

The Living Stones

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Livingston Gem and Mineral Society

September 2020

President's Message

Hello everyone!

I just wanted to say a big thank you to everyone who participated in the meeting. It's always good seeing friends and spending time with those you care about.

A vote was taken at this general membership meeting on August 24th and the final result was that dues will not be raised and the issue will be revisited in March of 2021. I won't be your leader for much longer, and I may not be able to have the honor or the opportunity of being it again, but to the next President of the club and to all of our wonderful members I say this; think long and hard about the future of our club, make peace with the situation that we all find ourselves in, and entertain the possibility that changes will have to be made to help us survive. Make sure you ask questions of those you've chosen to lead you and take time to check on your fellow members. It's been difficult for everyone these past six months and throughout it the shop has remained closed. This, however, doesn't mean we're forever apart. All of us still belong to the same club and hold the same interests that brought us together in the first place. Stay strong and we'll soon see the other side of this storm.

Now for those of you who haven't heard the news, the Livingston Gem and Mineral society will be holding a rock swap! It'll be on October 3rd from 9 a.m. to 5 p.m. in the Christ Lutheran Church (5987 Williams Lake Road, Waterford, MI 48329) parking lot! Anyone is welcome to come and sell whatever they'd like whether it's gems, jewelry, slabs, cabs or what

have you. Spots to sell at this event will be offered to club members first. There will be many volunteers needed for this event so keep an eye on the website for more information on it. We should have some way of being able to have volunteers and vendors sign up for positions and spaces soon. Flyers will also soon be available, so keep an eye out for that as well and be sure to print them off and pass them around to anyone and everyone. With your help we can make this a truly spectacular show!

In closing, I'd like to thank all of the people working hard with me to keep the club going. It means a lot to have so many people stand beside me wanting to support the club and keep the wheels of progress turning. Together we can keep moving forward into a wonderful future for our club.

P.S. I just wanted to say congratulations again to George and Anna Pernicano on their American Federation of Mineralogical Societies Scholarship Foundation Honorary Award, for their achievement in the field of Earth sciences. The Zoom reception will hopefully be held soon, we're just hashing out dates and times that work with everyone now. Please be sure to, if you haven't already, congratulate these two outstanding people!

Your President, Zachary Palmieri



**LGMS General Meeting held at
Settlers Park
August 24, 2020 6:30 pm**

1. Call to Order – 6:32 pm

- a. In Attendance: a total of 27 members including board members
- b. Motion to approve minutes by Cinda, 2nd by Jim - unanimous vote to approve minutes with no changes.

2. Shop

- a. **REOPEN?** – The Shop will be opening sometime after Labor Day. It may be open for three days a week and during school office hours only (9-4?)

3. LGMS Rock Swap – October 3, 2020 at Christ Lutheran Church in Waterford - Outside in the Parking Lot - (No Rain Date Established yet)

- a. Get banner and display by road.
- b. Look for food trucks.
- c. Vendors
 - i. May setup at 7:30 am
 - ii. Vendors, please bring your own tables, chairs, tents, masks, & sanitizer.
 - iii. 20 Vendors, first come, first serve. Sign up for spots – more information in the LGMS website.
 - iv. Vendors may call a board member to sign up to be a seller/vendor.
 - v. Vendors may share tables/booths with a friend.
 - vi. 10' x 10' booth size & fee to be due to LGMS details in the October newsletter.
- d. Volunteers Needed to:
 - i. Set up.
 - ii. Move rocks from storage
 - iii. Pass out/sell food
 - iv. Help park cars
 - v. Help clean restrooms and the area.

4. VOTING on annual increase in dues:

- a. \$60 per year with \$5 discount if paid on or before due date of 12/31/2020.
OPTIONS in Voting:
 1. YES vote = New Dues start 1/1/21
TOTAL VOTES 10
 2. NO vote = Unchanged at this time
TOTAL VOTES 2
 3. Postpone vote = Re-vote at March 2021 meeting. TOTAL VOTES 14
 - b. Decision: vote regarding dues increase will be postponed until March 2021.
- 5. Adjournment 7:03 pm** – Motioned by Ann Marie 2nd by Jim with unanimous vote taken to adjourn.

Respectfully submitted,
Lori Irvin, LGMS Secretary



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.

2020 Officers and Chairpersons

President: Zach Palmieri 517-763-7436

Vice President: Cinda Dawson 810-423-0464

Secretary: Lori Irvin, 810-820-0494

Treasurer: Linda Sheedy 248-624-3605

First year Directors:

Sheila York, 810-695-0509

AnnMarie McFadden, 248-884-8126

Second year Directors:

Dan Goodwin 810-252-0026

Jim Parker 517-548-0675

Hospitality and Sunshine:

Angela Hamilton 248-431-8288

Greyson Bechtold 248-920-4913

Shop Chairpersons:

Jim Hansen, 248-933-1482

Bill Magee, 734-981-6117

Greyson Bechtold 248-920-4913

Newsletter: Isla Mitchell, 248-685-7804,

imvm.1@netzero.com

Membership: Cinda Dawson, 810- 423-0464

Historian: Chuck Amberger, 248-787-6586

Library: Bryant Hiiter, 248-210-6138

Webmaster: John Myer, www.livingstongems.com or

www.livingstongemandmineralsociety.com

Email: LGMSMich@gmail.com

General Membership Meetings are held monthly on the 3rd Tuesday at 6 pm. (Except in January and February when board meetings are held in the shop.)



Coming Events

September 19, 2020, 10 am

Kalamazoo Rock Club's Fun rock sale

St Michael Lutheran Church parking lot

7211 Oakland Drive, Portage, MI

booths available, info at www.KalamazooRockClub.org

October 3, 2020, 9 am – 5 pm

Our own LGMS Rock Swap

Christ Lutheran Church parking lot

5987 Williams Lake Road at Airport Road

Waterford, MI

VOLUNTEERS NEEDED

LGMS Field Trip to Dave's Rocks and Carvings

September 11th, 12th, and 13th.

This dealer is located about 55 minutes from the LGMS Workshop. Members can drive individually or arrange a carpool with friends, if you feel it's safe.

Dave's Rocks and Carvings is located almost entirely outside, rain or shine. Restrooms are available. Bring a mask if you want to shop for crystals in the garage. Gloves for handling dirty rocks are recommended.

Tons of rough rocks including petrified wood, obsidian, agate and jasper are available. Most are \$1 to \$5 per pound. Some nicer rocks are more expensive. The rough will be spread out on the ground and hosed off before we arrive.

Cabochons and jewelry will be for sale on tables. Some are 50% off. Crystals are also available. Cash, check and Paypal are accepted. No credit cards at this time.

On Sunday, the 13th, shoppers can sort rocks into buckets in exchange for rocks. Up to \$15 per hour, using rocks as currency.

Group sizes will be 10 people or smaller. Sign up for a time slot using SignUp Genius. (Contact Cinda Dawson or Zach Palmieri if you need help signing up.) There are 3 time slots per day from 10 am to 6 pm.

Here is the link.

<https://www.signupgenius.com/go/20fod45aca928a1fe3-daves>



Lake Superior Copper Agate Series # 1

Lake Superior Copper Agates

Introducing the World's Most Spectacular Agates

**Lake Superior Copper Agates**excerpted from **Lake Superior Copper Agates**

Lake Superior copper agates have their patterns replaced with copper in the form of banding, particles or masses. Some have agate banding seemingly etched in solid copper. Silver also occurs in some agates. Their high degree of mineralization produces complex patterns, colors and crystals not found in other Lake Superior agates. Many geodes contain crystals rivaling the best micromounts. They even appear within eyes.

With few exceptions, these agates are only found in three tiny sections of 100-year-old copper mine tailings in the Keweenaw copper country of Northern Michigan. Collecting began in earnest only about 10 years ago.

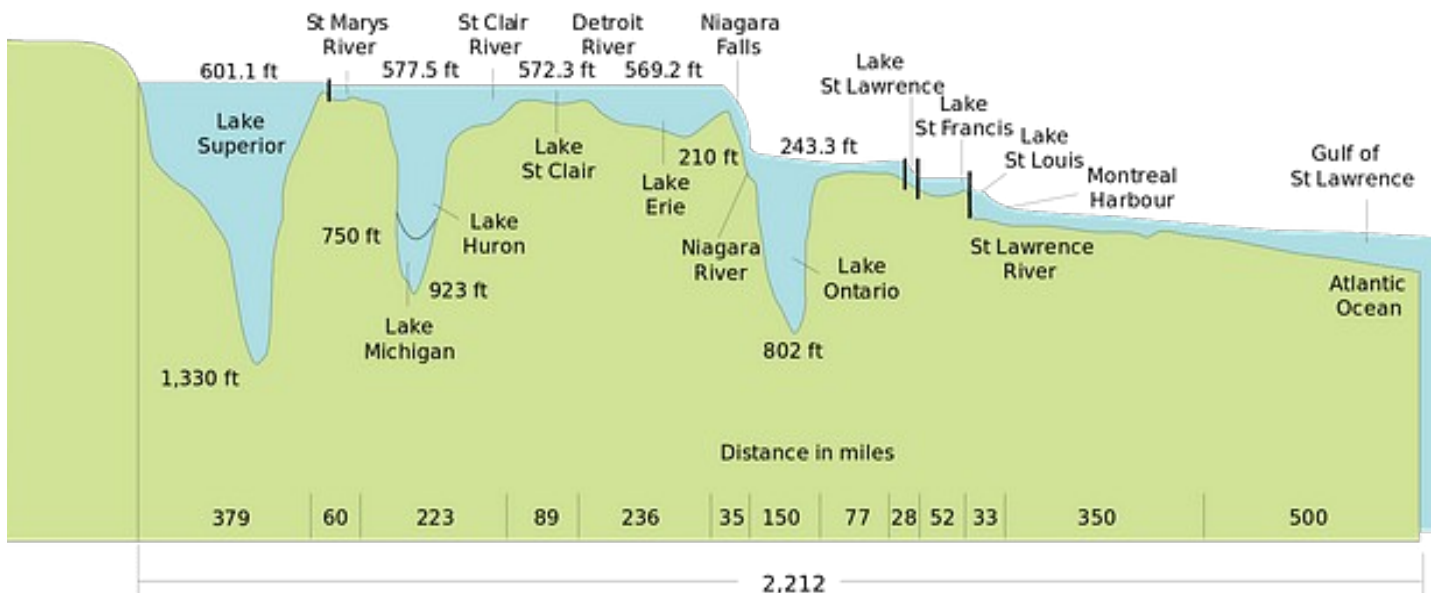
Copper Eye Agates(excerpted from **Copper Eye Agates**)

Eye patterns are the most notable structures within copper agates. Copper agate mineralization appears to encourage eye formation to a far greater degree than in the glacial Lake Superior agates found elsewhere.

List of Books in the Lake Superior Copper Agate Series:

1. Lake Superior Copper Agates, Introduction to the World's Most Spectacular Agates – in print
2. Copper Eye Agates, Images of the Amazing, Beautiful, Complex & Diverse – in print
3. Copper Agates from a Single Boulder – electronic pdf format only, for research only at this time
4. Copper Agates from the Wolverine Mine, – pending
5. Copper Agates from the C&H-21 Mine, “Calico Pigs” – pending
6. Copper Agates from the St. Louis Mine, – pending

Some Figures of the Five Lakes of the Great Lakes



By U.S. Army Corps of Engineers, Detroit District – Wilby, Robert L. (September 2011). “Adaptation: Wells of wisdom”. *Nature Climate Change* (1): 302. Nature Publishing Group. DOI:10.1038/nclimate1203. Retrieved on 19 January 2012 “Credit: US ARMY CORPS OF ENGINEERS, DETROIT DISTRICT”, Public Domain, [Wikimedia Commons](#)

Lake Superior:

Surface Area - 31,700 sq. mi.

Water Volume - 2,900 cu. mi.

Elevation - 600 ft

Depth - 483 ft. (avg) and 1,333 ft. (max)

Lake Huron:

Surface Area - 23,000 sq. mi.

Water Volume - 850 cu. mi.

Elevation - 577 ft.

Depth - 195 ft. (avg) and 748 ft. (max)

Lake Michigan:

Surface Area - 22,300 sq. mi.

Water Volume - 1,180 cu. mi.

Elevation - 577 ft.

Depth - 279 ft. (avg) and 925 ft. (max)

Lake Erie:

Surface Area - 9,910 sq. mi.

Water Volume - 116 cu. mi.

Elevation - 571 ft.

Depth - 62 ft. (avg) and 210 ft. (max)

Lake Ontario:

Surface Area - 7,340 sq. mi.

Water Volume - 393 cu. mi.

Elevation - 246 ft.

Depth - 283 ft. (avg) and 804 ft. (max)

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



*General Membership Meeting, with food provided
(bring your own beverage, plate, silverware and maybe a chair)*

MONDAY, September 21, 2020

6 pm at Settlers Park, Hartland, MI

from the LGMS shop, go about 1 ½ miles east on M59 to Clark Road

(just past Meijer), then north (make a Michigan left)

on Clark Road about ¾ mile to the park on the left.

Bring your own plate, silverware, beverage – plus, maybe a chair.

Livingston Gem and Mineral Society was established in 1970. The annual membership fee is \$50.00 for adults and \$25.00 for youth ages 13-17. 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