Del. Valley Paleo. Soc. Lulu Temple, 5140 Butler Pike, Philadelphia PA

April 16-17, 2016: North Rocks! North Museum Gem, Mineral, Fossil & Jewelry Show. Farm & Home Center, 1383 Arcadia Rd., Lancaster PA. Sat. 10-5, Sun. 10-4.

<http://www.northmuseum.org/events/>

May 14-15, 2016: World of Gems & Minerals Show, by Berks Mineral. Soc. Leesport Farmers Market, Rt 61, Leesport.

May 21, 2016: The Earth Science Show & Sale, by Rock & Mineral Club of Lower Bucks County. First United Methodist Church, 840 Trenton Road, Fairless Hills, PA, 9a.m. - 4 p.m.

June 4, 2016: Spring Mineralfest, by Penna. Earth Sciences Assoc., Memorial Park, Poplar St., Macungie, PA Sat. only, 8:30 - 3:00. <http://www.mineralfest.com/>

DONATIONS WELCOMED

The FM-PA Chapter is a 501(c)(3) nonprofit organization; donations are gratefully accepted and may be deducted from your federal income tax. Donations of any size help to offset the general operating costs of the Society, helping to keep dues low.

From the Editor

David Glick

THANK YOU to everyone who has been providing material for the Newsletter! Everyone else - join the fun! **Please provide materials for the next issue by March 5, 2016.** Feel free to contact me at xidg@verizon.net, or 814-237-1094 days and evenings. **Mail can be sent to** 209 Spring Lea Dr., State College PA 16801.

Materials related to Pennsylvania mineralogy, collecting or collectors are invited for this newsletter: articles, long or short; announcements from FM-PA committees; photographs of specimens, field localities, collections, etc.; reports on publications about PA minerals or by PA authors, or actual book reviews; or other items within the mineralogy and mineral collecting areas of interest. Photographs should be of good resolution (1000 pixels across) without much JPEG compression, so that they will look good in print. Please provide captions including photographers' names.

We are producing four issues each year; **your material is needed** to make them worthwhile!. If you know people who have interesting material, please encourage them to submit it.

FM on the WWW

Please explore the FM-PA web site at
www.rasloto.com/FM/

National News

National FM newsletters, links to other chapters, and much more can be found on their web site:
www.friendsofmineralogy.org

Friends of Mineralogy Pennsylvania Chapter Directory of Officers

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