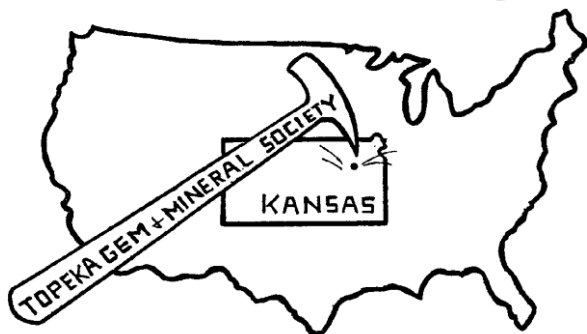


The Topeka Gem and Mineral Society, Inc.
 1934 SW 30th St. Topeka, KS 66611
 Rock2Plate@aol.com

THE GLACIAL DRIFTER



www.TopekaGMS.org 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. 65, No. 11
 November 2022



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, 7:15 pm, First Congregational Church, 1701 SW Collins Ave, Topeka, KS 66604. 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

2022 OFFICERS AND CHAIRS

President	Brad Davenport	379-8700	Cab of the Month	Donna & Russell Hedge	620-660-1651
1 st Vice Pres.	Will Gilliland	286-0905	Field Trip Coord.	Cole Collins	220-4027
2 nd Vice Pres.	Cinda Kunkler	286-1790	Publicity	Donna Stockton	913-645-7677
Secretary	Stacy Haug	1-857-3350	Welcome/Registration	Harold Merrifield	633-9745
Treasurer	Millie Mowry	267-2849	Property	D. Dillon	272-7804
Directors	Chuck Curtis	286-1790	AFMS Scholarship	Cinda Kunkler	286-1790
	Jim Baer	785-256-2432	Editor/Exchange Editor	Millie Mowry	267-2849
	Dave Dillon	272-7804	Show Chairman	Dave Dillon	272-7804
Historian	Open		Show Dealer Chairman	Dave Dillon	272-7804
Federation Rep	Chuck Curtis	286-1790	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.

Fodder from the president. November/22

A good day to all of you.

I write this on election day morning. I hope each and every one of you got out and voted. Donna and I will go vote in a couple of hours. Every election day brings to me a host of feelings. Some optimistic and some with a sense of dread. I care deeply about the direction our country travels. Division becomes more apparent with every election cycle. The vile campaigning tactics grow more aggregates every year. Candidates become less accountable and money dictates our path.

The majority of Americans are for term limits. Except for their own local politicians. Of course, congress will never vote for any limits that would jeopardize their own jobs with their cushy life styles and paychecks.

Our leadership grows ever older and stauncher in their ways. I feel that in the last several decades the best of Americans, refuse to take a step forward and lead. I can't blame them too much for the way our leaders are treated by anyone who has the least little indifference to them. So sadly, young, forward thinking people languish on the sidelines in a time when our nation desperately needs them in office.

This brings me to my real point. This month, TTGMS will hold our elections of officers. We held an improper election last month out of sheer panic. Myself and another board member kind of freaked out because we thought we had overlooked proper bylaws and had to hold our election right then and there. In actuality we were a month early. So, this month we get a 'Do over'.

For those who have been members for however many years but especially for our newer members, you have to realize that the TTGMS leadership have been the same people year after year. We swap titles now and then but the faces remain the same. We do not do this because of life time stipends into our pockets or any sense of glory. We do this because nobody else will step up and share in your club's leadership. We do not lead because we think we are the only ones that can full fill the job. Or that we are so knowledgeable. We all had to learn our jobs step by step. We are still learning all the time.

Let's think about term limits, new blood and new ideas. Our leadership is not getting any younger. There will be a time when those who have been leading can no longer fulfill their duties. We need new folks to start learning how this club operates. It is not that tough. Believe me.

So, come November 18, we would love to see some new faces step up and be voted for. Nominations will be open from the floor prior to voting. If you know someone that could function as an officer, stand up and nominate them. If you yourself would like to run, nominate yourself or ask someone to nominate you. If this is not comfortable for you, drop any board member an email or phone call with your suggestion. My email address is brad7254@gmail.com my cell number is 785 845 6624. All other board member's contacts can be found on our web site. Take a step.

This month's general meeting is moved up to Nov. 18th because of Thanksgiving. Our Christmas dinner will be on Dec. 2nd at 6 p.m. at the Viking Grille in North Topeka. Shop nights will be Tuesday nights as usual. There is plenty of time to come out and make Xmas gifts for your loved ones.

Brad

TGMS Event Calendar

NOV. 2022			DEC. 2022		
1	T		1	T	Jr RHDS 6 p.m. at the new church
2	W		2	F	TTGMS Christmas Dinner Viking Bar & Grille at Hunter's Ridge, 6 p.m.
3	T		3	S	
4	F		4	S	
5	S		5	M	
6	S		6	T	Brad's Shop Open 6-10 pm
7	M		7	W	
8	T	Brad's Shop Open 6-10 pm	8	T	
9	W	Publicity Mtg Elmont Church 6:30 pm	9	F	
10	T		10	S	
11	F	Board Meeting at Millie's 7 p.m.	11	S	
12	S		12	M	
13	S		13	T	Brad's Shop Open 6-10 pm
14	M		14	W	
15	T	Brad's Shop Open 6-10 pm	15	T	
16	W		16	F	
17	T		17	S	
18	F	General Meeting First Congregational Church 7:15 p.m. 1701 SW Collins Ave	18	S	
19	S		19	M	
20	S		20	T	Brad's Shop Open 6-10 pm
21	M		21	W	
22	T	Brad's Shop Open 6-10 pm	22	T	
23	W		23	F	
24	T	THANKSGIVING DAY	24	S	
25	F		25	S	CHRISTMAS DAY
26	S		26	M	
27	S		27	T	
28	M		28	W	
29	T	Brad's Shop Open 6-10 pm	29	T	
30	W		30	F	
			31	S	NEW YEAR'S EVE

Brad's shop will be open- weather permitting in December

If you are interested in Wire Wrap Classes, contact Millie, 267-2849 or rock2plate@aol.com
 Check out the calendar on our web site www.TopekaGMS.org

ALL MEMBERS.....SAVE THE DATES.....

DECEMBER 2, 2022

That is when our club has our annual Christmas dinner and installation of new club officers. It will be held at the Viking Bar and Grille at Hunter's Ridge off 46th Street at 6 pm. You will be responsible for your own meal again this year, and you can bring your spouse or girlfriend, etc. There will NOT be a General Meeting in December.

JR ROCKHOUND Classes & Reminders

Here are reminders of the next months of classes: **First Congregational Church, 1701 SW Collins Ave., Topeka, KS.** Sign in starting at 6:00 pm and classes starting at 6:30 pm. 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



Next Class: Dec 1, Rocks, by Brad Davenport

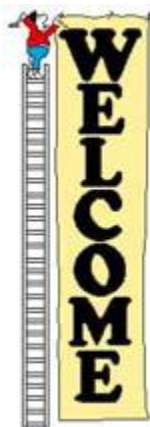
Reminder: If you want to earn the patches from the classes that you have attended you need to turn in your homework assignments.



We need your **BEST CHOICE** UPC Labels --

Bring them to the monthly meeting, and give them to Cinda Kunkler.

OUR NEW MEMBERS



Mark Fewell
*Noah Fewell
Carbondale, KS

Frank Kroeker
Tecumseh, KS

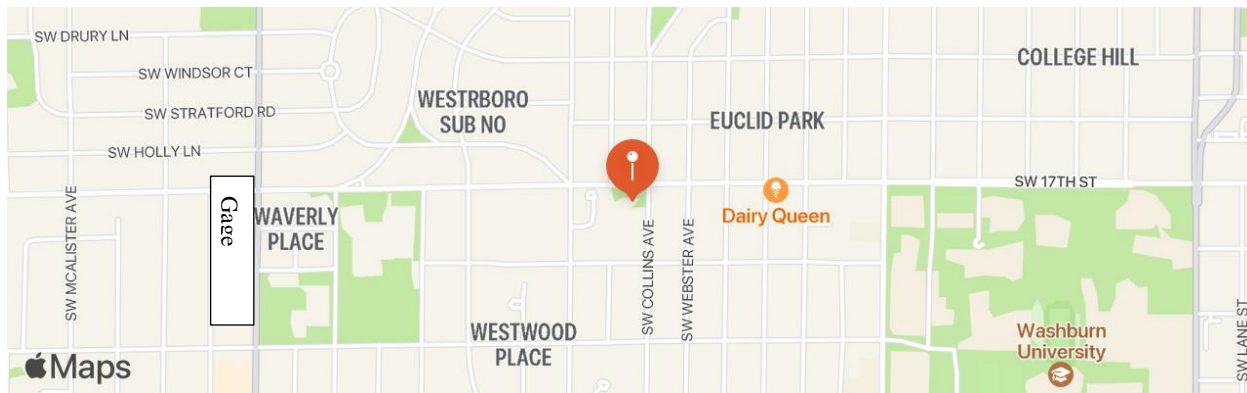
Kelvin L Heitmann
Topeka, KS

Barb & Mike Newsham
Rossville, KS

Marie E Champney
Topeka, KS

Douglass Dana
Topeka, KS

I think everyone must agree, this year's t-shirts were a big hit!
I have 3 each left, in the sizes: 2XL, 3XL, & 4XL. If anyone wants an extra one for a gift, or to make a pillow out of or just to sleep in, just let me know.
Millie



First Congregational Church

1701 SW Collins Ave, Topeka, KS 66604

Starting November 18th, 2022, The Topeka Gem & Mineral Society will be moving to a new location for their General Meeting and the Junior Rockhound Meetings.

The old location was under contract to be sold and we were to be relocated by the first of the year. This month this location became available to us.

It has a large parking lot, and you enter the building from that area. There is an elevator that will take you to the basement to the new meeting room. Restrooms are directly outside the room and it does have a kitchen attached.

There will be a new rule: **EVERYONE MUST ARRIVE BY 7:15 p.m.** to get in, as the doors will be locked. If you are running late—you will need to call Cinda at 785-231-4635.

If you have any questions contact someone on the Board.

2022 Election Committee Report

This year Will Gilliland, the 1st Vice President has asked to be replaced, so the changes on the ballot at the November meeting will be:

David Dillon..... for 1st Vice President

Shirley Schulz..... for Director (replaces David Dillon)

From Folklore to Fashion

The amulets of ancient times have become the popular jewelry of today. There is a resurgence of interest in the metaphysical attributes of gems and symbols. Let's explore this legacy.

AMBER: *known as "The God of the Sea", is said to relieve sore throats when worn about the neck and offers general protection to the body.*

AMETHYST: *is said to alleviate intoxicating effects of wine and calm the nerves. Its deep color symbolizes the depth and constancy of true love.*

AZURITE: *is reputed to improve the psychic ability.*

BLOODSTONE: *is reputed to stop hemorrhaging and nose bleeds. The red splotches against a green background symbolize drops of blood shed by the crucified Christ.*

CARNELIAN: *is traditionally the stone which symbolizes good luck.*

CHRYSOCOLLA: *improves the clarity of dreams and is frequently used as an aid in meditation.*

CITRINE: *is associated with cheerfulness and a light hearted attitude. It is also said to aid in digestion.*

CORAL: *is reputed to enrich the blood and to aid in the prevention of childhood diseases.*

EMERALD: *is associated with healing, especially the eyes.*

GREEN JADE: *according to the Chinese, provides a link between the mundane and the spiritual. It confers long life and a peaceful end.*

HEMATITE: *is used as a grounding stone. It helps maintain the proper balance between mind, body and spirit.*

HERKIMER DIAMOND: *is considered a magical one in mineral kingdom.*

LACE AGATE: *gains for the wearer a feeling of consolation despite the hardships of life.*

LAPIS LAZULI: *is the ancient Alchemists' "Stone of Heaven". It bestows the gift of greater strength, self-assurance, and increased sensitivity to higher vibrations.*

MALAHITE: *provides physical protection for the body and increased abundance in all areas of life.*

MOONSTONE: *sharpens spiritual awareness.*

OPAL: *heightens the emotions and restores dim vision.*

PEARL: *is a catalyst for healing, purity, and even disposition. It is an effective remedy for irritability.*

PERIDOT: *protects from enchantments, melancholy and illusion. It gives the wearer foresight and eloquence.*

RED GARNET: *is the stone of deep and lasting friendships.*

ROSE QUARTZ: *promotes the vibration of universal love and inner serenity.*

RUBY: *increases vigor and renews vital life forces and cleanses the blood.*

RUTILATED QUARTZ: *has golden rutile needles inside the stone which serve to focus the attention.*

SAPPHIRE'S: *calming blue has a soothing effect upon the mind.*

SMOKY QUARTZ: *acts as a sedative to ease all types of physical ailments and helps to quiet the mind.*

TIGEREYE: *brings power to the mind and clarifies the thought processes.*

TOPAZ: *is a source of physical strength, especially for women. It is considered useful in the treatment of tension headaches.*

TURQUOISE: *is a unifying stone which puts one's spirit in touch with the forces of Mother Earth.*

Source: A repeat from the Drifter Sept 1987

Cinda is working diligently to come up with a program for the November meeting that will out-do last months program. It takes time but we all know she can do it!

Don't be late to the new church location—7:15 p.m. is the time to arrive.

Epidote

Editor's Note: The mineral epidote can be collected during many of our field trips. It is not rare and is frequently mistaken for other collectables. Hopefully this article will provide some useful information on what it is we are picking up and why.

Epidote is relatively common but attractive rock-forming mineral. The pleasant green mineral seen in unakite is epidote, as are the deep green prismatic crystals in the vugs in basalt vugs in the mines of the Keweenaw Peninsula. The green color of basalts at Taylor's Falls, MN is due to abundant epidote.



(Picture from Wikipedia)

Epidote is a hydrated calcium, iron, aluminum silicate and is relatively easily to identify. It is non-metallic, has a dark green to pistachio green color, and is harder than glass. It can be massive, or as drusy to radiating prismatic crystals. It is often found in veins and filling vugs. The green color is peculiar enough to be a good tip-off. Epidote looks like green quartz, but is softer than quartz and does have a cleavage. Epidote can resemble olivine, however olivine is not found with quartz while epidote is often found with, and at times even embedded in, quartz.

Epidote was named by Rene Hauy, a mineralogist at the University of Natural History in Paris in the early 1800's. The name comes from the Greek "epi" for "over" plus "didonai" for "to give" which is supposed to translate roughly as "increase". This refers to Hauy's observation that some of the mineral's prism faces are longer than others. Hauy is justly famous for his pioneering work in crystallography, but the rationale for the name epidote seems, as John Sinkankas put it "incomprehensible". A discredited synonym for epidote, pistacite, comes from the Greek for pistachio nut, a reference to the mineral's color.

Epidote forms from hydrothermal fluids or in rocks metamorphosed at fairly low temperatures and pressures. It forms with other green minerals such as chlorite, pumpellyite and actinolite. Thus, rocks subjected to low grades of metamorphism are often referred to as "greenstones" or "greenschists". (This is not to be confused with the gem "greenstone" which is a variety of pumpellyite. Adding to the confusion is the fact that the gem greenstone occurs in the rock greenstone.)

Epidote is extremely common in the Keweenawan volcanic rocks, which can be traced in a belt from Taylor's Fall, MN, across northern Wisconsin, and through the Keweenaw Peninsula of Michigan. These rocks were originally mostly basaltic lava flows. The epidote formed as the flow were buried in a thick volcanic pile, and essentially "cooked" by the heat of the overlying lavas.

Despite its hardness and deep color, epidote is not often used as a gem because the crystals rarely are clear or large enough to facet. Its most familiar lapidary use is as the material called "unakite" Unakite gets its name from the Unaka range of the Great Smoky Mountains. It refers to a particular type of metamorphosed granite in which the feldspar is bright pink and has been partly replaced by green epidote. Light gray to white quartz is also present, giving a pleasing color contrast. Unakite is found throughout the Blue Ridge area of Tennessee, North Carolina and Virginia. It can be found elsewhere. For example, metamorphosed granite similar to unakite occurs near Waupaca and Wausau, Wisconsin.

- Dr. Bill Cordua, University of Wisconsin-River Falls

References: □ Dietrich, R.V. and Skinner, B.J., 1979, Rock and Rock Minerals, New York, John Wiley and Sons Pub., 319 p.; □ Sinkankas, John, 1964, Mineralogy for Amateurs, New York, Van Nostrand Reinhold Co., 585 p.; via the WGMS July 2014.

Cosmetic Minerals of Ancient Egypt

Minerals have been used for adornment for millennia. The Egyptians made an extensive use of many familiar minerals, and, according to recent discoveries, synthesized other compounds using relatively sophisticated chemical techniques.

Egyptians were fond of eye and face coloration of white, green and black. Generally these were mineral powders mixed into pastes with fats. Minerals commonly used to make black powders were galena (PbS), manganese oxides such as pyrolusite, magnetite (iron oxide), cuprite and tenorite (copper oxides), and stibnite (antimony sulfide).

Green eye paints used malachite (copper carbonate) and chrysocolla (hydrated copper silicate). White face paint often came often from cerussite (lead carbonate). One might speculate on the health effects of spreading such poisonous compounds thickly over one's face!

The above mentioned minerals are common in deposits accessible to the Egyptians. Recent work on cosmetic powders preserved in their original containers and stored in the Louvre has turned up several rare minerals used as pigments. These minerals were either very rare or are unknown in Egyptian deposits. These are phosgenite (a lead chlorocarbonate) and laurionite (a lead chlorhydroxide).

Both would be suitable for white pigments, if found in quantity. Laurionite is a famous mineral from the ancient deposits at Laurium Greece, where it formed by the action of salty water on slags. It also occurs rarely in other oxidized zones over ore deposits, such as in Cornwall, England. Phosgenite is a bit more common, and can form with laurionite and other minerals in oxidized zones. The conditions of preservation of these minerals in Egyptian cosmetics make it unlikely that they are formed by subsequent weathering of the cosmetics, but were originally pigment components.

Walter et. al., in a recent article in Nature, speculate that the phosgenite and laurionite were synthesized by the Egyptians. Both could form from mixtures of smelted lead oxides in the presence of carbonate and salt water. Walker and colleagues were able to form these minerals using techniques accessible to the ancient Egyptians. They followed recipes for medicines described on papyrus. This called for lead oxide mixed in water with salt, natron. The reaction is slow and delicate, but produced laurionite that matches morphologically that found as face paint in Egyptian tombs. A similar technique should produce phosgenite. The delicacy of the process suggests a surprising knowledge of wet-chemical techniques 4,000 years ago. Clues for their formation could have come from observations of during the processing of galena or weathering of lead articles. These papyrus list in addition, over 100 recipes using minerals or synthesized compounds for treatment of a variety of ailments.

It is apparent that ancient Egypt harbored its own creative scientists inspired by observations on minerals to create desired (if unhealthy) products.

-Dr. Bill Cordua, U. Wisconsin-River Falls

References:

Lucas, A., 1962, Ancient Egyptian Materials and Industries, 4th edition revised by J.R. Harris, London, Edward Arnold Publishers.

Walter, P. et. al., 1999, "Making Make-up in Ancient Egypt", Nature, vol. 397, p. 483-484.

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