



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 November 10, 2014 7:30 PM

Our speaker this month is Fred Davis who is a researcher at the Smithsonian. Most of Fred's research is laboratory based. He performs high-pressure experiments to study conditions in the Earth's mantle. Fred will be talking to our club about some of his work.

BOARD OF DIRECTORS MEETING

The Board of Directors will meet 7:30 PM **Monday November 17, 2014** 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.

PRESIDENT’S MESSAGE

Chris Luzier

Well, it was a wonderful weekend in the Philadelphia area with the annual Ultraviolet show that was held on Saturday October 25th. This show has been going on for years and has quite the cult following among fluorescent mineral enthusiasts! It is my favorite show to sell at and it was a wonderful event as always. Picture this, an entire church hall is converted to a darkroom where the lights are left on for 15 minutes and then off for 20 or 30 minutes for full Ultraviolet enjoyment!!! It is just awesome and breathtaking to behold. There wasn't a huge amount of Franklin and Sterling Hill material available at this show, but a huge variety of top notch, worldwide fluorescent minerals were to be had. Tugtupites and associated mixes from Greenland, Canadian fluorescent species and FL minerals from just about everywhere else too. This show is just one of those unusual treasures in the mineral show world that is an amazing event to behold. If you missed it this year, it seems to always be the last weekend of October, so put it on your calendar now!

Speaking of shows, our own show extravaganza will be rapidly approaching us, with the impending winter season around the corner. We have flyers already printed and distributed them at the aforementioned show, and will continue to place them at upcoming shows. If you would like flyers to distribute in your local area, just see our Membership Chairman, Doug Baum for a stack of them for your dispersal. In the coming months, we shall also have the sign-up sheets for needed volunteer positions for the show. We'll need plenty of hands as always, to make light work for all and have another excellent show. Now's the time to start planning your display case and theme, so you can share your favorite specimens, and educate your fellow Rockhounds as well. Thanks so very much for all of your support with the show as always.

Chris Luzier-President

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GLMSMC REGULAR MEETING MINUTES

October 11, 2014

Dave Fryauff

The October 11th, 2014, meeting was called to order by President Chris Luzier at 7:45 pm, with approximately 52 (41 adults + 8 youth + 3 children) people attending.

Society Business items: President Luzier addressed items of old and new business. A silent auction of books and lapidary items was held. It was M/S/A to change the bylaws to permit auditing of the GLMSMC financial records by one auditor, rather than two, as the bylaws currently stipulate. It was M/S/A to nominate GLMSMC members to fill the offices of President (Chris Luzier), Vice-president (Dave Tiktinsky), Treasurer (Holly McNeil), & Secretary (Dave Fryauff) for 2015. It was also M/S/A to approve amended versions of the September 8th regular meeting minutes and the September 15th BOD minutes.

Treasurer's Report: Holly McNeil gave the following report: "Last month (Sept.) we had membership payments coming in which brought our net operating income up to \$6,532.22. At the October board meeting we will be talking about what donations we wish to give to various organizations--such as the Smithsonian Institution—that we have supported through the years. Our operating reserves, net of the Lillian Turner designated funds, is \$32,428.86."

EFMLS Committee report: EFMLS Liaison Wendell Mohr announced upcoming events & dates of interest to GLMSMC members.

Field trips: Field trip chairman Jonathan Harris announced that a GLMS-MC collecting trip would be made to Mt. Pleasant Mills, PA on November 1st, 2014.

Visitors: Eric Hensal of Tacoma Park, MD attended the meeting as a visitor.

Presentation: GLMSMC member Jeff Nagy gave an excellent and highly visual presentation of the Mining History of Montgomery County, MD.

Show & Tell: Show table winner of fossil crinoids was Diane Leaman; General door prize winner of a cabinet specimen of Cavansite on Stilbite was Jeff Cessna.

New Members: It was M/S/A to approve three new members: 1) Charles Kirchman, 2) Allison Higgs, and 3) Scott Slavey

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

Dave Fryauff, Secretary

GLMSMC BOARD MEETING MINUTES

Oct. 27, 2014

Dave Fryauff

Board Members present: Chris Luzier, Jonathan Harris, Wendell Mohr, Andy Muir, Pat Repik-Byrne, Holly McNeil, Joel Rosen, Dave Tiktinsky, Dave Fryauff. President Chris Luzier called the Oct. 27, 2014 meeting to order at 7:38 pm.

EFMLS: EFMLS Liaison Wendell Mohr requested a board member to make changes to the bylaws regarding the October meeting vote to reduce the number of auditors to one. Holly volunteered to make the change. GLMSMC officer nominations were made at the October meeting and per club bylaws an official vote for these officers is required to take place in November. There was discussion of member candidates for Rockhouser of the Year, Each-One-Teach-One, and Lifetime Member awards.

Pat Repik-Byrne advised that our website needs a direct link for membership information and there was discussion that Andy Celmer would be taking on the duty of GLMSMC webmaster.

There was a suggestion to remove the requirement of meeting attendance for those who would wish to be voted into GLMSMC membership. As this would be a bylaw change it will be brought up to the full membership for consideration and vote.

Show: Pat Repik-Byrne reported on her research of a possible demonstration of stone carving by a native Inuit stone carver. The call for GLMSMC members to prepare demonstrations and volunteer time for the show will go out in the December 2014 Rockhouser. Additional space, to support additional vendors was discussed. Holly McNeil asked that if we are having a special exhibit like last year from the park service that we explore the possibility of requesting an insurance rider from the National Park's insurance policy rather than having to obtain a special new policy. There was discussion of whether the 2015 show would again feature a special Boy Scout demonstration/workshop as was done in 2014 under Conrad Smith. There was additional discussion of the source of pre-cut cabochons for the upcoming show at a price of \$1.00 each; At that price we would order 350, but the source, and s price need to be confirmed.

Treasurer: The treasurer's report reviewing the current 2014 and proposed 2015 budget inflows, outflows, and expenses was presented by email and hardcopies were provided to each Board member attending. There was discussion and clarification of different expenses. There was discussion of monetary donations from GLMSMC for 2014 and the following amounts and designations were M/S/A: 1) \$2000 to the Smithsonian Institution, 2) \$500 to James Madison University Geology Program (Dr. Lance Kearns), 3) \$500 to Mindat, 4) \$1000 to AFMS Scholarship Program, 4) \$300 to AFMS Endowment Fund, 5) \$300 to Eastern Foundation Fund. In connection with this discussion, Andy Muir volunteered to contact Jeffrey Post to see if there was a particular use for our donation that he would like the GLMSMC to support. The 2015 proposed budget was reviewed and approved subject to receipt and approval of Joel Rosen's request for additional funds for door prizes to be purchased at our show.

Sundry: There was discussion of the need for prompt submission to the Rockhouser and the question of input from FRA and Miniminer groups. Draft minutes of regular and BOD meetings should be submitted to all board members for review and correction before being printed in the Rockhouser. There was discussion of a possible donation of 64 grab bags of fluorescent (Franklin-Sterling Hill) minerals that was reported to have been prepared more than fifty years ago. Knowledgeable members advised, and volunteered to "assess" the contents of these grab bags. Andy Muir will follow up with the donor.

It was M/S/A to adjourn the meeting at 9:24 PM. David Fryauff, Secretary

FUTURE ROCKHOUNDS OF AMERICA (THE MOCKS)

Ages 10-15

Mark Dahlman

Next Meeting Date: November 10, 2014 **Meeting Time:** 7:45-9:00pm

Meeting Location: Sunroom Cafeteria at the Rockville Senior Center

Welcome to our newest FRA members: Ella, Scott, Otto and Jasper!

October 13th Meeting:

We started our meeting in October by discussing our photo book of gems, minerals, and fossils that FRA members will be developing. We also talked briefly about how FRA members should write articles to publish in the Rockhouser. As mentioned before, the articles do not have to be long, and can be about anything related to our society (your favorite fossil, where you collected this summer, blue gems, etc). Since there are so few junior articles written these days, each author stands a very good chance of winning a regional or national award.

The main part of our meeting was a presentation about fossil collecting at Calvert Cliffs. This was in anticipation of our field trip to Bayfront Park at the end of October. FRA members who went on this field trip satisfied one of the requirements for the Field Trips badge. MOCKS in attendance also completed another requirement of the Field Trips badge by learning about the AMFS Code of Ethics and completing a Code of Ethics worksheet. Each of the MOCKS also received a loupe for their work on the upcoming Fossils badge and The World in Miniature badge.

Thanks for October door prize donations go to Mr. Daniel Glenn for bringing us a collection of Wyoming minerals from Mr. Bob King, and to Ryan Gunnison for providing many specimens from his own collection.

November 10th Meeting:

At the November meeting of the MOCKS we will begin working on the Fossils badge. This badge will be a lot of fun since there are many cool activities we can do to satisfy the badge requirements. Come and join us as we get started with this badge.

See you at our November 10th meeting!

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

FIELD TRIPS

by Jonathan Harris

Tuesday November 11, 2014 Time TBD probably 9am. Alleghany Aggregates Bedrock Quarry, Flintstone, MD (about 2-2 ½ hours from Rockville). Rock type-limestone. Minerals found: calcite, celestite, strontianite, fluorite, and native sulfur.

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 23, 2015 is 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).
old Harrisonburg High School) is**

**Memorial Hall (the
directly in front of you.**

Go straight into the parking lot. The Mineral Museum is around the building to the left (south side) along Grace Street. Entrance "E" to the building. After entering the building at Entrance "E", make an immediate right. The museum is at the end of the hall.

OCTOBER FIELDTRIPS

Jonathan Harris

See Mark's article on the Brownies Beach fieldtrip

Cornwall Dumps. We arrived at the Iron Valley Golf Club shortly after 9am where we parked and down the path to the "Big Hill"---a steep slope covered with rocks dumped from 200 years of iron mining in the area. Eventually we found a gentler slope through a wooded section and descending to the middle of the hill, where there was a path across the slope.

There we searched for vugs with various types of crystals. Much of the rock was a diabase with vugs of a pink feldspar. Other specimens included serpentine, limestone, and conglomerate. At least one member found a specimen with a large mass of stilbite. Others found pyrite, garnet, and green copper minerals forming thin films--likely chrysocolla and malachite.



Photos showing collecting at the Cornwall dumps on the steep hillside.

OCTOBER MEETING PHOTOS

Wendell Mohr



Top row: (Left-right)-mini-miners, mini-miners, equipment auction.
 Bottom row (Left-right)-fossils shown at MOCKS, Mocks meeting.

OCTOBER 2014 SHOW TABLE

Dave Fryauff

GLMS-MC Show Table

Date: October 13, 2014

Member's Name	Specimen Descriptions	Locality
Daniel Glenn	Copper Ore	Wyoming
Jeff Cessna	Scheelite	China
" "	Calcite	Campbell Mine, Bisbee, AZ
" "	Quartz with FL inclusions	Gore, Virginia
Gary Leaman	Cerussite on Barite	Mibladen, Morocco
Diane Leaman	Rainbow Fluorite	Brazil
Frances Becker	Unknown	Unknown
Andy Muir	Calcite, Sodalite, & Scapolite	Various
Barbara Burr	Fluorite	South Dakota

Tom Parnell	Quartz (var. Herkimer Diamond)*	Fonda, NY
" "	Quartz (var. Herkimer Diamond)*	Middleville, NY
" "	Quartz (var. Herkimer Diamond)*	Middleville, NY
Wendell Mohr	Dinosaur(Megalosaurus) coin	Australia
Marcia Baum	Amethyst, Agate*	Lebanon, PA
John Beatty	UNK rock from mine dump field trip*	Lebanon, PA
Arella Beatty	UNK rock from mine dump field trip*	Lebanon, PA
Pat Repik-Byrne	Sphalerite & Quartz on Galena xls	Mogilata Mine, Rhodope Mtns., Bulgaria
David Fryauff	Zunyite	Yuma Co., Arizona
Jonathan Harris	Manganese oxide dendrites*	Medford Quarry, Westminster, MD
Lyle Peterson	Kyanite*	Willis Mtn., VA
Don Greaves	Petrified Wood	Odessa, Delaware
Chuck Mason	Petrified Wood with Agate	Eden Valley, Wyoming
Joel Rosen	Books: Agates I, & Agates II	
Johann Zenz	Unknown	Unknown
George Durland	Calcite (Vaterite?)	Nandan, Guangxi Prov., China
John Mckee	Ammonite fossil	Unknown
Gerald Elgert	Iron ore*	Dinosaur Park, Muirkirk, MD

*Asterisk denotes self-collected or self-made

A DAY AT BROWNIES BEACH

Mark Dahlman

The society field trip on October 26th to Bayfront Park, widely known as Brownies Beach, sometimes referred to as Randle Cliffs Beach, couldn't have been on a better October day. There wasn't a cloud to be seen, the water was calm, and the air temperature was in the 70s – fine for those of us in long pants, and boots, as well as for the young ones who wore their bathing suits and went in the water.

When we arrived about an hour before low tide, the water was almost dead-flat. Combined with a bright blue sky, the scene was spectacular. There were thirteen of us on the field trip. Those of us bent on picking up fossils got to work, stooping to conquer. While we discussed the giant Megalodon sharks teeth found along Calvert Cliffs, we focused on the multitude of very tiny fossils scattered throughout the intertidal zone along with a surprising number of small beads of various colors attributed to either a recent ship wreck, or the now closed amusement park just to the north in Chesapeake Beach.

The group found many, many sharks teeth, most being quite small. One requiem shark's tooth found was translucent red along the root, and dark green otherwise. A nice mako shark tooth, a stingray spine (or stinger), and what could be the tip of an alligator tooth were also discovered. A shark vertebra, ray plates, porpoise ear bones, as well as teeth from lemon shark, sand tiger shark, cow shark, and others turned up in the mix of sand and shell parts. A very interesting Turritella snail shell left us puzzling how it formed – perhaps we were looking at an internal mold of the shell

Calvert Cliffs, a world-renowned Miocene fossil collecting site, has few public beaches. Bayfront Park is one of the few. Admission is charged during the summer, but it is free otherwise. We were pleased to discover that the park entrance has been improved, so it was easier to find than in past years



Sunday in the park with gorgeous weather



Searching the intertidal zone, aka Chesapeakeing



Turritella Fossil

photo by John Gunnison



So much to see

photo by John Gunnison

The layers of Calvert Cliffs are of the Miocene era. Bayfront Park is at the northern end of Calvert Cliffs where the oldest layers of the cliffs are exposed. The layers are known as the Calvert formation which is 18 to 22 million years old. During the Miocene era Calvert, St. Mary's and Charles counties were under water, and apparently had quite an assortment of creatures dropping to the bottom and quickly being covered so fossilization could occur.

Whales, sharks, rays, alligators, turtles, porpoises, dugongs, clams, oysters, snails, and scallops, to name a few, were plentiful in the water that is now southern Maryland. Digging in the cliffs is illegal and dangerous, but chunks fall on the beach, such as the ones we saw exposing an impressively crowded layer of shell molds.



Bivalve fossils fresh from the cliff

As we left, we resolved to come back again soon. What a great day.

WEBSITES OF INTEREST

Wendell C. Mohr

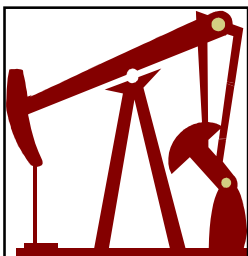
Jadeite Manufacturing and Trading Hubs in Guangdong China offers a well illustrated article about aspects of the gem trade in China you do not often hear about. This GIA article by Dr. Tao Hsu and Andrew Lucas concentrates on Sihui, Pingzhou, Jieyang, and Guangzhou in Guangdong Province. It includes some videos and excellent quality photographs. A Bangle (Not bagel) factory video is 2'28". View the gallery. Learn about Jadeite evaluation. I was unimpressed that the workers wear no safety gear. There are many links to related articles.



Photo credit R.Weller/Cochise College.

<<http://www.gia.edu/gia-news-research-jadeite-trading-centers-hsu>>

Animation of Hydraulic Fracturing, is a 6'37" video Marathon Oil has published at



The vertical and horizontal drilling are explained. Fluids used consisting of water, sand and 0.1 to 0.5 % chemical additives are covered, the actual fracking is detailed, Continuing production for 20-40 years is stated and promised restoration is shown. In the news a lot these days, the side effects of the process are being debated and several states have banned the controversial method. This shows the only oil industry perspective. Full screen mode is good.

<http://www.marathonoil.com/Social_Responsibility/Environmental_Stewardship/Hydraulic_Fracturing/>.

Cleaning Minerals and Fossils is a short but useful article By: Christian C. Burke on "The Vug" website on the subject is at. See for yourself the items on Hand Tools, Chemicals, and Treatment and Preservation. Remember to use safe practices if you make use of any of the ideas presented here.

<<http://www.the-vug.com/vug/articlecleaningccb.html#.VCJW1JRdVYU>>



Response Requested. I have been writing these articles for the Rockhounder since March of 1999. Time flies when you are having fun! It is wise to periodically take measure of what we do to see if it is still of interest and value to members. Therefore I am asking that you take the time to let me know if you peruse the web sites featured and find the articles to be of interest to you. Send replies with your comments, positive or negative to Wendell Mohr, <wmohr@erols.com>. Junior members are encouraged to comment. Comment if you think that only the URL of the website needs be listed, omitting the photographs, clipart, and verbiage.

EVENTS OF INTEREST

- **Nov 8-9, 2014** – Bead Bazaar. Saturday from 10AM – 5PM, and on Sunday 11AM – 5PM. Activity Center at BOHRER PARK, located at 506 S Frederick Ave, Gaithersburg MD 20877. See <http://www.bsgw.org/next-bazaar>
- **Nov 22-23, 2014** – Northern Virginia Mineral Club, Annual show, George Mason University, Fairfax, VA.
- **Nov 22-23, 2014** Boy Scouts of America and George Mason University. Are you interested in volcanoes, plate tectonics, fossils, and rocks? Then come work on Cub Scout and Webelos advancements and the STEM NOVA Award on Nov. 22-23 at George Mason University. Participants can work on the Geology belt loop, Webelos Geology academic pin, and the STEM NOVA Science everywhere award. Part of the meeting requirements will include guided tours of the GMU Geology and Paleontology Labs. There is a \$5 fee per Cub Scout. Adult Den walkers are free. Pre-registration is required at <NCACBSA.org/STEM>."
- **Jan. 11, 2015**, "Rocks on the Mall", an Audubon Naturalist program lead by Joe Marx, 1 - 4 pm. Walk a 2 mile loop to see type, manner of formation, and place of origin of rock in facades, fountains and walls. Audubon members \$24 ,nonmember \$34. Information: <www.ANShome.org/adultnatureprograms> and click on "Register Online" or call Pam at [301 652 9188 X16](tel:3016529188).

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

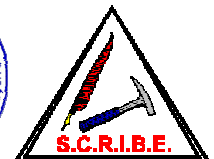
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Bulletin Editor– Needed

Life Members: Larry Harrison, Wendell Mohr, and Juan Proaño

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All Society correspondence is to be sent to this address except that which is intended for the *Rockhounder* and its editor. Such items are to be sent to the editor's email address – kristinlolmaugh@gmail.com

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Award Winning Bulletin
EFMLS, AFMS



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THE ROCKHOUNDER
Gem, Lapidary, and Mineral Society
of Montgomery County, MD, Inc.