



The purpose of the Gem, Lapidary, and Mineral Society of Montgomery County MD, Inc. is “to increase knowledge and popular interest in earth sciences, geology, mineralogy, paleontology, lapidary arts, and related subjects.”

REGULAR MEETINGS

Next Meeting: Monday February 9, 2015 7:30 PM

This will be our member’s auction. Our February meeting is member auction night. All members can auction off specimens; anyone attending can bid and buy.

Is your shelf overcrowded with nice specimens that you like, but just don't have the space for? Have you changed your specialization? Sort through your collection. Monetize those specimens. Find a good home for your special extras. Or buy another member's offering. Better yet--be both a buyer and seller.

Instructions and bid slips are in an attachment that was emailed out, courtesy of program chair VP Dave Tiktinsky who organized this auction.

In short, if you are selling we start setting up at 7PM and sellers should be set up by 7:15. The meeting date is February 9 at the Senior Center.

BOARD OF DIRECTORS MEETING

The Board of Directors will meet 7:30 PM **Monday February 16, 2015** at the home of Andy Muir. Board members are expected to be there. Any member is welcome to attend, but please let Andy know if you plan to attend at amuir21@comcast.net or phone 301-990-1370.

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PRESIDENT’S MESSAGE

Chris Luzier

Well, we are creeping closer and closer to our upcoming March show weekend! We still have plenty of spots to fill up for volunteering and would love to have your help. The sign-up sheets will be at the next meeting for you perusal and John Hancock. Thanks as always for the effort that you put forth to make our largest fundraiser a success! Also at the next meeting, we shall be bringing back the Auction meeting that we did for last June’s meeting. This was a very popular meeting with lots of specimen material for sale from you, our members. It was very successful before, and many members were requesting it be a different month this year, since many people are on vacation in June and missed the meeting. Please fill out your bid slips that were sent out to your e-mail and bring lots of nice specimens to make room for more! There will be no show table for this meeting, but there will be a short business meeting before the auction.

There is also a short item of business that needs to be corrected and stated for the Rockhounder. During the December Christmas party, we had a short business meeting where the group approved the November Board and Regular meeting minutes and a door prize was awarded. This needs to be published to maintain the correct record for the Rockhounder, and now it has...

Speaking of the Rockhouser, we still need a permanent Editor for the journal and really need someone to step in and fill the gap. There are lots of people to train you and assist with the compiling, we just need the volunteer. Thanks again to Jonathan Harris for stepping in on a temporary basis for the Editorship. Wendell has also asked if someone could replace him for photographing the show table and it's participants at the monthly meetings. All you need to do is snap the pictures and upload them to the Editor. It is a simple and very important task for the Rockhouser. Thanks again Wendell for filling this need for all these years...

Peace and thanks again for all your volunteer support—Chris Luzier

GLMSMC REGULAR MEETING MINUTES

January 12, 2015

The January 12, 2015, GLMSMC meeting was called to order by President Chris Luzier at 7:47 pm, with approximately 48 people (38 adults, 8 youth, 2 children) attending. (This might better be deleted here as it should be a part of the FRA notes from Mark Dahlman. Mr. Tom Taaffe, a very knowledgeable and respected mineral dealer was the guest speaker for the FRA group and spoke on fossils.) The December 8th regular meeting was a Christmas party with a very short business meeting. The November Regular and Board meeting minutes were approved.

Society Business items: President Luzier called for all GLMSMC members to sign up and help as volunteers for the upcoming March Annual show. Holly McNeill constructed sign up sheets for members to select volunteer times and activities that work best for them. Student (FRA) members who sign up as volunteers will acquire SSL hours toward fulfilling the MCPS requirement for high school graduation. Many components of the show will need to have volunteer support and some important activities such as the Children's Touch Table and the hospitality section will have to be discontinued if there is insufficient volunteer support. President Luzier repeated his call for a member to step up as the full-time editor of the Rockhouser.



Mini Miners—photo by Wendell Mohr

Field Trip Chairman report: Jonathan Harris announced that thanks to Dr. Lance Kearns, GLMSMC members are invited to visit the Geology Museum and laboratories at James Madison University in Harrisonburg, VA on January 31, 2015 from 9AM until noon. Dr. Kearns will assist with mineral identifications using Raman spectroscopy and powder X-ray diffraction. There will be numerous mineral specimens for sale.

EFMLS Committee report: EFMLS Liaison Wendell Mohr announced that GLMSMC member Elmer Lantz had fallen and broken his hip. Elmer is in the Shady Grove Hospital Rehabilitation center. Members signed get well cards and Wendell Mohr planned to pay a visit to Elmer and deliver our cards.

Annual Show Report: Pat Repik-Byrne announced that sign up forms are available for all members wishing to enter the March 21-22 show as Demonstrators or Exhibitors. We expect and encourage all members to take this opportunity to showcase their geologic treasures and exhibit beautiful and interesting specimens from their personal collections.

Treasurer's Report: Treasurer Holly McNeil announced that the GLMSMC finances as of Year End 2014 had a positive operating income of \$1160.00. Holly announced that she would be collecting the volunteer signup sheets for the upcoming March 2015 show to determine our manpower needs and/or shortages.

Vice President's Announcement: Dave Tiktinsky announced that our February 2015 meeting will be a member-to-member auction and will email the special forms for members to use for each item that they may sell by silent auction.

Presentation: Dr. Cara Santelli, Geologist, Geomicrobiologist, & Curator of the Smithsonian Institution collection of Minerals and Gems discussed her interest and research work in the role of microorganisms in three geological/mineralogical processes:

- 1) Formation of minerals (example: formation of Ferrihydrite by bacteria).
- 2) Alteration/Dissolving of minerals (example: Selective removal of Fe by bacteria or fungi can result in breakage/weakening of the chrysotile asbestos fiber).
- 3) Elemental cycling process (example: bacterial/fungal removal of Fe from fayalite ($\text{Fe}^{2+}_2\text{SiO}_4$) to gain energy, resulting in the formation of olivine ($\text{Mg}^{2+}, \text{Fe}^{2+}$) $_2\text{SiO}_4$).



Dr. Cara Santelli, photo by Wendell Mohr

Dr. Santelli stated that it was difficult to find a “true signature” in nature of a mineral that has been formed purely by a biogeochemical process, but her work has succeeded in demonstrating the precipitation of the manganese oxide mineral birnessite by fungi growing in the laboratory. Dr. Santelli informed us that “passive remediation” makes use of microbes for the low cost, but highly effective removal of iron, manganese, and other metals from potentially toxic mine waste in Pennsylvania. By capturing this mine waste in holding ponds, and raising the alkalinity of the water in these holding ponds with limestone, iron can be easily removed. Manganese removal is more difficult, but her research group has found a surprising range of microbial species—9 fungi, 4 bacteria, & 14 algae (all are eukaryotes)—that are potent oxidizers with the ability to precipitate manganese from the waste water in these settling ponds. High levels of manganese and aluminum have been linked to neurological disorders and it is important to prevent these elements from contaminating ground waters

Show table: A specimen of marcasite on calcite from Mexico was won by Donald Greaves. The general door prize of a stilbite specimen from Jagoan, India, was won by Pat Repik-Byrne.

Adjournment: It was M/S/A to adjourn at 9:50 pm.

David Fryauff

Secretary

GLMSMC BOARD MEETING MINUTES

Jan. 19, 2015.

Board Members present: Doug Baum, Dave Fryauff, Jonathan Harris, Chris Luzier, Holly McNeil, Wendell Mohr, Andy Muir, Pat Repik-Byrne, Joel Rosen, and Dave Tiktinsky. Not present: Andy Celmer & Rod Towers. President Chris Luzier called the meeting to order at 7:32 pm.

EFML business: The 2015 EFMLS conference will be held Mar. 27 – 29, 2015 at Hickory, NC. No GLMS-MC BOD member is (yet) available for this meeting, and a member or members could be solicited to be our representative(s). EFMLS also asks chapters to send in information on members who passed away during 2014.

Upcoming Speaker: Yet to be confirmed. Dr. Jeff Post (Smithsonian Institution) is scheduled to speak in March, 2015.

Rockhounder: Still need permanent editor for this job.

Photographer: We need a new photographer to record all notable events and proceedings at our monthly meetings, auctions and Show. This job requires a digital camera with capacity to download photos to computer and send by email for publication in the Rockhoulder.

Newest Membership Roster. Thus far only BOD members have received the new roster. Doug Baum will send this new roster with the next Rockhoulder to all members with notice to keep this information secured and confidential.

Membership payment issues. There was discussion on offering reduced rate student memberships but no decision or policy change was made.

Mini Miner plans for 2015: Only two or three children aged 5-9 are currently in the Mini Minor program. Future of program was discussed.

Preparations for GLMSMC Gem & Mineral Show 21 & 22 March, 2015:

--Discussed need for signs identifying each vendor at our show and a map showing the location of each vendor & activity in the 1st & 2nd floor fairground facility we use. Andy Muir will address.

--Pat Repik-Byrne reported that she has thus far received applications for 10 exhibitors (2 UV) and 2 demonstrators. She will need someone to stand in for her starting at 2pm on Sunday.

--Mark Dahlman will supervise the Friday setup of all display cases.

--We are again planning for a US Park Service gold exhibit; hopefully bigger than last year.

--Due to his recent injury, Elmer Lantz' outstanding supervision of the cabochon section remains to be seen. Another member may be asked to step up to this position.

--Holly McNeil informed BOD members that she had so far received weak volunteer signup response from members. However, there were more than 10 members already signed up as volunteers to set up all day on Friday, March 20th and to break down on Sunday evening, March 22nd.

--Joel Rosen advised BOD members that he needs to replenish this supply of mineral & lapidary prizes for the 2015-2016 season and the treasurer approved \$650 from our budget to be allotted to him for use in purchasing choice mineral/lapidary specimens from the 21-22March show.

--Wendell Mohr will evaluate current GLMSMC door prize lapidary holdings for potential prize material.

--Joel informed BOD members that Tom Cummins had donated a large polished Moroccan cephalopod fossil to GLMSMC and Chris Luzier advised that Tom may have additional material to donate/sell for use at our show.

--Holly submitted options for supplies for the kids section for the show. The BOD approved a total of \$675 from the Turner funds for that purpose. This was M/S/A.

--Need to contact Jim Kostka/Conrad Smith to determine if they plan to repeat last year's Boy Scout exhibit-project at the March 2015 show. This was very successful. Need to determine if funding will be needed again, the amount needed, and a description of the items to be purchased.

GLMSMC Official 2015 Field Trip: It was M/S/A to make the April 25, 2015 Franklin-Sterling Hill Super Dig our official field trip for 2015.

It was M/S/A to adjourn the meeting at 8:59 PM.

David Fryauff, Secretary

VOLUNTEER WANTED

Wendell Mohr

Wendell Mohr has asked that someone else step forward to take pictures at meetings and GLMSMC events. You don't need to be a professional to take snapshots of Mini Miner's and FRA meetings, speakers and their material on exhibit, door prizes and show table items, show table participants and other pictures of interest to the membership.

You don't need a fancy camera. Current tech equipment will do just fine. Simply take pictures (Unless a person requests that you take no photographs of them) and send condensed copies to the Rockhounder editor. If you wish, you could crop, eliminate "red eye", or otherwise edit them. That is up to you.

Wendell needs to retire from this activity he has been doing for many years.

AUDIT REPORT

Thomas C. Parnell

Thanks go to Tom for spending the time to review our financials. His summary is below.

December 14, 2014

To the Board of Directors of the Gem, Lapidary and Mineral Society of Montgomery County

I have reviewed the accounting records of the Gem, Lapidary and Mineral Society of Montgomery County ("the Society") for the year ended December 31, 2013. The review was limited to a testing of the cash receipts and disbursements and how those cash receipts /disbursements were applied to balance sheet, revenue and expense accounts. The review showed some discrepancies that were corrected. I believe the cash balances of the Society, along with other balance sheet, revenue and expense accounts, are accurately stated.

The review of processes, procedures and internal controls of the Society related to cash receipts and disbursements pointed out some weaknesses. Suggested improvements are presented on the following pages along with the Board's response.

Thomas C. Parnell, MBA*

*Formerly employed as a Senior Field Examiner/Auditor for Wachovia Bank.

FUTURE ROCKHOUNDERS OF AMERICA (THE MOCKS)

Ages 10-15

Mark Dahlman

Next Meeting Date: February 9, 2015 **Meeting Time:** 7:45-9:00pm

Meeting Location: Sunroom Cafeteria at the Rockville Senior Center

January 12th Meeting:

Mr. Tom Taaffe was our guest speaker for our January meeting. Mr. Taaffe brought a large collection of fossils that spans over half a billion years! He told us about extinction events, types of fossilization, and the interesting plants and animals that left their mark. He showed us all sorts of specimens including the five-fold symmetry of

starfish and crinoids, a fully 3-dimensional fish fossil, to a cave bear paw, and woolly mammoth hair. Thanks to Mr. Taaffe for a fascinating presentation. We talked about the Lillian Turner awards that will be presented at our club show in March for the finest junior exhibits.



Tom Taaffe's Presentation on Fossils to the FRA Group - Photos by W. Mohr

February 9th Meeting:

We are going to have a very important meeting to do our badge paperwork for Field Trips and Fossils. We're going to talk about putting exhibits in our club show too, so think about what you want to display. There will also be time to see what club members have for sale in the general meeting room. I hope to see you all at the meeting!

For more information on the Future Rockhounds of America program, please contact Mark Dahlman at <fra_advisor@glmsmc.com> or 301-428-0455.

FROM THE SHOWTABLE

Dave Fryauff

GLMS-MC Show Table		
Date: January 12, 2015		
Member's Name	Specimen Descriptions	Locality
Diane Leaman	Azurite	Sonora, Mexico
Gary Leaman	Caswellite & Garnet	Franklin, NJ
Frances Becker	Lazulite	Graves Mtn., GA
Barbara Burr	Blue Quartz	Maryland
Jeff Cessna	Clinohedrite, Hardystonite, etc.	Franklin, NJ
" "	Apatite, Willemite, Calcite	Franklin, NJ
Andy B. Celmer	Agate	Beaver Crk, UT
Patricia E. Cronin	Sandstone	nr. Zion National Park, UT
Andy Muir	Aragonite xls & Sulfur	Sicily, Italy
Wendell Mohr	Selenite sphere	Sefrou Prov., Morocco
Dave Fryauff	Spodumene xls*	Foote Lithium Mine, Kings Mtn., NC
Don Greaves	Chabazite	Gila National Forest, NM
Jonathan Harris	Oolitic limestone*	Cave City, NM
" "	Fluorite (FL green)	Canon City, CO
Steven Calamuci	Manganocalcite & Kutnohorite	South Africa
" "	Quartz, Sphalerite, Calcite, Galena	Bulgaria
Chuck Mason	Blue Holly Agate	Malawi

*Asterisk denotes self-collected or self-made



(Show table prizes and examining show table specimens by Wendell Mohr)



SHOW TABLE PARTICIPANTS
Photos by W. Mohr



FIELD TRIPS

by Jonathan Harris

Saturday January 31, 2015 9am James Madison University Department of Geology and Environmental Science and Mineral Museum, hosted by Professor Lance Kearns..

Professor Kearns is a valued link between hobbyist and professional geologists. How have many of our seasoned collectors identified the rich variety of local minerals? --- Lance Kearns. For those who like machines more than experts, Professor Kearns has indicated that the X-ray diffraction machine and Ramen Spectrometer will be available. There is some chance that the LEDS/SEM lab (Low energy electron diffraction and Scanning Electron Microscope) will be open. And of course the [JMU](#) mineral museum.

*** Please signup by responding to this message. **Prior signup by January 23is required** to give Professor Kearns a correct headcount. Please signup earlier if possible ***

*** Please signup by responding to this email or include "James Madison University" in the subject line. Make tracking signups easier --- please change the subject line when sending me emails on other topics!

Directions below:

Travel Time---about 2 hours and 30 minutes from Rockville, MD

Go West on I-66 to I-81 South.

Get off I-81 at Exit 245.

Turn RIGHT onto Port Republic Road

Proceed to S. Main St. (Rt. 11) and turn right at the light.

Proceed northward on S. Main St. to the 3rd traffic light -
turn left onto Cantrell Ave.

Proceed over the bridge to traffic light on South High St. (Rt. 42).
Memorial Hall (the old Harrisonburg High School) is directly in front of you.

Go straight into the parking lot. The Mineral Museum is around
Grace Street. Entrance "E" to the building.

After entering the building at Entrance "E", make an immediate

Memorial Hall (the old Harrisonburg High

the building to the left (south side) along

right. The museum is at the end of the hall.

WEBSITES OF INTEREST

Contributed by Wendell C. Mohr

The Minerals Education Coalition, The Society for Mining, Metallurgy, and Exploration, Englewood, CO 80112-4167 is for K-12 students and their teachers, but has information useful to all who study minerals. Surf under Minerals and Elements for a Minerals Database, Minerals in your Life, Periodic Table, and Mineral Usage Statistics. Under All About Mining, you will find Items about the Importance of Mining, Environmental Reclamation, Mine Safety, Careers in Mining, and Mining Statistics. Useful and interesting items appear under K-12 Education. Sales items, not endorsed here, are at the MEC Store.

<www.mineralseducationcoalition.org/>



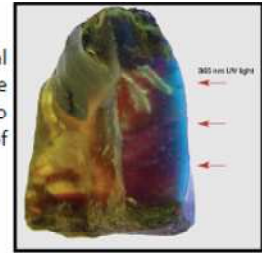


The Paleontological Portal is funded by the National Science Foundation and produced by the University of CA Museum of Paleontology, The Paleontological Society, The Society of Vertebrate Paleontology, and the USGS. You will find topics of Famous Flora and Fauna, A Fossil Gallery, Exploring Time and Space, Careers, Resources, K-12, Collections, Paleontology People (Researchers) and more.

<www.paleoportal.org>

Color Phenomena of Blue Amber is a Gemological Institute of America Inc. site where technical details are given by Authors Yan Liu, Guanghai Shi, and Shen Wang about the surface fluorescence effect in some amber from the Dominican Republic and Indonesia. The amber from this study also showed the Usambara effect, new to me, the phenomenon in which color varies with the path length of light through a sample

<<http://www.gia.edu/gems-gemology/summer-2014-liu-color-phenomena-blue-amber>>



OUR 51ST ANNUAL SHOW

Pat Repick-Byrne

OUR 51ST ANNUAL GEM-LAPIDARY-MINERAL-FOSSIL SHOW will be held on March 21 & 22, 2015 at the Montgomery Co. Fairgrounds, and as in prior years, all club members should be excited and take great pride in participating in this show. As most of you are aware, the GLMSMC Show is the major yearly activity of our club and is completely run by Club volunteers. Everyone needs to pitch in to make it a success. Show times will be the same as last year - the show will run on Saturday the 21st from 10 AM-6 PM and on Sunday the 22nd from 11 AM-5 PM (later start time on Sunday).

Andy Muir, the "Upstairs" Chair, has finalized contracts with 22 dealers (our maximum number). Dealer offerings are always such a hit and provide an opportunity to purchase a wide array of interesting mineral specimens and fossils, gems and hand-crafted jewelry, bookends and other items, purchase and crack-open geodes, etc.

The "Downstairs" Chair (Pat Repick-Byrne) is again overseeing the educational and hands-on activities of the show, which include showcases/exhibits and demonstrations, fluorescent displays, raffle, and activities geared towards kids. So please plan NOW to exhibit, demonstrate, and/or help out at one or more of the various activity stations. We need to have your commitment EARLY. With regard to exhibits, we have space/cases for ~ 50 exhibits. As you may recall from last year, we have 25 "new" cases that were obtained from the GLMSDC club that can be utilized for non-fluorescent exhibits. These "new" cases are in excellent condition, and look very similar to our older "classic" cases, but are slightly smaller, and have a different, built-in secure lock. "New" cases will be locked/unlocked only by the Show Chair/Downstairs Chair (Pat) or by other designated GLMSMC members. Joel Rosen took careful measurements of the new cases after the Show last year. Dimensions of the "New" cases are: 22 7/8" High X 22 5/16" Deep X 46 3/8" Long. These measurements are also listed on the 2015 Exhibit Application form, so there is plenty of time to prepare new liners for those who would like to use one of these cases. Exhibit Application forms contain a checkbox for preference of "New" vs "Classic" cases. "New" cases will be assigned on a first come/first served basis. Exhibit applications are included in this issue of *The Rockhounder* and will be available at the January meeting.

As most of you know, folks attending the show love viewing the showcases to learn about all sorts of things, and revel in the amazing displays. Showcases can highlight specimens you've collected on field trips, or minerals or items of particular interest to you (some examples may be: crystals, specimens having unusual shapes or

properties, fluorescents, various forms of a particular mineral, various stones or minerals from a particular locality, lapidary or other items made from stones/minerals, geology, volcanoes, impact craters, etc. etc.). So please consider putting together an exhibit to share your interests. YOU can do it! If you haven't displayed previously, no problem - everyone is a beginner at some time. If you feel you don't have enough items for an exhibit, mention this at the meeting and perhaps we can pair up people for a shared exhibit. You have 2½ months to plan the exhibit, prepare neat labels, liners, risers, and other case features to highlight your exhibit! Exhibit Application forms will be due to Pat by February 20. Use one form for each case.

As in previous years, we expect to have demonstrations of gem faceting, beading and jewelry-making, micromounts, Calvert Marine Museum displays and fossil identification, gravity, vibrations and crystal growing activities, and more, including the excellent demonstration (Youth Introduction to Earth Sciences Area) by club member Conrad Smith that he presented last year as his Eagle Scout project . And although we haven't had flint-knapping demonstrations in the past 3 or 4 years, we are making every effort to get such a demonstration to the part of the 51st Show. Visitors to the show will have fun and gain a sense of accomplishment by fashioning and polishing a cabochon to keep, and will also be amazed by the eye-popping fluorescent exhibits and fascinating demonstrations in the "UV-Fluorescent Tent". Demonstrations are critical to our Show and, along with the Showcases, are features that set our GLMSMC Show apart from others. Demonstration applications are also included in this issue of *The Rockhounder* and will be available at the January meeting. Demonstrator Application Forms will be due back to Pat by February 20.

And VERY IMPORTANTLY, we NEED VOLUNTEERS to work at the Show, starting with Set-Up on Friday (3/20), ending with Take-Down on Sunday (3/22), and at all activity stations on Saturday and Sunday. Activity stations include Kids Activities (Welcome/Give-Away Area, Touch Table, Mini-Mine, Junior Quiz), Admissions Table, Hospitality, Raffle, and Lapidary Shop (teaching grinding/polishing, as well as doing sign-ups and un-dopping). Holly McNeil is heading the Volunteer sign-ups this year and has made up large sign-up sheets to organize the various volunteer slots/activities. Many thanks to all who already signed up at the December meeting/holiday party. Holly will bring the sign-up sheets to the next two monthly meetings so please sign up ASAP if you haven't already do so. We absolutely need the support of all members to put on the Show.

One Additional Note: Everyone who volunteers at the Show gets a bonus – FREE ADMISSION. Those NOT volunteering/exhibiting/demonstrating must pay the regular admission price. Another incentive to get onto the volunteers list!

Show fliers and posters are available to help publicize the show. If you haven't already done so, pick up your copies at the January meeting as well as extra copies to give to friends, co-workers, family members, etc.

THE LILLIAN TURNER JUNIOR AWARDS

Pat Repik-Byrne

These awards come via the generosity of Lillian Turner, a generous benefactor who was intent on promoting interest in rocks, minerals and lapidary arts to youth of the community. With the ongoing generosity of her surviving son, Stephen Turner and the Turner family, exhibits by juniors are eligible to receive the Lillian Turner Awards which, in addition to ribbons, are monetary awards of \$150, \$125, and \$100, for 1st , 2nd , and 3rd place showcase winners respectively. At the judges' discretion, 4th place awards of \$50 may be presented for 1 or 2 other cases, if also deemed to be outstanding. Honorable Mention ribbons (without monetary award) may be presented to 1 or 2 additional cases at the judges' discretion. We are extremely grateful to the Turner Family for their contributions to our Society and for their continuing efforts to promote and support youth interest in rocks, minerals and lapidary arts.

To be competitive for these awards, you must be age 17 or younger and the display should be your own work. If you have won previously, the case must be substantially different from your previous entry.

Criteria for judging are:

1. Educational component (What do you want people to learn from your exhibit? How effective is your presentation in that regard?)
2. Overall presentation (neatness, creativity, clear labeling and arrangement of specimens; use of background that correlates with the theme or makes specimens stand out)
3. Short paragraph (3-4 sentences) on your reason for exhibiting your particular case or theme, why this is of interest to you. The write-up should be clearly displayed within the case and be easily readable. This is a critical component for all junior cases.
4. Any additional written or graphic information that reinforces knowledge of the specimens or theme of the presentation (for example, a display of igneous rocks might include a picture or drawing of a volcano to reinforce that they are formed by cooling of magma).

The above information will also be provided in a handout given to the MOCKS at the January and February meetings by Mark Dahlman (Advisor for the Future Rockhounds of America program), or can be obtained from the Show Chair (Pat Repik-Byrne) at prb.rocks@verizon.net.

EVENTS OF INTEREST

- **February 14, 2015 (Saturday)** (10 am – 5 pm). The Southern Maryland Rock and Mineral Club's 25th Annual Mineral, Jewelry and Fossil Show. Show Place Arena in Upper Marlboro, Maryland. Admission \$5; Seniors(65+) and students (12-17) \$4; FREE for those under 12 and Scouts in Uniform. For details, directions and an additional \$1 off admission coupon, go to www.SMRMC.org. Questions? Call Michael Patterson at (301) 297-4575.
- **March 21-22 2015** Saturday 10am-6pm, Sunday 11am-5pm. Our own show. Please support our club by signing up to help work at the show.
- **March 29, 2015 (Sunday)** (10 am - 1 pm), Geology at the National Zoo, Leader, Joe Marx. Members \$24, nonmembers \$34. About 480 Million years ago, an arc of oceanic volcanoes merged with the growing continent that would eventually become North America. Within the Zoo grounds metamorphosed sea floor sediments and a large fault zone bear witness to this ancient geologic collision. A hike of about 2 miles will include examination of outcrops. Some parts are rather steep.
- **April 11, 2015** (10 am - 3 pm), Geology of Harpers Ferry, Leader, Joe Marx. Members \$30, nonmembers \$42. Harpers Ferry sits astride the junction of the Potomac and Shenandoah Rivers. In a 5 -6 mile walk along the C & O towpath, upstream from the railroad bridge and back, we will stop to look at local stones incorporated in the canal wall or river rock exposures.
- **June 29 - July 2**, Rockville City Camps, Croyden Creek Nature Center Geology and Exploration 9:00a-12:00p Age: 8-12, 50265.6/29-7/2 \$125/\$145 For Descriptions and Registration: <http://rockvillemd.gov/index.aspx?NID=359>
- **July 6 - July 17** Bullis Summer Program. Geology & Exploration 8:45a-10:45a Age: 9-14 Fee: \$250 Space 1:30p-3:30p Age: 9-14 Fee: \$265 For Descriptions and Registration: <http://www.bullis.org/summer-programs/>
- **July 20 - July 31** Bullis Summer Program. Geology & Exploration 8:45a-10:45a Age: 9-14 Fee: \$250 Space 1:30p-3:30p Age: 9-14 Fee: \$265 For Descriptions and Registration: <http://www.bullis.org/summer-programs/>
- **Audubon Naturalist Society**, New on-line registration for all programs below. Visit www.ANShome.org/adultnatureprograms and click on "Register Online" Questions? Call Pam at [301 652 9188 extension 16](tel:3016529188) or e-mail pamoves@anshome.org

If you are planning a trip and want to know what clubs you might be able to visit, it would be worthwhile to visit the American Federation of Mineralogical Societies website. Check out their newsletter archives at <http://www.amfed.org/news/default.htm>.



BOARD OF DIRECTORS

President – Chris Luzier, 847 Springdale Drive, Millersville, MD 21108-1436, 443-995-5363
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 Junior Advisor–Rod Towers, 19609 Gunners Branch Road, Germantown, MD 20876-2738, 301-972-1264
 Field Trip Chairman – Jonathan Harris, 11932 Goya Drive, Potomac, MD 20854-3313, 301-545- 0808
 Membership Chairman – Doug Baum, 11205 Golden Meadow Ct., Germantown, MD 20876-1740, 301-515-4641
 Show Co-Chairperson – Pat Repik-Byrne, 9 Starlight Court, Potomac, MD 20854-2658, 301-279-5962
 Show Co-Chairperson – Andy Muir, 17949 Hazelcrest Drive, Gaithersburg, MD 20877-3761, 301-990-1370
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