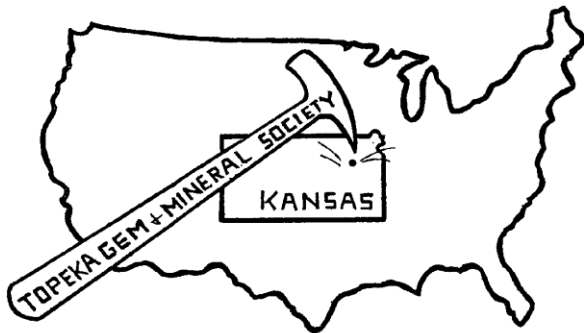


The Topeka Gem and Mineral Society, Inc.
 1934 SW 30th St. Topeka, KS 66611
 Rock2Plate@aol.com

THE GLACIAL DRIFTER



www.TopekaGMS or
 Facebook: Topeka Gem and Mineral Society Field Trips

The Topeka Gem & Mineral Society, Inc.
 Organized December 3, 1948

Member of Rocky Mountain Federation of
 Mineralogical Societies American Federation of
 Mineralogical Societies



The Glacial Drifter, Vol. 60, No. 4, Apr. 2017

The Purpose of the Topeka Gem & Mineral Society shall be exclusively educational and scientific: (1) to promote interest in geology and the lapidary arts; (2) to encourage the collection and display of rocks, gems, and minerals; (3) to encourage field trips and excursions of a geological, or lapidary nature; and (4) to encourage greater public interest and education in gems and minerals, cooperating with the established institutions in such matters.

Meetings: 4th Friday of each month, September to May, 7:30 pm, Stoffer Science Hall, Room 138, Washburn University.
 No meeting in December unless notified of a change. Picnic meetings are held June, July and August.

Dues: Individual, \$15.00; Couple, \$20.00; Junior (under 18 years of age), \$5.00. Dues are collected in December for the following year. Send dues to: **Millie Mowry, Treasurer, 1934 SW 30th St, Topeka, KS 66611.**

www.TopekaGMS.org

2017 OFFICERS AND CHAIRS

President	Mike Cote	220-3272	Cab of the Month	Debra Frantz/Fred Zeferjohn	862-8876
1 st Vice Pres.	Dave Dillon	272-7804	Field Trip Coord.	Leslie Hartman	380-6016
2 nd Vice Pres.	Carolyn Brady	233-8305	Publicity	TGMS Board	-----
Secretary	Cinda Kunkler	286-1790	Welcome/Registration	Russ & Rhonda Miller	272-6408
Treasurer	Millie Mowry	267-2849	Property	M. Cote/D. Dillon	220-3272
Directors	Harold Merrifield	633-9745	AFMS Scholarship	Cinda Kunkler	286-1790
	Chuck Curtis	286-1790	Editor/Exchange Editor	Millie Mowry	267-2849
	Brad Davenport	379-8700	Show Chairman	Harold Merrifield	633-9745
Historian	Deborah Scanland	273-3034	Show Dealer Chairman	Dave Dillon	272-7804
Federation Rep	Harold Merrifield	633-9745	Show Secretary	Cinda Kunkler	286-1790
Corporation Agent	Millie Mowry	267-2849	Jr. Rockhound Leader	Jason Schulz	640-6617
Librarian	open	-----	Show Case Coordinator	Francis Stockton	913-645-1131
Web Master	Jason Schulz	640-6617			

Area Code for all numbers is (785).

EXCHANGE BULLETINS WELCOME

For exchange newsletters contact the club via mailing address listed above or email at rock2plate@aol.com .
Permission is granted to reprint articles only if proper credit is given to the author, Glacial Drifter and the date.

Words from Our President

Jason Schultz will be giving a presentation on “Copper Mining in Michigan’s Keeweenau Peninsula,” at the general meeting in April. Be sure to be here for that.

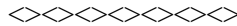
Mike and his Rock Stash



Classes will start on April 18th at the barn from 6:00 to 9:00. There will be no classes the month of July this year. Whenever we have bad weather on the night of classes there will be no classes. This will include heavy rains and any time there are storms in the area. On Holidays whenever there is a holiday during week of class there will no class that night. Also whenever Mike or I go on vacations there will be no classes. We would let class know whenever vacations would come up. I will bring this up in our next Washburn regular meeting to explain in more detail.
Hope to see everyone at the meeting! Dave-

Publicity

This will be the last call for T-shirts and Hats! If you want one NOW is the time to order it. The order will be sent in shortly. We are still short of the 50 t-shirt order, to keep the price down to \$15. Email or call Millie with your order.



New Members

**Dave Holthaus
Wendy Erdman
Shavonna Holmes**

Visitors are always WELCOME at our meetings!

Event Calendar

Apr. 2016

May 2017

1S	
2S	
3M	
4T	
5W	
6T	
7F	
8S	
9S	
10M	
11T	
12W	
13T	
14F	Board Meeting-7 pm Millie's
15S	
16S	EASTER SUNDAY
17M	
18T	**Barn Open see Dave's comments above
19W	
20T	Wire Wrap Class @ Millie's 1-3 p.m. Wire Wrap Class @ Millie's 7-9 p.m.
21F	Wichita Show
22S	Wichita Show
23S	Wichita Show
24M	
25T	
26W	
27T	Wire Wrap Class @ Millie's 1-3pm only Williams Magnet School 5:30-7pm
28F	General Mtg. Stauffer Hall Rm 138 7:30pm
29S	
30S	

1M	
2T	
3W	Rkhd Advisory Mtg 7 pm Millie's
4T	Jr Rkhd's @ Wire Wrap Class Millie's 1-3 p.m. only
5F	McPherson Gem Show 9-6, 710 W Woodside, McPherson, KS
6S	Bead Blast-KCI Expo Center 10-6 pm McPherson Gem Show 9-6,
7S	Bead Blast-KCI Expo Center 10-5 pm McPherson Gem Show 10:30-3
8M	
9T	
10W	
11T	Wire Wrap Class Millie's 1-3 p.m. Wire Wrap Class Millie's 7-9 p.m.
12F	Board Mtg 7 p.m. Millie's
13S	
14S	
15M	
16T	
17W	
18T	Wire Wrap Class Millie's 1-3 p.m 7-9 pm
19F	
20S	Flint Hills Discovery Center 10 a.m.-5 p.m.
21S	
22M	
23T	
24W	
25T	Wire Wrap Class @ Barbara's 1 pm Wire Wrap Class @ Millie's 7-9 p.m.
26F	
27S	
28S	
29M	
30T	
31W	

Any questions ask Millie at rock2plate@aol.com

Volunteering is the heart



beat of YOUR club

TOPEKA JUNIOR ROCKHOUNDS

<https://www.facebook.com/TopekaGMSJuniorRockhounds>

To register for the Junior Rockhounds or any of the classes, email: Leslie Hartman at: Hartman.12345@hotmail.com



Junior Rockhound Activity Center

We will have **the Activity Center open for Jr Rockhounds at 7:00**. We will meet at Washburn University 1700 SW College Ave., Topeka, KS in the Stoffer Science Hall Room 138.

JR ROCKHOUND CLASSES

(Some classrooms and dates may have changed so please watch for changes) ****Here are reminders of the next 2 months of classes: Topeka Shawnee CO Public Library sign in starting at 6:00pm and classes starting at 6:30pm.

1. **1st Thursday, April 6, 2017, Badge # 1 Rocks**—instructor Brad Davenport, Room #202 Anton.
2. **1st. Thursday, May 4, 2017, Badge #4 Lapidary Arts**-instructors Dave and Mike at the Barn 4910 Clark RD. Meriden, KS. We will not be at the library. Times will be the same. **ONLY 10 year olds and up can come to this class! MORE DETAILS TO COME!**
3. June 1st Fluorescent Minerals instructor Will Gilliland
4. July 6th Earth Processes instructor Brad Davenport

Serious Invitation

We need more instructors! This is an invitation for anyone who would like to teach a Jr Rockhound class to come and visit one of the classes and watch the instructors teach. After the class or a couple of classes you decide to still teach a class we would be happy to set you up with one of the instructors to become an intern-instructor.

Also, at our general meetings we have special speakers who come to talk about their field trips and experiences in the fossil field. We would like to carry this over to our Jr rockhound classes. If any of you would like to do a show-n-tell of any field trips, we would love for you to visit one of our classes just for up to 30 minutes. Please contact me for further details. Hartman.12345@hotmail.com . So far we have one request and we would love to have more.

Working Together WORKS!



FOSSIL OF THE MONTH FOR April:

Quartz is a chemical compound consisting of one part silicon and two parts oxygen. It is silicon dioxide (SiO₂). It is the most abundant mineral found at Earth's surface, and its unique properties make it one of the most useful natural substances. Rock crystal **quartz**: Transparent "rock crystal" quartz.

Quartz Mineral | Photos, Uses, Properties, Pictures - Geology.com geology.com/minerals/quartz.shtml

THERE'S GOLD IN YOUR BLOOD.

Human blood contains metals atoms including iron, chromium, manganese, zinc, lead, and copper. You may also be surprised to know that blood contains small amounts of gold. The human body has about 0.2 milligrams of gold that is mostly found in the blood.

Via S.C.R.I.B.E. Newsletter March-April 2017

Topeka Gem & Mineral Society, Inc.
General Meeting - March 24, 2017

Mike Cote' called the meeting to order. Rhonda Miller announced 35 members, 5 guests, and 1 joined, for the meeting, door prizes were awarded.

No minutes in drifter but will be either sent out or in the April drifter by Millie Mowry. No vote due to no minutes so became tabled.

Treasurer's report was given by Millie Mowry a motion was made by Russ Miller to accept the report, Chuck 2nd, motion carried. No bills were presented.

Correspondence: NONE

Committee reports: Harold Merrifield out of town. NONE

Publicity: Millie Mowry reported on the hats and t-shirts. Leslie presented 4 pictures on the TV for everyone to see the details Millie was talking about such as the wording, color, and design. These new shirts will be generic with no show dates. Orders are being taken by Millie.

Show Committee: Friday we need people to help pick up at the storage and unload at the show. We need help on Sunday to take it all back to storage. Sign-up sheets are available. There will be extra walkie talkies at the show and cameras. At this point there are 15 dealers and more on the way.

Historian—Deborah Scanland is having computer problems. She will have the information available as soon as the computer is fixed.

Field Trip— 1. Saturday March 25, 2017 at 10am Union Station Pompeii Exhibit.

2. APRIL 8th Olathe G&M group is inviting us to the Salt Plains National Wildlife Refuge (near Jet, OK) to collect hourglass selenite crystals.

3. Wichita Gem & Mineral Show @ Cessna Activity Center

4. Flint Hills Discovery Center Saturday, May 20th from 10am to 5pm.

5. Strataca is a salt mine museum in Hutchinson, Kansas.

6. June 10th garage sale again this year *We are able to go in to set up: DONATION DROP OFF DAY June 9, 2017 1pm to 5pm or contact Lesliee

Junior Rockhounds- Mike presented badges to several of the Jr Rockhounds. Lesliee handed out honor roll pins and 1 year to 4 year pins of Jr Rockhounds length of time in the program.

Webmaster: The next class 1st Thursday, April 6, 2017, Badge # 1 Rocks—instructor Brad Davenport, Room #202 Anton. ***DAVE AND MIKE COMES TO TALK* Jason Schulz there are 55 likes for Jr Rockhounds Facebook and TGMS Facebook has 196 likes which is up 6 likes from last week. The billboard is on both Facebook. Also check out the National Geographic website for all maps.

Old business: NONE

New Business: Donna Stockton wrote an article for the Rock & Gem magazine about our club.

With no further business, we adjourned to our program: Jr Rockhound presentations and Robert Schulz.

Fred Zeferjohn announced there were 9 member cabs, 8 member jewelry, 1 class jewelry. The Cab of the **Month contest winners are:** Member Cab: Mexican Picture Rock by Dave Dillon; Member Jewelry: Rhodochrosite Pendant by Millie Mowry; Class Jewelry; "Agate Pendant" by Lesliee Hartman.

Respectfully submitted by Lesliee Hartman for Cinda Kunkler, Secretary

Future Field Trips

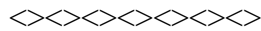
Wichita Gem & Mineral Show @ Cessna Activity Center 2744 George Washington Blvd
Friday April 21st 9am-6pm ,Saturday April 22nd 10am-6pm (Field Trip for TGMS & JR Rockhounds), Sunday April 23rd 10am-5pm Discount door tickets available.

1. Flint Hills Discovery Center 315 S 3rd St, Manhattan, KS 66502. Saturday, May 20th from 10am to 5pm. (Jr Rockhounds and TGMS members who work with name badge first can get in free. If you don't have a name badge please come to see me there so I can get you in after you work.) **We will need your help!!!!**

2. Strataca is a salt mine museum in Hutchinson, Kansas. It was previously known as the Kansas Underground Salt Museum. 3650 E Ave G, Hutchinson, KS 67501. **Saturday, May 27th. We will meet at 10AM.** We will be part of the Underground tour of the museum and Dark Ride (30 minutes) which takes up to 2 hours together.

- Adults original price \$19.00 we pay **\$12.00 each**
- Children Ages 4-12 Ages 0-3 not allowed underground original price \$12.50 we pay **\$10.00 each**

Things to know: * Train Ride is not handicap accessible *No Children under the age of 4 are allowed underground. **We must have 12 children and 8 adults to have this discount and any over this will still have the discount. Also, I will have to pay ahead so I will need to be paid back by May 27th.**



Meeting of the Topeka Gem and Mineral Society – 2/24/17

Mike Cote` called the meeting to order. Jason Schulz announced 30 members are present, no guests tonight, door prizes were awarded.

The minutes from the November meeting were printed in The Drifter. December was Christmas dinner. Dave Dillon made a motion and Harold Merrifield 2nd to accept as printed.

Treasurer's report was given by Millie Mowry a motion was made by Dave to accept the report, Chuck 2nd, motion carried. No bills were presented. Millie is still accepting dues; the new directory will be printed after the 1st of March.

Correspondence: AFMS Scholarship letters were received, thanking our club for the donations from the Scholarship Table and sale of grab bags from the show.

Committee reports:

Publicity: Millie reported we have 4 sights secured for signs advertising our show. She & Lesliee will be looking at hats and T-shirts. Reminder, we are going to the Children's Discovery Center tomorrow.

Historian: not here.

Show – Harold Merrifield did not have anything to report. Dave Dillon has confirmation from 12 dealers, with 5 more on the way. He sent out 24 contracts, hoping for 21. Rock Creations had a major stroke, so he won't be coming. We are looking for volunteers at the show to help with security, and moving items from the small storage unit to the big one before August. We will need help to bring things from the lockers to the show and back again afterward. The Expo Centre will do things different this year in regards to security. Millie let them know about all the problems we had last year. Sign-up sheets are available to get the working time that you want – be sure to sign up soon!

Field Trip – Lesliee announced her list of them through April, including the Children's Discovery Center, Kansas City show, Pompeii exhibit, trip to Salt Plains in Jet OK and the Wichita show.

Junior Rockhounds – Mike presented badges to several of the Juniors. Lesliee said the next class is March 1, Brad Davenport - Minerals.

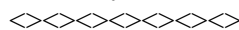
Jason Schulz: Nothing new on the website. He also said there are 52 likes on Facebook for Juniors and 191 for TGMS.

New Business: Dave reported the Officers/Chairpersons are working on notebooks for each position and we hope to finalize them soon. This will enable us to show anyone what is required to fill the position. Teachers for classes are providing an outline of what they have done based on the AFMS Jr Rockhound book.

With no further business, we adjourned to our program: Jim Blakely "Tour of Colorado".

Dave announced the Cab of the Month contest winners are: Member Cab Brad Davenport – Picture Jasper; Member Jewelry Millie Mowry Wire Wrapped Sonora Sunset Earrings.

Respectfully submitted by Cinda Kunkler, Secretary



Blood Lapis?

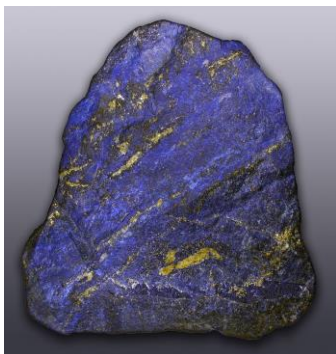
by Jim Brace-Thompson

For those with a sensitive social conscience, "blood diamonds" became verboten many years ago. Also called "conflict diamonds," these are stones that were often mined by the equivalent of slave labor and sold into the market by warlords in Africa to support their nefarious causes. The international diamond trade came up with ways to supposedly identify and track diamonds mined

from more legitimate sources to provide that bride-to-be with a certifiably "clean" diamond, and thus a clean conscience. Now, as reported June 7 by The Times of London, we have a whole new gemstone to create angst among those of us who are into lapidary arts.

A corruption watchdog group called Global Witness reports that terrorist groups including the Taliban now earn as much as \$20 million a year by illegally mining and selling lapis lazuli from the mountains of Afghanistan. This is supposedly providing them with their second biggest source of income after drugs! As a result, there's now a move to classify lapis as a "conflict mineral." Just when you thought it was safe to cut-and-polish again.

Via CMS Tumbler 4/17, Rockhound Rambling, 7/16, The Clackamette Gem April 2017



The Petoskey Stone - Michigan State Stone

Some 350 million years ago, in the Devonian period, corals formed great reefs in the shallow seas that covered what is now Michigan. Corals, which are soft-bodied animals, deposit calcium-containing tubes around themselves. In colony forming corals, the tubes are clustered together.

Petoskey stones – found along the shorelines in the Northern Lower Peninsula – are the fossils of an extinct coral, called Hexagonaria for the six-sided shapes their tubes often assumed when squeezed closely against their neighbors.

“What has happened in the case of the Petoskey stone is that somehow one of these large coral heads has become broken up (perhaps by glaciers) and then the wave action....has rounded these fragments into very attractive pieces of rock,” said Bret Beall, a doctoral candidate in paleontology at the University of Michigan.

Do Petoskey stones have any scientific value?

“They are fairly common, so any particular specimen doesn’t necessarily have that much scientific value,” Beall said, “But there are a number of different questions about the past that Petoskey stones can address.”

Paleontologists are interested, for example, in comparing the variability in ancient forms of coral with the variety found in modern ones, he said. “Others have used the presence of corals as far as north as Michigan to suggest that the ‘ancient’ environment was much warmer and more equable than it is now.”

Source: repeat from the Glacial Drifter 2/1988



Unpolished Petoskey stone with cm scale
Pictures from Wikipedia



Close-up view, field of view ~3.6 cm wide



A polished Petoskey stone



Jade?

Lapidarist and jewelers should constantly attempt to call gemstones and rough material by their correct names. Jade has as many other stones named after it, as any material. The confusion as to what jade is has been compounded by this practice.

Korean Jade is Bowenite, a hard variety of serpentine.

Transvaal Jade is a massive variety of green grossular garnet.

Amazon Jade is aventurine.

Indian Jade is aventurine.

American Jade is a rock – a mixture of idocrase and grossular.

Australian Jade is Chrysophase.

Colorado Jade is green microcline.

Jasper Jade is green jasper.

Flukien, Manchurian, and Honan Jades are all soapstone.

Mexican Jade is green dyed marble or calcite.

Oregon Jade is dark green jasper.

Silver Peak Jade is malachite.

No wonder beginners are bewildered by the number of types of stone.

(Source: reprint from The Glacial Drifter May 1990)

Bench Tips by Brad

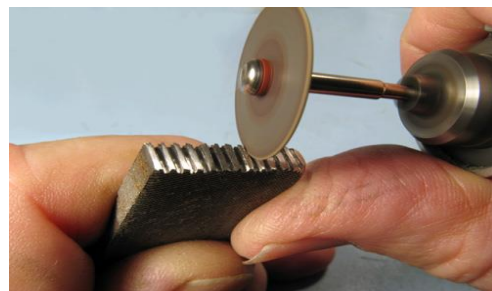
See all Brad's jewelry books at
[Amazon.com/author/bradfordsmith](https://www.amazon.com/author/bradfordsmith)

CUTOFF WHEELS

Cutoff wheels are inexpensive and do a great job cutting or shaping steel. You can use them to sharpen tool points, cut piano wire to length, make slots, and sharpen worn drills. Other uses include modifying pliers and making your own design stamps.

My preference is the one inch diameter size. Be sure to hold the wheel firmly so nothing moves to break the disk, and definitely wear your safety glasses. Those are little flakes of steel coming off the disk.

BTW- Cutoff wheels are poor at soft metals like copper, silver and gold. Soft metals clog up the cutting edges.



DEBURRING JUMP RINGS

When cutting jump rings from large gauge wire for chain making, you'll notice the saw leaves a small burr. An easy way to remove these is to tumble the rings with some fine-cut pyramids. It's best not to tumble for a long period with the pyramids because it will remove the polished finish from the wire.

No tumbler, no problem. You don't actually need a tumbler. I just put a handful of pyramids in a wide mouth plastic jar and shake for a bit. You can find these pyramids in the tumble finishing section of most jewelry supply catalogs.



GREAT TRUTHS THAT ADULTS HAVE LEARNED:

- 1) Raising teenagers is like nailing jelly to a tree.
- 2) Wrinkles don't hurt.
- 3) Families are like fudge...mostly sweet, with a few nuts.
- 4) Today's mighty oak is just yesterday's nut that held its ground.
- 5) Laughing is good exercise. It's like jogging on the inside.
- 6) Middle age is when you choose your cereal for the fiber, not the toy.



WORKING TOGETHER WORKS