Nittany Mineralogical Society Bulletin

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

October, 2026 **Visit our web site: www.nittanymineral.org** *Editor (see back page): David C. Glick*

October 21st meeting:
IN PERSON at BOAL HALL

Landscapes and Geology of Pennsylvania: A Portrait of the Commonwealth

by
Dr. Robert J. Altamura

Our October meeting will be held Wednesday the 21st in Boal Hall (Boalsburg Fire Hall), 113 East Pine St., Boalsburg, PA 16827. Maps are on our web site.

7:00 to 7:45 p.m.: Social "hour," refreshments
7:45 to 8:00 p.m.: Announcements, door prizes, sales
about 8:00 p.m.: featured program

The event has free admission and free parking (lot just east of Fire Hall along East Pine St.), and is open to all; ***parents/guardians must provide supervision of minors.***
Bring your friends and share an interesting evening.

The Commonwealth of Pennsylvania is naturally divided into six landscapes or geographic terrains. Each tends to have a distinct appearance, related largely to the nature of the underlying structure of the bedrock, and how it has been eroded or glaciated. The grain of these landscapes follows a general southwest to northeast trend; here in State College we are near the northwestern edge of the Ridge and Valley Appalachians, and beyond that edge in Centre County is the Allegheny Front, marking the beginning of the Appalachian Plateau. The lay of the land and its underlying bedrock and surficial geology have affected the course of human events as well as the distribution of zoology and botany, as the author will discuss during his presentation.

See pages 4-6 for the complete illustrated article.

Rhoneymeade Fall Festival Saturday, October 24

NMS will present a booth at the Rhoneymeade Fall Festival, covering local and regional geology, minerals, and fossils, as well as our Society activities. Volunteers to help would be very welcome! Sign up by emailing Bob <raltamura@comcast.net> or by calling or texting his cell, 814 880-6762. See their calendar at https://www.rhoneymeade.org/events/fall-festival-1

******* DUES ARE DUE *******
OCTOBER 31 - see page 3

JUNIOR ROCKHOUNDS MEETINGS
OCT. 21, NOV. 18, DEC. 16 -See P. 2

—Sign up now—

Landscapes & Geology Tour Friday, October 23

Dr. Altamura is planning to lead another variation on his regional tour to view geology and landscapes and consider how they have affected human habitation and accomplishments. The trip will take a full day, including stops in Seven Mountains and Rothrock State Forest, Greenwood Furnace State Park, Bear Meadows Natural Area, Whipple Dam State Park, and more. One of the exclusive aspects of the tour is passage on an otherwise closed forest road with great views of Bear Meadows and the mountains.

It's a car pooling tour; vehicles suitable for somewhat rougher State Forest roads will be required, although we've never had a problem. Sign up for the trip now - space is limited - by emailing Bob <raltamura@comcast.net> or by calling or texting his cell, 814 880-6762. *- Editor*

OFFICIAL NOTICE: Annual Meeting and Elections in October

by David Glick, NMS President

The October 21st meeting, to be held at Boal Hall in Boalsburg, will be the **Annual Meeting of the Corporation**. Business will include election of officers. The incumbent officers will stand for re-election:

President	David Glick
Vice President	Bob Altamura
Treasurer	Stuart Bingham
Secretary	Barry Scheetz

The Board truly needs **additional volunteer**s to get involved with running the Society, providing **new energy and fresh thinking** and some new names on the ballot in the future. Newcomers could spend some time on committees and attending Board meetings before stepping into elected office. Please consider volunteering!

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 encourage our readers to read their monthly newsletters, which are linked from the left sidebar of our web site, <http://www.nittanymineral.org>.

The AFMS newsletter (now digital only) for the month of October is available at <https://www.amfed.org/newsletter>. Ronna Watkins writes her last message as President, saying her experience has been wonderful. She notes that the American Land Access Association has disbanded. Nominations are invited for Rockhounds of the Year. recounts her visits to three regional federation conventions and the fun she's had. The Safety article, 'Lunch on the Field Trip,' is reprinted on page 7 of this Bulletin.

The Eastern Federation's <https://efmls.org/> October Newsletter includes outgoing president Andrew "Rockhound's" column, reprinted at right. Registration and Zoom information for the EFMLS Convention, October 16-19 in Charleston, West Virginia, is provided. The Federation will once again offer the EFMLS Carolyn Weinberger Memorial Wildacres Scholarship award to two individuals for the upcoming EFMLS Wildacres Workshop to be held in May 10-16, 2027. *- Editor*

Junior Rockhounds Monthly Meetings September - December, 2026

This Fall, Dr. Andrew Sicree will present monthly meetings for kids at 6:00 - 6:45 p.m. on the third Wednesday of the month 10/21, 11/18, 12/16). They'll be at Boal Hall (Boalsburg Fire Hall), 113 East Pine St., Boalsburg PA 16827. See www.nittanymineral.org/juniors.htm

The meetings have a different topic each time, such as minerals, fossils, gemstones, geology, and dinosaurs. They include fun hands-on activities and discussions with an expert. Parents stay with their children, and may get a lot out of the meetings too! You don't have to be a member; please come out and see what it's all about. Adults who would like to help present these programs are cordially invited to come to a meeting.

Participants are welcome to stay for the main monthly meeting of Nittany Mineralogical Society: 7:00 p.m. in the same room (except December which is our holiday dinner), featured program at 8:00 p.m.

EFMLS President's Message

from Andrew Rockhound

EFMLS News v. 73 no. 10 October, 2026

A Rockhound's journey is never over, but after two years serving as EFMLS president, this journey for me is nearly over. This is my final president's message, and after writing them for the last four years straight (CPRMC President for two years prior), I have to admit, it's time for a break...

As I leave office, I want assure everyone that the EFMLS is financially strong and will continue to grow into the future. However, I urge every one of you to consider stepping up and help make it a future everyone can be proud of, since without volunteers, the EFMLS will not continue on this successful path.

Four years ago, I came into this organization to figure out what it was, what it did, and why it matters to me. After four years I have definitely found those answers for myself, and recommend this path of discovery for club presidents and leadership across all our member clubs, as it will help you to grow as better leaders. Email us, and we'll get you involved!

October 16-18th is our convention in West Virginia, and we need every club to send delegates to participate, this is your chance to be involved in the process and vote on behalf of your club! The Kanawha club is hosting us and putting on a great show at the same time, thank you Kurt Canterbury for all your hard work! Come on out, and enjoy a fall getaway in West Virginia! Your club can highlight its own amazing members by hosting a convention during your club show! Reach out to us if your club would like to host!

I would like to personally thank all those who actually read these messages over the years, those who have reached out, those who have been a positive part of my two years leading the EFMLS. I hope all those who wrote the almost daily emails to me asking "I have a rock.... what is it... what is it worth... how do I cut/polish it...." found their answers when I directed them to the local clubs near them, and I hope those clubs gained new members... I also hope the next president doesn't have their email spammed out like mine and others have been LOL, I will not be using my email for a while after all this, but feel free to reach out I am still around and will respond from another account....

Thank you EFMLS, and if anyone finds themselves in the Mid-Atlantic, reach out, I am sure I will be leading a trip, teaching at an event or collecting something somewhere, would be happy to have you join me and Geology Club! (geologyclub.org). ❄

Dale Kephart, Barry Scheetz, and Bob Altamura at the NMS Maker Faire tables. *D. Glick photo*.

NMS at Happy Valley Maker Faire October 3-4

NMS was pleased to be invited back to the second annual Happy Valley Maker Faire at Axemann Brewery, Bellefonte. We demonstrated lapidary, the *making* aspect of our society. Bob Altamura organized and provided the display and giveaway materials, and was assisted at the event by Renie Adrian, Cecilia Farabaugh, Barry Scheetz, Dale Kephart, and Dave Glick. We saw about 200 people, and gave out 95 tumbled stone souvenirs and 21 brochures.

DUES are DUE OCTOBER 31

by David Glick, NMS Membership Chair

Our membership year ends on October 31; dues are payable now. A dues form is included with this issue, either on paper or digitally. The form is also available at <http://www.nittanymineral.org/mem.htm>. Feel free to save a stamp and bring your form and dues to the October meeting. **OR**, use the PayPal connection on the web site which has been updated for the new membership year (and email the dues form). The annual dues are: $25 regular membership; $18 seniors 65 years+; family $35; students $10. Your dues are used for programs and speakers, meeting hall rental, refreshments, outreach and educational activities, Bulletins, and mailing expenses. We look forward to your continuing membership!

ATTENDING THE OCTOBER MEETING?
Donations of **one or two high quality, labeled door prize specimens** are invited.
Larger quantities can go in a giveaway box.
Bring a friend!

ADVERTISEMENT
LAPIDARY LESSONS

Learn to carve and polish semiprecious gemstones from exotic rough rock material under the tutelage of Bob Altamura, a lapidary artist of many years. Learn to saw rocks into slabs and to transform slabs into various outlines and to shape into domed gemstones (cabochons).

Prepare an actual gemstone. Lessons includes use of lapidary machines and tools, including lapidary rock saws, grinding wheels and laps that are necessary to create gem outlines (preforms); to dome the into cabochons, and to finely polish into the finished gemstone.

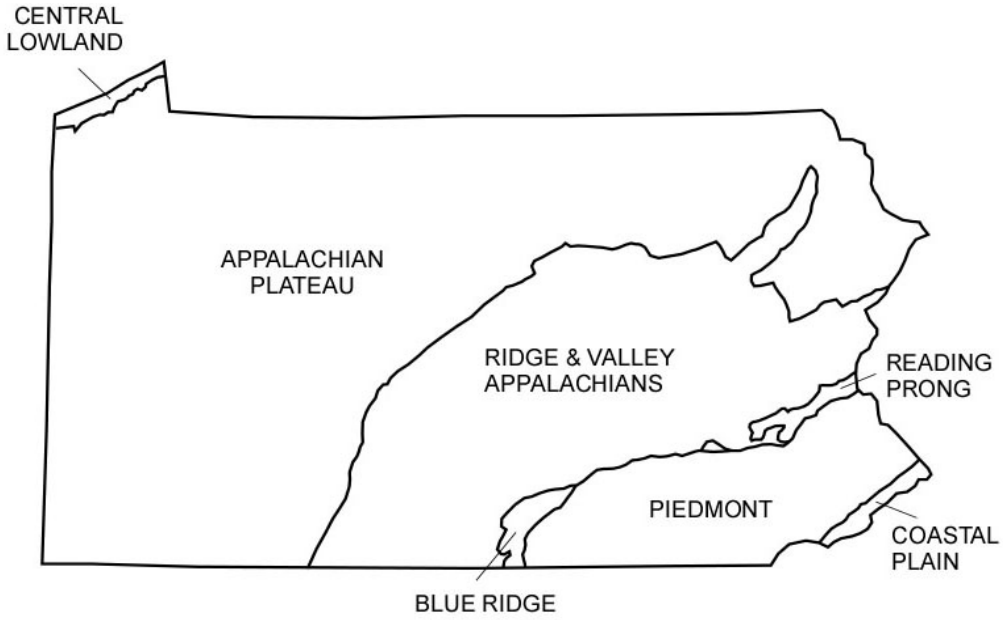
Instructor will provide a wide variety of rough rock materials for the student to select for their gemstone project. If desired the project gemstone can be set in a jewelry mount available from the instructor or jewelry supply catalogs.

A 1-hour personal lesson is priced at $40. If interested contact Bob at raltamura@comcast.net or 814-880-6762.

Landscapes and Geology of Pennsylvania: A Portrait of the Commonwealth

by Dr. Robert J. Altamura

The Commonwealth of Pennsylvania is naturally divided into six landscapes or geographic terrains, which may be called respectively the Coastal Plain, the Piedmont, the Reading Prong & Blue Ridge highlands, the Ridge & Valley Appalachians, the Appalachian Plateau, and a relatively thin edge of the Central Lowland of North America (see Figure 1). The Piedmont may be further divided into the Piedmont Uplands, the Conestoga Valley, and the Triassic Lowland. The Ridge and Valley section can be subdivided into the Great Valley section and the Appalachian Mountain section, which ranges from the first southwest-northeast trending ridge of many from the Great Valley, named Blue Mountains, to the furthest ridge to the northwest, Bald



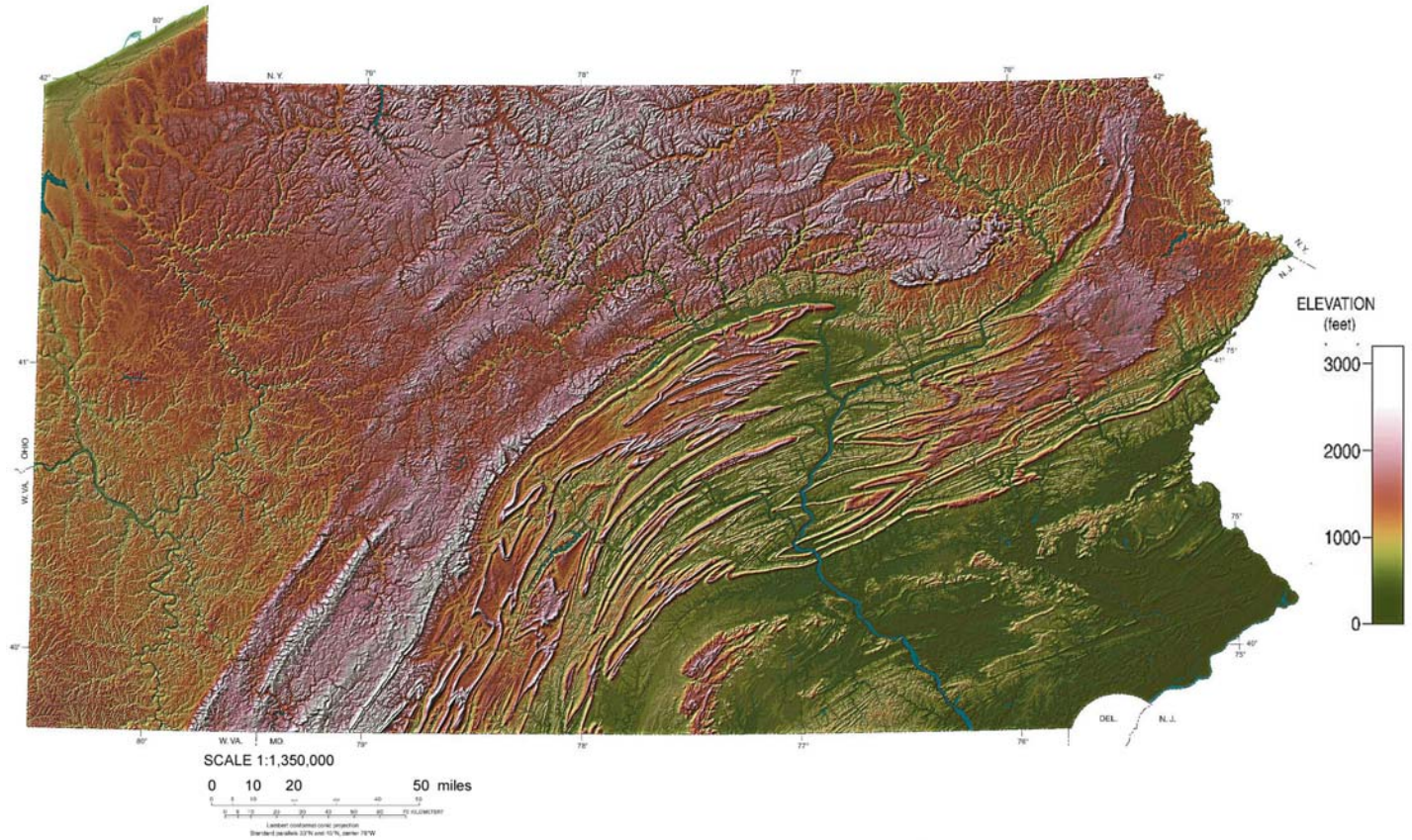


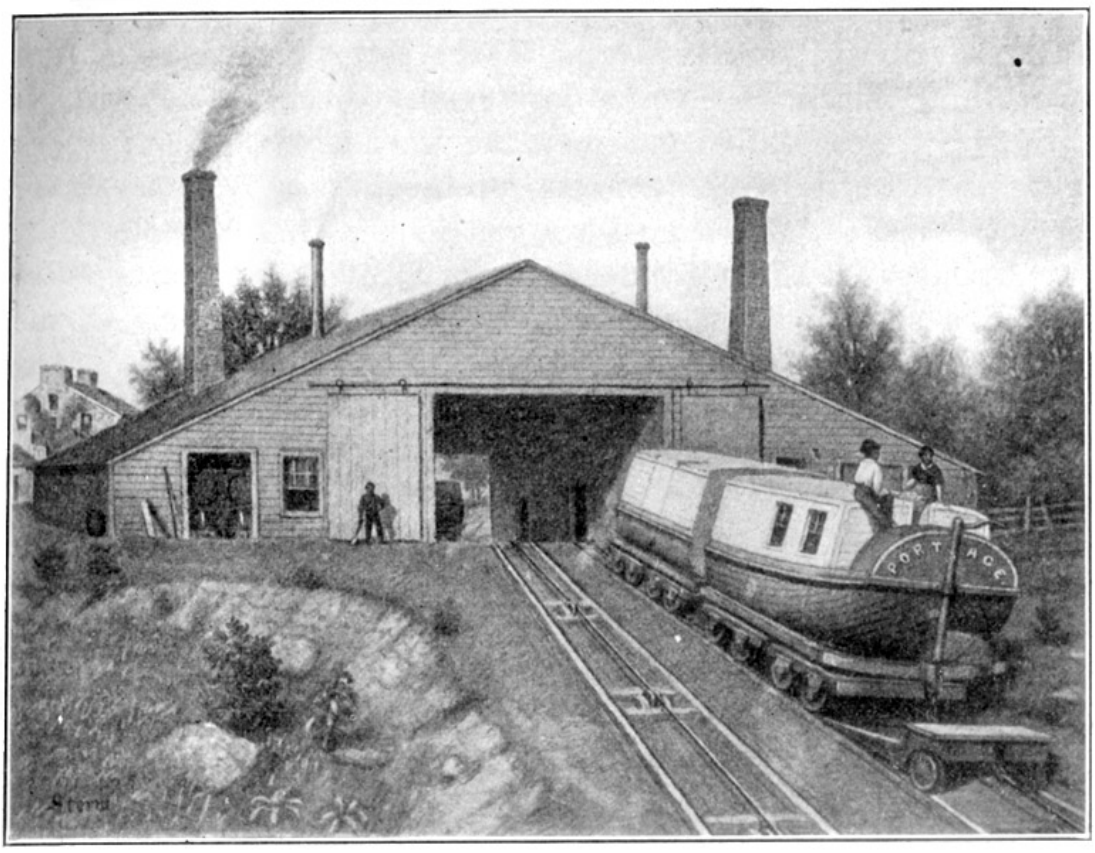
Figure 1.
(1a, at left) Generalized map of Pennsylvania showing major topographic terrains (provinces on the map) and (1b, below) shaded relief map of Pennsylvania (modified from Digital Shaded Relief Map of Pennsylvania, Department of Conservation and Natural Resources, Map 65, Tabloid Edition).

Eagle Mountain. In the eastern part of the Commonwealth, the Ridge and Valley is further subdivided into the Anthracite Valley section, the Susquehanna Lowlands section, the Anthracite Upland section, and the Blue Mountains section, following the nomenclature suggested by the PA Geological Survey in their Physiographic Provinces Map (Map 13). The grain of Pennsylvania's landscapes follows a general southeast to northwest trend and is related largely to the nature of the underlying structure of the bedrock, as the author will discuss during his presentation.

Pennsylvania is, of course, not isolated in its physical geography from adjacent States. The relative flat land of the Coastal Plain extends northeastward, as a well-marked region, into Delaware and New Jersey - and to the southwest into Maryland, Virginia, North Carolina, and further south along the southern coast of the United States all the way to eastern Texas. The Piedmont terrain also extends into States to the northeast and the southwest.

The highlands of South Mountain in southern Pennsylvania are part of the Blue Ridge Mountains and can be traced through northern Maryland and Virginia. The Reading Prong portion of this terrain extends to the northeast into New Jersey as the New Jersey Highlands, into New York State as the Hudson Highlands, and on into New England. The Ridge and Valley terrain extends to the southwest across the panhandle of Maryland and into Virginia and West Virginia. The Appalachian Plateau extends into New York State where it seems to truncate against the constricted segment of the Ridge and Valley terrain. To the south and west the Appalachian Plateau extends into Ohio, West Virginia, and beyond.

The lay of the land and its underlying bedrock and surficial geology have affected the course of human events as well as the distribution of zoology and botany. For example, the earliest major settlements of the American colonies tended to be established near the break in topography near the border of the Coastal Plain terrain and the Piedmont known as the Fall Line. Streams crossing the Fall Line, not uncommonly, result in waterfalls and there was an opportunity for hydropower for mills. Transportation of goods to the west during the age of westward expansion was hampered by the steep escarpment of the Allegheny Mountains eastern front since early settlement. During the age of canal transportation (1826 to 1857) , boats on rivers and canals could go only as far west as the Allegheny Front. One solution to navigating this abrupt change in topography was the Allegheny Portage Railroad (Figure 2), which installed rail on numerous inclined planes to carry the canal boats up the Front. Once atop the Appalachian Plateau, the boats continued by rail to Johnstown where they once again navigated on canals, taking one as far as Pittsburgh and its major rivers. Since those days, rail accomplishes the rise in elevation of the front by navigating the 'Horseshoe Curve' near Altoona. These days goods being transported from west to east are perhaps equally as important as goods moving west.



Head of Plane No. 6. Old Portage Railroad.
Geo. W. Storm, Artist.

Figure 2. Looking up grade on inclined Plane Number Six showing a sectional canal boat almost at the top of the Allegheny Portage Railroad; drawing by George W. Storm (1830-1913). From http://www.jaha.org/edu/flood/why/img/canal_gallery/pages/allegheny_portage_rr_plane_.html
This work is in the public domain in its country of origin and other countries and areas where the copyright term is the author's life plus 100 years or fewer.

The landscapes of Pennsylvania can be directly correlated to the underlying bedrock of the State. During the peak of Appalachian mountain-building, elevations may have reached the height of the present-day Rocky Mountains, some 14,000 feet above sea level. Currently the highest elevation in the Pennsylvania Appalachians (3,213 feet) occurs at Mt. Davis near the Maryland state line. The bedrock geological history of the State is complex. Bob's presentation will review the distribution of bedrock geology and its geological history including plate tectonic history, as well as cover erosional modification of the land, mostly by running water since the creation of the Earth's hydrosphere, and also by relatively recent glaciation during the Pleistocene Epoch's last ice age (~10,000 years ago).

Bob will offer a field trip on Friday, October 23rd, including the Seven Mountains area of Rothrock State Forest, that is intended to complement the content of the upcoming talk described in this abstract. See page 1 for more on the field trip.

References cited

U.S. Geological Survey, compiler, 1999, Digital shaded-relief map of Pennsylvania: Pennsylvania Geological Survey, 4th series, Map 65, scale 1:500,000. [Available online.]

Geo-Sudoku

by David Glick

The puzzle below contains the letters ACEHIMOPT. I couldn't find a good word in this issue, so I went to the list of minerals and started with O for October. It's a clinopyroxene. Each block of 9 squares, each row, & each column must contain each of the nine letters exactly once. The solution is on page 8.

	P	A			H			M
				A		P		H
		M		T	C		E	
P		E	H			I	A	C
H		T		I	E			
		O				T		E
				H	O		C	
		H			P	E	O	I
	O			M				T

FRIENDS OF MINERALOGY - Pennsylvania Chapter and West Chester University Earth and Space Sciences Dept.

SYMPOSIUM November 14, 2026 FIELD TRIP Nov. 15

West Chester, Pennsylvania

Attend ONLINE -OR- IN PERSON Online registration closes November 12

SYMPOSIUM for mineral collecting enthusiasts - tentative plans include:

Saturday Nov. 14: Hybrid Symposium - ONLINE or **IN PERSON**

8:00 a.m. to 5:00 p.m. at West Chester University

Talks by knowledgeable **SPEAKERS** on **Pennsylvania Mineralogy and Geology and more:**

Geology and mineralogy of the Perkiomen mine, Montgomery Cty., PA - Bill Stephens, PG, Stephens Environmental

History of Mineral Classification - Dr. Peter Heaney, Penn State

Critical Minerals in Pennsylvania Iron Furnace Slag - Dr. Maureen Feineman, Penn State

New Data on Mineralization at Herkimer - David Tibbits, Rutgers

Macroscale Optical Mineralogy: Another Way to Appreciate Mineral Symmetry - Dr. Kyle Trostle, Snellius Minerals

Understanding micro chemical environments in highly evolved pegmatites - Kaleb Hecksher, West Chester

Silent Auction - Give-away Table - Conversation

Professional Geologists: 6 Professional Development Hour credits available for full lecture attendance

FIELD TRIP Sunday Nov. 15 to Perkiomen Mine. Open only to symposium registrants.

Watch for details, registration form, changes and **UPDATES** on our **NEW web site:**

www.FM-PA.org (coming soon) or **Friends of Mineralogy Pennsylvania** on Facebook

Lunch on the Field Trip

Ellery Borow, AFMS Safety Chair
from AFMS Newsletter, v 79 no 7, Oct. 2026

Rock hounds run on food. Refreshments at club meetings, concessions at a club show, barbecue at a club picnic, and lunch during the activity on a collecting field trip are only the tip of the food iceberg that keeps rockhounds going. Indeed, the harder one swings the hammer, the more food calories that are needed to sustain one's field trip abilities.

When food is offered at a club show and for sale to the public, most, if not all, states have regulations as to how to address food packaging, handling, storage and general safety. During field trips and picnics it is more up to the individual. If one were interested in details about food sales to the public please contact your state's health / food safety department and they would gladly point you in the direction of the necessary guidelines in printed publication form or on their state website.

Food safety on field trips is another matter. It is an important matter. One's health and well-being is always an important matter. Having something to eat on a field trip is important for a couple of basic reasons – 1) taking a break to eat something offers a welcome respite to a morning of hard work and 2) the body need sustenance to maintain its good health. Some obtain that sustenance by munching a few energy bars and others like a more comprehensive lunch. So, the question is, how does one maintain good lunch safety? Some thoughts:

Does one keep their lunch in the car/truck/motor home? While a motor home might have a gas powered refrigerator to keep food safe, a motor home is hard to bring on many mine access roads or properties. So what we usually have are cars and trucks that can reach well over one hundred degrees on a sunny day. And not get much cooler at night in some places. So, what to do? First, remember, even refrigerated food can spoil. I can attest to that by the occasional "lab experiment" in a forlorn and forgotten plastic container tucked in the back of the refrigerator. Keeping food cool only buys some time in keeping it fresh and safe. Please use good judgement there. One common solution to keeping food cool is to use frozen cool blocks or plastic bags containing ice cubes in the bottom of a cooler or ice chest. And then storing the food on the blocks or ice in the closed chest. The cooler can be stored in a shady spot outside the hot vehicle, but please be mindful of attracting the unwanted attention of hungry animals. I'm thinking of a certain Yogi and BooBoo bear at Jellystone National Park who were often seeking out the unattended picnic basket.

There are foods which can remain fresh if not kept on ice. Foods, such as peanut butter and jam sandwiches, can tolerate a bit of heat but not for long. The trick with such food safety is in its packaging. A secure plastic wrap or bag can keep things fresher and clean. Speaking of clean, one can keep water with a dash of soap in a spray bottle to wash hands with paper towel to dry them. There are also numerous prepackaged hand wipe options from which to choose for hand cleanliness.

Carrying a lunch in one's pocket is certainly an option, but please consider the use of a small cooler or lunch box as a practical alternative. These styles of container can both protect food and help keep it cool. They are also convenient to carry and organize their contents of food and cutlery. A lunch box or cooler may have enough capacity to carry extra food. Extra food may be useful from time to time, and may also help make a new friend.

Have you considered soups as field trip food? A number of soups are delectable when consumed cold. Vacuum insulated containers can keep beverages either hot or cold for extended periods of time on a field trip. A recommendation is to use the stainless steel vacuum style containers instead of the glass bottle style as the stainless steel ones are more durable in the rough life of field trip food.

While speaking of liquid foods, please ensure bringing a sufficient quantity of water for every person in your immediate group, and a little extra if you are able. One small bottle of water or can of fizzy drink just will not do. Even a gallon of water on a long day of collecting may not be enough. The watch word is to bring plenty — more that you think you may need — and that goes for food as well. It is unwise to be so tired and hungry that one does not well coordinate the hammer strike with the head of the chisel.

Food safety is a thing deserving attention. The above guidelines are just the beginning of a very long conversation that could be had about the many and varied means combining food and field trips. The one certainty is that everyone's ears pick up when "Lunch" is announced, so please be prepared.

Your safety matters. Always. Happy and safe dining and digging.

❄

UPCOMING EVENTS

Confirm details of events before attending.
https://efmls.org/events/
See other show calendar links on our web site.

Oct 16-18, 2026: EFMLS Convention & Kanawha Rock & Gem Club annual show, Charleston, West Virginia. Show is 17th & 18th; see information at https://www.kanawharockandgemclub.org/2026-annual-show.html Convention information at https://efmls.org/annual-convention/

Oct 31, 2026: Ultraviolation fluorescent mineral show and sale. First United Methodist Church,. 840 Trenton Rd, Fairless Hills, PA 19030. Sat only, 9:00 - 4:00. https://www.facebook.com/ultraviolation/

Oct. 31, 2026: Annual Rock Swap & Sale, by Franklin County Rock & Mineral Club. South Mountain Fairgrounds, West of Arendtsville, PA on PA Route 234. For GPS: use address 615 Narrows Road, Biglerville, PA 17307. Saturday only, 8:00 a.m. to 3:00 p.m. See Franklin-County-Rock-and-Mineral-Club on Facebook

Nov 7 - 8, 2026: 57th Annual Gemarama, by Tuscarora Lapidary Society. Greater Philadelphia EXPO Center, 100 Station Ave., Oaks, PA Sat. 10-6, Sun. 10-5; www.lapidary.org

Nov. 14-15, 2026: Annual Fall Symposium & Field Trip, by Friends of Mineralogy - Pennsylvania Chapter. West Chester, PA. See page 6.

Geo-Sudoku Solution

T	P	A	**O**	E	H	C	I	M
O	E	C	**M**	A	I	P	T	H
I	H	M	**P**	T	C	A	E	C
P	M	E	**H**	O	T	I	A	C
H	C	T	**A**	I	E	O	M	P
A	I	O	**C**	P	M	T	H	E
E	T	P	**I**	H	C	M	C	A
M	A	H	**T**	C	P	E	O	I
C	O	I	**E**	M	A	H	P	T

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 $25 (regular member), $10 (student rate), $18 (seniors), $35 (family of two or more members, names listed) for the membership year Nov. 1 - Oct. 31. 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 and form to the next meeting. **We want to welcome you!**

CONTACT INFORMATION

Come to our meetings on the third Wednesday of the month - see page 1

mailing address:
Nittany Mineralogical Society, Inc.
c/o S. Bingham, Treasurer
145 Goddard Cir.
Penna. Furnace PA 16865

SOCIETY OFFICERS

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Dr. Barry Scheetz (Secretary) 814-360-8241 (cell)
e-mail: se6@psu.edu
Stuart Bingham (Treasurer)
e-mail: sebing145@comcast.net

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814-867-6263 (h) e-mail: aas132@psu.edu
Membership Chair: David Glick (see above)
Programs: Dr. Duff Gold -note new home number-
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e-mail: dpgold33@comcast.net, gold@ems.psu.edu
Door Prizes: Dr. Bob Altamura (see above)
Facebook: John Dziak: dziakj1@gmail.com
Publicity:

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
425 Armagast Rd. phone: 814-810-2116 (h)
Bellefonte, PA 16823-9762

Newsletter submissions are appreciated by the first Wednesday of the month. Photographs or graphics are encouraged; please send them as separate graphics files (high quality JPEG files, about 1050 pixels wide, are preferred). Please provide captions and name of photographer or artist.

Visit us at www.nittanymineral.org