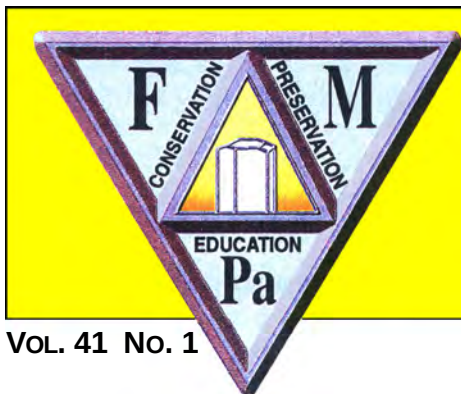




# FRIENDS OF MINERALOGY Pennsylvania Chapter NEWSLETTER

VOL. 41 No. 1

SPRING 2013

## President's Message



Well, Spring is upon us, and the cold weather is soon to be a memory. The Winter was uneventful for us except that I did turn 67. Some wise, old man once told me: "If I'd known I was going to be around this long, I would have treated myself a bit better!" I believe I can relate to this! For an excellent

indoor Winter activity, like many of you, I have been working on my collection.

The first field trip of 2013 was held at the Cornwall Mine in Cornwall, PA, on April 14<sup>th</sup>. Despite the day greeting us with a rather brisk breeze, it turned out to be beautifully clear and warm – perfect for collecting!

I was glad to see about 20 people show up for the event. Many folks left with specimens. Along with some neat geological specimens, the minerals collected were: garnets, magnetite, pyrite, byssolite, and possibly ruizite (still to be confirmed). All in all, it was a well-rewarded outing for those who came – I was sorry that more members didn't take advantage. I tried photographing some of the specimen found but my camera failed me.

I recently was able to obtain another small collection of Cornwall specimens. They were obtained while the

mine was still operating. They are mostly thumbnails and micros. These, I believe, were also put together by both Milt Leet and Art Montgomery. I have yet to go over them in detail. I'll have more on this collection as I explore it further.

I hope to hold a Board meeting in June to plan two other field trips for 2013, and of course, we will plan the Symposium for this Fall (first weekend of November 2013).

Please contact me with suggestions for possible field trip locations that you'd be interested in.

I want to thank all who have paid their 2013 dues. It keeps the Chapter going! I sent out a postcard reminder this past month to those who have not yet paid their 2013 dues. Despite the smeared ink on some of them, I had a very good response so far (ink malfunction?). I thank you for your quick responses! If you received a postcard notice and have not responded, I must assume you have lost interest in the Chapter. With that said, this will be your last newsletter, unless I receive your dues by the end of May.

I visited Mt Pleasant Mills Quarry in early February. The pit showed very little activity, except for the Wavellite areas on the ridge. It is still possible to obtain Wavellite specimens. The pit, on the other hand, was rather void of good collecting material. It is my understanding that the quarry has been taken off the market for now. This is good news for mineral collectors, at least for the 2013 season. It is my understanding that activity has resumed in the quarry again, as of April, but has produced little - if any - "collectible material".

Please visit the FM-PA Chapter web site. There is a wealth of information that you can access. Ron Sloto keeps it updated, and current with the addition of new material, and links to other sites you may not be aware of. There is also information on our Chapter's activities.

*Arnold Mogel,*  
President, FM PA. Chapter



Collecting at Cornwall

## Rockhounding Pennsylvania and New Jersey

Geologist Robert Beard's book, *Rockhounding Pennsylvania and New Jersey*, published by Falcon Guides, is now available through retailers. It includes both collecting sites and sightseeing-only (no collecting) sites for minerals, rocks, and fossils. Sixty-four sites are listed in Pennsylvania, and 19 in New Jersey. See <http://www.falcon.com/books/rockhounding-pennsylvania-and-new-jersey> -Editor

## Smithsonian high-resolution virtual tour on the web

The Smithsonian National Museum of Natural History web site now includes a high-resolution virtual tour, controlled to some extent by the user. After going to <http://www.mnh.si.edu/panoramas/>, click on the "comprehensive virtual tour" link within the text. On the next screen, clicking on "first" or "second" at the top right will pop up a floor plan of the various galleries, including Geology, Gems & Minerals and the Hope Diamond on "second" and various fossils on "first." Click on one of the spots on the floor plan, then navigate with the buttons at the bottom of the screen. Remember to zoom in with the "+" button; wait for it to load and you can read the labels on the specimens. -Editor

## Pennsylvania Geology Magazine

The winter 2012 issue (vol. 42, no. 4) is now available on the survey web site. From the home page at <http://www.dcnr.state.pa.us/topogeo/index.aspx>, click on "Publications and Digital Data" in the left sidebar.

An article by Caron O'Neil on pages 16-17 describes the process of scanning more than 500 printed publications to add them to those already available on the web [as mentioned in the article at right]. The resulting text can be searched. The publications are available through the link shown in the paragraph above. For example, one that ties in with our recent collecting is *General Geology G35, Guide to the Geology of Cornwall, Pennsylvania* (1961).

The lead article in the issue is *Potential for CO<sub>2</sub>-Enhanced Oil and Gas Recovery, Southwestern Pennsylvania*, by John A. Harper. John's retirement is covered on page 19-20. -Editor

## Last chance to get many Pennsylvania Survey printed publications

Good day,

Sales of all PA Geological Survey publications, except for SP 1, *The Geology of Pennsylvania*, ceased at the end of April. With a few exceptions, all publications of the Fourth Geological Survey, including those that have long been out of print, have been scanned and are available for download from our website at <http://www.dcnr.state.pa.us/topogeo/publications/pgspub/index.htm>

Before we recycle the remaining stock of printed publications, we will offer them free to the public during the **week of May 20, 2013**. If you are interested in acquiring any of these publications you can visit our office during the week. Also included in this give away will be a random selection of publications (ours, USGS, and others) that have accumulated throughout the building especially in our library. Most of these are used publications, many of which have been returned to us from other libraries.

Be aware that we have no list of what publications are available but the selection of our sales publications includes a few Atlases and Progress Reports plus a wider selection of Water and Mineral Resource reports. Also available are significant quantities of two (1:500,000) poster-sized maps - Map 65 the digital shaded-relief map and Map 67, the geologic shaded-relief map. The PA Geological Survey will continue to give away most of its free publications such as the educational series and various page-sized maps. For that reason, those publications will not be a part of this giveaway.

The giveaway will be conducted out of the core library in the basement of our building in Middletown. Directions to our office can be found at

<http://www.dcnr.state.pa.us/topogeo/about/index.aspx#mdt>

Reservations are not required; however, to make sure we have staff adequate to assist everyone; we would appreciate it if you would contact Jody Smale, our librarian, (717-702-2020, [jsmale@pa.gov](mailto:jsmale@pa.gov)) and let her know generally when you expect to stop in. All scavenging and hauling must be done in person, during that week. We will not package, ship, or store publications for you.

We are conducting this event to give our fans one last opportunity to obtain our classic publications in their original form. This event is not for book dealers or anyone else who hopes to make a buck at the expense of the taxpayers of Pennsylvania.

From

**Michael E. Moore P.G.** | Geologist Manager  
PA Department of Conservation and Natural Resources  
Bureau of Topographic and Geologic Survey  
3240 Schoolhouse Road | Middletown, PA 17057  
Phone 717.702.2024 | Fax 717.702.2065  
E-mail: [michmoore@pa.gov](mailto:michmoore@pa.gov)  
[www.dcnr.state.pa.us](http://www.dcnr.state.pa.us)

Cornwall field  
trip specimens

Photos by  
William  
Kochanov

Right: "hairy"  
byssolite (not  
natrolite as  
discussed during  
the field trip) on  
magnetite.

Below: Ruizite  
(to be confirmed).



**From the Editor**

David Glick

I do apologize for the lateness of this issue; I've been out of town a great deal. I believe that situation has improved, and we should be catching up to our proper schedule. You can help! **Please provide materials for the next issue by June 20, 2013.** Feel free to contact me at xidg@verizon.net, or 814-237-1094 days and evenings (especially Thurs-Sat., otherwise leave a message). Thank you!

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 about books or articles published 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. We are producing four issues each year; **your material is needed** to make sure they have some substance. If you know people who have interesting material, please encourage them to submit it.

**UPCOMING EVENTS**

**May 18-19, 2013:** World of Gems and Minerals, by Berks Mineralogical Society. Leesport Farmers Market Banquet Hall, Rte 61 Leesport, Pa. Download flyer from <http://www.berksmineralsociety.org/>

**June 1, 2013:** Spring Mineralfest, by Pennsylvania Earth Science Association. Macungie Memorial Park, off PA Route 100, Macungie, PA, about 8 miles southwest of Allentown. 8:30 a.m. -3:00 p.m. <http://www.mineralfest.com/>

**June 1-2, 2013, Eastern Federation** of Mineralogical & Lapidary Societies Convention, and Suffolk Gem and Mineral Club Ann. Show, Smithtown (Long Island) New York. EFMLS Meeting May 31. <http://www.amfed.org/efmls/conventionp.htm>  
Download a discount flyer from <http://www.suffolkgem.com/-shows--up-coming-events.html>

**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/](http://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](http://www.friendsofmineralogy.org)

**Friends of Mineralogy Pennsylvania Chapter Directory of Officers****OFFICERS and BOARD OF DIRECTORS members**

|                |                   |
|----------------|-------------------|
| President      | Arnold Mogel      |
| Vice President | Pen Ambler        |
| Treasurer      | Ron Sloto         |
| Secretary      | James D. Stauffer |

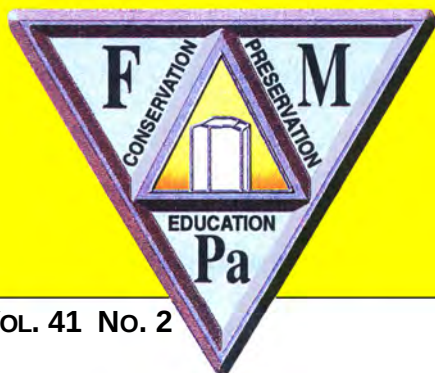
Members can find Board  
contact information in the  
Newsletter which they  
receive directly.

**COMMITTEE CHAIRS**

|                   |             |
|-------------------|-------------|
| Membership Chair  | Cathy Mogel |
| Symposium Chair   |             |
| Field Trip Chair  |             |
| Web Manager       | Ron Sloto   |
| Newsletter Editor | David Glick |
| Grants Chairman   | David Saja  |

**BOARD OF DIRECTORS**

George Rambo  
David Glick  
Fred Stohl



# FRIENDS OF MINERALOGY

## Pennsylvania Chapter

# NEWSLETTER

VOL. 41 No. 2

SUMMER 2013

### President's Message

The Board held its first meeting of 2013, on June 23, at my home with a cook-out! On what was a lovely summer's day, several issues had been discussed.



The first item on the agenda was a request from the Connecticut Museum of Mining and Mineral Science, in New Milford, Connecticut. Long-time PA Chapter member, John Pawloski, is now the director of the aforementioned organization, and is asking for a donation. This money would support a 1300 square foot addition to the CT Science Museum. Our Grant Fund is permitted to only donate to students doing research on Pennsylvania mineralogy. Since our General Fund does not have enough funds to consider even making a donation, we regret not being able to support their new addition. The Board voted the request down. However, if any member would be interested in making a personal donation, I've included the information in this Newsletter (below).

Another item on the agenda was the **Symposium**. The date has been finalized. It will be held on Saturday, November 2nd, and we will again hold it at Franklin and Marshall College. The Symposium's Field Trip will be on Sunday Nov 3rd. The Board spent the afternoon planning for the Symposium speakers, the particulars of the silent auction, and of course, the refreshments for this event. Again this year, we plan to host a few local dealers. I hope to have it all in place by the time the Fall

Newsletter hits the press. Please reserve the first weekend this November for the FM-PA Symposium.

Other housekeeping items were discussed. I reviewed the membership rolls with the Board. We have a total of 6 Life members and 64 members in good standing. Field Trips were also discussed. I am hoping to have one in September. Details will follow. Of course, one will be determined in conjunction with the Symposium in November.

I hope you all enjoy the Summer. Keep safe, and I'll see you on our next field trip!

*Arnold Mogel,*  
President, FM PA. Chapter

### The Connecticut Museum of Mining and Mineral Science

Donations (as noted in the President's Letter, above) can be sent to:

John Pawloski  
CT Museum of Mining and Mineral Science  
P.O. Box 1467  
New Milford, CT 06776

Checks should be made out to the Museum, not to John.

The Museum is an all-volunteer, 501(c)(3) nonprofit - all donations are tax deductible. John may be contacted at 860-927-0050 or by e-mail <j.a.pawloski@att.net> if you have any questions for him. The web site [http://www.ctamachinery.com/what-is-cama/connecticut\\_museum\\_of\\_minin/](http://www.ctamachinery.com/what-is-cama/connecticut_museum_of_minin/) provides an introduction, and the "click here for more" link at the bottom of that page leads to a longer article and links to a variety of photographs of the museum.

## New Publications

**Roadside Geology of New Jersey**, by David P. Harper, was published earlier in 2013 by Mountain Press Publishing Company. It is available as a paperback and has 360 pages.

Mountain Press also published *Roadside Geology of Georgia* by Pamela J.W. Gore and William Witherspoon earlier this year.

## Old Publications

### 110 Years Ago in The Mineral Collector

The June 1903 issue includes a report on the work of Dr. Albert Huntington Chester, curator of the mineral museum at Rutgers College, and author of *A Dictionary of the Names of Minerals* (New York, John Wiley & Sons, 1896), who died in April, 1903. The Dictionary can now be found on Google books <[books.google.com](http://books.google.com)>.

The July 1903 issue includes an article on *Blue Quartz of Bucks Co., Pa.*, by John F. Vanartsdalen. The author reported that blue quartz (often hair-like inclusions which appear to be graphite) can be found “almost anywhere in the clays and gravels or in the beds of streams south of the new red sandstone formation in Bucks or Montgomery counties.” The color may be “dark indigo” or “light blue.” In ten years of collecting, he only found it once in crystal form, near an unnamed railroad station.

Reports from the Philadelphia Mineralogical Club included collecting at the Girard Avenue tunnel; a new exposure between Mineral Hill and Black Horse; Valley Forge; Avondale; and Moore’s Station, NJ.

## The Mystery of the Montgomery County Cacoxenite

By Ronald A. Sloto

There are two cacoxenite specimens in the Theodore Rand collection (Rand 3305 and Rand 8536) in the Bryn Mawr College mineral collection. The locality given on the labels for these specimens is Colwell's iron furnace, Conshohocken, Montgomery County. The problem is that Colwell's iron furnace is an iron furnace, not a mine. The specimens probably were found in a pile of ore waiting to be smelted. Cacoxenite is not a common mineral in Pennsylvania, so where did these specimens originate?

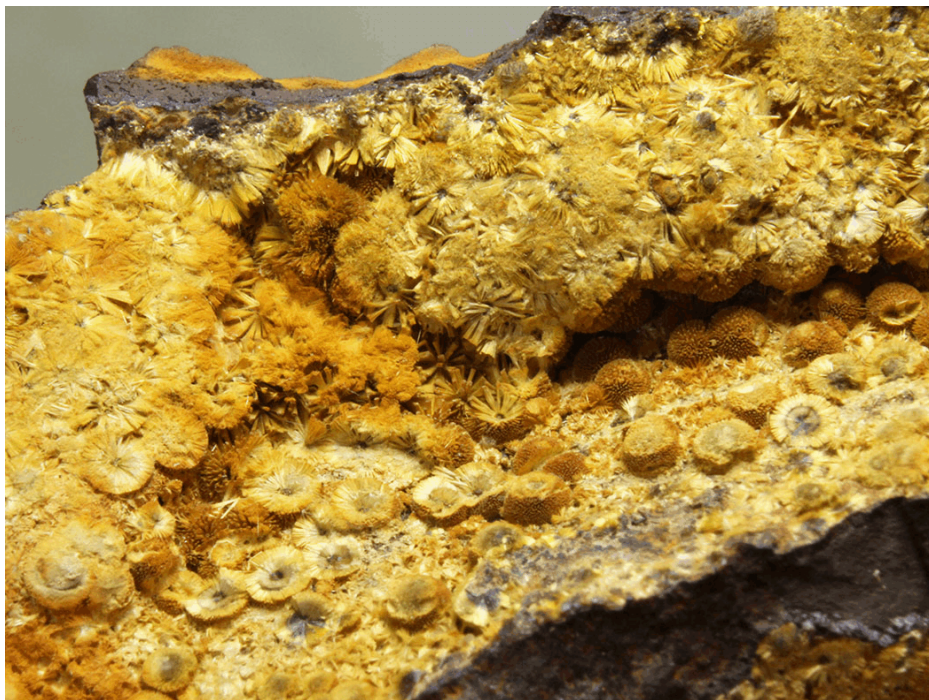
Theodore Dehon Rand was born on September 16, 1837, in Philadelphia. He attended the Episcopal Academy in Philadelphia and the Philadelphia Polytechnical College, which was a technical school of high standing in its day. Science was Rand's passion; however, law was his vocation. He practiced law in the office of Bullitt and Fairthorne, which became Fairthorne and Rand, and later Rand and Patton. He also served in the Union Army during the Civil War. He was elected a member of the Philadelphia Academy of Natural Science in September 1857. Rand died at his home in Radnor on April 24, 1903. His extensive mineral collection was bequeathed to Bryn Mawr College (Drown, 1903).

Rand wrote 34 papers on geology and mineralogy in a 32 year span, most of which were published in the *Proceedings of the Philadelphia Academy of Natural Science*. Rand discovered a uriferous mineral in a quarry in Philadelphia. The new mineral was named in his honor. It was later discredited as a mixture of kaolinite, tuyamunite, and uranophane.

Rand described the discovery of the Montgomery County cacoxenite specimens. “*In 1855 at Colwell's iron furnace on the northeast bank of the Schuylkill at Conshohocken, a few very fine specimens of cacoxenite were found. This came undoubtedly from the immediate vicinity but from what particular spot could not be ascertained, as ore was hauled to the furnace from many openings*” (Rand and others, 1892, p. 185). Colwell furnace was an anthracite iron furnace built in 1845. In 1863, the furnace was purchased by the Plymouth Iron Company and was thereafter known as the Plymouth

Furnace or Plymouth Iron Works. It went out of blast in 1889.

While visiting with Steve Carter and examining some of the minerals in his collection, we came across a fantastic specimen of cacoxenite. It had the same limonite matrix as the Rand specimens. Painted on the side of the specimen was the locality – Spring Mill. Spring Mill is located directly east of Conshohocken. The 1877 atlas (Hopkins, 1877) shows iron ore occurring at Spring Mill. There were probably numerous shallow iron pits in the vicinity. A review of Dana's mineralogy from the same time period during which the cacoxenite was found showed the entry "*at Spring Mills, cacoxene, lepidokrokite, spathic iron*" in the 1850 edition (Dana, 1850, p. 656). Spathic iron is iron carbonate or siderite.



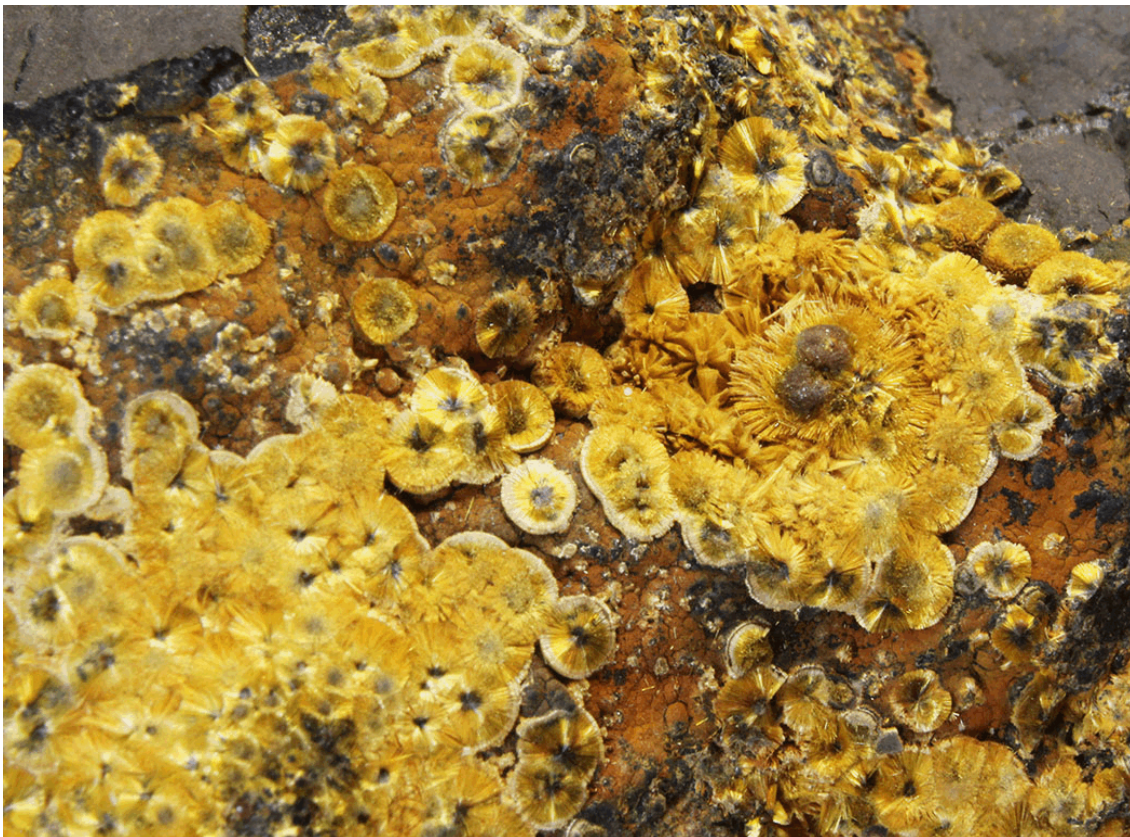
## REFERENCES

Dana, J.D., 1850, A system of mineralogy: Third edition, New York, 712 p.

Drown, T.M., 1904, Biographical notice of Theodore D. Rand: Transactions of the American Institute of Mining Engineers, vol. 34, p. 695-701.

Hopkins, C.M. 1877, Atlas of Philadelphia and environs: Bourquin Steam Lithograph Press, Philadelphia, 78 p.

Rand, T.D., Jefferis, W.W., and Cardenza, J.T.M., 1892, Mineral localities of Philadelphia and vicinity: Proceedings, Academy of Natural Science of Philadelphia, v. 44, p. 174-202.



## 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 10, 2013.** 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 about books or articles published 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 sure they have some substance. If you know people who have interesting material, please encourage them to submit it.

### 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.

## UPCOMING EVENTS

**July 20-21, 2013,** Gem & Mineral Show by Gem City Rock and Mineral Society. JNC Ice Arena, 423 West 8<sup>th</sup> St, Erie, PA <http://www.gemcityrockclub.org/show.htm>

**August 9-11, 2013:** East Coast Gem, Mineral & Fossil Show, Better Living Center at the Eastern States Exposition, 1305 Memorial Ave., West Springfield, MA 01089. [http://www.mzexpos.com/east\\_coast.html](http://www.mzexpos.com/east_coast.html)

**August 16-18, 2013:** Gem Miner's Jubilee, Lebanon Lebanon Expo & Fairgrounds, 80 Rocherty Rd, Lebanon PA 17042 <http://www.gem-show.com/>

**Sept. 14-15, 2013:** Central Pennsylvania Rock & Mineral Club annual show, Zembo Temple, 2802 N 3<sup>rd</sup> St., Harrisburg PA [http://www.rockandmineral.org/annual\\_show.htm](http://www.rockandmineral.org/annual_show.htm)

**Sept. 28-29, 2013:** Franklin-Sterling Hill Mineral, Gem, and Jewelry Show by Franklin-Ogdensburg Mineralogical Society and the Franklin Mineral Museum. Franklin Borough School, 50 Washington Avenue, Franklin NJ.

**Oct. 5, 2013:** Autumn Minerafest, by Penna. Earth Sciences Ass'n. Macungie Memorial Park, Poplar St., Macungie, PA.

**Oct. 26, 2013:** South Penn Fall Rock Swap, by Central PA & Franklin County R&M Clubs; South Mountain Fairgrounds, 1.5 miles West of Arendtsville, PA on Rte. 234.

**Oct. 26, 2013:** Ultravioletation All-Fluorescent Mineral show, by Rock and Mineral Club of Lower Bucks County. First United Methodist Church, 840 Trenton Rd, Fairless Hills PA.

**Nov. 2-3, 2013: Friends of Mineralogy - PA Chapter Symposium,** Franklin & Marshall College, Lancaster, PA.

### FM on the WWW

Please explore the FM-PA web site at  
[www.rasloto.com/FM/](http://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](http://www.friendsofmineralogy.org)

## Friends of Mineralogy Pennsylvania Chapter Directory of Officers

### OFFICERS and BOARD OF DIRECTORS members

|                |                   |
|----------------|-------------------|
| President      | Arnold Mogel      |
| Vice President | Pen Ambler        |
| Treasurer      | Ron Sloto         |
| Secretary      | James D. Stauffer |

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

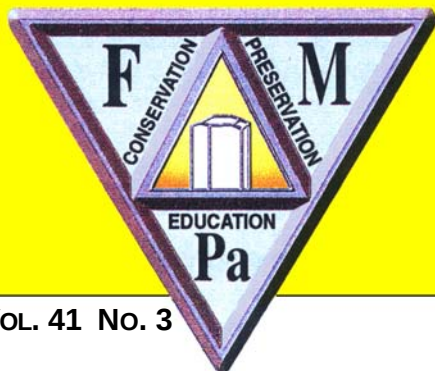
### COMMITTEE CHAIRS

|                   |             |
|-------------------|-------------|
| Membership Chair  | Cathy Mogel |
| Symposium Chair   |             |
| Field Trip Chair  |             |
| Web Manager       | Ron Sloto   |
| Newsletter Editor | David Glick |
| Grants Chairman   | David Saja  |

### BOARD OF DIRECTORS

George Rambo  
David Glick  
Fred Stohl

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



# FRIENDS OF MINERALOGY Pennsylvania Chapter NEWSLETTER

VOL. 41 No. 3

FALL 2013

## President's Message

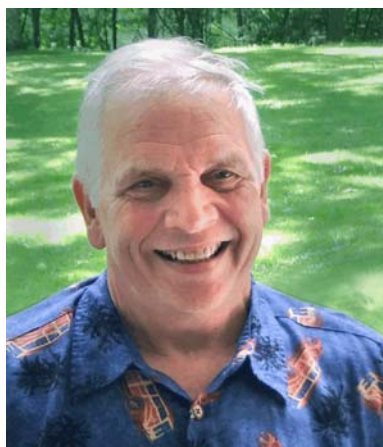
Hello Members:

The Symposium is now less than a month away! I would hope each and every member would attend. Don't forget to bring a specimen for the silent auction. Again this year, we have planned on a "Giveaway Table" - your excess materials are needed for this feature.

I was at the PA Geological Survey's "Give Away" earlier this Spring, and I can promise you, there will be an ample supply of publications at the GIVE AWAY in case you missed out in Middletown. I was there and collected quite a few materials for that purpose. Some of you may not have been able to take advantage of the Survey's Giveaway. Here's your chance to get the printed copy. All of the publications, I understand, are now online.

We haven't, as yet, secured a field trip location for the Symposium. I'm sure it will all be in order before the Symposium. I'm happy to announce that, on Oct 26<sup>th</sup> from 8 a.m. to noon, I have scheduled a trip for the Weaverland Quarry, in Lancaster County. I had Dave Glick send out an email on this earlier this month - it will be held RAIN or SHINE. Please, if you haven't done so already and plan on attending, email me or give me a call - I need a head count for the quarry. [See article at right.]

I will be stepping aside as President of FM-PA after the Symposium this year. I've carried the President's office several times over the years, as well as holding other office positions. Although I am leaving my present position as FM-PA President, I will still remain an active member - I'm turning 68, with health issues that have developed over the last few years. I do not feel I have the energy required to lead the FM-PA Chapter in the manner it requires or deserves. Thanks to all who are supporting the Chapter now, and to those who will support it in the future.



Come out and enjoy the Symposium. I am looking forward to seeing you there !

Thank you,

Arnold Mogel,

President,  
FM PA. Chapter

## Register Now for Weaverland Quarry Field Trip Saturday, October 26

Arnold Mogel reports: I have a field trip set up for Weaverland Quarry (New Holland, Lancaster County, PA) on the 26th of October, 8 a.m. to 12 noon, rain or shine. Members who plan to attend **must register with me** either by email or phone; email is preferred, [pioche@verizon.net](mailto:pioche@verizon.net). Details are still being worked out at this time so there will be an update before the trip.

MinDat <<http://www.mindat.org/>> reports that calcite, dolomite, chalcopryrite, and fluorite may be found at the quarry.

The Editor would appreciate photographs of the field trip for publication in this Newsletter.

## FM-PA Symposium and Field Trip

**November 2-3, 2013**

Details on page 2

**Please register in advance - form enclosed  
Please distribute the enclosed flyers**

## Mineral Collecting Enthusiasts Meet and Learn at Friends of Mineralogy - PA Chapter Symposium and Field Trip

**November 2-3, 2013  
Franklin & Marshall College,  
Lancaster, PA**

The Friends of Mineralogy – Pennsylvania Chapter will hold its 2013 symposium and field trip on the first weekend in November. Mineral collectors in attendance on Saturday, November 2, will hear talks by experts on Pennsylvania minerals, geology and mining. There will be sales by selected dealers, a silent auction, give-away table, and opportunities to meet and talk with fellow collectors. On Sunday, those registered for the symposium may participate in a mineral collecting field trip (location and details to be announced). Safety equipment is required.

The program of presentations planned for the symposium includes:

**Ron Sloto**, US Geological Survey:  
The Jones Mine, Berks County, Pennsylvania

**William Kochanov**, Pennsylvania Geological Survey:  
A revised interpretation of the Fairfield Quarry debris flow deposits, Adams County, Pennsylvania

**Robert Beard**, Geologist and author:  
Iron Mines in Pennsylvania, New Jersey and New York  
- Geology, History, and Minerals

**Stan Mertzman**, Franklin & Marshall College:  
Slag, Ceiling Tile, and Industrial Mineralogy

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, give-away table, and refreshments. The location is the Hackman Physical Sciences Building; the parking lot off Harrisburg Pike is nearby and the door at the corner of the building facing that lot should be open at 8:30 a.m. 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**. Registration fees are \$25.00 for non-members, \$15.00 for current FM-Pa members. **Please Register in advance.** -Editor

## From the National Newsletter

The most recent FM National Newsletter 43:3 <[www.friendsofmineralogy.org](http://www.friendsofmineralogy.org)> reported on plans for the membership meeting/business meeting at the Denver Show in September. News from the chapters includes collecting on a full-weekend field trip by the **Midwest** Chapter in Indiana. Pyrite and selenite were collected at the Rogers Group Quarry in Mitchell. Also in Mitchell was the Heidelberg Lehigh Quarry which yielded quartz, celestine, calcite, dolomite and fluorite. The **Southern California** Chapter has held both spring and fall symposia, with multi-stop field trips, and developed and installed four new mineral displays at the Mojave River Valley Museum in Barstow. The **Denver** chapter heard a talk by Pete Modreski on pegmatites and the International Pegmatite Conference in New Hampshire, and will have a slide show about their chapter at the Denver Show. The **Pacific Northwest** Chapter held an extensive clean-up and renovation of a National Forest campground, fostering good relations with the Forest Service. Their collecting trip featured a hail storm and road washouts. Their symposium will address alkaline intrusive complexes. See the next article concerning the **New Jersey** Chapter. -Editor

## New FM Chapter Formed in New Jersey

The front page of the FM national newsletter reports: "Friends of Mineralogy has a new chapter affiliation. New Jersey Friends of Mineralogy joins the national ranks. Welcome NJFM."

In the Newsletter, KC Dalby, President, writes, in part: "...We will be coordinating with other state clubs and submitting a listing with location of all the known minerals that have been found in NJ. We expect to foster a relationship with Rutgers in order to use their resources for study and general education, meet at their Geology Museum and assist in photographing their mineral collection for instructional purposes. We also hope that the relationship with Rutgers will better enable us to open up previously closed collecting sites within the state. Our membership includes collectors, educators and dealers. Recruitment and program will be paramount activities. We hope to have a show and symposium in the near future." -Editor

**Please bring specimens for the silent auction!**  
**Give-aways are appreciated also!**

## Pennsylvania Geology Magazine

The Spring 2013 issue (vol. 43, no. 1) is now available on the survey web site. From the home page at <http://www.dcnr.state.pa.us/topogeo/index.aspx>, click on "Publications and Digital Data" in the left sidebar.

For mineral collectors and FM - PA members in particular, one highlight will be the photo (right) of "Goliath," a 49-lb clear quartz crystal from Lancaster County now owned by our own Jim and Mimi Craig Stauffer.



The lead technical article is The Role of Geology and Terrain in the Defeat of Stuart East of Gettysburg, July 3, 1863, by John C. Neubaum of the Survey. The article relates the geology of the area to the battle, including maps and photographs.

Arthur Socolow, State Geologist of Pennsylvania from 1961 - 1986, passed away in March. A memorial article describes the numerous Geological Survey projects which he initiated and supported, including the educational series, single-page maps, and state park guides distributed free to the public, and mineral and fossil collecting guides.

-Editor

## 110 Years Ago in The Mineral Collector

The September 1903 issue starts with an article on deweylite in the serpentine barrens of Williston Township, Chester County, Pa. The author traced a line of deweylite through the serpentine and conducted some hand-quarrying over several visits. The landowner became unhappy, but finally settled for one dollar per barrel of specimen material removed.

-Editor

## Minerals from Pennsylvania in Online Museum

The web site of John Betts Fine Minerals includes an online mineral museum <http://www.johnbetts-fineminerals.com/museum.htm> which can be accessed in a variety of categories, including mineral species, group, or locality. To see Pennsylvania specimens in the collection, click on locality, then on the US on the globe, then on Pennsylvania (or directly at [www.johnbetts-fineminerals.com/jhbnyc/mineralmuseum/gallery2.php?init=&loc=Pennsylvania](http://www.johnbetts-fineminerals.com/jhbnyc/mineralmuseum/gallery2.php?init=&loc=Pennsylvania)). Clicking on a specimen brings up a large photo and details on the specimen. A few have additional photos and notations. As of this writing there are 849 Pennsylvania specimens illustrated in the museum.

- Editor

## The 35th Annual FM-MSA-TGMS Tucson Mineral Symposium 60 Years of Diamonds, Gems, Silver and Gold

**Saturday, February 15, 2014**

**Tucson Convention Center**

**10 a.m. to 3 p.m.**

**Crystal Ballroom**

**Symposium Agenda to be Announced**

The thirty-fifth annual Friends of Mineralogy symposium will be held in conjunction with the Tucson Gem and Mineral Show and will take place on Saturday, 15 February 2014. In addition to the Friends of Mineralogy, the symposium is sponsored by the Tucson Gem and Mineral Society and the Mineralogical Society of America. The theme is the same as the show theme: 60 Years of Diamonds, Gems, Silver and Gold. Presentations on descriptive mineralogy, classic and new localities, and related subjects are welcome. An audience of amateur and professional mineralogists and geologists is expected.

- FM web site

## 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 December 1, 2013.** 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 about books or articles published 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 sure they have some substance. If you know people who have interesting material, please encourage them to submit it.

### 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.

## UPCOMING EVENTS

**Oct. 26, 2013:** South Penn Fall Rock Swap, by Central PA & Franklin County R&M Clubs; South Mountain Fair-grounds, 1.5 miles West of Arendtsville, PA on Rte. 234.

**Oct. 26, 2013:** Ultraviolet All-Fluorescent Mineral show, by Rock & Mineral Club of Lower Bucks County. First United Methodist Church, 840 Trenton Rd, Fairless Hills PA.

**Nov. 2-3, 2013: Friends of Mineralogy - PA Chapter Symposium** (Nov. 2, Lancaster, PA) and Field Trip (Nov. 3). **See article on page 2.**

**Nov. 23-24, 2013:** Gem, Mineral and Fossil Show by Northern Virginia Mineral Club and GMU Dept. of Atmospheric, Oceanic and Earth Sciences. The Hub Ballroom (Student Union II Building) on George Mason University Campus, Braddock Rd & Route 123, Fairfax, Virginia. Use Parking Lot A, enter from Nottaway River Lane, look for courtesy shuttle to mineral show. Sat 10-6, Sun. 10-4.

**March 29-30, 2014:** Eastern Federation of Mineralogical and Lapidary Societies Convention, Plymouth Meeting, PA., in conjunction with the Annual Mineral Treasures + Fossil Fair show and sale presented by The Philadelphia Mineralogical Society and The Delaware Valley Paleontological Society at LuLu Temple, 5140 Butler Pike, Plymouth Meeting, PA.

**April 18-19, 2014:** First Gem, Mineral & Fossil Show for the non-profit **North Museum of Natural History and Science**. At Farm & Home Center, 1383 Arcadia Rd (off Manheim Pike), Lancaster, PA. Friday 10-6, Saturday 10-5. **VENDORS WANTED:** \$50.00 per table. Contact Alison Mallin, 717-358-7188 <amallin@northmuseum.org> for more information and to reserve a space.

### FM on the WWW

Please explore the FM-PA web site at  
**[www.rasloto.com/FM/](http://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](http://www.friendsofmineralogy.org)**

## Friends of Mineralogy Pennsylvania Chapter Directory of Officers

### OFFICERS and BOARD OF DIRECTORS members

|                |                   |
|----------------|-------------------|
| President      | Arnold Mogel      |
| Vice President | Pen Ambler        |
| Treasurer      | Ron Sloto         |
| Secretary      | James D. Stauffer |

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

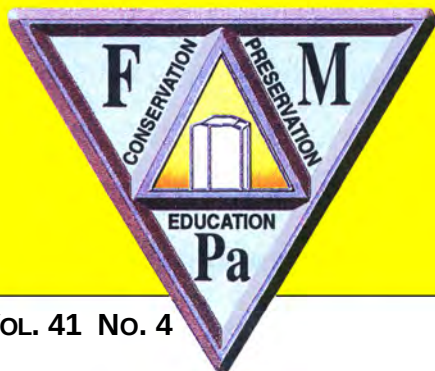
### COMMITTEE CHAIRS

|                   |             |
|-------------------|-------------|
| Membership Chair  | Cathy Mogel |
| Symposium Chair   |             |
| Field Trip Chair  |             |
| Web Manager       | Ron Sloto   |
| Newsletter Editor | David Glick |
| Grants Chairman   | David Saja  |

### BOARD OF DIRECTORS

George Rambo  
David Glick  
Fred Stohl

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



# FRIENDS OF MINERALOGY Pennsylvania Chapter NEWSLETTER

VOL. 41 No. 4

[www.rasloto.com/FM/](http://www.rasloto.com/FM/)

WINTER 2013

## Seeking Volunteers to Run for President and Vice President

by Ron Sloto and Dave Glick

As noted in the last issue's President's Message, Arnold Mogel has stepped down as chapter President after many years and multiple terms of service. Pen Ambler has resigned as vice president, likewise after a great deal of service.

The chapter now needs **candidates for president and vice president**. Please volunteer to be a candidate - **your service is needed!** This is your opportunity to bring your particular enthusiasm, skills and interests to these leadership positions and help the chapter continue its good work. The presidency is not a hugely time consuming job but it does require some work at certain times of the year. The vice president can assist in this work and stand ready to fill in for the president if needed.

Board members Ron Sloto and Dave Glick are serving as the Election Committee. To volunteer or find out more, please contact Ron at [rasloto@aol.com](mailto:rasloto@aol.com) or 610-469-6902.

We look forward to your response!

## There's Still Time to Pay Dues

This newsletter is being sent to all members who were paid for 2013. If you have not yet paid your dues for 2014, there's still time to pay so that your membership benefits, including delivery of this newsletter, will not lapse. Please be sure to provide any updates to your contact information, such as a new e-mail address; the member data sheet is available at the chapter web site [www.rasloto.com/FM/](http://www.rasloto.com/FM/) under "Join FM." Rates are \$20 for full membership, \$15 for students and seniors (over 62). Checks should be made out to "Friends of Mineralogy, PA Chapter" and mailed to the new Membership Chairman:

Ron Sloto  
PO Box 13  
St. Peters PA 19470

Please remember to provide updates to Ron whenever your contact information changes. *-Editor*

## MINERAL NOTES

### Phosphate Minerals from the National Limestone Quarry near Mount Pleasant Mills, PA

by Ron Sloto

Wavellite occurs as green and yellowish green radiating spherules at the National Limestone quarry property. This locality also is known as Lime Ridge. Wavellite was first reported from the quarry in 2000, but was found in abundance in a road cut constructed behind the quarry. In addition to wavellite, Cabaniss and Kearns (2012) verified the following minerals from this locality by X-ray diffraction and energy-dispersive X-ray spectroscopy:

Cacoxenite  $\text{AlFe}^{3+}_{24}(\text{PO}_4)_{17}\text{O}_6(\text{OH})_{12} \cdot \sim 75\text{H}_2\text{O}$

Planerite  $\text{Al}_6(\text{PO}_4)_2(\text{PO}_3\text{OH})_2(\text{OH})_8 \cdot 4\text{H}_2\text{O}$

Turquoise  $\text{Cu}^{2+}(\text{Al})_6(\text{PO}_4)_4(\text{OH})_8 \cdot 4\text{H}_2\text{O}$

Variscite  $\text{AlPO}_4 \cdot 2\text{H}_2\text{O}$

Vauxite  $\text{Fe}^{2+}\text{Al}_2(\text{PO}_4)_2(\text{OH})_2 \cdot 6\text{H}_2\text{O}$

This is the first verified reported occurrence of vauxite in Pennsylvania.

## Reference

Cabaniss, K., and Kearns, L.E., 2012, Chemical and physical characterization of wavellite,  $\text{Al}_3(\text{PO}_4)_2(\text{OH},\text{F})_3$ , from the National Limestone quarry near Mount Pleasant Mills, Snyder County, Pennsylvania [abstract]: Contributed Papers in Specimen Mineralogy: 38<sup>th</sup> Rochester Mineralogical Symposium: Part 1: Rocks and Minerals, vol. 87, no. 2, p. 173-174.

## EDITOR'S NOTE

I do apologize for the delay in producing this issue, the last for 2013. We should be back on track for the first issue of 2014 to come out on schedule in March, but your contributed articles and photos will be needed to make it happen! Please provide them by March 10; see page 4 for further information.

## Another Rewarding Pennsylvania Chapter Symposium and Field Trip

by Dave Glick

The Friends of Mineralogy – Pennsylvania Chapter held its 2013 symposium and field trip on November 2-3. Franklin and Marshall College's Department of Earth and Environment once again provided its facilities to host the meeting. There were sales by selected dealers, a silent auction, give-away table, and opportunities to meet and talk with fellow collectors during breaks and at lunch.

The presentations by experts on the theme of **Pennsylvania minerals, geology and mining** were:

**Stan Mertzman**, Franklin & Marshall College:  
Slag, Ceiling Tile, and Industrial Mineralogy

**William Kochanov**, Pennsylvania Geological Survey:  
A revised interpretation of the Fairfield Quarry debris flow deposits, Adams County, Pennsylvania

**Robert Beard**, Geologist and author:  
Iron Mines in Pennsylvania, New Jersey and New York  
- Geology, History, and Minerals

**Ron Sloto**, US Geological Survey:  
The Jones Mine, Berks County, Pennsylvania

On Sunday, the group assembled at Cornwall, PA, to visit two sites for collecting minerals on the old mine dumps. The day started out cold but clear, and warmed up pleasantly as the morning went on. *-Editor*



The second field trip stop overlooked the lake filling the old pit.



Robert Beard, author of *Rockhounding Pennsylvania and New Jersey*, and chapter president and symposium organizer Arnold Mogel.



The schedule provided plenty of time for breaks with coffee and donuts, giveaways, silent auction and vendors. All photos by D. Glick.



A comfortable auditorium is a great benefit of the F&M venue.



## Weaverland Field Trip

One weekend before the symposium, the Pennsylvania Chapter held a mineral collecting field trip to Weaverland Quarry near New Holland, Lancaster County, Pa. Fluorite was among the minerals found. Photos by Mike Dunton *-Editor*



## From the National Newsletter

The January 2014 FM National Newsletter 44:1 <[www.friendsofmineralogy.org](http://www.friendsofmineralogy.org)> reports on plans for the general membership meeting on February 11<sup>th</sup>, business meeting on February 15<sup>th</sup>, and symposium on diamonds on February 15<sup>th</sup> at the Tucson Show. A report on the meeting at the Denver Show is included. The issue was e-mailed to Pa chapter members on January 23.

Pages 4 and 5 contain a ballot for four Board of Directors positions and information on four candidates. The **ballots are due** before the Board meeting on February 15<sup>th</sup>. For those FM-PA Chapter members receiving this newsletter on paper, those two printed ballot pages are being mailed as well.

President Allan Young says, "I recently attended (my first time) the annual New Mexico Mineralogical Symposium, one that the National FM has annually

supported, and had an absolutely great time "talking rocks" for three days. I would like to see our organization become more involved in supporting other symposia of this type nationwide, and thus help to promote participation in FM."

The issue includes an editorial on "Barriers to Field Collecting, Part IV" by Clyde Spencer, President of the **Midwest** Chapter, which was recently included in their newsletter.

News from the chapters includes publication of bulletins from four meetings of the **Colorado** Chapter. They will be co-sponsoring a San Juan Symposium with the Friends of Geology Museum, Colorado School of Mines to be held in September 2014 in the San Juan Mountains area. The **Southern California** Chapter held a fall symposium with a field trip examining the structure of the northwest trending auriferous quartz veins in the Dale District. They will hold a spring symposium, tentatively on "Oxidation of Sulfide Deposits." The **Pacific Northwest** Chapter held an October symposium on "Minerals Galore! Alkaline Intrusive Complexes of the World." The **New Jersey** Chapter is developing a display to be housed at the Geology Museum at Rutgers University, and will have a membership and mineral ID table at the January 25<sup>th</sup> annual Open House there.

*-Editor*

---

## FRIENDS OF MINERALOGY PENNSYLVANIA CHAPTER FINANCIAL REPORT 2013

---

### INCOME

|                  |                   |
|------------------|-------------------|
| Dues & donations | 1,269.00          |
| Symposium income | 649.00            |
| Book sales       | 78.16             |
| <b>TOTAL</b>     | <b>\$1,996.16</b> |

### EXPENSES

|                    |                   |
|--------------------|-------------------|
| Newsletter         | 92.90             |
| National dues      | 372.00            |
| Insurance          | 500.00            |
| Symposium expenses | 597.00            |
| Misc. expenses     | 246.78            |
| <b>TOTAL</b>       | <b>\$1,808.68</b> |

### SUMMARY

|                       |                   |
|-----------------------|-------------------|
| Beginning balance     | \$5,378.63        |
| Income                | 1,996.16          |
| Expenses              | 1,808.68          |
| <b>Ending balance</b> | <b>\$5,566.11</b> |

Further details (itemized entries on page 2 of the financial report) are available on request from Treasurer Ron Sloto.

## 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 10, 2014.** Feel free to contact me at [xidg@verizon.net](mailto: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 about books or articles published 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 sure they have some substance. If you know people who have interesting material, please encourage them to submit it.

### 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.

## UPCOMING EVENTS

**March 1-2, 2014:** Delaware Mineralogical Society Show, Delaware Technical & Community College, Stanton, Delaware. Sat. 10 - 6, Sun. 11 - 5.  
<http://www.delminsociety.net/marchshow.htm>

**March 22-23, 2014:** Che-Hanna Rock & Mineral Club Show. Athens Township Volunteer Fire Hall, 211 Herrick Ave., Sayre, PA. Dealers, exhibits, kids activities, demonstrations, fossil ID, special exhibit and silent auction by Carnegie Museum, fossil exhibit by Paleontological Research Institute. Sat. 9-5, Sun. 10-4.  
<http://www.chehannarocks.com/show.html>

**March 22-23, 2014:** 36th Annual Gem, Mineral & Jewelry Show sponsored by the Franklin County Rock and Mineral Club, Chambersburg, PA; Hamilton Heights Elementary School, 1589 Johnson Road, Chambersburg, PA

**March 29-30, 2014: EFMLS Convention** and Philadelphia Mineral Treasures and Fossil Fair, by Philadelphia Mineralogical Society and the Delaware Valley Paleontological Society. Lulu Temple, 5140 Butler Pike, Plymouth Meeting, PA 19462. Sat. 10-5, Sun. 10-4.  
<http://pms.moonfruit.com/#/mineral-show/4527879809>

**April 18-19, 2014:** First Gem, Mineral & Fossil Show for the non-profit **North Museum of Natural History and Science**. At Farm & Home Center, 1383 Arcadia Rd (off Manheim Pike), Lancaster, PA. Friday 10-6, Saturday 10-5. **VENDORS WANTED:** \$50.00 per table. Contact Alison Mallin, 717-358-7188 <[amallin@northmuseum.org](mailto:amallin@northmuseum.org)> for more information and to reserve a space.

**May 17-18, 2014:** World of Gems and Minerals, by Berks Mineralogical Society. Leesport Farmers Market Banquet Hall, Rt 61, Leesport PA.

**June 7, 2014:** Spring Minerafest - Mineral Fossil and Gem Show sponsored by the Pennsylvania Earth Sciences Ass'n. Macungie Memorial Park, Macungie, PA

### FM on the WWW

Please explore the FM-PA web site at  
[www.rasloto.com/FM/](http://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](http://www.friendsofmineralogy.org)

## Friends of Mineralogy Pennsylvania Chapter Directory of Officers

### OFFICERS and BOARD OF DIRECTORS members

|                |                                       |
|----------------|---------------------------------------|
| President      | <i>candidates needed - see page 1</i> |
| Vice President | <i>candidates needed - see page 1</i> |
| Treasurer      | Ron Sloto                             |
| Secretary      | James D. Stauffer                     |

### COMMITTEE CHAIRS

|                   |             |
|-------------------|-------------|
| Membership Chair  | Ron Sloto   |
| Symposium Chair   |             |
| Field Trip Chair  |             |
| Web Manager       | Ron Sloto   |
| Newsletter Editor | David Glick |
| Grants Chairman   | David Saja  |

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

### BOARD OF DIRECTORS

George Rambo  
David Glick  
Fred Stohl

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