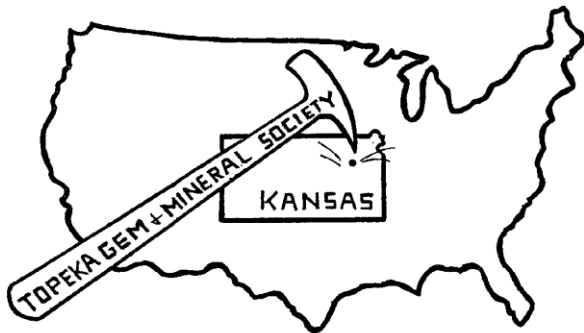


The Topeka Gem and Mineral Society, Inc.
 1934 SW 30th St. Topeka, KS 66611
 Rock2Plate@aol.com

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. 63, No. 4,
 APRIL 2020



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

2020 OFFICERS AND CHAIRS

President	Brad Davenport	379-8700	Cab of the Month	Debra Frantz/Fred Zeferjohn	862-8876
1 st Vice Pres.	Will Gilliland	286-0905	Field Trip Coord.	Will Gilliland	286-0905
2 nd Vice Pres.	Cinda Kunkler	286-1790	Publicity	TGMS Board	
Secretary	Stacy Haug	1-857-3350	Welcome/Registration	Harold Merrifield	633-9745
Treasurer	Millie Mowry	267-2849	Property	M. Cote/D. Dillon	220-3272
Directors	Chuck Curtis	286-1790	AFMS Scholarship	Cinda Kunkler	286-1790
	Francis Stockton	913-645-7677	Editor/Exchange Editor	Millie Mowry	267-2849
	George Reed	836-9277	Show Chairman	Millie Mowry	267-2849
Historian	Open		Show Dealer Chairman	Millie Mowry	267-2849
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 President

Howdy one and all.

I hope everyone is staying safe and health. Here in Kansas I don't believe we are supposed to be suffering from cabin fever in the middle of April. But here we are. We may not be shuttered in our cabins per say, we can go out and wander in our yards and gardens. It helps my mindset to see many folks that have their property all cleaned up and ready for summer. These hard freezes have put an end to any of our fruit trees barring goodies this year. I also imagine some early worms will have to be doing some replanting in their gardens. But this is Kansas and we have to expect such things.

I hope some of you have taken the opportunity to go out and pick some nice fresh mushrooms. I miss not being able to physically go out and spend a few hours feeding the ticks. Along with picking the Morels, it was an opportunity to find a few rocks and maybe a shed antler or two too.

With this "Home Alone" time I hope you have taken advantage of some of the incredible educational and entertainment opportunities that are free for use on the internet. It is incredible how all sorts of entities worldwide have offered up free resources that we may have never been able to enjoy Miss Millie has forwarded several great resources from Diamond Dan to me. These are for youth of all ages. There are puzzles, quizzes, coloring books etc. I have forwarded these to the youth in our group as well as some folks I know around the country that have home school their kids for years. I hope they are using them.

Most of all in this strange world we have been thrust into. I miss each and every one of you Rockers. You are truly my friends. I so look forward to the day we can get back together to visit, banter and tell lies about latest greatest rock we are now obsessing over. Take care all,
Brad 785-845-6624 Brad7254@gmail.com

Welcome Our New Members

Kat Castilow
Larry Hardesty



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



NEW T-SHIRTS ARE IN THE WORKS FOR THE 2020 TGMS ANNUAL SHOW.
The first order has been sent in and should arrive soon.
There will be a price increase on the next order.



General Meeting Minutes
March 24, 2020

Due to the closure of Washburn University, the General Meeting was cancelled because of the Covid-19 virus.

The May 22nd, 2020 General Meeting is also cancelled.

Topeka Gem & Mineral Society

Has joined the Sertoma Great Topeka Duck Race for 2020
Go to www.topekaduckrace.org or see Millie for an envelope.

To adopt a duck for \$5.00 each.

A family of 5 for \$20,

A flock or 12 for \$50 and

An 'oodle' of ducks (27ducks) for \$100.00



The race is September 19, 2020 at Lake Shawnee

Check out all the Great Prizes you can win.

Our Team name is **“Topeka Gem & Mineral Society”**

THIS OUR YEARLY FUND RAISER FOR THE YEAR
GO ONLINE AND NOW & ADOPT YOUR DUCKS

TGMS Event Calendar

APRIL 2020			MAY 2020		
1	W		1	F	
2	T		2	S	Jr Rockhounds TSCPL rm 101C 6:30 p.m. CANCELLED
3	F		3	S	
4	S		4	M	
5	S		5	T	
6	M		6	W	
7	T		7	T	
8	W		8	F	Board Meeting 7 P M @ Millie's
9	T		9	S	
10	F		10	S	
11	S		11	M	
12	S		12	T	
13	M		13	W	
14	T		14	T	
15	W		15	F	
16	T		16	S	
17	F		17	S	
18	S		18	M	
19	S		19	T	
20	M		20	W	
21	T		21	T	
22	W		22	F	
23	T		23	S	
24	F		24	S	General Mtg CANCELLED Stauffer rm 138, 7:30 p.m.
25	S		25	M	
26	S		26	T	
27	M	General Mtg CANCELLED Stauffer rm 138, 7:30 p.m.	27	W	
28	T		28	T	
29	W		29	F	
30	T		30	S	
			31	S	

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

LESSONS AT THE BARN ARE WEATHER PERMITTING – Watch for emails

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

JR ROCKHOUND Classes & Reminders

Here are reminders of the next few months of classes: Topeka Shawnee CO Public Library sign in starting at 6:00 pm 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

- May 7, 6-8:45 p.m., Marvin Auditorium, 101C, Collecting, Cinda Kunkler & Millie Mowry
- June 4, 6-8:45 p.m., Marvin Auditorium, 101B, TBA

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

WATCH FOR EMAILS ABOUT THESE CLASSES—THE LIBRARY IS CLOSED AT THIS TIME.

Harder Than Diamond

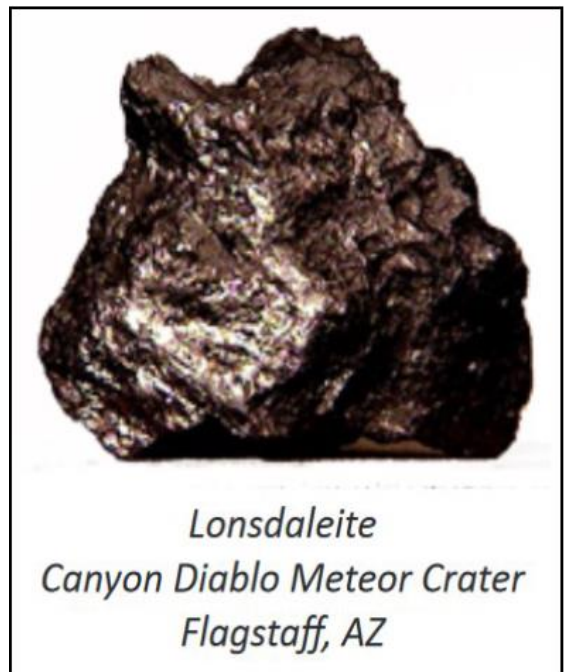
by Ed Goldberg

Harder than Diamond: Everyone knows that diamond is the hardest naturally occurring mineral, but that may be wrong. Lonsdaleite is composed of carbon, but the crystal structure is different from diamond. Pure lonsdaleite is harder than diamond.

Lonsdaleite is extremely rare because it is formed when meteorite containing carbon in the form of graphite hit Earth at high velocity. The sudden compression can rearrange carbon atoms to form lonsdaleite. The type locality is the Canyon Diablo meteor crater an hour east of Flagstaff, Arizona. The mineral is found in a number of locations around the world and each location save one is a meteorite impact site.

Lonsdaleite is also found in a kimberlite pipe in China.

Via The Conglomerate, 7/14, Via WGMS April 2020



I'M UP FOR
ADOPTION



Web Corner – Web and Computer Resources for Rockhounds

Free Online Classes – by Bob Johnson

Craving fresh intellectual stimulus now that all of your regular meetings have been canceled by Covid19? Now may be the perfect time to take an online course to pursue a personal interest or improve your job performance. So check out a new class . . . for FREE! Here are some of my favorite sources that I have used for finding fresh online classes.

Open Culture <http://www.openculture.com/freeonlinecourses> - maintains a list of 1,500 free online courses from top universities like Stanford, Yale, MIT, Harvard and more. Courses cover the typical college topics including Archaeology, Arts, Communication, Economics, Science, Math, etc. There is a fee if you want credit for your class, but you can usually sign up for “No Certificate” or “Audit” for free.

Coursera <https://www.coursera.org/> - many of the courses on the Open Culture list are offered through Coursera which offers 3,900+ courses from 190+ universities and companies.

EdX <https://www.edx.org/> - many others on that list are offered through edX, which provides access to 2500+ courses from 140 top institutions.

Future Learn <https://www.futurelearn.com/> - offers courses from leading institutions. Most have a free option with paid upgrades available for “certificates”.

Skill Share <https://www.skillshare.com/> - has thousands of classes, both paid and free, on a broad range of topics including arts and crafts (i.e. jewelry making). Once you login, use the search box to search for your topic of interest. You can then filter the results by “all”, “premium” or “free”.

Udemy <https://www.udemy.com/> - has the world’s largest selection with over 100,000 online video courses with new ones being added each month. Their classes are typically more practical with a heavy emphasis on business and computer skills but also on personal development and various “lifestyle” topics (including jewelry making). Individual courses cost up to \$199, but often go on sale for as little as \$9.99. They also offer nearly 6800 totally free courses. Simply login and do a search for “free courses”. These courses are typically offered by teachers who have several Udemy courses available. They hope that if you like them, you will later sign up for one of their paid courses. Once you sign up for a course you will have lifetime access and can complete it at your own pace.

Schoobly <https://www.schoobly.com/> - in addition to the “always free” Udemy courses, you may be able to find “coupons” that offer the opportunity to sign up for free to courses that normally cost up to \$199. These coupons typically must be used within one or two days (but once you use them to sign up for the course, you have lifetime access to that course). Schoobly is one of the best sources I have found for these courses. I check it daily.

This is NOT an exhaustive list! For more suggestions check out this article from LifeHack on 25 Killer Sites for Free Online Education, and FreeOnlineCoursesForAll.com for their top 10 lists of courses under various topics including arts & crafts, hobbies, education, and more.

(Source: DGMS Tips N Chips April 2020)



Beautiful hand-crafted jewelry by club member Vicki Schlepp. Find free online classes about jewelry making and more on the DGMG website.

Apache Tears

Bev Eisenacher

Obsidian - “Volcanic Glass”- is formed when felsic lava cools too quickly to form crystals. Although mineral like, this lack of crystals disqualifies it from being a mineral. However, it is sometimes called a mineraloid. It has a very complex composition but is usually at least seventy percent silicon dioxide.

Obsidian older than the Cretaceous age has not been found. It is meta stable at the surface. At formation it has a low water content (less than one percent by weight) and, as it is exposed to ground water, it hydrates and transforms to perlite.

“Apache tears” are a unique form of obsidian. If water is present at the time of the obsidian formation it may hydrate to form perlite. Curved fractures may form and, if the hydration does not reach the core, 0.5 to 5 cm nodules of obsidian may form. These nodules are usually black but may range to red or brown.

Apache tears are found in the southwest United States and in the past could easily be found in the desert in Arizona. As might be expected, from the name of a tribe and the location where these nodules are found, the name comes from a Native American legend.

The legend goes that there was a band of Pinal Apaches who had a hidden camp on top of Big Picaho. In July of 1870, General George Stoneman established an outpost near what is now known as Superior, AZ. When winter arrived the tribe had difficulty finding game and forage. Faced with starvation, they began raiding settlements. US Calvary Company B and the ranchers hunted for the raiders and found the hidden trail to the camp on top of Big Picaho. The initial surprise attack killed 50 of the warriors. Rather than being captured or killed by the enemy, the remaining 25 leapt from the cliff. (One version I found said the attack was by another tribe.) The wives and families of the warriors, in their grief, gathered near the base of the cliff. Their mourning and despair were monumental, for not only the 75 warriors had perished, but also the fighting spirit of the Pinal. Some versions of the legend claim that their tears turned to stone as they hit the white sand and in others the Great Father was so moved by their grief and despair he wrapped their tears in black stone.

These black stones when held in front of a light source become translucent and show the shape of a tear within. It should not be surprising that in spiritual and healing lore Apache tears have the ability to alleviate grief and sorrow. Some believe that if you carry an Apache tear you will never cry again because the Apache women already cried enough. Apache tears are easy to carry in a pocket and may be wrapped to form a pendant. Some say the stones bring good luck and are powerful meditation stones. It is thought that they remove and transmute negative energies such as sorrow and grief.

Sources:

<http://bjordangemstones.blogspot.com>

<http://meanings.crystalsandjewelry.com>

<http://www.firstpeople.us>

https://en.wikipedia.org/wiki/Apache_tears

<https://en.wikipedia.org/wiki/Obsidian>

Via Rock Buster News 11/15, VIA WGMS, April 2020

From the TGMS Drifter, Editor

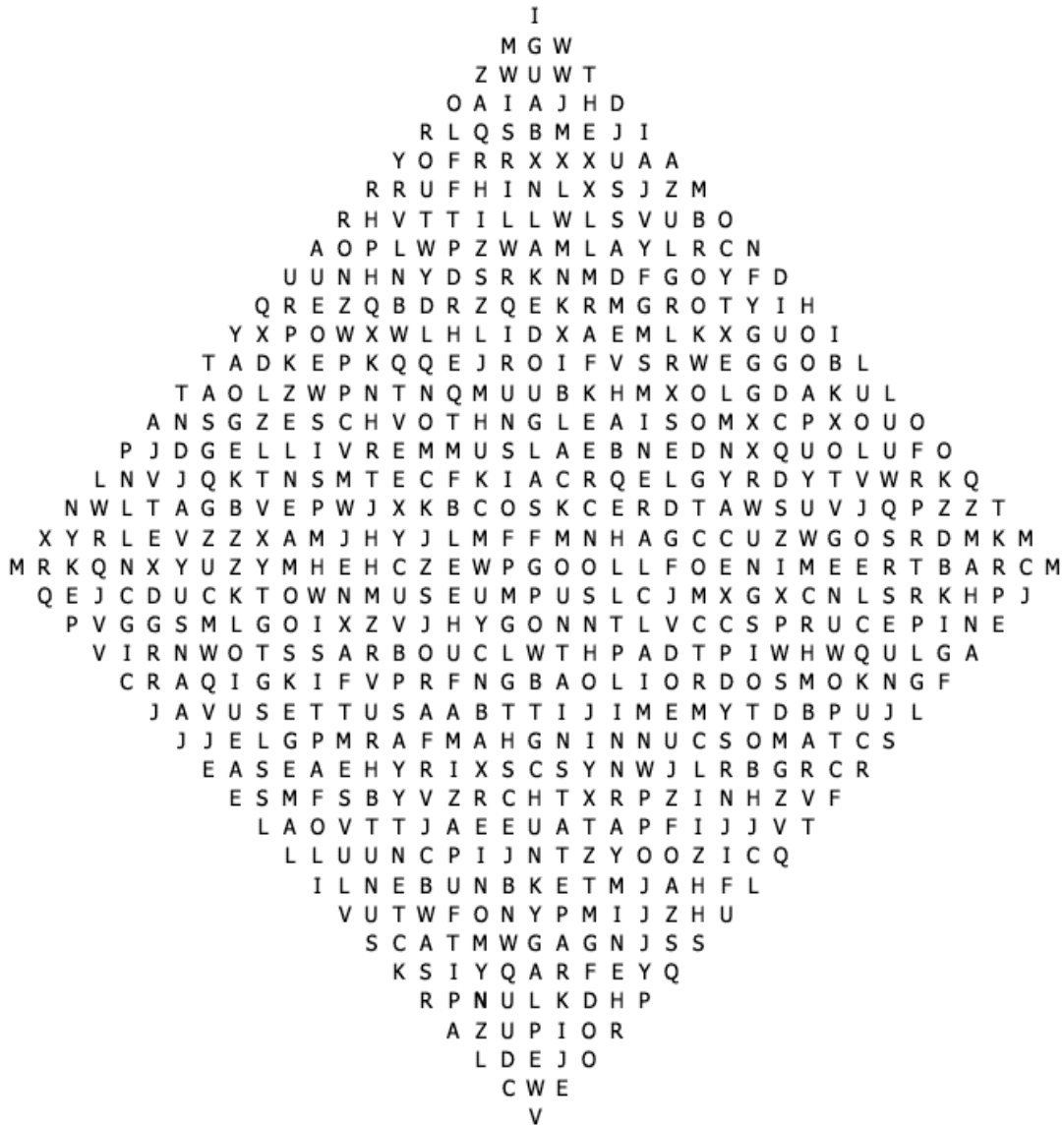
When I polish Apache Tears in my vibrating tumbler, I first soak them in water to loosen the sandy outside crust for about a week or two. It comes off easily this way by just tapping it with a hammer, gently, then polishing the stones. If the crust does not come off, then soak them for another week. They turn out beautifully this way.

Millie Mowry



We're a family &
want to be
adopted together

Word Search Puzzle
By Kathi Walbridge



WORD LIST			
1	AMOS CUNNINGHAM FARM	10	DUCKTOWN MUSEUM
2	BLACK MOUNTAIN STATE PARK	11	FGMS MINERAL CLAIM
3	BRASSTOWN	12	GRAVES MOUNTAIN
4	BROOKWOOD	13	JOHNSON CREEK FARM
5	CHUNKY GAL	14	LAKE DOUGLAS
6	CLARKSVILLE	15	PATTY QUARRY
7	CRABTREE MINE	16	RAY MINE
8	CULLASAJA RIVER	17	SPRUCE PINE
9	DIAMOND HILL	18	SUMMERVILLE

This puzzle has 18 locations which may be spelled in any direction. From the Mountain Gem March 2020.