

Livingstones

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Livingston Gem and Mineral Society

February 2015

President's Message

February is here and if you are lucky you may see some cherubs in the air.

Your 2015 dues are due NOW. You will be dropped from the newsletter shortly if you have not paid.

Teaching the 4-H children is going well, thanks to all of you that are helping.

You may notice that the machines from both ends of the counter are missing. They were rusting out, and have been sent to a metal fabricator to be rebuilt in stainless steel. Gayland has temporarily loaned us his machine to use for the 1200 and 3000 belts. Our machines should be back in a week or two. Gayland has also put on new 100, 180, and 220 wheels, so look at the dates on the machines before you start grinding.

Officer's meeting the 3rd Tuesday, after lunch. Just a reminder- we are still looking for an advertising czar, for the show in September.

Lastly, I have to say it again, don't be afraid to pick up a broom or even a mop from time to time. It gets discouraging when you feel like you're the only one cleaning, or walk in and see trash all over the floor. We have plenty of trash cans, I don't understand what is so hard about using them.

Bryant



Workshop Hours

Monday: 10 a.m. to 1 p.m.

Tuesday: 9 a.m. to 9 p.m.

Wednesday: 10 a.m. to 9 p.m.

Friday: 10 a.m. to 2 p.m.

BOARD MEETING LGMS 12-10-14

12:40 pm, 8 members present, plus Isla.

President Bryant Hiiter reported that we have received a letter from the school regarding an increase in our monthly rent. All present agreed that we are still pleased with our shop and agreed to the increase.

Our new computer is here and in use. Bob Krautheim, our silversmith, would like to use the old computer for club purposes. Motion to approve this was made by Ed and seconded by Bryant. All in favor.

Paul opened discussion on limiting access to our computer for club use only by officers and editors. Nothing was resolved at this time, the board will address this at a later date.

There was discussion regarding our website. The 6 months payment that was authorized is expiring. Peggy Petito made a motion to authorize another 6 month payment to our web mistress, Emily. This was seconded by a Gayland. All were in favor.

There was discussion regarding a possible charge for transactions among members (selling equipment, rocks, and finished pieces) for the club to make a profit from the sales. Informal vote: charge - 2 votes, against - 6 votes.

Discussed: what to do with old items (microwave, coffee pots, etc.) that are no longer working or in use. It was decided to speak to Maintenance.

Gayland said that several of the grinders and wheels have deteriorating metal shields that need to be replaced. Margaret stated that she will call a former employer that does sheet metal work to come out look at our machines and give us a price on repairs.

Show planning: Peggy stated that Sybil has been invaluable in buying, preparing and serving food before and during our show but she is overworked. She needs additional help to assist full time in the kitchen at our next show. We also need someone to be in charge of signs and advertising. Bryant passed around some information he had from other clubs regarding this. It was decided to ask again for volunteers to serve as show chairman, advertising czar, and prize drawing chairperson. Chuck Amberger our previous show chairman has offered to share what

it takes to be a show chairman, his lists and diagrams regarding electrical layout and floor layout.

Peggy has asked permission to destroy old receipts, checks etc. She was advised to use her discretion.

Paul continued discussion on revisions to the Constitution. All club documents must be in sync with each other, some spelling must be corrected and the club address must be corrected in some places. In addition, the concept of future "life members" will be removed from the constitution. Paul has agreed to continue with the "tweaking" these items and will discuss this at future board meetings before bringing this to the general membership meeting.

Motion was made by Peggy to close meeting and seconded by Margaret. 2:30 pm.

Respectfully submitted, Sheila York, Secretary

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**BOARD MEETING LGMS 01-20-15**

12:37 pm, 7 members present. President Bryant Hiiter presiding. 4H has started and is going good but there are not as many kids as we've had in the past. We have enough volunteers for each child to be supervised. 2 kids are working with Bob in silver smithing. There was discussion regarding the insurance 4H has for their members and whether LGMS could get a copy of their policy.

Ed is prospecting in New Mexico and Arizona with member Bob Kalis.

United Fabricating has made a quote on rebuilding the two machines - the 80 grit and the 1200 and 3000 belts. The price is \$800.00. If the bearings need to be changed, the price will go up. Motion made by Gayland to accept quote and seconded by Peggy. All in favor.

Margaret brought to the clubs attention that the kiln (hot box) is in need of repairs due to an operator accident. Gayland offered to look at it, and if it needs to be torn down and the brick replaced he's pretty sure that parts can still be purchased.

Peggy stated that John and Paul seem to be the acting "czars" for advertising and Paul has been doing

some research into various ways to get our information out to the public for our shows. Different types of signs for the show were also discussed.

Constitution Items for review: There was a question about where to put section III E (8). Bryant and others feel it would be read more if it was also put in the Safety/Code of Ethics. (2 visits for guests as opposed to 3). MEMBERSHIP SECTION 3; e) #4: both the guest and the person who is responsible signs the form and/or card. Bryant made a motion for this to be included in Code of Ethics, Rules of Conduct and Safety so that it would stay in sync with the bylaws. This includes the changing of the numbers and their designation. This will be presented to the general meeting for voting when Paul has finished his tweaking of the changes discussed at this meeting.

Motion to end this meeting by Bryant and seconded by Margaret. 2:10 pm.

Respectfully submitted, Sheila York, Secretary

## 2015 Officers and Chairpersons

President: Bryant Hiiter, 248-889-3974  
Vice President: Gayland Allen, 810-275-3444  
Secretary: Sheila York, 810-695-0509  
Treasurer: Peggy Petito, 248-887-8847  
Second year Directors: Margaret Edmundson,  
248-634-5046  
Paul McEwen, 810-735-5832  
Third year Directors: Ed Oller, 810-241-8801  
John Petito, 248-887-8847  
Hospitality: Venus Sage, 810-458-4290  
Sunshine: Isla Mitchell, 248-685-7804  
Shop Chairpersons: Gayland Allen, 810-275-3444  
Ed Oller, 810-241-8801  
Newsletter and Membership:  
Isla Mitchell, 248-685-7804  
imvm.1@netzero.com  
Historian: Chuck Amberger, 248-787-6586  
Library: Bryant Hiiter, 248-889-3974  
Webmaster: Emily Saling  
General Membership Meetings are held monthly  
on the 3<sup>rd</sup> Tuesday at 6 p.m. (Except in January  
and February when board meetings are held in  
the shop at 1 p.m.)

## Upcoming Events

March 7-8, 2015

## The Roamin Club

## 43<sup>rd</sup> Annual Special Auction

Schoolcraft College

Info: 248-348-5093 or 248-981-9673

March 20-22, 2015

## Michigan Gem and Mineral Society

## “It's a Hard Rock Life”

## Jackson County Fairgrounds

Info: Sally 517-522-3396 or

[www.mgmsrockclub.com](http://www.mgmsrockclub.com)

March 28, 2015

## Midwest Mineralogical and Lapidary Society

## Rock Swap, 10 a.m. - 5 p.m.

13115 Telegraph Rd, Taylor, MI

Info: 734-259-8532, ltalley1970@gmail.com

## Weather problems?

The LGMS Shop is closed whenever the Hartland Consolidated Schools are closed.

Check [www. Hartlandschools.us/School-Closings](http://www.Hartlandschools.us/School-Closings)

Livingston Gem and Mineral Society is a nonprofit organization and member of the Midwest Federation of Mineralogical Societies and the American Federation of Mineralogical Societies. Our purpose is to promote, through educational means, public interest and increased knowledge in the fields of mineralogy, archaeology, paleontology, and the lapidary arts. This society was established in 1970. Annual dues are \$15 per person or family. Annual shop fees are \$10.00 per person. There is an additional fee of \$1.00 per day for workshop use. Annual dues and annual shop fees are due on January 1 of each year. The Livingston Gem and Mineral Society publishes The Living Stones. Non copyrighted articles may be reprinted provided that they are properly attributed. Newsletter deadline is the 20th of each month. Articles or correspondence can be sent to LGMS, Hartland Consolidated Schools, 9525 E. Highland Rd, Howell, Michigan 48843-9098

## What is Fluorite?

Fluorite is an important industrial mineral composed of calcium and fluorine ( $\text{CaF}_2$ ). It is used in a wide variety of chemical, metallurgical and ceramic processes. Specimens with exceptional diaphaneity and color are cut into [gems](#) or used to make ornamental objects. Fluorite is deposited in veins by hydrothermal processes. In these rocks it often occurs as a gangue mineral associated with metallic ores. Fluorite is also found in the fractures and cavities of some [limestones](#) and dolomites. It is a very common rock-forming mineral found in many parts of the world. In the mining industry fluorite is often called "fluorspar."

### Physical Properties of Fluorite

Fluorite is very easy to identify if you consider cleavage, hardness and specific gravity. It is the only common mineral that has four directions of perfect cleavage, often breaking into pieces with the shape of an octahedron. It is also the mineral used for a hardness of four in the Mohs Hardness Scale. Finally, it has a specific gravity of 3.2 which is detectably higher than most other minerals. Although color is not a reliable property for mineral identification, the characteristic purple, green and yellow translucent-to-transparent appearance of fluorite is an immediate visual clue for the mineral.

### Fluorescence

Fluorite typically glows a blue-violet color under short-wave ultraviolet and long-wave ultraviolet light. Some specimens are known to glow a cream or white color. Many specimens do not fluoresce. Fluorescence in fluorite is thought to be [caFluorite Occurrence](#).

Most fluorite occurs as vein fillings in rocks that have been subjected to hydrothermal activity. These veins often contain metallic ores which can include sulfides of tin, silver, lead, zinc, copper and other metals. Fluorite is also found in the fractures and vugs of some limestones and dolomites. Fluorite can be massive, granular or euhedral as octahedral or cubic crystals. Fluorite is a common mineral in hydrothermal and carbonate rocks worldwide. It is used when trace amounts of yttrium, europium, samarium or other elements substitute for calcium in the fluorite mineral structure.

### Uses of Fluorite

Fluorite has a wide variety of uses. The primary uses are in the metallurgical, ceramics and chemical industries; however, optical, lapidary and other uses are also important. Fluorspar, the name used for fluorite when it is sold as a bulk material or in processed form, is sold in three different grades (acid, ceramic and metallurgical).



Colorful pieces of fluorite can be cut into beautiful cabochons and other ornamental objects. However, because of its low hardness and perfect cleavage, it is not suitable for many purposes.

Article from Geology.com

### Our Mission

The Livingston Gem and Mineral Society is a nonprofit organization and member of the Midwest Federation of Mineralogical Societies and the American Federation of Mineralogical Societies.

Our purpose is to promote, through educational means, public interest and increased knowledge in the fields of mineralogy, archaeology, paleontology, and the lapidary arts.



### 2015 Dues are due

Tear off and mail to Peggy Petito, Treasurer, LGMS, 9525 E. Highland Rd, Howell, MI 48843

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### 2015 Livingston Gem and Mineral Society Dues

Name \_\_\_\_\_

Please note any changes in address, email address or phone number \_\_\_\_\_

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\_\_\_\_\_ adult member ..... \$15

\_\_\_\_\_ family membership .....\$15

number of children 12-18 years \_\_\_\_\_ number of adults \_\_\_\_\_

\_\_\_\_\_ annual workshop fee .....\$10  
(each member who uses the shop must pay this fee)

\_\_\_\_\_ total payment

newsletter preference: \_\_\_\_\_ printed, \_\_\_\_\_ email, \_\_\_\_\_ shop mail folder

**Livingston Gem and Mineral Society**  
**9525 E. Highland Road**  
**Howell, MI 48843-9098**



**No General Meeting**  
**Board meets at 1 p.m.**  
**on Tuesday, February 17, 2015 at the shop**

