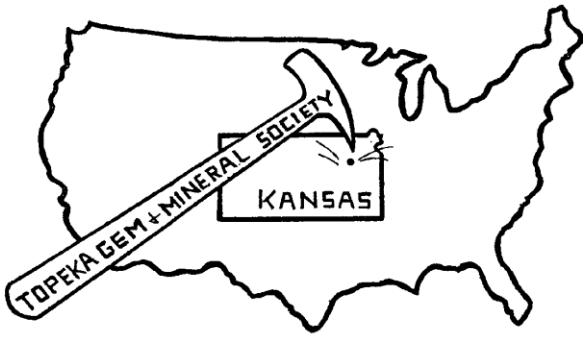
The Topeka Gem and Mineral Society, Inc.
1934 SW 30th St. Topeka, KS 66611
Rock2Plate@aol.com

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. 62, No. 03,
March 2019

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

2019 OFFICERS AND CHAIRS

President	Mike Cote	220-3272
1st Vice Pres.	Dave Dillon	272-7804
2nd Vice Pres.	Cinda Kunkler	286-1790
Secretary	Carolyn Brady	233-8305
Treasurer	Millie Mowry	267-2849
Directors	Brad Davenport	379-8700
	Will Gilliland	286-0905
	Chuck Curtis	286-1790
Historian	Open	
Federation Rep	Harold Merrifield	633-9745
Corporation Agent	Millie Mowry	267-2849
Librarian	Millie Mowry	267-2849
Web Master	Jason Schulz	640-6617

Cab of the Month	Debra Frantz/Fred Zeferjohn	862-8876
Field Trip Coord.	Will Gilliland	286-0905
Publicity	TGMS Board	
Welcome/Registration	Harold Merrifield	633-9745
Property	M. Cote/D. Dillon	220-3272
AFMS Scholarship	Cinda Kunkler	286-1790
Editor/Exchange Editor	Millie Mowry	267-2849
Show Chairman	Dave Dillon	272-7804
Show Dealer Chairman	Dave Dillon	272-7804
Show Secretary	Cinda Kunkler	286-1790
Jr. Rockhound Leader	Jason Schulz	640-6617
Show Case Coordinator	Cinda Kunkler	286-1790

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 .

Words from Our Top Rocks!

Hopefully the snow has finally pasted us by and Spring will Spring! We are preparing a questionnaire that will be sent out shortly and we hope that all of you will answer it and send it right back. We need your feedback.

As soon as the weather gets warmer so that we can get into the Barn and get the equipment serviced and the additional Genie that was purchased set up with new wheels and checked out, we will let everyone know just when lessons will start again. Until then, Millie is still having wire wrap lessons at her house on Tuesday night and Thursday afternoons.

Mike Cote` & Dave Dillon

We need your **BEST CHOICE UPC Labels** --- Bring them to the monthly meeting, and give them to Cinda Kunkler.

Confusing Rockhound Definitions

BARIUM – What to do with your clothes after encountering a skunk.

CORAL – A place to keep horses.

FIELD TRIP – An impossible trek to an inaccessible place for nonexistent specimens.

MICROMOUNT – A very small horse.

ROCKHOUND – A person who scolds his little boy for picking up a piece of candy that was dropped in the dirt, but will lick a piece of agate to see if it will polish.

(Source:The Mtn Gem Feb 2019)

Program for the March 22, 2019 meeting:

TBA

Cinda Kunkler. 2nd Vice-President.

TGMS Event Calendar

MAR 2019

1F	
2S	
3S	
4M	
5T	
6W	
7T	
8F	
9S	
10S	
11M	
12T	Wire Wrap Class @ Millie's 6-9p.m.
13W	
14T	Wire Wrap Class @ Millie's 1-3 p.m.
15F	
16S	
17S	
18M	
19T	Wire Wrap Class @ Millie's 6-9p.m.
20W	
21T	Wire Wrap Class @ Millie's 1-3 p.m.
22F	General Meeting @ Washburn TGMS 7:30 pm, rm 138 Stauffer Science Hall, program TBD.
23S	
24S	
25M	
26T	Wire Wrap Class @ Millie's 6-9p.m.
27W	
28T	Wire Wrap Class @ Millie's 1-3 p.m.
29F	
30S	
31S	

If you are interested in Wire Wrap Classes, contact Millie, 267-2849 or **rock2plate@aol.com**

APR 2019

1M	
2T	Wire Wrap Class @ Millie's 6-9 PM
3W	
4T	TGMS Jr RHD's, Marvin Auditorium 101C 6 P.M. Wire Wrap Class @ Millie;'s 1-3 p.m.
5F	
6S	Topeka JR RHD joint Field Trip, see page 4 Lincoln, NE Show 84th & Havelock
7S	Lincoln, NE Show 84th & Havelock
8M	
9T	Wire Wrap Class @ Millie's 6-9 PM
10W	
11T	Wire Wrap Class @ Millie's 1-3 p.m.
12F	BOARD & SHOW MTG 7 PM MILLIE'S
13S	
14S	
15M	
16T	Wire Wrap Class @ Millie's 6-9 PM
17W	
18T	Wire Wrap Class @ Millie's 1-3 p.m.
19F	
20S	
21S	EASTER SUNDAY
22M	
23T	Wire Wrap Class @ Millie's 6-9 PM
24W	
25T	Wire Wrap Class @ Millie's 1-3 p.m.
26F	General Meeting @ Washburn TGMS 7:30 pm, rm 138 Stauffer Science Hall, program TBD. Wichita Show---coupon on page 6
27S	Wichita Show---coupon on page 6
28S	Wichita Show
29M	
30T	Wire Wrap Class @ Millie's 6-9 PM

Check out the calendar on our web site
www.TopekaGMS.org

If you are interested in Wire Wrap Classes, contact Millie, 267-2849 or rock2plate@aol.com

JR ROCKHOUND Classes & Reminders

Here are reminders of the next few months of classes: Topeka Shawnee CO Public Library sign in starting at 6:00pm and classes starting at 6:30pm. 1st Thursday of each month…

https://www.facebook.com/TopekaGMSJuniorRockhounds
To register for the Junior Rockhounds or any of the classes, email:
Jason Schulz at: Fleetcommander@att.net

- April 4, 2019, Earth Processes 101C, Marvin Auditorium with Brad Davenport
- April 6, 2019, joint Field Trip---see below
- May 2, 2019, Special Effects, 101A, Marvin Auditorium,

Reminder: If you want to earn the patches from the classes that you have attended you need to turn in your homework assignments.

New: Trading Cards will be given to each Junior Rockhound for the following:

- ✓ For attending each Class meeting.
- ✓ For turning in homework assignments in a timely manner.
- ✓ For attending the general meetings.
- ✓ For helping out at the show or any other TGMS demonstration.
- ✓ For putting on a program for the general meeting.

Once you have collected 9 Trading Cards you will be given a special gift, and each time you have collected an additional 9 Trading Cards another gift will be given. These cards will be fun to collect and they are very educational. You will learn about all the rocks, minerals and fossils in the collection. Let's have some fun collecting!

Junior Rockhound's and Parents, please watch for monthly emails from Brad Davenport as he will be sending out reminders of the up-coming class and any other important information you may need. His email is Brad7254@gmail.com.

Rockhounds field trip

The weather in the first part of this year has not been good for a field trip. At this time we are looking at Saturday, April 6, for a joint field trip with the 4-H geology group. This will be a half day trip in the Topeka area. We are planning on about two stops to collect fossils and rocks, with a third stop in glacial material for a wide variety of rocks and minerals. More information on the trip will be sent out closer to the date. Will & Pat Gilliland

This was a busy month for the Rockhounds. February's scheduled Dinosaurs class was cancelled because of an incoming winter storm, so it became the presentation for our regular meeting on the 22nd. A few Juniors braved the later session, and we all got to hear a good lesson from Pat Gilliland (with help from her faithful sidekick, (Will). A few adventurous souls made dinosaur impressions of their own!

Fortunately, March's class saw better weather. Pat put on her second class in as many months, talking about fossils. A few old hands came out, along with two Juniors, one visitor and a new member!

Next month's class covers Earth Processes, and stars Brad Davenport. Signup starts around 6:00pm, and class starts at 6:30. We'll be in Marvin 101C at the Topeka & Shawnee County Public Library.

Jason Schulz





Dinosaur Class for the TGMS Club Meeting and the Topeka Junior Rockhounds Meeting in February, 2019

Washburn University's large galena specimen

By: William Gilliland, TGMS

When Stoffer Hall was being remodeled in 2007, a more than 600-pound galena (lead ore) specimen was moved from storage. In the process the specimen split into two parts, the larger of which is still over 400-pounds. These two specimens have been displayed in Stoffer Hall. None of the current faculty of the Department of Physics & Astronomy had information about how Washburn University acquired the large mass of galena.

In February of this year I contacted Martha Imparato, Special Collections Librarian, Mabee Library, to see if the library had any information about mineral collections at Washburn University. She provided me with a copy of "The Kansas Mineral Exhibit at St. Louis", by G. P. Grimaley, from The Transactions of The Kansas Academy of Science, Vol. 19, pp. 129-137 (1904). This article indicated that a 700-pound galena specimen was a part of the Kansas mineral industry display at the St. Louis Louisiana Purchase Exposition, where it received a special award. From another article it was learned that the specimen came from the Galena, Kansas lead mining area and had been known as the "Carney Specimen".

Several museums, including the National Museum, tried to acquire the mineral exhibit after the Exposition closed, but it was returned to Topeka and installed in the Kansas Academy of Science Museum in the State House. At some time after the museum in the State House was disbanded the galena specimen was apparently moved to Washburn University.

The two galena specimens have been displayed at Stoffer Hall since the completion of the remodeling project. They have also been displayed at the Topeka Gem &Mineral Show in Topeka and at the Annual Greater Kansas City Gem & Mineral Show.

How is orbicular granite formed?

GeologyIn.com

Orbicular granite (also known as orbicular rock or orbiculite) is an uncommon plutonic rock type which is usually granitic in composition. These rocks have a unique appearance due to orbicules - concentrically layered, spheroidal structures, probably formed through nucleation around a grain in a cooling magma chamber. Almost one third of known orbicular rock occurrences are from Finland. The occurrences are usually very small. The orbicules are **formed** by crystallisation from a fluid-rich supercooled dioritic magma nucleated on seed crystals. The orbicules appear to have settled under gravity while each was still a skeletal mesh of crystals, since the orbicules are frequently deformed or moulded against one another. The accumulation of orbicules depletes the magma in mafic elements, and increases the silica and fluid content, and the granite nature of the matrix. Biotite flakes cut primary crystals and are thought to be secondary. Read more at http://www.geologyin.com/2014/02/orbicular-granite.html#uHmYcZAzDz7P2JBV.99

(Source: News Nuggets March 2019)

WELCOME OUR NEW MEMBERS

Nathaniel Smith, Ozawkie, KS.
Barb "Betsy" Florence, Easton, KS.
Stacy Haug & * Corbin Haug, Centralia, KS.

TGMS Spring Field Trip to The Great Salt Plains

TG&MS field trip to the Great Salt Plains of Oklahoma on May 4, 2019, to collect gypsum(selenite) crystals. This site is known for the formation of crystals that trap sand inside in an hourglass pattern as they grow. In some cases the crystals grow in large clusters. Collectors are allowed up to 10 pounds of crystals and one large cluster for their personal use per day. You are not allowed to sell the crystals that you collect.

It is about 250 miles to the Great Salt Plains from Topeka. That makes a long day to get down to the salt plains before the sun gets too hot. I have checked for motels in the area and found two close to the collecting area. They are the Cherokee Inn at Cherokee, OK. (580-596-2828) and the Salt Plains Motel at Jet, OK. (580-626-4646). So far one family has indicated that they plan on camping and would like others to join them for the evening. The Great Salt Plains State Park has 3 camping areas, with 100 tent sites, 64 RV sites and 6 cabins (580-626-4731).

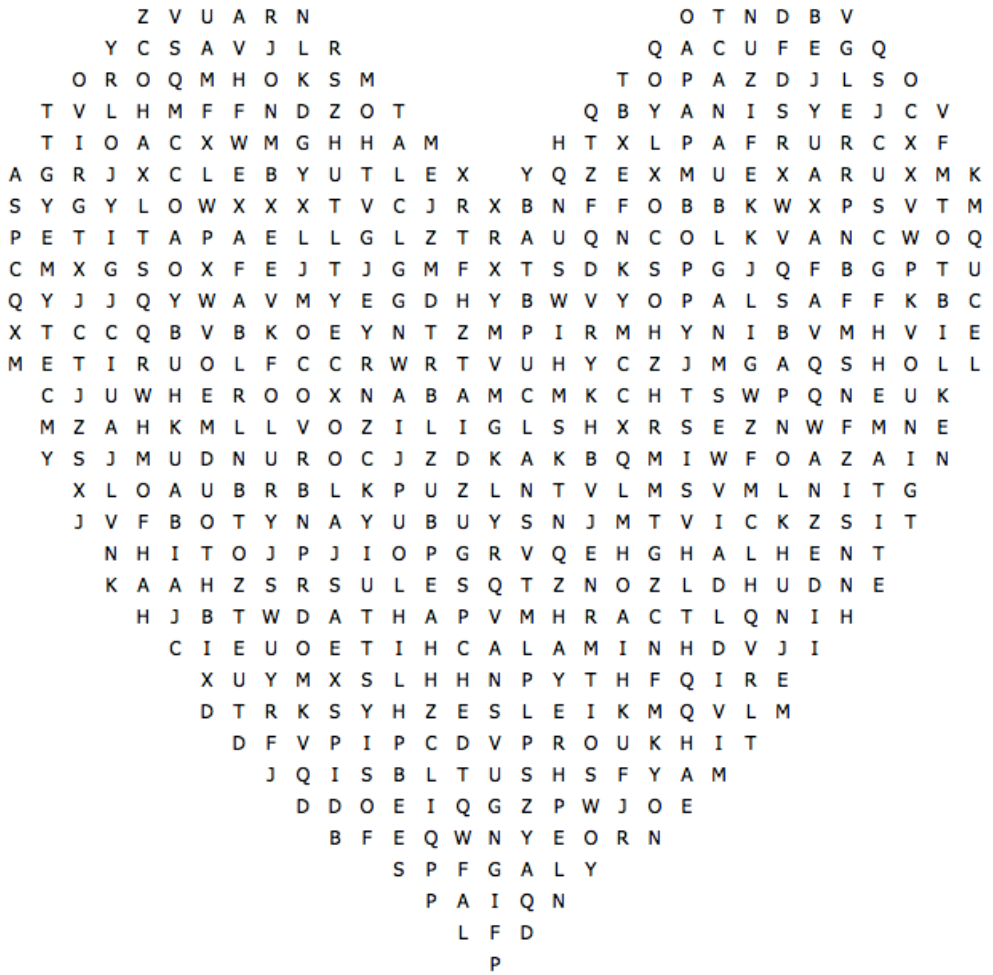
More information will be provided at the March meeting and in the April newsletter about equipment and supplies needed and how to dig for the crystals. Will Gilliland, gillilandp@aol.com

Valentine's Day Mineral Heart or "Hard"ness

(I know it is not Valentine's but I thought you could have some fun anyway).

One of the properties of a mineral is its Mohs hardness. In 1812, Friedrich Mohs compared the hardness of one mineral against another by seeing which one scratched the other. He sorted the minerals by their relative hardness and assigned them a value between 1 and 10. For this month's puzzle see if you can find the mineral names listed to the right in the shape of the heart. They may be in any direction.

Then for each of the Mohs hardness values, match the one mineral that is recognized in geology handbooks as the standard hardness value by drawing a line from the mineral to the hardness number. There are more minerals than hardness values. (Hint: 10 is for Diamond)



Mineral
Apatite
Bismuth
Calcite
Chrysoberyl
Corundum
Diamond
Emerald
Feldspar
Fluorite
Garnet
Gypsum
Hematite
Malachite
Opal
Quartz
Talc
Topaz

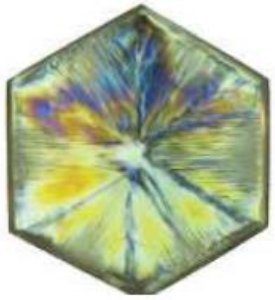
Mohs Hardness
1
2
3
4
5
6
7
8
9
10

Source The MTN Gem, Feb 2019

Topics in Gemology

Topics in Gemology is a monthly column written by Diana Jarrett, GG, RMV

Trapiche, Gabeesh?



Rainbow Quartz Trapiche, Penas Blancas, Colombia

Sample of one of the 6 Rare Spinel Trapiches from Burma

There's a funny little gemstone variety that is more science than simply cute. I'm talking about trapiche gems. Trapiche: pronounced tra - PEE - ché).

It's endlessly fun to say. But when you learn how they came to be, it makes grade school science fascinating all over again.
The word trapiche is Spanish for a six-spoked cogwheel used in old sugar mills. The stones themselves exhibit 6-rays emanating from a central 'cog' shaped formation. These rare lovelies are a miracle of nature. First let's talk about what it's not. It is nothing like star stones which get their rays (called asterism) from tiny internal hair-like fibers which are exploited when the stone is cut en cabochon.

Trapiche 6-rayed stones occur when geothermal waters interact with a carbonaceous host rock. A type of zoning occurs during mineral development making the gem cease to grow along rough edges and instead develops on smooth faces. The symmetrical formation of straight lines radiating from a central core add allure to the gemstone itself. Trapiche stones are penetrating the marketplace today in large quantities. Once just a rock hound's nerdy curiosity, trapiche stones are finding favor with serious collectors. The first ones that snuck into shows at the Tucson gem fairs were trapiche emeralds. Now we're finding trapiche ruby pop up. By the way, trapiche sapphire, garnet, tourmaline, and other gem-minerals exist albeit in scarce availability. Give it time.

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While they've not come to the fore until recent times, if it's natural one has to imagine that it's been around forever. Yes, it has. In the mid-19th century, Emile Bertrand first described these dazzling wonders, having seen them in Muzo, Colombia. It took about a century later until someone mentioned them again—this time with trapiche rubies being located in Mong Hsu, Myanmar (Burma).Today, they are quietly slipping into couture goods as designers celebrate these intriguing stones with a story. Look for them in original jewelry—or better yet, grab a few for your favorite client who wants something 'no one else has'.

(Source: TRMS T-Town Rockhound Feb 2019)

Things You Can Do For the Club This Year

1. Call someone you haven't seen at meetings lately.
2. Volunteer to present a program or help with field trips or the annual show.
3. Send your editor some news or write an article.
4. Come to each meeting and bring a guest, and or a member who cannot drive.
5. Help out with demonstrations at various locations to promote the club.
6. Support the club by showing up at the meetings and taking part in them.
7. Ask if there is anything that you can help with at the meetings or shows.

You joined the club for a reason, are you doing your part to make it the best club in town?