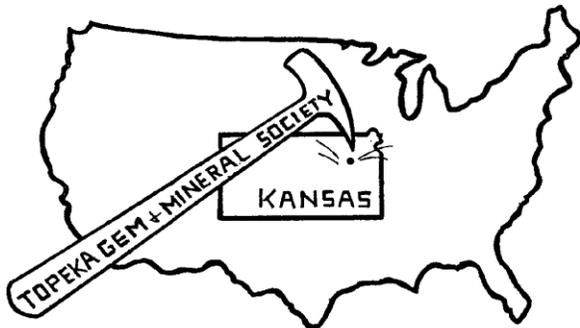


The Topeka Gem and Mineral Society, Inc.
 1934 SW 30th St. Topeka, KS 66611
 Rock2Plate@aol.com

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. 1, Jan. 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.**

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	Donna Stockton	913-645-7677
Secretary	Cinda Kunkler	286-1790	Welcome/Registration	Jason Schulz	640-6617
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.

Topeka Gem and Mineral Society have a new website:
www.TopekaGMS.org Come and check us out!

Words from Our President

Membership Dues Are Due! That is the word this month. Be sure to get your dues in to Millie as soon as possible. We do not want to lose any member. I hope that everyone enjoyed the Annual Christmas Dinner at McFarland's as there were 31 people attending, with plenty of games and prizes. Lesliee did an outstanding job.

With the new year we are adding a couple of new committees and are looking for volunteers to work them. When asked I hope that you will volunteer to serve to make our club grow.

President Mike and his Rock Stash!

Vice President

Nothing new to report at this time. Hope everyone shows up at our January meeting and attend the silent auction! See you all there!
Dave

Visitors are always WELCOME at our meetings!

How I Got into Geology

By Zachary Smith

A long time ago, I did not know what geology was. Most of the time, I did not know what the rocks I found were called, all I saw were some cool looking rocks. I even thought that they were worth some money, since they looked so cool. But it was four years later that my entire view on rocks and minerals would change.

It all started in 2010 when me and my dad went to Forbes Field golf course to go golfing. The next day, I wanted to go back and practice because they had a putting course. I only lived a few minutes away so I got my golfing bag and I walked to the golf course. When I was almost there, I noticed I forgot my golf balls, so I went into a nearby drainage ditch to look for some golf balls. After I found about four golf balls, I noticed out of the corner of my eye a white and black rock that looked like cow hide. I went over to it and I cleaned it off in the water that was flowing in the ditch. It was bleach white with black dots all over it. I kept looking for them and found a yellow looking clear rock. I found more rocks and forgot all about the golf course, then I went straight home. I told my mom about the cool rocks I found, and from then on, I kept going back to look for rocks, until I moved out of that neighborhood.

I moved to Burlingame, a very small town forty-five minutes from Topeka. After a few years living in Burlingame, my mom showed me a group called the Jr. Rockhounds. I decided to go to a class at the church because of how much I loved rocks. The class was on earth processes, and there was only one more kid at the class. I showed him my rock I had collected, and he showed me some of his. After the class was over, I decided I would keep going to the Jr. Rockhounds meeting. I get to do some really cool stuff with the Jr. Rockhounds, like panning for gold, and volunteering at the children's museum in Topeka. Everyone at the Jr. Rockhounds has been a great help and I have had a lot of fun over the years I have been at the Jr. Rockhounds. I plan to never leave the Jr. Rockhounds as long as I live.

Volunteering is the heart



beat of YOUR club

Event Calendar

Jan. 2016

FEB. 2017

1S	
2M	
3T	
4W	
5T	Jr Rockhound Mtg Rm 202 Anton
6F	
7S	
8S	
9M	
10T	
11W	
12T	Wire Wrap Class @ Millie's 1-3 p.m.
13F	
14S	
15S	
16M	
17T	
18W	
19T	Wire Wrap Class @ Millie's 1-3 p.m.
20F	Board Meeting- Millie's 7 p. m.
21S	
22S	
23M	
24T	
25W	
26T	Wire Wrap Class @ Millie's 1-3 p.m.
27F	General Mtg. Stauffer Hall Rm 138 7:30 p.m.
28S	
29S	
30M	
31T	

1W	
2T	Wire Wrap Class @ Millie's 1-3 p.m.
3F	
4S	
5S	
6M	
7T	Publicity Mtg St. Peter's Church 7 p.m.
8W	
9T	Wire Wrap Class @ Millie's 1-3 p.m. Jr Rockhound Mtg Rm 101B Marvin Aud.
10F	Board Meeting- Millie's 7 p. m.
11S	
12S	
13M	
14T	
15W	
16T	Wire Wrap Class @ Millie's 1-3 p.m.
17F	
18S	
19S	
20M	
21T	
22W	
23T	Wire Wrap Class @ Millie's 1-3 p.m.
24F	General Mtg. Stauffer Hall Rm 138 7:30 p.m.
25S	KS Discovery Center 10am -5pm see Jr Rockhounds for info.
26S	
27M	
28T	

Any questions ask Millie at rock2plate@aol.com

“Of Quartz It is” Publicity News

This past year was such a busy and exciting year for the Publicity committee, even though both Millie and I have been fighting Orthopedic issues. Neither of us knew if we would make it through the show, but **WE DID IT!** Saturday, October 15, 2016, we doubled the paid attendance for the entire weekend attendance in 2015 and 2014. So, something worked!

Billboards, The Cardwells, T-shirts and Red Couch appearance seemed the most effective parts of our campaign. Poster distribution, not so much, from what I could tell. But, let's not forget the Williams Magnet School and home schooling appearances. We had the opportunity to talk to 600 kids at a time. Cost effective? Probably not. If we can interest one or two kids, and they see adults playing with rocks, who knows what could happen, friendships started....

We worked hard to get people in the Topeka community to donate to our 2016 publicity campaign. Thank you Jo Ussery, May Springer, Lesliee Hartman, Cinda, Deb, Carolyn, Annie, Francis, Millie and others of the committee. Do you know that we had Kansas City companies that gladly wanted and did give us money and goods? The companies in Topeka know who we are now because we knocked on their doors. In some cases the answer was “no” to cash but more than willing to give cases and cases of product. Their donations were \$900.00 plus in product from each company in potato chips, measuring cups and toothbrushes. (we should have the cleanest teeth and cleanest rocks in the state) Some of us even bent a few toothbrush handles into bracelets and sold a few. That was a test run for us. Thank you Pinterest.com.

We turned product into cash by silent auctioning of baskets.

Because Francis and I have been down, off our feet, I have done nearly nothing. I need motivation, big time!!!! I hope you will help me with that. How can you help?

1. Ask your boss to be a donor to our campaign or any other things we might want to do.
2. Come to (A) Publicity meeting. Try us out just once. We serve refreshments and everyone gets a chance to talk as long as you share with the group. Meetings are at 7 pm. At St. Peter's United Methodist Church, 3737 S.W. 35th St. at NEW 75 Highway and 35th St. Children are welcome. Next meeting has to be re-scheduled so be looking for an E-mail in the near future.
3. Several members would like us to design a t-shirt that is more generic than the dated show shirt. Some of our artistically clever members could design that shirt and maybe the Show Shirt. Then, wear them. This gives you a chance to tell people about Topeka Gem and Mineral Society, a non-profit organization, without you having to approach the public.
4. Be a member of the calling committee, when needed.
5. Be a coordinator of the garage/bake sale to be in the Spring this time. We made several hundred dollars with very little planning and cost to us.
6. If you are a junior rockhound, offer to be a representative on our Publicity committee.
7. Produce and distribute posters.
8. Need help with disseminating information on social media. Lesliee does fantastic job but this could be a sub-committee of its own.
9. Cook and bake if we need you to.
10. There must be a 10th thing you could do. Please come up with number 10 and share it with the committee.

These are just a few ways that we can work together to make the October 2017 Show, “OF QUARTZ IT IS,” the best show ever.

Donna Stockton

TOPEKA JUNIOR ROCKHOUNDS

The Facebook page for the Topeka Junior Rockhounds also has a new website page. Take a look and place a 'LIKE' on it.

<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. *Side note for the Jr Rockhounds*---**For the March General meeting Jr Rockhounds will need to do a presentation.**

(Some classrooms and dates may have changed so please watch for changes) ****Here are reminders of the next 3 months of classes: Topeka Shawnee CO Public Library sign in starting at 6:00pm and classes starting at 6:30pm.

1. **Second Thursday, February 9th, Badge # 17 Special Effects – Instructor Barbara Smith, Room # 101B Marvin Auditorium.**
2. **1st Wednesday, March 1, 2017, Badge # 1 Minerals—instructor Brad Davenport, Room #202 Anton. (For the March General meeting Jr Rockhounds will need to do a presentation DETAILS COMING SOON)**
3. **1st Thursday, April 6, 2017, Badge # 1 Rocks—instructor Brad Davenport, Room #202 Anton.**

Junior Rockhounds you can always bring a new friend to class who are interested in rocks and minerals. You and your friend will get a surprise.



FOSSIL OF THE MONTH FOR JANUARY:



Sand sharks, also known as sand tiger sharks, grey nurse sharks or ragged tooth sharks, are

mackerel sharks of the family Odontaspidae. They are found worldwide in temperate and tropical waters. The body tends to be brown with dark markings in the upper half. These markings disappear as they mature. Their needle-like teeth are highly adapted for impaling fish, their main prey. Their teeth are long, narrow, and very sharp with smooth edges, with one and on occasion two smaller cusplets on either side. Sand sharks have a large second dorsal fin. The sand shark can grow up to 3.2 m (10 ft) long, and most adults can weigh around 200 kg (440 lb). The average lifespan of both sexes is only about 7 years, though they may live longer in captivity. Sand sharks are not known to attack humans. If a person were to provoke a sand shark, it may retaliate defensively. Sand sharks are generally not aggressive but will harass divers who are spear fishing. In North America wreck divers regularly visit the World War II shipwrecks to dive with the Sand Tiger sharks that make the wrecks their home.

JR ROCKHOUND OF THE YEAR 2016

Zach for going the extra mile of doing homework on time, asking questions and answering questions, taking the special field trip this past summer and reporting to the TGMS group general meeting, and so much more. **Runners up: Isaac** for helping with the students and instructors and helping in the October show. **Andrew** for answering questions, helping with the general meeting with the silly holiday moments, doing his homework, and so much more. **Ian** for helping in the show and doing so well with the jewelry and different shaped rocks for the 4-H and making us all laugh. **Robert** for helping in the show and making the neat rock tree and different shaped rocks for the 4-H and making us all laugh.

ROCKS, FOSSILS, MINERALS of the MONTH

It has been two months since starting the rock, fossil, or mineral of the month for the Jr Rockhounds to help them build their collection (Badge #5) and fill up a display case (Badge #6.4) at the next 2017 show. The 2017 show, if any Jr Rockhounds does not have enough rocks, fossils, or minerals for a display case, that will be ok. We can come together to share a display case and you will still earn credit for Badge #6.4. This will be a learning experience for each Jr Rockhound to improve on their skills for 2018 show.

We are still in need of rocks, minerals, and/or fossils for the Jr Rockhounds. Your donations will be greatly appreciated. Thank you in advance!



FIELD TRIP



This next field trip will only be for the Jr Rockhounds and for adults to stay inside due to the cold weather. This field trip we will be **Saturday, January 28, 2017 at 10:00am.** We will be going to **Westlake Ace Hardware 5001 SW 29th St. Topeka, KS 66614.** This field trip will go towards Badge # 2 Earth Resources, 2.5 Field Trip to a hardware store and Badge # 8 Field Trip, 8.5 Indoor Field Trip and 8.1 Code of Ethics. We will be looking and listing many products and what the products are made of. Watch your emails for updates on cancellations of the field trip due to the weather change, we will cancel when the weather is bad. Email me if you can make it. hartman.12345@hotmail.com.

Future Field Trips

FEBRUARY

1. Kansas Children's Discovery Center 4400 SW 10th Ave Topeka, KS
Saturday February 25th 10am-5pm (Field Trip for TGMS & JR Rockhounds)

MARCH

1. Kansas City Gem & Mineral Show KCI Expo Center 11730 NW Ambassador Dr
Friday March 10th 10am-8pm; Saturday March 11th 10am-7pm (Field Trip for TGMS & JR Rockhounds)
Sunday March 12th 10am-5pm

2. Saturday March 25, 2017 Field Trip TBA

APRIL

1. 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

HUMOR

What comes once in a minute, once in a month, but never in a day? The letter m.

Why couldn't the bell keep a secret? Because it always tolled.

What sits at the bottom of the ocean and shudders? A nervous wreck!

A Burning Question

By: Marjorie Bush



A club member asked me the other night about something I thought could not be possible..... "Does Tiger's Eye contain Asbestos?" I never have heard of this. The curse of being an Educator kicked in. I couldn't help but question it

Is there Asbestos in the stone of Tiger Eye?

Is this stone dangerous?

Did I not know this about one of my VERY favorite stones?

Non stop questions filled my head about this concept. The topic continued to bother me on the way home from the club meeting and even kept me up for nights. I had to just

research it and find out the TRUE answer to this question and I needed to get to the bottom of it.

This is what I learned after researching this topic.....

Tiger's Eye is a durable quartz. The Tiger Eye stone is created after a transformation. It begins life as a fibrous blue mineral called, " Crocidolite". Crocidolite is comprised of raw iron and sodium. The transformation creation process of Tiger's Eye begins when quartz becomes embed-ded between the fibers of Crocidolite. This process then results in one of two gemstones: A blue stone called Hawk's Eye, or the golden brown stone called Tiger's Eye. Asbestos is a fibrous mineral that is made up of: Chrysotile, Crocidolite. During the transformational creation process of the stone Tiger Eye and Hawk's Eye, the Asbestos mineral Chrysotile, Crocidolite is completely dis-solved (Heaney, Peter J. and Fisher, Donald M.)

The Crocidolite fibers are fully replaced by quartz and the hydrous iron oxide goethite, FeOOH, the latter being responsible for the yellow-brown color. The former fibrous structure is pre-served in the orientation of the small columnar quartz crystals that grows perpendicular to the walls of the vein in transformation. Due to its fibrous structure, tiger's eye has a somewhat splintery frac-tured composition similar to wood. The quartz itself takes on the fibrous formations and the blue color of crocidolite. This creates the parallel lines within the gem which gives it that ever shifting play of light and movement, the stone is so very loved for. This is also known as *Chatoyancy*. It's that gleam that rolls across this stones surface. Similar to that of a cat's eye or like the eyes of a cat.

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(Source: The Clackamette Gem Jan 2017)

Self Portrait of a Rockhound



(Via: Wasatch News and Views
12/16; The Clackamette Gem
Jan 2017)

WHAT IS TEREDO PETRIFIED WOOD?

by Jerry Buklis



Teredo Petrified Wood is the official fossil of North Dakota as of March 15, 1967. However, as stated, it is a misnomer. In reality it is a piece of petrified wood with holes bored by a worm-like mollusk and the round holes are filled with quartz, chalcedony, opal, sand, etc. That is your Teredo Petrified Wood.

More on the shipworm, the common name of the mollusk - it lines its home with a secreted calcium compound; has two small shells in front of its head which are used to bore holes by rocking and rasping; has two pallets in the tail end which are used to seal the entrance to the living quarters; has two

small siphons at the tail end to control the intake of water and expelling same, with what have you. Remember, the wood is under water.

Each shipworm eats and excavates its tunnel home and grows in length until maturity, but should its home be punctured, it will die because of respiratory failure. The adult female secretes millions of eggs in a year.

There are several species of mollusks involved: Teredo, Bankia, Psiloteredo, Lyrodus, Nausitora, Nototerodo and related forms but Teredo takes all the credit. Today they are said to destroy the unprotected wood in water but a long time ago they were on the cleanup detail.

Teredo Petrified Wood is a desirable collector's item especially if the fillings are of gem quality.

What is meant by worms in wood and/or petrified wood.

The use of the word "worms" in this case is a misnomer since actually it is larva which bores holes and some species nest in the wood. First we have the beetle which lays an egg or eggs, depending on the species. When the eggs hatch we have a baby larva which upon maturity pupates and the result is a beetle. There are more than a thousand species of the insects involved.

The difference between a beetle and a fly: the beetle has teeth and the fly does not. The larva has a hard plate with hooks in front of its face and bores by moving its head up and down.

Petrified wood with worm holes should be more desirable because it tells you more of the past.

(from; The Grindings, via EUREKA NEWS 1/86, reprinted from the Glacial Drifter April 1987)

Tumbling & Grit

The following is an easy way to arrive at ounces and is based on standard measuring spoons. Start out with a rounded spoonful and level it off with the blade of a straight edged knife.

Course grit	1 oz. = 4 level teaspoons
Medium grit	1 oz. = 4 level teaspoons
Fine grit	1 oz. = 4 level teaspoons
Polish Powder	1 oz. = 8 level teaspoons

Water should be 1 inch below the level of rocks.

(reprinted from the Drifter March 1984)