

Nittany Mineralogical Society Bulletin

Nittany Mineralogical Society, Inc.

P.O. Box 10664

State College PA 16805

Editor (see page 8):

David C. Glick

September, 2014

Visit our web site: www.nittanymineral.org

September 17th meeting:

Show and Tell

by

the members and guests

Our September meeting will be held Wednesday the 17th in room 114 (large auditorium) of Earth & Engineering Sciences Building on the west side of the Penn State campus in State College, PA. Maps are available on our web site.

6:30 to 7:30 p.m.: Social hour, refreshments in the lobby
7:30 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!

The program topic for September will be **Show and Tell**, presented by anyone and everyone who would like to "show and tell" for 5 or 10 minutes or so. This is a great chance to bring in new specimens, lapidary work, books, photos, equipment, projects in progress, interesting contrasts and comparisons, **anything you like** which represents some area of interest in our hobby or science, and share it with others. You can speak about it as informally or formally as you'd like. Stories on their own are fine, too. You can connect with other members who have similar interests, or awaken an interest or spark an idea in someone else. We've had many fun and interesting presentations in the past, and look forward to more this time around.

-Editor

ATTENDING THE SEPTEMBER MEETING?

Donations of labeled **door prize specimens** are invited.

Your donated snacks and drinks will be welcomed.

Bring a friend!

NOTICE

Please see page 2 for:

- Annual Meeting and Elections October 15
- Volunteers Needed
- Dues are Due

October 15:
Charles R. Knight-
Art and Geology

This media file is in the public domain in the United States. (1897)



NMS
October
Meeting

by
David Glick,
NMS
President



The October 15th meeting will be an event of wide-ranging interest; Dr. Charles E. Miller, Jr., will speak on **Charles R. Knight - Art and Geology**. Knight (1874 - 1953) was the artist responsible for widely seen paintings of dinosaurs, extinct mammals and more, which illustrated museum displays and books through the 20th century; see page 4 for more examples. An exciting feature of the program is that Knight's granddaughter, **Rhoda Knight Kalt**, will be visiting us and giving the introduction. It will also be National Fossil Day and Earth Science Week, through which we expect to take advantage of some extra publicity. The meeting is free and open to all (parents/guardians must provide supervision of minors), so please invite any friends who might be interested! With two speakers and a brief Annual Meeting and elections (see p. 2), we'll have a very full schedule, so we'll start a little early. **Please arrive by 7:00 p.m.** if possible, to attend a special tribute.

UPCOMING PROGRAMS

NOVEMBER

The November 19th meeting will feature Penn State Geosciences Research Associate Don Voigt speaking on his experiences conducting research in **Antarctica**.

DECEMBER

December is expected to be a holiday dinner as usual.

NEXT YEAR

Please contact Program Chair Duff Gold (see p. 8) or the president if you might be able to present a program on minerals, lapidary, jewelry, geology, etc., in 2015. *

Annual Meeting and Elections in October: Report of the Nominating Committee

by David Glick, NMS President

Notice is hereby given that the October 15th meeting will be the **Annual Meeting of the Corporation**, and will include election of officers. We will keep the business meeting very short in order to accommodate our special program on Charles R. Knight.

In accordance with our bylaws, the Board of Directors, acting as the Nominating Committee, announces the following slate of candidates; no other volunteers or nominations have been received:

President: David Glick

Vice-President: Robert Altamura

Treasurer: Stuart Bingham

Secretary: Ellen Bingham

Any additional nominations or volunteers for the elected positions should be made as soon as possible.

The Board truly needs **additional volunteers** to get involved with running the Society, providing **new energy and fresh thinking**. In many cases it would be useful to have newcomers spend some time on committees and attending Board meetings before stepping into elected office. **All members: please consider volunteering!** We could use help in organizing door prizes, refreshments, publicity, the Bulletin, and more. Members are invited to attend Board meetings (generally held on the first Wednesday of the month at 7:30 p.m. - check with the President), to see how we operate.

Dues are Due!

by David Glick, NMS President

Our membership year ends in just six weeks, so it's time to pay dues. For current members, a form is enclosed; the form and payment can be mailed in or brought to our September meeting. Your **prompt payment helps a lot** in reducing work for our volunteer staff. The rate remains at \$20 for an individual member, with other options available. Forms may also be downloaded from our web site.

The dues form includes a line for "don't send a printed Bulletin." If you read the Bulletin on the web site anyway, you can help reduce our printing and mailing expenses by checking this line. You can go back to the printed version, or request individual printed issues, at any time.

Jeanne L. Dague, 1948 - 2014

It is with deep sadness that we relay news of the death of long-time NMS member, volunteer and supporter Jeanne Dague, wife of Joe Dague. The obituary at www.obitsforlife.com reports that she died at UPMC Presbyterian Hospital, Pittsburgh, PA on August 20, 2014, following a prolonged illness. She had retired from her job at Valley Quarries in 2013, and was 66 years old.

Joe and Jeanne have been heavily involved in NMS activities from its founding in 1994, despite living outside the State College area. Perhaps their most lasting contribution was their important role in setting the concept for and organizing our early Minerals Junior Education Days, which have continued as a very successful annual event to the present time. They helped present our Pennsylvania Mineral Symposia, have contributed high-quality specimens for auction, sale and special door prizes, and have supported NMS activities in many other ways.

The obituary reports that in addition to mineral collecting activities, Jeanne enjoyed miniature quilting and classical music. She is survived by husband Joe and two nieces, daughters of her late brother. NMS extends its deepest sympathy to Joe and the family. In lieu of flowers, contributions may be made in her name to the Chambersburg Hospital, 112 North Seventh St., Chambersburg, PA 17201.

- Editor

Library Film Series at Penn State

Each semester, the Fletcher L. Byrom Earth & Mineral Sciences Library hosts a film series, most Wednesdays at 12:15 p.m. The films are shown in room 16 on the ground floor of Deike Building, near the EMS Museum and one floor below the library itself. Topics include geosciences, geography, materials, oceans, the environment, and more. The next film, on September 17th, is *Stuff: A Horizon Guide to Materials*, described as "How the discovery and invention of helium-3, superplastic metals, amongst others, is changing the shape of the "stuff" around us." See the library web site <www.libraries.psu.edu/psul/emsl.html> and follow the "EMSL Film Series" link in the left sidebar.



Cabochon example of Botswana agate fashioned into a pendant necklace. Height of pendant is approximately 1.5 inches.

R. Altamura photo

families and as a fund-raising event for the PTO. The Harvest Festival web site indicates that more information about the event will be posted soon: <<http://www.scasd.org/domain/397>>.

NMS members Bob Altamura and Stuart Bingham will again offer an educational booth on lapidary, the craft of shaping and polishing gems, for this event. On display will be lapidary materials ranging from rough rocks, rock slabs, cabochons (carved & polished geometric and free-form shapes), tumbled polished gemstones, and finished handcrafted jewelry. Gem materials that will be displayed will include: agates, jasper of a variety of colors and textures including red and picture jasper, lapis lazuli, malachite, and tiger's eye. Some Pennsylvania collected gem materials (oolitic chert, banded black chert, and metarhyolite) will also be exhibited. Lapidary equipment used for carving and polishing including rock saws, grinding wheels, and tumblers will be exhibited. Live demonstrations of gemstone carving & polishing and tumbling are planned for the presentation.

A tumble-polished sample of Pennsylvania green meta-rhyolite from near South Mountain (Adams County) or a sample of silicified rock (jasper) will be given to visitors as an NMS/Festival souvenir.

There is a fair amount of work associated with offering such an educational booth and there is an opening for an NMS volunteer to participate. If you have an interest in pitching in and perhaps learning a bit of lapidary, please get in touch with Bob or Stuart.

NMS Members to Showcase Lapidary at October 5 Harvest Festival, Houserville Elementary School

by Dr. Bob Altamura

The Houserville-Lemont Parent Teachers Organization (PTO) will be holding its annual Harvest Festival at the Houserville Elementary School on Scholl Street in Houserville (on the east side of State College) on October 5th from 4:30-7:00 p.m. The event will have carnival games, crafts exhibits, and food. The purpose of the festival is to build community among students and their

NEWS FROM THE FEDERATIONS

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 August-September issue begins with news that enrollment for the **Wildacres Fall session**, which was alarmingly low in late spring, picked up very well after the calls for more registrants, and the final enrollment was quite high. The 2015 spring and fall dates and class schedules will be announced no later than January; your enrollment is requested! President Hazel Remaley writes about her visit to the AFMS convention in July in Oklahoma, notable for hot weather, a great variety of regional lapidary material, and more than 30 competitive exhibit cases. The 2015 Convention will be held with the Catawba Gem & Mineral Club's 45th annual show in Hickory, North Carolina, March 27-29.

The **AFMS Newsletter** is available by the same methods. The September issue begins with the Recognition Award going to Pat LaRue, who has been AFMS Treasurer since 2005 and has had to accomplish much beyond the usual record-keeping. President Richard Jaeger writes about communication, and conservation & legislation topics. Many Club Rockhounds of the Year are announced, as well as Editor's Hall of Fame for the Rocky Mountain Federation; former NMS member Bob Carnein is included in both! (see p. 4). Website contest, bulletin editor's contest, All-American Club, and competitive exhibit results are presented. The Conservation & Legislation column covers the seemingly very restrictive regulations for Bureau of Reclamation Lands. Precautions for using oxalic acid are covered in the safety column. The Junior Activities column reflects on ten years of the Badge Program; after-school clubs are also addressed.

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

- *Editor*

**Former NMS Member
Dr. C.R. (Bob) Carnein
Honored in Colorado**

from AFMS Newsletter 67:5, September 2014

"The Lake George Gem & Mineral Club has selected **Bob Carnein** to be our 2014 AFMS Rockhound of the Year. At the present time, Bob is helping start a Pebble Pups club in Canyon City. With Bob's literary help, many of the Pebble Pups' written works have been published locally and internationally. Bob is a retired professor of geology and helps Steven Veatch, an active professor of geology, plan field trips and the learning curriculum for each club during the academic year. Bob spends time photographing, identifying and cataloging collections at the Cripple Creek District Museum with the goal of having the collections available online. Bob serves as a science fair judge for the Lake George Charter School. Bob is a true blessing to the hobbyists of both clubs."

And in the same AFMS Newsletter, Bob is also listed as one of six inductees in the AFMS Editor's Hall of Fame for the Rocky Mountain Federation! Congratulations, Bob!

- *Editor*

**A Preview of our
October Program,
Charles R. Knight -
Art and Geology**

Please plan to attend, and invite your friends to attend as well, our October 15th program by geologist Dr. Charles E. Miller, Jr. Charles R. Knight's art, seen in museum displays and books through much of the 20th century, will be the topic. Note the variety of subjects and the style in the examples shown here. NMS extends its thanks to Rhoda Knight Kalt for permission to use these images.





Pennsylvania's Mineral Heritage Symposium November 1-2

Friends of Mineralogy - Pennsylvania Chapter will hold their annual symposium at Franklin & Marshall College in Lancaster, Pa., on Saturday November 1, with a field trip for symposium registrants only on November 2.

This year's theme is Pennsylvania's Mineral Heritage, with speakers scheduled to include Bill Stephens, Robert Kulp, Steve Shank, and Ron Sloto. There will also be invited mineral dealers; a give-away table; silent auctions of specimens, books, tools, and more; and plenty of opportunities for fellowship with other avid collectors. Professional geologists can receive professional development hours for lecture attendance. See the web site for updates and a registration form: <http://www.rasloto.com/FM/>

- Editor

25th Ultraviolation Fluorescent Minerals Show

from EFMLS calendar,
<http://www.amfed.org/efmls/calendar.htm>

Saturday October 25: Fairless Hills, PA
If Your Rocks Don't Glow You're at the Wrong Show
SHOW – SWAP – SELL

Presented by The Rock and Mineral Club of Lower Bucks County. Saturday October 25, 2014, 9:00 AM to 4:00 PM - First United Methodist Church, 840 Trenton Road, Fairless Hills, PA. \$2 donation - Kids 12 & under free. Food and Beverages available Raffles & other exciting give-a-ways.

ULTRAVIOLATION is the ultimate show for the fluorescent mineral enthusiast, whether a novice or serious collector. The show features many of the world's premier fluorescent mineral dealers who strive each year to bring the biggest, brightest and best fluorescent minerals to satisfy the insatiable cravings of the fluorescent collector. ULTRAVIOLATION highlights fluorescent minerals exclusively and is the next best thing to night collecting. You will not find a bigger or better fluorescent mineral show anywhere in the country. Alternating periods of darkness and room light provides the perfect environment to experience these beautiful and colorful minerals. Free admission and a fluorescent mineral specimen for each junior mineralogist 12 years and younger when accompanied by an adult.

Report on Geology and Mineral Resources of the Middleburg Quadrangle, Snyder and Union Counties, Released

by Rose-Anna Behr
Pennsylvania Geological Survey
from Pennsylvania Geology 44:2, Spring 2014

This summer, the Pennsylvania Geological Survey released Atlas 135d, *Geology and Mineral Resources of the Middleburg Quadrangle, Snyder and Union Counties, Pennsylvania*, by Rose-Anna Behr. The project was proposed in 2010, guided by the recommendations of the Survey's Geologic Mapping Advisory Committee, which suggested mapping in Union County with a focus on Marcellus Formation outcrops. The Middleburg quadrangle was selected on these criteria. Additionally, for half of the neighboring quadrangles, mapping is complete or in progress.

Geo-Sudoku

by David Glick

This puzzle contains the letters EHILORSTY, and one row or column spells the category of rocks which, after metamorphism, will be one of the give-aways at our lapidary demonstration. 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.

Readers' suggestions for pertinent words with nine different letters for use in these puzzles would be very welcome! Contact the Editor (see p. 8).

O	T	S	I				L	R
	L		E					
	I		S					Y
S	Y		H				R	O
	O	I	T				E	
			O	R			S	
R		Y	E		L		T	
T			H	I				
H	E				T			

Earth Science Week

From their web site

Since October 1998, the American Geosciences Institute has organized this national and international event to help the public gain a better understanding and appreciation for the Earth Sciences and to encourage stewardship of the Earth. This year's Earth Science Week will be held from October 12-18 and will celebrate the theme "Earth's Connected Systems."

The following web site contains links to see the many ways that everyone can participate in Earth Science Week! <http://www.earthsciweek.org/about-esw>

Geoscience for Everyone Day: We Want You

From

Earth Science Week web site

www.earthsciweek.org/newsletter/2014/september

Join the Earth Science Week team in encouraging everyone - including women, minorities, and people with a range of abilities - to explore geoscience careers on "Geoscience for Everyone Day," Thursday, October 16, 2014.

If you're an educator, invite a geoscientist to speak in your classroom. If you're a geoscientist, visit a school or volunteer at a science center. Organize a scout event, lead a field trip, or hold a special "Take Your Child to Work Day." You can make a real difference during Earth Science Week 2014 by opening a young person's eyes to the world of Earth science.

Doing so, you'll be supporting the efforts of AGI Member Societies such as the Association for Women Geoscientists and the National Association of Black Geoscientists in raising awareness of the remarkable opportunities available to all young people in the Earth sciences. To learn more about Geoscience for Everyone Day, go to
<http://www.earthsciweek.org/geoscience-everyone-day>.

Are you a geoscientist who's not sure where to start? See "Visiting Geoscientists: An Outreach Guide for Geoscience Professionals," a handbook co-produced by AGI and the American Association of Petroleum Geologists' Youth Education Activities Committee. Professional geoscientists can provide unique enrichment opportunities, based on their education, experience, and firsthand knowledge of the workplace. To download the handbook, see
<http://www.agiweb.org/education/aapg/index.html>.

National Fossil Day™ Overview

The National Park Service and the American Geosciences Institute are partnering to host the fifth annual National Fossil Day on October 15, 2014 during Earth Science Week. National Fossil Day is a celebration organized to promote public awareness and stewardship of fossils, as well as to foster a greater appreciation of their scientific and educational value.

Fossils discovered on the nation's public lands preserve ancient life from all major eras of Earth's history, and from every major group of animal or plant. In the national parks, for example, fossils range from primitive algae found high in the mountains of Glacier National Park, Montana, to the remains of ice-age animals found in caves at Grand Canyon National Park, Arizona.. See <http://nature.nps.gov/geology/nationalfossilday>

Classifieds

Ads may be submitted to the Editor (see p. 8)

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

FOR SALE: 2 Homemade Lapidary saws for sale - 14" and 18". Both come with working motors, arbor, belt, pulley, rock clamp/carriage, and a blade. Both are mucked-out and ready to move. Both could use a little TLC. For more info contact Mike Zelazny at fabricatefilm@yahoo.com

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!

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.

Sept. 13-14, 2014: Gem, Mineral & Jewelry Show by Central Pa. Rock & Mineral Club, at Zembo Shrine Center, 3rd & Division Streets, Harrisburg, PA. Sat. 10-6, Sun. 10-5. <http://www.rockandmineral.org/annual%20show.htm>

Sept. 19-20, 2014: Mineral and Fossil Yard Sale by Tom Smith, 10 Roger Avenue, Shippensburg PA 17257. 2.1 miles north from center of Shippensburg; take N. Earl Street extended on Rt 696, turn right at Roger Avenue sign across from Middle Springs Motors sign; second house on left after intersection. 100 flats of specimens Fri. & Sat. 8-2 or by appt.. 717-552-6554 or tsmith1012@comcast.net

Sept. 27-28, 2014: 58th Annual Franklin-Sterling Hill Mineral, Gem, and Jewelry Show, by Franklin - Ogdensburg Mineralogical Society & Franklin Mineral Museum. Franklin Borough School, 50 Washington Avenue, Franklin, NJ. 9 a.m. - 6 p.m. (indoors); 7:30 a.m. – 6 p.m. (outdoor swap and sell). Also Garage Sale at Sterling Hill Mining Museum, Christiansen Pavilion, Sat & Sun 10 a.m. - 3 p.m. - See more at: <http://sterlinghillminingmuseum.org/visitor/schedule.php#events>

October 4, 2014: Fall Mineralfest - Mineral Fossil and Gem Show sponsored by the Pennsylvania Earth Sciences Ass'n. Macungie Memorial Park, Macungie, PA 8:30 -3:00. <http://www.mineralfest.com/>

October 25, 2014: South Penn Fall Swap & Sale by Central Penn and Franklin County Rock & Mineral Clubs, at South Mountain Fairgrounds, 1.5 miles west of Arendtsville, PA on route 234 (Address for GPS: 615 Narrows Rd, Biglerville, PA 17307). Adults \$1.00; Children free. 8:00 to 3:00. \$10 to set up, first come basis to set up. Located in covered pavilion. Food stand. Contact Tom Smith: tsmith1012@comcast.net

October 25, 2014: 25th Ultraviolation - Fluorescent-only Mineral Show / Swap / Sell, by Rock & Mineral Club of Lower Bucks County, at First United Methodist Church, 840 Trenton Rd., Fairless Hills PA 19030. Sat. only, 9-4. See p. 6. www.mineralevents.com/flyers/2014ultraviolation.pdf

November 1-2, 2014: Friends of Mineralogy - PA Chapter Symposium (Nov. 1, Lancaster, PA) and Field Trip (Nov. 2). See p. 6. <http://www.rasloto.com/FM/>

November 1-2, 2014: Gemarama, Rhapsody in Blue, by Tuscarora Lapidary Society. The School at Church Farm, Exton, PA . Sat 10-6, Sun. 10-5. <http://www.lapidary.org/GEMARAMA/Gemarama.html>

November 22 - 23, 2014: 23rd Annual Gem, Mineral & Fossil Show, by Northern Virginia Mineral Club & GMU Dept of Atmospheric, Oceanic & Earth Sciences, at The HUB Ballroom, George Mason Univ., Route 123 & Braddock Rd, Fairfax VA. Sat 10-6, Sun 10-4. www.novamineralclub.org

March 27-29, 2015: EFMLS Convention and Show, Hickory, North Carolina.

Geo-Sudoku Solution

O	T	S	I	Y	H	E	L	R
Y	L	R	E	T	O	S	I	H
E	I	H	S	L	R	O	T	Y
S	Y	E	H	I	L	T	R	O
R	O	I	T	S	Y	H	E	L
L	H	T	O	R	E	Y	S	I
I	R	O	Y	E	S	L	H	T
T	S	Y	L	H	I	R	O	E
H	E	L	R	O	T	I	Y	S

SOCIETY OFFICERS

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Ellen Bingham (Secretary and Acting Treasurer)
e-mail: emb22@psu.edu
John Passaneau (Treasurer, on leave)

OTHER CONTACTS

Field Trips: Ed Echler 814-222-2642
e-mail preferred: eechler@comcast.net
Junior Rockhounds: Dr. Andrew Sicree
814-867-6263 (h) e-mail: sicree@verizon.net
Membership Chair: David Glick (see above)
Programs: Dr. Duff Gold 865-7261(o), 238-3377(h)
e-mail: gold@ems.psu.edu
Door Prizes: *volunteer needed!*
Refreshments: *volunteer needed!*
Facebook: Mike Zelazny e-mail: maz166@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. If you include photographs or graphics, 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.

Visit us at www.nittanymineral.org