Nittany Mineralogical Society Bulletin

Nittany Mineralogical Society, Inc., meeting in State College, Pennsylvania
Contact information on back page

February, 2017 **Visit our web site: www.nittanymineral.org** *Editor (see back page): David C. Glick*

February 15th meeting - IST BUILDING:

"Where's the Lead?" at Fort Roberdeau by George Pedlow

Our February meeting will be held Wednesday the 15th; ***NOTE THE LOCATION: Room 113 Information Sciences & Technology (IST) Building*** *(which bridges North Atherton St.) on the west side of the Penn State campus in State College, PA.* It is the building to the left of Earth & Engineering Sciences Building (EESB) when viewed from our usual parking lot. The room is on the ground floor, accessible from either the end door facing EESB or the main door at the corner of the parking lot near Atherton St. *Maps are available on our web site.*

6:45 to 7:45 p.m.: Social hour, refreshments in the hallway [if a site is available]
7:45 to 8:00 p.m.: announcements, questions, answers
about 8:00 p.m.: featured program

The event has free admission, free parking, and free refreshments, and is open to all; ***parents/guardians must provide supervision of minors.*** *Bring your friends and share an interesting evening! -Editor*

Fort Roberdeau, northeast of Altoona in Sinking Valley, is the "Lead Mine Fort" of the Revolutionary War. Because of later exploration, regrading, farming, etc., the location of the original prospects and excavations has been unclear for many decades. Through the use of old maps and today's satellite images and Google Earth, George Pedlow has found some answers. Some new investigation of the lead deposit itself is also being done. Please join us to hear what's new!

Learn more about Fort Roberdeau and events held there at the web site www.fortroberdeau.org and Facebook page www.facebook.com/ftroberdeau.

ATTENDING THE FEBRUARY MEETING?
Donations of **a few high quality, labeled door prize specimens** are invited.
Bring a friend!
NOTE THE MEETING LOCATION IN IST BUILDING

Minerals Junior Education Day Saturday, April 1, 2017

Frank Kowalczyk will be coordinating NMS's 22nd Annual Minerals Junior Education Day. It is set for Saturday, April 1, at Central Pennsylvania Institute of Science & Technology at Pleasant Gap, the same location as the last two years. Please save the date and think about how you might help bring this great event to families in our community.

At this event, kids get an empty egg carton when they check in, then go to a series of stations, each concerning a different aspect of mineral properties, rocks, fossils, etc. They learn about the topic from a demonstration or discussion, and receive a properly labeled specimen or educational item related to the topic, so they gather a whole collection in their egg carton. There is also a sales table with kid-friendly prices.

We are starting early to prepare for the 2017 event, seeking **volunteers** to help to present the stations, and ideas for stations which we (or you) might present. We also welcome advance donations of identified minerals, tumble-polished material, fossils, books, etc. which can be sold at child-friendly prices. To volunteer or get more details, **please contact Frank J. Kowalczyk:**
frank.j.kowalczyk@gmail.com or 814- 238-8874

GEODE NIGHT Returns on March 15

After a two-year absence, we are happy to announce that we are planning for the return of GEODE NIGHT at our March 15 meeting. Buy a geode at a good price, be the first to see inside when it's cracked open, and attend a fascinating program about their origin and mining in Mexico. It's a great program for families - please tell your friends!

Watch for details about the event on our web site and in the March Bulletin. We will probably start early - perhaps 6:00 p.m. - with the program around 7:15, if that works out with our meeting room.

FEDERATION NEWS

Nittany Mineralogical Society, Inc., is a member of EFMLS, the Eastern Federation of Mineralogical and Lapidary Societies, and therefore an affiliate of AFMS, the American Federation of Mineralogical Societies. We present brief summaries here in order to encourage readers to see the entire newsletters.

The **EFMLS Newsletter** is available through the link on our web site **www.nittanymineral.org**, or remind Dave Glick to bring a printed copy to a meeting for you to see. The February issue continues publicity and registration for the week-long workshops at Wildacres in the mountains of North Carolina, particularly the Fall session, to be held September 4-10, with Timothy Morgan as Speaker-in-Residence. A description, list of classes and a registration form are in that issue. President Dave Korzendorfer continues some thoughts on keeping up the energy level in a club and reviving its membership numbers. The Conservation & Legislation column covers proposed additional regulations for collecting on lands managed by several Federal agencies (however, the period for comment closed on February 6). Donations to the Eastern Foundation Fund, and nominations for Each One Teach One recognition and honors, are invited.

The **AFMS Newsletter** is available by the same methods; the February issue opens with a safety article discussing ultraviolet exposure while setting up and observing fluorescent mineral displays. The President describes collecting experiences, sharing collecting information, and following the AFMS Code of Ethics to help ensure that collecting sites stay open. There is a call for All American Club Yearbook entries, by April 1. Rockhounds of the Year from many clubs are honored. Information on the AFMS 2017 Show & Convention, in Ventura, California, is available at <2017CFMS-AFMSShow.com>. The conservation & legislation article covers coordinating information on legislation, etc.

Please see the web sites for the complete Newsletters. There's a lot there! *-Editor*

Weather Cancellation Policy

In case we experience active winter weather on a meeting date, our policy is to cancel the meeting only if evening classes at Penn State have been cancelled. That cancellation is publicized in the usual radio and TV service announcements. Penn State notes that weather-related cancellation / closing information can be found at WPSU-FM, the news site <http://news.psu.edu/>, and <http://www.facebook.com/pennstate > *- Editor*

Geo-Sudoku

by David Glick

This puzzle contains the letters ACDEILRSW. One row or column includes EFMLS's North Carolina retreat for lapidary education & fellowship. As usual, if you've read this issue, you've seen the word. Each block of 9 squares, each row, and each column must contain each of the nine letters exactly once. The solution is on page 8. (We are repeating this puzzle from a few years ago because of a program problem.)

I	D	A		L	E			
	L					E	C	I
				R		A	D	
S			E			W		D
D		C			L			
					I	S	L	C
	S	W						R
L	R	D	A		S			E
			L	E	R		W	

Franklin County Rock & Mineral Club
39th Annual Gem - Mineral & Jewelry Show
March 25 & 26, 2017
Saturday 10 a.m. - 5 p.m.
Sunday 10 a.m. - 4 p.m.
Jewelry - Gemstones - Minerals - Fossils
Displays - Demonstrations - Door Prizes

Hamilton Heights Elementary School
1589 Johnson Road
Chambersburg, PA

Directions: Exit 16 off Interstate 81 at Route 50 West. Travel through Chambersburg 2.2 miles to traffic signal at Sollenberger Rd. Turn right on Sollenberger Road and go 1.0 mile; keep right onto Johnson Rd. The school is 0.3 mile on the left.
Show entrance at the rear.
Admission 5.00 Children under 12 free with adult.

Delaware Show and Symposium
by Delaware Mineralogical Society

Saturday, March 4, 2017, 10:00 a.m.- 5:00 p.m.
Sunday, March 5, 2017, 11:00 a.m. - 5:00 p.m.

Arsht Hall, Univ. of Delaware (Wilmington Campus)
2700 Pennsylvania Avenue
Wilmington, DE 19806

Find show coupons, maps, directions, and details at
http://delminsociety.net/marchshow/marchshow.htm

This year's show theme is "Quartz, Of Course!" The show will include many dealers; displays, demonstrations, raffle, kids activities and give-aways, and a **symposium** with several speakers.

Symposium Speakers - see more details at
http://delminsociety.net/marchshow/symposium.htm

Dave Bohaska, Smithsonian Institution, Collections Management, Vertebrate Paleontology. "Fossil Collecting at Calvert Cliffs"

David Wunsch, Ph.D, Delaware Geological Survey State Geologist, "Gold and Platinum Group Metals Mines of the World"

Cathy Young, Mid-Atlantic Fossil and Nature Adventures. "Fossil Collecting by Boat on the Eastern Seaboard"

Karenne Snow, "Type Localities for Minerals"

Sandy Schenck, Delaware Geological Survey, "What's Under the Coastal Plain and How That Might Change the look of the Delaware Piedmont Bedrock Map"

Dr. Stan Mertzman, Ph.D., Franklin & Marshall University, "How Earth Works: Focusing on Volcanoes and Earthquakes"

Steve Lindberg, University of Pittsburgh at Johnstown, "How to Build a Dinosaur, Fabricating Fossil Replicas"

Dr. Tim Folkomer, (retired): "Dinosaur National Monument", Dr. Folkomer has also offered to have an open invitation to help kids identify their minerals after his talk.

Dr. Ian Saginor, Ph.D,. Federal Bureau of Investigation (FBI), formerly of Keystone University, "Forensic Geology at the FBI"

48th Annual
GEM & MINERAL SHOW
Presented by
Che-Hanna Rock & Mineral Club, Inc.
A (501c3) not-for-profit organization

Saturday March 25, 2017 9 a.m. – 5 p.m.
Sunday March 26, 2017 10 a.m. – 4 p.m.

**** NEW LOCATION ****
Wysox Vol. Fire Co. Social Hall
111 Lake Road, Wysox, Pa

Outstanding Geological Exhibits
Presented by
Carnegie Museum of Natural History and
Susquehanna River Archaeological Center

Special Exhibit and Silent Auction by
Carnegie Museum
Fossil/ Artifact Exhibit by S. R. A. C.

Demonstrations of Cabochon Making

Geode Cutting

Fluorescent Mineral Programs by UV-Bob
Saturday--11am--1pm--3pm
Sunday--12 noon--2pm

EXHIBITS OF MINERALS, GEMS, & INDIAN ARTIFACTS
MINI-MINE FOR KIDS
DEALERS WITH MINERALS, GEMSTONES, FOSSILS, JEWELRY & HOBBY SUPPLIES
DOOR PRIZES
FOOD AVAILABLE ON PREMISES
Donation Requested: Adults $3.00 Students $1.00 Under 8 Free

Philadelphia Mineral Treasures And Fossil Fair
2017 SHOW - see http://www.phillyrocks.org/

LuLu Temple: 5140 Butler Pike,
Plymouth Meeting, PA 19462

Saturday March 25, 10:00 AM – 5:00 PM
Sunday March 26, 10:00 AM – 4:00 PM

Sponsored by the Philadelphia Mineralogical Society and the Delaware Valley Paleontological Society

Admission - Adults $5.00 – Kids under 12, $1.00.
Uniformed Scouts Free.

Fossils, Minerals, Gems, and Jewelry for sale.
Fossil and Mineral Exhibits and Demonstrations.
Learning activities including a free Fossil Dig for children and a Kids Corner with free mineral specimens and scouting merit badge information.
Food, Beverages, and Door Prizes!

Landscapes and Geology of Pennsylvania:

Talks, Field Trip and New Museum Exhibit

by Bob Altamura

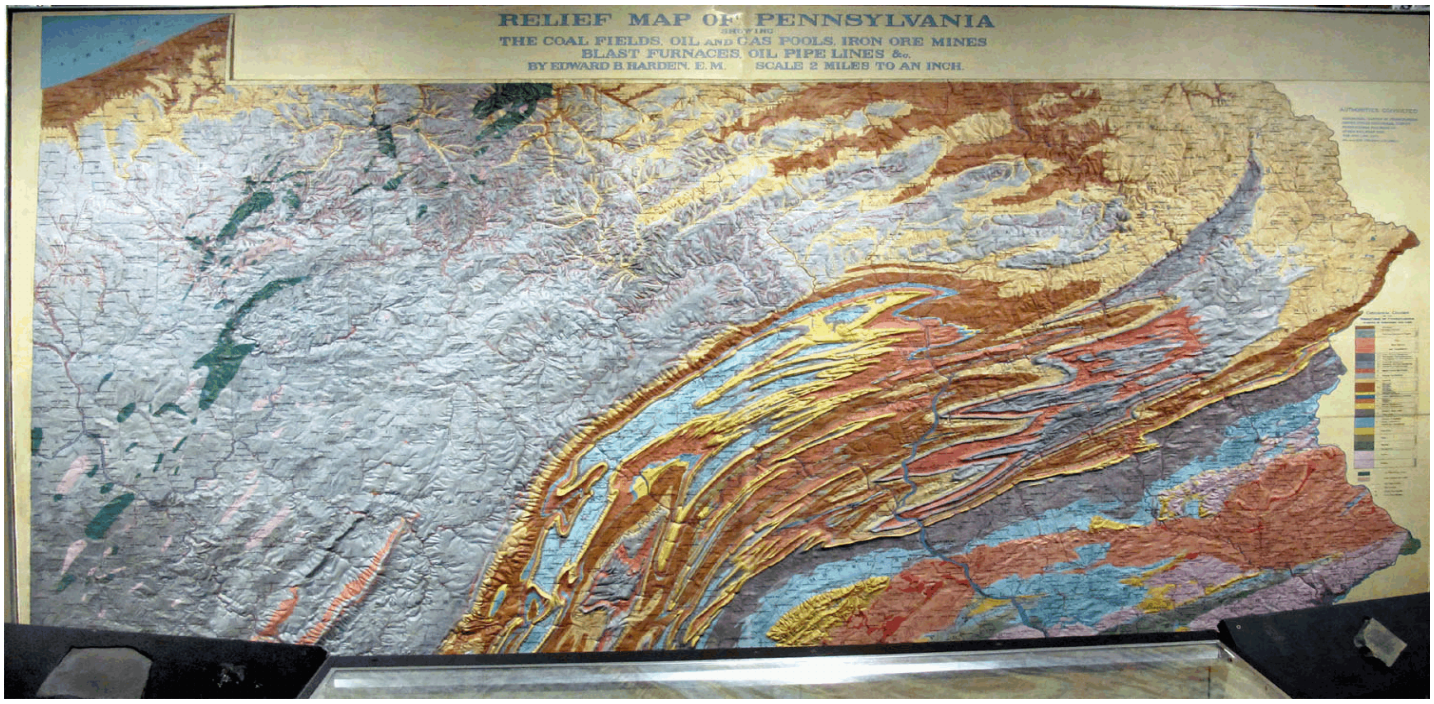
On February 23rd, NMS member Bob Altamura will give a presentation on "Landscapes and Geology of Pennsylvania" as part of a series of talks by the Penn State College of Earth & Mineral Sciences being given at The Village at Penn State during 2016-2017. If interested in attending, please contact Bob for details. This talk will be a follow up to an earlier talk on this topic that Bob presented to Nittany Mineralogical Society during January of 2016 and supplemented by articles in the Nittany Mineralogical Society Bulletin of that month (see <http://www.nittanymineral.org//bulletin/NMS1601.pdf>).

View of Bear Meadows (green foliated area in the center of the scene) from Bear Gap Road looking to the northeast (McAlevys Fort quadrangle, PA). *R. Altamura photo.*

Last year Bob co-led a geological/botanical field trip to Bear Meadows and the surrounding mountain landscapes, along with botanist Scott Schuette of the Pennsylvania Natural Heritage Program, for DCNR State Park educators. Participants viewed marvelous panoramas of the land (shown at right) and the interesting botany and zoology of the Bear Meadows bog.

View of Bear Meadows showing structural geology interpretation of eroded folded bedrock and a resulting inversion of structure and topography (valleys are anticlines, ridges are synclines). Black dashed lines represent folded strata of the Silurian Tuscarora and Ordovician Juniata and Bald Eagle formations which have eroded away. White dashed line shows the trace of the anticlinal fold axis that plunges to the southwest.

Opening this spring semester is the latest NMS exhibit in Penn State's Earth & Mineral Sciences Museum and Art Gallery. The theme is the



Relief map showing Pennsylvania geology, in the Earth & Mineral Sciences Museum gallery. *D. Glick photo.*

NMS exhibit at the Penn State Earth & Mineral Sciences Museum and Art Gallery. The title of the exhibit is "Geological Terrane Model of Pennsylvania and Selected Rock and Mineral Samples"; it was completed during spring term 2017. Specimens are arranged in approximate geographic position to correspond to the geologic map of Pennsylvania, and are keyed to a map and discussion of geologic terranes. *D. Glick photo.*

geology of Pennsylvania; the exhibit includes numerous mineral and rock samples from throughout the Commonwealth. It was completed by Bob with the assistance of Dave Glick and Julianne Snider. The exhibit is available for view in the Museum's main gallery on the ground floor of Deike Building, along Burrowes Road on Penn State's University Park campus. The NMS exhibit complements and is in front of a large relief map showing Pennsylvania geology that was first exhibited to the public during the late 19th century. It was professionally restored and placed on display in the Museum in 2015. Museum & Art Gallery hours are 9:30 a.m. to 5:00 p.m. weekdays; see http://www.ems.psu.edu/outreach/museum.

Door Prizes at February Meeting

NMS is supplying two "grand door prizes" for the February meeting, illustrated here. We'll be hearing about some sulfide minerals in George Pedlow's presentation on Fort Roberdeau, so we'll follow that theme for these prizes. Both are from late member John Passaneau; our best guess is that they were once part of his cataloged collection, and were later replaced there be even better examples of their species.

The first is a plate of small translucent sphalerite crystals, which in good light illustrate why miners called this variety "ruby jack." A few tetrahedral chalcopyrite crystals sit on top of the sphalerite. This specimen is from Joplin, Missouri. The second is a mass of pyrite crystals, mostly pyritohedrons, some octahedrons. This specimen has no label or locality information. *-Editor*

Pyrite crystal specimen, 86mm (3.4"). *D. Glick photo*

Sphalerite with chalcopyrite, Joplin, Missouri. Longest dimension 90mm (3.5"). *D. Glick photo*

Chalcopyrite tetrahedral crystal, 6mm (1/4 inch), among the sphalerite crystals on the specimen above. *D. Glick photo*

EFMLS CONVENTION 2017

from EFMLS Newsletter 64:4, February 2017
by Dave Korzendorfer, EFMLS President

Mark your calendar for the 2017 EFMLS Annual Convention—the weekend of October 20 - 22, in Bristol, Connecticut. Mid-October is typically peak time for fall color, which can be spectacular. We'll have lots of activities planned for those who come, including road logs for those who want to drive and experience quaint New England, with the reds and golds of fall foliage juxtaposed with rock walls, winding roads, old cemeteries, and white churches.

Connecticut is a small state in size, but is very rich in mineral diversity. The pegmatites in the central valley region produced many fine gem-quality beryl and tourmaline crystals, as well as most other pegmatite suite minerals. Thanks to being at the site of multiple plate collisions, Connecticut is composed of all three rock types, and minerals occur in a wide variety of geologic terrains. The metamorphic terrains produced abundant garnet (the state mineral), kyanite, and other metamorphic minerals. World-class Bristol chalcocite crystals were formed at the contact of sedimentary rocks and volcanic extrusive rocks. The theme of the show is "Connecticut Rocks," with a focus on the mineralogy of the state, and there will be a Saturday talk on the Geologic History of Connecticut. Yale's Peabody Museum and the Connecticut Mining Museum are short drives from the show location, and the Harvard Museum is only a 2-hour drive away.

We hope to see you all at the convention.

Fabulous Fall at Wildacres

from EFMLS Newsletter 64:4, February 2017
http://www.amfed.org/efmls/newsletters.htm
by Steve Weinberger, WA Committee Chair

Get ready to be a part of a fabulous fall EFMLS Wildacres Workshop! The dates are September 4 - 10, 2017 and our speaker in residence is Timothy Morgan. The line-up of classes as always is stellar so you can exercise your creative juices and learn (or reinforce) a new skill. See page 11 of the February EFMLS Newsletter for the complete list.

And don't forget about the spring session either. Speaker-in-Residence Bob Jones is planning on his usual six entertaining and educational talks and like Tim, will be with us on campus for the entire session. Life cannot be better!

A week long session at the lovely Wildacres Retreat is $410 per person which includes your tuition, room and board plus gratuities for the Retreat permanent staff. Meals are served family style in the lovely Wildacres dining room and bedrooms are lovely, each with its own private bathroom. Classes are held in the numerous, well-equipped Wildacres classroom facilities.

EFMLS has been holding workshops at the Wildacres Retreat since 1973 and over the years, our sessions have grown in both content and variety. Past Speakers-in-Residence have included a variety of museum curators, gem and jewelry experts, authors and mineralogists. Over the years, many of our speakers have asked to come back and we've been delighted to have them because of their popularity. Bob for example is making his 10th? or so appearance with us and he's never failed to enthuse us with his personality and knowledge.

Wildacres sessions include other activities besides classes. Our activity day usually includes the opportunity to participate in an organized field trip, a fun tailgate session where you and your friends can sell or swap items you've brought, a few short educational programs given by some of your fellow participants, or a chance to go off and explore the area on your own. We also have a terrific auction where we sell hobby related items and on another evening a "show and tell" where we can all learn about the "other" classes that were offered during the session and see things that were made in them. We also sometimes have a fun night with humorous stories and skits, musical interludes and horrific puns.

If you've never attended an EFMLS Wildacres Workshop, or if you've been there before, now's your chance. Look over the classes being offered, fill in that registration form (page 12 of the February EFMLS Newsletter) write your tuition check, and pop it in the mail. The earlier you register the better your chance of getting into the class or classes of your choice!

Mineral Specimens for sale

I am preparing to sell a large percentage of my worldwide collection and thousands of Pennsylvania specimens, many self collected and old classics. There's plenty of variety, and plenty for different levels of collector interest. Anyone interested should call to set up an appointment. Thanks,

Skip Colflesh, Hershey, PA
phone 717-805-2027

Geo-Sudoku Solution

I	D	A	C	L	E	R	S	**W**
W	L	R	S	A	D	E	C	**I**
C	E	S	I	R	W	A	D	**L**
S	I	L	E	C	A	W	R	**D**
D	W	C	R	S	L	I	E	**A**
R	A	E	W	D	I	S	L	**C**
E	S	W	D	I	C	L	A	**R**
L	R	D	A	W	S	C	I	**E**
A	C	I	L	E	R	D	W	**S**

Some Upcoming Shows and Meetings

Our web site http://www.nittanymineral.org has links to more complete lists and details on mineral shows and meetings around the country. See www.mineralevents.com for more.

March 4-5, 2017: Earth Science, Gem and Mineral Show by Delaware Mineralogical Society. NEW LOCATION: U. Del. Wilmington campus, Arsht Conference Center, 2800 Pennsylvania Ave (Rt. 52), Wilmington DE 19806. Sat 10-5, Sun. 11-5. Info and coupons at www.delminsociety.org
- - - **AND Symposium - see page 3.**

March 25-26, 2017: Che-Hanna Rock & Mineral Club Annual Show, NEW LOCATION: Wysox Volunteer Fire Company, 111 Lake Rd., Wysox, PA; Sat. 9-5, Sun. 10-4; $3.00, $1.00, under 8 free; 48th Annual Show. Club members exhibits, museum exhibits, lapidary demonstrations, door prizes. Kids' scavenger hun & mini mine. Fluorescent show. Dealers. www.chehannarocks.com

March 25 -26, 2017: Gem- Mineral & Jewelry Show by The Franklin County Rock and Mineral Club, Hamilton Heights Elementary School, 1589 Johnson Road, Chambersburg, PA. Jewelry - Gemstones - Minerals - Fossils - Displays - Demonstrations - Door Prizes. Saturday 10 a.m.- 5 p.m. Sunday 10 a.m.- 4 p.m.

March 25 -26, 2017: Show and sale by Philadelphia Mineralogical Society & Delaware Valley Paleontological Society, Lu Lu Temple; 5140 Butler Pike; Sat. 10-5, Sun. 10-4; www.philamineralsociety.org

April 29-30, 2017: 45th Annual Gem & Mineral Show with Outdoor Swap, by New Jersey Earth Science Ass'n, Franklin School, 50 Washington Ave., Franklin, NJ 07416. Sat. 9 a.m. - 5:30 p.m.; outdoor swap 8 a.m. - 5 p.m. Sunday 10 a.m. -. 5 p.m.; outdoor swap 9 a.m. - 5 p.m. http://www.njesa.org/spring-mineral-show.html Contact: Sterling Hill Mining Museum, (973)209-7212

May 6, 2017: South Penn Rock Swap, by Central Penn & Franklin County R&M Clubs. South Mountain Fairgrounds, west of Arendtsville PA on Rt 234. For GPS use 615 Narrows Rd, Biglerville PA 17307. Contact: tsmith1012@comcast.net

May 20-21, 2017: 49th Annual "World of Gems and Minerals" Rock, Mineral, Fossil and Jewelry Show, by Berks Mineralogical Society. Leesport Farmers Market, Leesport, PA. Contact: Jim Woodeshick brwoodpile@yahoo.com

June 3, 2017: Spring Mineralfest by PESA, Macungie, PA. Sat. only 8:30 -3:00. http://www.mineralfest.com/

June 16-17: Annual Show by Lancaster County Fossil and Mineral Club, Solanco Fairgrounds, Hoffman Building; 172 South Lime St.; Fri. 12-8, Sat. 10-5.

October 21-22, 2017: EFMLS Convention & Show, Bristol, Connecticut.

Visit us at www.nittanymineral.org

INVITE A FRIEND TO JOIN THE SOCIETY

The Nittany Mineralogical Society prides itself on having among the finest line-up of speakers of any earth sciences club in the nation. Everyone is welcome at our meetings. If you'd like to be part of our Society, dues are $20 (regular member), $7 (student rate), $15 (seniors), $30 (family of two or more members, names listed). Those joining in March or later may request pro-rated dues. Your dues are used for programs and speakers, refreshments, educational activities, Bulletins, and mailing expenses. Please fill out a membership form (available at www.nittanymineral.org), make checks payable to "Nittany Mineralogical Society, Inc." and send them in as directed, or bring your dues to the next meeting.

We want to welcome you!

CONTACT INFORMATION

mailing address:

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c/o S. Bingham, Treasurer
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Penna. Furnace PA 16865

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e-mail: gold@ems.psu.edu
Door Prizes: Dr. Bob Altamura (see above)
Facebook & Publicity: John Dziak: jjd264@psu.edu

The **Bulletin Editor** will welcome your submissions of articles, photos, drawings, cartoons, etc., on minerals, fossils, collecting, lapidary, and club activity topics of interest to the members. Please contact:

David Glick E-mail: xidg@verizon.net
209 Spring Lea Dr. phone: (814) 237-1094 (h)
State College, PA 16801-7226

Newsletter submissions are appreciated by the first Wednesday of the month. Photographs or graphics are encouraged, but please do not embed them in word processor files; send them as separate graphics files (TIF, or good to highest quality JPEG files, about 1050 pixels wide, are preferred). Please provide captions and name of photographer or artist.