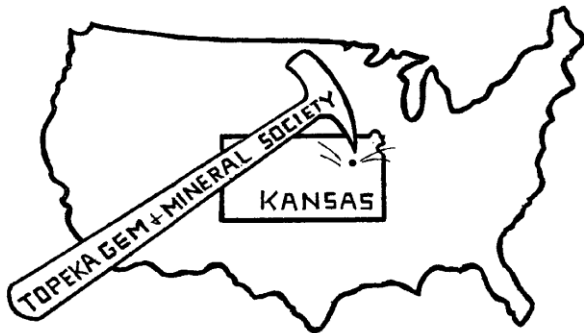


The Topeka Gem and Mineral Society, Inc.
 1934 SW 30th St. Topeka, KS 66611
 Rock2Plate@aol.com

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. 02,
 February 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	Cab of the Month	Debra Frantz/Fred Zeferjohn	862-8876
1 st Vice Pres.	Dave Dillon	272-7804	Field Trip Coord.	Will Gilliland	286-0905
2 nd Vice Pres.	Cinda Kunkler	286-1790	Publicity	TGMS Board	
Secretary	Open		Welcome/Registration	Harold Merrifield	633-9745
Treasurer	Millie Mowry	267-2849	Property	M. Cote/D. Dillon	220-3272
Directors	Brad Davenport	379-8700	AFMS Scholarship	Cinda Kunkler	286-1790
	Will Gilliland	286-0905	Editor/Exchange Editor	Millie Mowry	267-2849
	Chuck Curtis	286-1790	Show Chairman	Dave Dillon	272-7804
Historian	Jessica Reedy	230-3445	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	Millie Mowry	267-2849	Show Case Coordinator	Cinda Kunkler	286-1790
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 Top Rocks!

Your Club dues are due at this time, the Club Directory will be printed March 1, 2019, will your name be on it? If you have any question about it, see Millie.

We are scheduled for the Children's Discovery Center again this year on February 23, 2019. **We need some volunteers to help with it.** See myself, Dave or Millie to sign up for an hour or so.

Along with the program that Cinda has planned for February, Millie will present the budget for 2019, It will be a short meeting so that Pat and Will Gilliland can present their program on Dinosaurs. This will be open to all parents and the Junior Rockhounds as their February class was canceled due to the weather.

Mike Cote` & Dave Dillon

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



Program for the February 22, 2019 meeting:

The last few months have not been conducive to rock hunting – but, winter is getting close to an end!

Since we were not able to have a Junior Rockhounds meeting February 7 as planned, I have asked Pat & Will Gilliland if they would do the program this month on Dinosaurs. Junior Rockhounds and parents should plan to attend as this will serve as the class for them. All of us should be there to see if we know as much as the Juniors! Participating in the classes gives you a new perspective on what the youth know that you might not! If time allows, there is a short video on Dinosaur National Monument we will watch.

If you have large fossils, dinosaur bone or 'poop', please bring them to show off.

Looking forward to seeing you all there!

Make sure to bring rocks for identification or something you may want to show off and your items for 'Cab of the Month'. Please think about what you would like in program's in 2019 and let me know!

Cinda Kunkler, 2nd Vice-President.

TGMS Event Calendar

Feb 2019

Mar 2019

1F
 2S
 3S
 4M
 5T
 6W
 7T
 8F
 9S
 10S
 11M
 12T
 13W
 14T VALENTINE'S DAY
 Wire Wrap Class @ Millie's 1-3 p.m.
 15F
 16S
 17S Wire Wrap Class @ Millie's 1-3 p.m.
 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, Dinosaur Program for Jr Rockhounds & Adults
 23S DISCOVERY CENTER 9-5 **NEED HELP!**
 24S
 25M
 26T Wire Wrap Class @ Millie's 6-9p.m.
 27W
 28T Wire Wrap Class @ Millie's 1-3 p.m.

1F
 2S
 3S
 4M
 5T Wire Wrap Class @ Millie's 6-9 PM
 6W BOARD & SHOW MTG 7 PM MILLIE'S
 7T TGMS Jr RHD's, Marvin Auditorium 101C 6 P.M.
 Wire Wrap Class @ Millie's 1-3 p.m.
 8F KC SHOW coupon on pg 5
 9S KC SHOW
 10S KC SHOW -- DAYLIGHT SAVINGS TIME STARTS
 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

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

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



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...

- March 7, 2019, Fossils, 101C, Marvin Auditorium, with Pat Gilliland
- April 4, 2019, TBA (Possibly Earth Processes) 101C, Marvin Auditorium
- May 2, 2019, Special Effects, 101A, Marvin Auditorium, with Barbara Smith

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



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.

This month's class, Dinosaurs by Pat Gilliland, was cancelled because of bad weather. Pat's going to put on her class at the TGMS regular meeting on February 22nd. We'll all get to learn about the "Thunder Lizards" of our ancient past! Next month, Pat will talk about different fossils. Class is at the Topeka and Shawnee County Public Library on March 7th. Sign-in starts at 6:00pm, and class begins around 6:30.

Jason Schulz



*Do you have a change of
address or
Email address, or phone,
please let us know
So you do not miss out on
any notices.
Rock2plate@aol.com*

Spring Time, Field Trip Planned

It is planned to have a TG&MS field trip to the Great Salt Plains in northern Oklahoma on Saturday May 4 to collect gypsum crystals. This location is noted for gypsum crystals that have sand inclusions in an hourglass pattern. More information will be given out closer to that date.

Please note that it is about 250 miles from Topeka. If some people are interested in going the night before, there are State and Federal campgrounds around the reservoir. There are limited motels in the area, but several at Enid about 50 miles away.

Will Gilliland, Field Trip Coordinator





58th Annual Gem & Mineral Show
Presented by: The Association of Earth Science Clubs
of Greater Kansas City — **March 8, 9, & 10, 2019**

PARK FREE at the **KCI EXPO CENTER** 11730 NW Ambassador Dr.
Exit 112th St off I-29 or KCI Exit (Cookingham Dr.) off I-435
One Coupon Good for the entire group!

Admission: Adults \$6, 2 Day Pass \$10,
3 Day Pass \$14, Children 5-12 yrs. \$3,
and Children 4 and under Free.

Show Hours:
FRI 10:00 am to 8:00 pm
SAT 10:00am to 7:00 pm
Auction at 7:00 pm
SUN 10:00 am to 5:00 pm

www.kcgemshow.org



**\$1.00 OFF
Coupon**



Follow us: **Kansas City Gem & Mineral Show**

\$1.00 OFF Coupon

TGMS Meeting was held January 25th 2019 at Washburn.

Mike Cote' called the meeting to order. Harold Merrifield announced we had 24 in attendance with 1 guest. **Door prizes** were awarded. Fred Zeferjohn reported we have (only) two member jewelry entries in cab of the month contest.

Minutes from the last meeting in November had been printed in The Drifter in December.

Treasurer's Report: Millie Mowry gave the treasurer's report. She is currently accepting dues. We also have a few books for \$2.50 and a few 2019 calendars for \$11.00. No bills were presented.

Correspondence – Millie received a book from the Denver Museum of Nature & Science – Minerals from A-Z giving details on where they are found and who donated them. A digitalized list is also available.

Field trip – Will Gilliland is hoping to have a field trip in April to the Great Salt Plains in Oklahoma, please let him know if you are interested. He is working on a list of places to stay in the area.

Show – Dave had nothing to report.

New Business – Children's Discovery Center event if February 23. We are looking for help, this is an all-day event and can use extra people to talk to all who attend. If you have ideas or item's you want to display – please let us know!

Meeting was adjourned to our program – Silent Auction.

Cab of the month winner: Millie Mowry – black onyx wire wrap pendant.

Respectfully submitted from the 'current acting' secretary, (PLEASE let Mike or Dave know if you are interested in filling this position.)

Cinda Kunkler

From Wikipedia, the free encyclopedia

GLAUCONITE



Just what is Glauconite anyhow? It seems that we are awash with the stuff here deep in East Texas. In some areas south of here it is called green sand. However, Glauconite (Green Sand) is found almost worldwide, so says Texas Economic Geology. As it is here deep in the Weeches formation, it is the principal sources of Hematite, or Ironstone. The Loves Overlook is a classic example of the Glauconite weathering out into definite layers of (Hematite) Iron Ore.

In the early days (1800s) the settlers found limestone in the shallow wells of Saline Creek area. Using lignite from the banks of the Naches River and iron ore from Irontown area, they constructed a crude foundry west of the main bridge over Lake Palestine. Using the lime rock as a fluxing agent they were able to smelt the metal out of the ore into ingots. During the Civil War, the Ingots were transferred into Tyler where it was used to make gun barrels for the Confederate soldiers.

I do not have the percentages of the different minerals that our local Glauconite consists of, but here are a few of them, Iron, aluminum, manganese, phosphate and very small amounts of other agents.

A large area of East Texas was a shallow lagoon type of environment, just after the Cretaceous area. As the water level would rise and fall the sediments would oxidize, causing the iron to precipitate, or concentrate into layers of hard iron rich rock. This accounts for the layers of the greensand and hematite.

The further north you go in the Weeches formation the lesser amounts of marine fossils will be found. A good example is the material used for the core of the dam at Lake Palestine. It is pistolithic in nature with vegetation traces abundant and no shell fossils in any form. Still farther north in the Dangerfield area only pure ferruginous rock with no Glauconite or (sp?) Shamosite.

Any fossils found in the Weeches will have a living descendant today.

(Source: From Tag-A-Long, via Rock & Rose 11/96, via Stoney Statements 8/98)



SAGENITE IN JASPER

*“To him who in the love of Nature holds communion with her visible forms, she speaks a various language.”
These are the first lines of William C. Bryant’s Thanatopsis.*

As a rockhound, I enjoy seeing these special visible forms showing in my rocks and, in the past several months, I found sagenite in Bruneau jasper and in Hart Mountain jasper.

Sagenite is a sometime thing in agate, but almost never shows in jasper. I have a nice scene showing in my Bruneau, a winter moon rising off the shoulder of Mt. Hood. But my cab had these annoying little needles radiating from the bottom. (See Fig. 2) I did not see at first what I did not expect. Sagenite! And my Hart Mountain slab showed a double sagenite spray, like a dandelion puff-ball, showing classic sagenite fans. Subsequently, my newly calibrated vision let me see that both a Morrisonite cab (See Fig. 2) and a Vistaitite cab displayed sagenite.

In my experience there are several kinds of sagenite. There is the mossy, straw-like display as found in McDermitt material and in some Mexican agate and Nipomo agate. There is the fan-like presentation often seen in Oregon beach agates, acicular in form. And finally, there is quartz pseudomorph after aragonite, resembling a cluster of radiating tubes. The term “totally tubular” comes to mind, a term that I first heard some forty years ago and which I don’t know now nor did I know then what it means. Likely it is an expression of surprise and approval and delight.



Plume in jasper. Totally tubular

Sagenite in jasper. Totally tubular.

(Source: Clackamette Gem Jan 2015)



MINERAL WITH THE HARDEST TO PRONOUNCE NAME - JEREMEJEVITE Don Shurtz, Pleasant Oaks Gem and Mineral Club of Dallas

The best way to describe the mineral Jeremejevite is “rare”. It is also extremely difficult to pronounce its name. Jeremejevite has origins in Germany, and in German the “J” is pronounced more like a “Y” – for instance “ja” (yes) is pronounced “ya”. So Jeremejevite would be “yer-eh-may-yeh-vite” or “yer-ehmay-yehv-ite” or even “ye-rem-ay-ev-ite” depending on the source you are listening to. If you listen to the pronunciation on some websites you will also here it pronounced with a “j” or soft “g” sound such as “jer-eh-me-jer-vite”, but these do not match the German origin of the name. The bottom line is that is as difficult to pronounce its name as the mineral rare.



Jeremejevite was originally identified as a unique mineral in 1883. The mineral was initially found in the Adun-Chilon Mountains of Siberia but has since been found in Tajikistan, Namibia, Germany, and most recently in Madagascar. Jeremejevite is named for the Russian Mineralogist Pavel Eremeev; his last name

becomes Jeremejev in German, thus

the source of the name. It normally shows up in top 10 lists for rare and expensive gems ranging from 9 to 2 in most lists. It is significantly rarer than most diamonds, the exception being red diamonds. Its rarity is on a par with Red Beryl which is found only in Utah and New Mexico.



Jeremejevite’s chemical formula is $Al_6B_5O_{15}(F,OH)_3$ The color can be clear, yellow, or blue. Those from Germany are generally of the blue color. It has a Mohs hardness of 6.5 to 7.5 and exhibits a white streak. Although most cut Jeremejevites are less than a few carats, the Smithsonian has a 12.78 carat specimen and the Perot Museum has a 43 carat specimen. The Smithsonian specimen is clear and has numerous hollow tube inclusions stained by iron.

The Perot Museum specimen is clear and if you examine it closely you can see a red crystal inclusion under the table facets. For many years, the largest cut Jeremejevite was a 59.68 carat that is pale blue in color. However, recently a faceted 106.5 ct Jeremejevite has been documented by the American Gemological Laboratories.

Ref:

- Proquest, <http://search.proquest.com/>
- Smithsonian National Museum of Natural History, <http://geogallery.si.edu/>
- Wikipedia, <https://en.wikipedia.org/wiki/>

Pictures:

- Blue Crystals: Rob Lavinsky, iRocks.com – CC-BY-SA-3.0
- Faceted Stone: Don Shurtz, specimen on display at Perot Museum of Nature and Science
Via SCFMS January-February 2017 news-letter. Via Stoney Statements 8/2017

Increase Your Knowledge—A Column of New Words, Rocks, and Minerals By Ruth Rolston

Cinnabar: Found in shallow veins and rock impregnations. Bright red to brick-red. Chief ore of mercury. Main source of the brilliant red or scarlet pigment termed vermilion. The mineral resembles quartz in symmetry. Found in Yugoslavia, Spain, and Italy. Good crystals of rhombohedron type have been found in Hunan, China and Pike County, Arkansas. Small nuggets have been found in Nevada, New Mexico, and Texas.



Rhombohedron: a solid figure whose faces are six equal rhombuses. Three dimensional figures like a cube except its faces are not square, but rhomboidal.

Antlerite: a greenish hydrous copper sulfate mineral. It occurs in tabular, acicular, or fibrous crystals with a vitreous luster. Originally believed to be a rare mineral antlerite was found to be the primary ore of the oxidized zones in several copper mines across the world including the Chuquicamata Mine in Chile. Its greater abundance and more wide-spread distribution have been recognized. Often confused with malachite and brochantite from which it is nearly indistinguishable by simple tests and it is far more common than thought (Pough, Federick, 1955, p. 196).



Pom Pom: a pattern in agate and jasper which consists of small, fluffy-looking balls composed of radiating sagenite needles.
Sagenite: sprays of needles, hair-like, or fan-like inclusions.

(Source: the Rock Prattle 2/2017, via Stoney Statements 3/2017)