



The Rockhounder

July-August 2016

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.”

NOTE: Please send any Rockhounder submissions for the September issue to Editor Olivia Luzier at editor@glmsmc.com by Tuesday, September 27, 2016.

Regular Meeting Announcements

Gary Leaman, Vice President

September Speaker: Ben Andrews

Ben is a geologist and member of the Mineral Sciences Staff at the Smithsonian National Museum of National History

Title of Talk: To be announced

Other Speaker Information:

For October, the planned topic is Wildacres, given by Gary and Diane Leaman, Frances Becker, and Dave Fryauff. Come and see some of the items that you can make at Wildacres.

For November, the planned topic is open to the club members to bring in their most cherished rock, mineral, or fossil (fluorescent or not) and share with the club where they found this specimen and what its significance is in their collection. Members can also share what they enjoy collecting and why they enjoy collecting that type of specimen or locality. This topic was very popular when we tried it for the first time last year, so we decided to do it again.

Next Regular Meeting:

Date: Monday, September 12, 2016

Time: 7:30 PM

Place:
Rockville Senior Center,
1150 Carnation Drive
Rockville, MD

Next Board of Directors Meeting:

The Board of Directors will meet 7:30 PM on **Monday, Sept. 19, 2016** at the home of Holly McNeil. Board members are expected to be there. Any member is welcome to attend, but please let Holly know if you plan to attend.

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President's Message

Jonathan G. Harris

The heat of summer is upon us! During the middle of the day, most animals take shelter, depriving us of good targets for our cameras. The rocks remain in their normal hiding places for us rockhounds to find, assuming we are willing to sweat a bit.

For those not wanting to sweat, there is still plenty to do. Perhaps start thinking about planning an exhibit for our 2017 show, before you get too busy. Maybe it is a good time to sort through the finds of previous trips. Those that don't make the cut could become giveaways for various youth programs, or perhaps material for the next members' auction.

Last, but not least, you can help make pre-forms—those cut stones that students will polish in the workshop at our 2017 show. In order to continue this special feature of our show, we need about 200 pre-forms. Please contact Andy Celmer (abcpec@comcast.net) if you can help with this.

Last night I was shaken by the news that the city of Hayward destroyed valuable evidence of our unstable ground. Apparently where the curb crossed the Hayward Fault, the tectonic movements shifted the sidewalk by more than the width of the curb! Alas, the city, not realizing the significance of this spot, decided it needed repair. Scientists are upset; I'm sure if we complained to the mayor, he would respond as a true politician—"It's not my fault." (See <http://www.latimes.com/local/lanow/la-me-ln-earthquake-curb-destroyed-20160705-snap-htlstory.html>)

Keep cool,
Jonathan

GLMSMC Regular Meeting Minutes for June 13, 2016

Chris Luzier

The meeting was called to order at 7:47 pm by President Jonathan Harris. The meeting was well attended with approximately 44 members (36 adults and 7 juniors). The previous Regular Meeting Minutes conducted on May 9, 2016 were M/S/P and approved with no changes to the Minutes. The previous Board of Directors Meeting Minutes from May 23, 2016 were M/S/P and approved with no changes to the BOD Minutes.

FRA Advisor Mark Dahlman started the meeting with six awards for Showmanship with the Future Rockhounds of America program. The awards went to Kaylee Bloom, Owen Higgs, Peter Korenko, Scott Korenko, Colin Savage, and Erik Staggs. Fieldtrip Coordinator Dave Fryauff also

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GLMSMC Regular Meeting Minutes for June 13, 2016

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reminded the group of the upcoming EFMLS Picnic in Southern Maryland and next weekend's trip to the Vulcan Materials Quarry in Virginia. Treasurer Tom Dushel also mentioned that the rent for the Rockville Senior Center has been paid through the end of the calendar year and then up until next summer. There was also a small silent auction conducted during the meeting with past donated items to the GLMSMC. There was also a motion to accept a new member, Leigh Broadhurst of Silver Spring, MD. Her membership was M/S/ P and approved and she was warmly welcomed to the group.

Tonight's speaker was our own member, Conrad Smith, who regaled us with his new adventures in New Mexico while he is completing his Bachelor's Degree. Conrad has been heavily involved with the GLMSMC for many years and provided a very educational talk on mining and local mines of the New Mexico region. One such mine that he mentioned was the Chino Mine, which is the third largest mine in the U.S. The pictures of this mine really showed the immensity and scale of this mine. Conrad said that most everything in New Mexico above 7000 ft. above sea level is a forested landscape, with areas below that being mostly desert or prairie.

Conrad mentioned another mine: the Mosaic Potash Mine in Carlsbad, NM, which has an amazing underground operation. The levels have 5 separate supply stations and machine shops approximately 5 miles apart from each other and all underground. These help to keep the continuous miner machines used to eat away at the potash deposits supplied and in good, working order. There are no explosives used in this mine, due to the nature of the potash. They have a remote control unit that drives the 45 foot long machine into the walls of the mine. Noise levels routinely reach 120 decibels, hence the use of earmuffs.

One of the areas that Conrad collects in is the Magdalena Mountains, which top out at a whopping 10,800 ft and is the third highest peak in New Mexico. Many good collecting areas are in "The Maggies," as they are affectionately called and has provided him with some very nice self-collected specimens. He also spoke about the Trinity site and its radioactive history. He brought his Geiger Counter with him on this trip and found his highest count levels of 303 cpm. This count was found on a piece of deer scat, of all things!

The Show Table and General Door prizes were conducted by Dave Tiktinsky filling in for Joel Rosen. The Show Table prize was a classic Prehnite specimen from Paterson, NJ and was won by George Durland. The General Door prize was a beautiful Rhodonite from the San Martin Mine in Ancash Dept., Peru. This was awarded to Jo Ann Mohr. Congratulations!

The meeting was adjourned at 9:47 pm by Jonathan Harris.

Respectfully submitted by Chris Luzier, substituting for Jeff Cessna.



GLMSMC Board of Directors Meeting Minutes

There was no Board of Director's Meeting for the month of June.

Future Rockhounds of America (The MOCKS) Ages 10-15

Mark Dahlman

Next Meeting Date: September 12, 2016

Meeting Time: 7:45-9:00pm

Meeting Location: Sunroom Cafeteria at the Rockville Senior Center

June 13th Meeting:

We started the June meeting by presenting Showmanship badges to the FRA members who earned them this spring. Congratulations to Kaylee Bloom, Owen Higgs, Peter Korenko, Scott Korenko, Colin Savage, and Erik Staggs for earning the badge. To earn the Showmanship badge, FRA members learned techniques for effective exhibits, observed and evaluated displays, and entered an exhibit in our Club Show.

At our June meeting, FRA members started to evaluate a set of unknown minerals using their mineral test kits for the Rocks and Minerals badge. FRA members should fill out the worksheet for each of the minerals as homework over the summer. We'll be evaluating the results at our September meeting.

Summer is a great opportunity to work on your mineral collection. Collecting and labeling at least 10 minerals is another activity of the Rocks and Minerals badge. Make sure each mineral's label includes what it is and where it came from. Bring your collection to the September FRA meeting to show it off and receive credit toward the badge.

Have a great summer!

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



Show Table for June 13th Regular Meeting

Note: An * indicates self-collected

Leigh Broadhurst	Kyanite	All MD collected minerals
	Wavellite	
	Epidote-Clinzoisite	
	Tremolite	
	Cr Diopside	
	Grossularite	
	Serpentine	
	Herkimer Diamond	
	Granite Pegmatite	
Gary Leaman	Lepidolite	Havey Quarry
Diane Leaman	Lodelite	Poland, ME
	Quartz & Hematite, Chlorite	Brazil
Lyle Peterson	Dendrite	Medford Quarry
Wendell Mohr	Edmontonia Canadian Coin	Canada Mint
Don Greaves	3 Cabs made at Wildacres	
	Unakite	
	Banded Jasper	
	Leopard Jasper	
	NC Garnet	
	Purple Turquoise	
	Bumblebee Jasper	
Ken Reynolds	Anglesite on Galena	
	Esperite (2 pieces)	Mill Site- Franklin, NJ
	Benitoite	San Benito, CA

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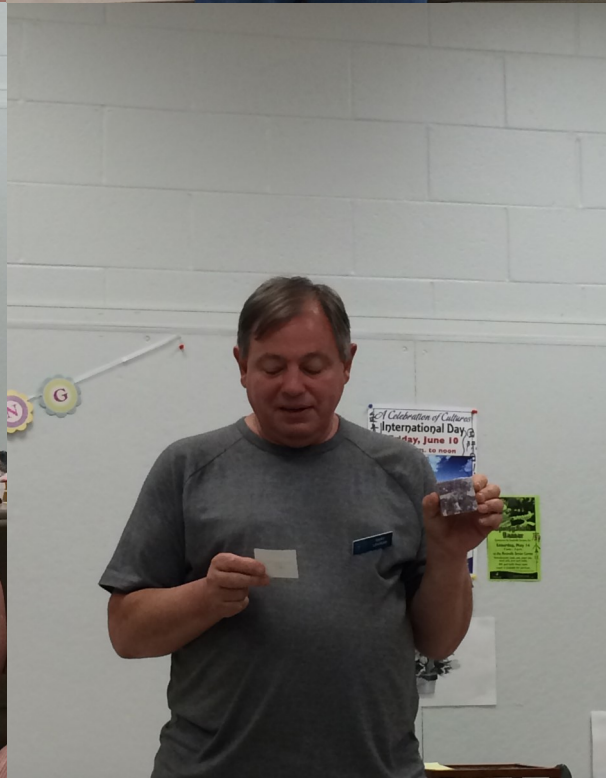
Show Table for June 13th Regular Meeting

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Steven Calamuci	Gypsum Var Selenite	MT Hunson, Austria
	Rhodochrosite & Quartz	Cavnic, Romania
	Baryte	Teresita Mine, La Union, Spain
Jonathan Harris	*Analcime	Upper New Street Quarry, Paterson, NJ
	Analcime, Aegerine	Mt. St. Hillaire, Quebec, Canada
King Stablein	Quartz in Geodes	Brooks Range, Alaska
Dave Fryauff	Cuprian Adamite	Gold Hill, UT
	Hyalite Opal	Chalk Mountain Mine, Spruce Pine, NC
George Durland	Hardystonite on Bustamite	Franklin, NJ
	Rhodonite, Franklinite, Garnet on/in Calcite	Franklin, NJ
Nancy Shinowara	Aquamarine crystals and Schorl Tourmaline	Erongo Mountains, Namibia
Conrad Smith	Smithsonite	New Mexico
Chuck Mason	Mica Schist w/ Garnet	Mont Co, MD



June 13th Regular Meeting



Photos courtesy of Holly McNeil



June 13th Regular Meeting



FRA members receiving their Showmanship badges



Photos courtesy of Holly McNeil



June 13th Regular Meeting



Show Table winners Jo Ann
Mohr and George Durland

Photos courtesy of Holly McNeil



June 13th Regular Meeting



The club at the June 13th meeting

Photo courtesy of Dave Fryauff



Websites of Interest

Wendell C. Mohr

Jaipur, India: The Emerald Cutting and Trading Powerhouse

By Andrew Lucas, Nirupa Bhatt, Manoj Singhania, Kashish Sachdeva, Tao Hsu, and Pedro Padua

Jaipur, India, is the capital of Rajasthan and is a globally leading colored gemstone-cutting and trading industry and also a hub for jewelry manufacturing. Check out a couple of galleries and six interesting videos, from 2 to 8 minutes long.

<www.gia.edu/gia-news-research/Jaipur-India-emerald-cutting-trading-powerhouse>



Photo from website



Photo from website

Tools, Supplies, Equipment and Books for the Geologist

Everything you might want for our hobby. Some redundancy between links. Presented here for you interest and education, but, as is our policy, not an endorsement for sales.

<<http://geology.com/store/>>

The Mineral and Gemstone Kingdom

A comprehensive site! See the mineral and gemstone guides, research properties, Q & A, Photo Gallery, Recent Tucson Show videos, and a plethora of more!

<www.minerals.net>



Photo Credit: Roger Weller
Cochise College



Field Trip News

Dave Fryauff

Some local news below from Dave Lines, one of our friends in the Southern MD club about the EFMLS picnic this past Saturday (July 9th):

Re-swap: Had about 50 people (20 or so set up tables/tents in parking lot). Swapping continued 'til 5 PM, though most left by 3 PM. Great food at the potluck picnic (delicious, actually) and plenty to drink (good desserts, too). Raised enough money at auction to pay all expenses. Attendees were from MD, DC, VA, PA, NC, and NY (Farthest traveled 350 miles). Good event – lots of variety. Need to hold every year to re-generate interest and build up attendance.

Contrary Creek: Will put out detailed info sheet next week – am too busy this week with 2 family reunions to attend/prepare for plus grandkids here with us. Basically trip will look for gold/garnets/pyrite xls/magnetite/other minerals IN the creek – we will get wet and muddy. Not allowed to dig on or undercut banks along creek. Timing will be from 0800 to noon – maybe a bit later. Just gets too hot to stay much longer. Posted land will require us to STAY in the creek whole trip.

You are welcome to join us; Shenandoah club wants to attend as well. Will meet at parking just past Rt 522 bridge that crosses creek. Area is large enough to handle about 20 cars. Parking area is big enough, but may have competition with parking space from others doing same in creek. Back-up parking available across creek on old abandoned roadbed.

Pictures from Field Trip to Manassas

Sam Linton

These weren't the best finds, but there were pretty close. I was the only one to find the nodules though...pretty cool. Everyone thought I was crazy thinking they were a nodule. However, they are... exactly the same composition/form except for size. Be on the look out for them next time you go.

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Pictures from Field Trip to Manassas

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Calcite Pink Balls



Iron Nodules

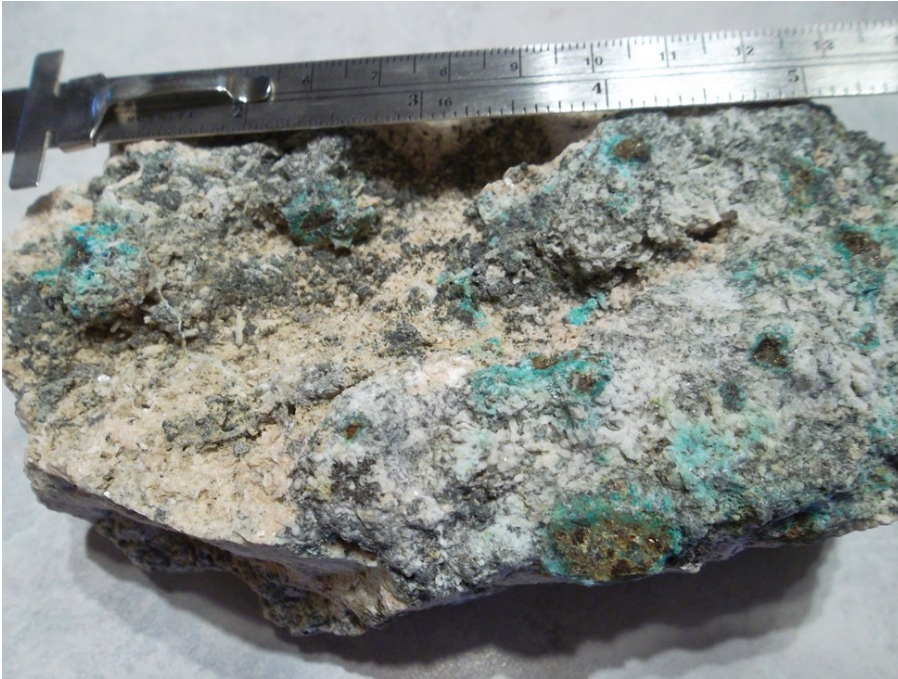


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Pictures from Field Trip to Manassas

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Pyrite Weathering to Chrysocolla



Stilbite, Golden Calcite, Prehnite





Pictures from Field Trip to Middleburg and Mt. Pleasant Mills

Sam Linton

I found tons of the calcite dogtooths and tons of gemmy balls/blades. However, photos are hard to take of that stuff and you can't really grasp the quality. However, I think the ball picture for Middleburg turned out OK.



Calcite Balls from Middleburg



Calcite Dogtooths from Mount Pleasant Mills



Items of Interest

Dave Fryauff

I thought you might still be interested in new discoveries of rocks, minerals and fossils that come up in the science news.....this article is about the mineral tridymite, which is a volcanic form of quartz and is typically so small that only the micro people can see and appreciate it....quite a beautiful crystal the way we find it here on earth, often in rhyolite from Utah & New Mexico....

Tridymite Article:

<https://www.sciencedaily.com/releases/2016/06/160622170422.htm#.V2vmxsgWy28.yahoomail>

More:

- Climate change mitigation:
Turning carbon dioxide into rock (Geology-related reading for inquiring minds)

<https://www.sciencedaily.com/releases/2016/06/160609142426.htm#.V2BMju7d3Qg.mailto>

- New approach measures how much carbon dioxide comes from mine drainage:

<https://www.sciencedaily.com/releases/2016/06/160617215448.htm#.V2hXncrdvyl.yahoomail>

- Methane-producing microbes in California rocks:

<https://www.sciencedaily.com/releases/2016/05/160524123447.htm#.V2hYYy6K4eY.yahoomail>

- Arc volcano releases mix of material from Earth's mantle and crust:

<https://www.sciencedaily.com/releases/2016/06/160613153408.htm#.V2ANkK8560k.yahoomail>



Missing Emerald Crystals

A message from Lance Kearns, our host when we visit JMU's museum and laboratory:

Hello Everyone,

I am writing to enlist your aid in locating a missing mineral specimen from the James Madison University collection. The large green emerald crystals in black biotite matrix specimen (shown here in the photo) disappeared from our Mineralogy/Petrology lab. We do not know exactly when it disappeared, but I am asking that if you should encounter someone trying to sell or trade this specimen, perhaps at one of your shows, to please contact me either by phone or email. I have a \$50.00 reward posted for the return of the specimen.

If you have any information about this specimen, that could lead to its recovery, please contact Dr. Lance Kearns (kearnsle@jmu.edu or 540-568-6421)

Thank You





Upcoming Shows

Burlington Gem and Mineral Club's 37th Annual Champlain Valley Gem, Mineral, & Fossil Show

**Saturday and Sunday, July 30-31
10 AM-5 PM**

Tuttle Middle School, 500 Dorset St.,
South Burlington, Vermont

Dealers, exhibits, lectures, demonstrations,
children's activities, silent auctions, door
prizes, refreshments, free parking.

\$4 adults (16-59)

\$3 seniors (60+)

children under 16 free with adult

Handicapped accessible

Info: Jeff Higgins at (802) 849-6076 or
www.burlingtongemandmineralclub.org

Long Island Mineral and Geology Society's 35th Annual Gem, Mineral, & Jewelry Show

**Saturday and Sunday, July 30-31
10 AM-5 PM**

East Elementary School, 34900
Main Road (Rte. 25)
Cutchogue, NY, 11935

Adults \$6

With flyer \$5

Children Under 12 Free

Jewelry, Minerals, Gems, Fossils, Beads, Geodes

Info: www.limineralandgeology.com

**Kennebec Rocks and Mineral Club's
27th Annual Rockhounters Gem and Mineral Show
September 3-4 (Labor Day Weekend)**

Saturday: 10AM-5PM

Sunday: 10AM-4PM

National Guard Armory, Western Ave., Augusta, Maine

Dealers and INFO. 207-873-6270. Doorprizes, daily grand door prize, demonstrations in cabbing and lapidary, mineral displays, dealers in minerals, jewelry, gems and fossils, geode slicing, mineral mine and other games for the kids. Children can win a mineral starter kit and get a free stone just for coming in. Information on rockhounding and how to join a mineral club. See "Rocky" the rockhound dog.

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Upcoming Shows

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ONLINE REGISTRATION FOR ADULT AUDUBON NATURALIST SOCIETY PROGRAMS

Visit www.ANShome.org/adultnatureprograms and click on "Register Online."

All adult program participants will be "New-Users" the first time they register.

All changes/cancellations/transfers must be handled through the EE office.

If a class is full, you may waitlist for it for free online.

Questions? Call Pam at 301-652-9188 x16 or email pam.oves@anshome.org.

Georgetown Geology Loop Hike

Saturday, September 24 (9 am-1 pm)

Leader: Joe Marx Members

Members: \$24; nonmembers: \$34

The Georgetown section of Washington, DC sits squarely on a mass of ancient granite, surrounded by various other types and ages of rock. The hike will be about 5 miles long, through wooded parkland and along city streets. The terrain is easy to moderate, with hills being the biggest challenge. During the hike, we will visit the Coastal Plain, three canyons, the Piedmont upland, and a major fault zone. Not bad for a walk around town.

Geology of the Gettysburg Battlefield

Sunday, October 30 (10 am-3pm)

Leader: Joe Marx

Members: \$30; nonmembers: \$42

Although geology in 1863 was an immature science and military geology had not yet been invented, the terrain of southern Pennsylvania directly influenced the strategies and actions of the Union and Confederate armies in their climactic clash at Gettysburg. We will tour the battlefield by car and on foot, visiting a number of sites that reveal the geologic processes and materials that created the landscape. In addition, we will discuss several of the regional topographic features that funneled the two armies to their meeting place. We will do several short and relatively easy circuit hikes, totaling a couple of miles in both open and wooded terrain. The ground will vary from dusty or muddy to rocky, and from level to relatively steep.

Note: The pace on these geology hikes is faster than the usual naturalist's shuffle.

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Upcoming Shows

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**The Northern Berkshire Mineral Club's
Annual Gem, Mineral & Fossil Show**

Saturday and Sunday, September 10-11

Saturday: 10:00 AM-6:00 PM

Sunday: 10:00 AM-4:00 PM

Fraternal Order of Eagles Aerie #310,
515 Curran Highway, Rte. 8,
North Adams, MA

The event will include gems, minerals, crystals, fossil, gifts, door prizes, refreshments, and activities for children.

The cost of admission is \$4 and children under 15 are free with an adult.

For questions, please contact the club president, Larry Michon, at 413-663-8430.

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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Treasurer – Tom Dushel, 108 Berrywood Drive, Severna Park MD 21146-2004, (443-514-6734)

Field Trip Chairman – Dave Fryauff, 24109 Sugar Cane Lane, Laytonsville MD 20882-4031,
(301-253-1687)

Membership Chairman – Doug Baum, 11205 Golden Meadow Ct, Germantown, MD 20876-1740,
(301-515-4641)

Downstairs Showchair – Holly McNeil, 22 South Duke Street, Rockville, MD, 20850-1014,
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Upstairs Showchair – Dave Tiktinsky, 9209 Laurel Oak Drive, Bethesda, MD 20817-1937,
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(editor@glmsmc.com)

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

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P. O. Box 444, Gaithersburg MD 20884-0444

Website: <http://www.glmsmc.com/>

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 at editor@glmsmc.com.

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Award Winning Bulletin
EFMLS, AFMS



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