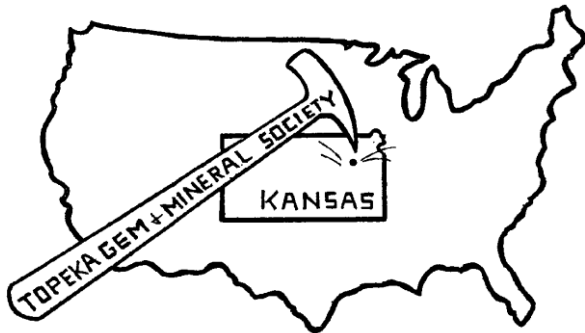


The Topeka Gem and Mineral Society, Inc.
 1934 SW 30th St. Topeka, KS 66611
 Rock2Plate@aol.com

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. 12,
 Dec. 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, University United Methodist Church, 1621 SW College, 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

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
	Dave Dillon	272-7804	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

Seasons greetings to each and everyone of you. Not too many days left in this year. I think most of us will be glad to see 2020 in our rearview mirrors and hope for a little calm as 2021 creeps up on us.

As preparations proceed for the multiple holidays this month, have any of you had some time for your rocks, minerals and fossils? As I wander among many "Rock" sites, it appears many folks are cleaning and sorting through this years finds. Others, up North are putting their unheated shops to rest for the winter. Some are trying to figure out how to keep their tumblers running without freeing. Vodka, seems to be one of the favorite antifreezes. No, they are putting it in the tumblers.

The repair and rebuilding of larger saws and gem labs appears to be a winter activity. It is very pleasing for me to see these old tired pieces of lapidary equipment restored to their former glory. New bearings, wheels, hood & pans, blades all highlighted by a fresh coat of paint make them just sparkle.

Many of the fossil hunters spend their winters cleaning and preparing specimens for sale or a shelf. I can understand this. One can focus on the tedious work without having to stare out the window at the snow building up outside.

Personally, every piece of equipment in the "Rock Crib", needs some level of attention. Mostly just wheels that need replaced. There are a couple of other items I would like to address before you folks are able to return to classes. Up in my own studio, things have really been neglected. My Gene is feeling neglected. She ain't run 10 hours sense I started last February when I started creating the Rock Crib. The slabs are piled up just begging to be polished.

So, what are you folks going to do with your collections this winter? Share your plans and ideas with us on our website or Facebook.

Have a marvelous holiday season regardless of which ones you choose to celebrate. I might suggest that on the Winter Solistes Dec.21st you go outside just after sunset and look to the West to see Saturn and Jupiter in their closest conjunction in hundreds of years. They will almost appear as a single star. They will be the brightest thing in the heavens you have ever seen besides the moon. It won't happen again for 800 years so take the kids and grandkids with you. No mask required.

Brad



It is that time of year
2021.

that your Dues is Due for

December 31, 2020, is the deadline for paying your dues. Make your checks payable to TGMS and mail them to Millie Mowry at 1934 SW 30th St. Topeka, KS 66611.

Single membership for Adults is \$15., children under 18 years of age are \$5. Each.



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

Election of Officers: Dave Dillon was voted to replace George Reed as Director and will take over the position in January. Other Officer remaining in positions.

Save this date for:

The Annual TGMS Christmas Dinner, February 4, 2021, 6:30 P.M.

Where: Vikings Grille, 4731 NW Hunters Ridge Circle, Suite G.
Topeka, KS 66618

Their menu can be seen at www.ordervikingsgrille.com/#1

Everyone is welcome and bring your spouse, or significant other, you will be responsible for your own meal. Join us in the party room which is on the west side of the Vikings Grille.

YES, we moved the date
because of the Virus.



TGMS Event Calendar

DEC 2020			JAN 2021		
1	T		1	F	New Years Day
2	W		2	S	
3	T		3	S	
4	F		4	M	
5	S		5	T	
6	S		6	W	
7	M		7	T	Jr RHDs pending
8	T		8	F	
9	W		9	S	
10	T		10	S	
11	F		11	M	
12	S		12	T	
13	S		13	W	
14	M		14	T	
15	T		15	F	
16	W		16	S	
17	T		17	S	
18	F		18	M	
19	S		19	T	
20	S		20	W	
21	M		21	T	
22	T		22	F	
23	W		23	S	
24	T		24	S	
25	F	CHRISTMAS DAY	25	M	
26	S		26	T	
27	S		27	W	
28	M		28	T	
29	T		29	F	
30	W		30	S	
31	T	NEW YEARS EVE/ no class	31	S	

All Lapidary Classes are cancelled until Brad lets us know when the shop is safe to open.

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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

JR ROCKHOUND Classes & Reminders

Here are reminders of the next few months of classes: **University United Methodist Church, 1621 SW College Ave., Topeka, KS.** 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



---Everyone must wear masks!

Next Class: This will be pending.....
Jan 7, 2021, Rocks, 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.



Starting November 5th, our classes will be at the University United Methodist Church. The dates and times won't change, just the place. The address is noted above. Sign in starts at 6:00, and class will begin at 6:30. We're still going to need our masks (at least for now), so don't forget them!

Make Welcome Our New Member

Jim Mayhew
Abilene, KS

Looking for something to do while being home over the holidays. The January meeting program (providing we get to have it because of the virus threat) will be a silent auction. So, clean out that old rock pile of unwanted stuff and donated it to the club. Rough rock, slabs, equipment, jewelry, books, anything that you want to get rid off bring it to the meeting. Then don't forget to stay and bid on some new treasures from someone else.

Kansas Geologic Information Available

By William Gilliland

In this time of health concerns and restrictions on meetings, field trips and other activities; the Kansas Geological Survey (KGS) has information about all aspects of geology in Kansas. A visit to the KGS website can provide answers to questions, information for future field trips, links to other state geological surveys and even maps to use to plan fishing trips to reservoirs. What better way to keep our links to geology with some of our time at spent at home?

Access the KGS welcome page at www.kgs.ku.edu. The welcome page offers news in the center column and recent Kansas earthquake activity at the lower part of the page. The left column takes you to the many survey information options. The right column provides links to sites of geological interest both in-state, other states, & around the world.

How about taking a virtual field trip as a start? On the left side click on **Education**, now look under “Story Maps”. Here you can take one or both of these field trips:

Surficial Geology of Morris County, Kansas; Highways and Byways to Kansas Geology

Under this **Education** tab is a wealth of information about all parts of the State including photographs of many geologic features taken by the Survey staff.

“Reports and books” provides general information specific to Kansas such as:

Kansas Rocks and Minerals; Ancient Life Found in Kansas;

From Sea to Prairie-A Primer of Kansas Geology; A Kansan’s Guide to Science and many others.

“Maps and charts” present the state in many different formats.

“Earthquakes and other hazards” provide basic information about hazards and links to resources around the country. What do you want to know about earthquakes, floods, or volcanoes?

“Annual Field Conferences and Field Trips” provide much information about areas of the state that can be used in planning field trips for next year.

“Links” for other educational resources. Be sure to check out the Kentucky site.

If your interest is in **Water** or **Energy**, investigate the information and data offered under these headings.

The **Geology** tab gives access to detailed geologic information such as an “Interactive Geologic Map”. Using this map, you can click at a site in Kansas and it will tell you what the surface geologic formation is at the location and provide a reference for the formation. You can also zoom in for a close look at the site and have choices of different overlay data such as a shaded topography image.

“County Maps” allow you to explore in more detail many of the counties. If a county is marked in blue, you can call up geologic maps that allow you to explore down to individual sections of land. With these maps you can determine the surface geology of your home or farm. You can also determine the legal land description from the information given on the map. You can use these maps to trace the location of formations that might be of interest for collecting stops on field trips. What is the formation or formations that you collect from at your favorite fossil site? Check now before you head out to the field.

If a county is cross marked with red, it indicates that work is in progress to update the geologic map or it is in the process of being entered into the computer with the updated information. If the county is shown in green it is only presented in the general information from the current state geologic map. Work is still needed in these counties to update the geologic mapping. These two county presentations will not allow you to study them down to the section level.

“Other Maps and Charts” can provide state geologic maps from postcard to page size and larger. In addition, there are also charts of the rock layers and geologic time.

“Construction Materials Inventory” can provide detailed information about uses and quality of geologic materials mined in pits and quarries used in construction projects of all types. Clicking on most marked counties will give references which contain the locations and quality of the material. If you want more information you need to access the original reports. You can check with the agencies that produced the reports. Pottawatomie County locations can be accessed by legal description, other counties may be updated to this format later.

“Bulletins, Publications & Bibliography” will be discussed later under **Publications**.

“Stratigraphic Nomenclature” has a wealth of information about the geologic formations and units and their order in age. Of special help in the field is the “on line chart”. This is the most up to date stratigraphic presentation that you can printout at page size to carry with you in the field.

“Archaeologic Research” and “Industrial Minerals” have information specific to these areas. Explore them if you are interested.

Geophysics provides information on how we learn about the Earth using many different scientific tools. These methods can often save the expense of drilling test holes.

Publications This is your access to the information that the KGS has developed over the years. If the title is given in blue, you can download it yourself at no cost. If the titles are in black, you will have to order them from the Publications Sales Office listed at KGS, and pay for the publication and the cost of shipping, if you do not pick it up at one of their offices.

“Bibliography” Here you can search for information by topics, terms, author or county. If you just have a general idea of what you want, this is a great place to start.

“Publications Catalog” here you can search by county, author, subject, or series. Series will bring up all the different publication series that the KGS has used over the years. Examples are Education Series, Bulletins, Guidebooks, etc. Go to the box on the right side of the page and click on the dropdown arrow for a list of series. Just to start try “Guidebooks”. Here is a wealth of information in field trip guidebooks published for conferences since #1 in 1976. There are about 43 guidebooks listed. You should be able to find some information to use on your next field trip?

Now return to the series list and select “Bulletins”. These are published by the KGS and are now up to # 264. They range from geologic reports on individual counties to specific reports on research done by the KGS. Browse to your hearts content, but note this list only contains part of the bulletins back to 1945. You will have to go to “Books on line” to access the entire series. More on that listing later.

Below the dropdown series list is “County Geologic Bulletins” which will take you to a map of the state from which you can select bulletins published for the individual counties. This is a short-cut to your county of interest.

“Open-file Reports” These maybe preliminary reports of research or reports that did not fit in any established publication series. These can be searched by county, year, index terms or author. Try “author name” then click on “G”, scroll down to “Gilliland, W” and click. Here is Open-file #95-76. Self-guided geology field trips in the Topeka area. These are a bit dated now, but were for geology classes at Washburn University. This you would have to order from the KGS, sorry. Two of these trips were walking around downtown Topeka looking at the geologic material used in the buildings, including the Capital. Can you make a similar field trip for your town? Such trips might be useful to local school teachers

“Public Information Circulars” are sort reports on specific topics. Now up to #36. These provide information about topics that the KGS has received the most questions about. Check out Meteorites in Kansas or Salt in Kansas as examples. There can be good sources of information for homework assignments.

“Books Online” here you can check the entire bulletin series back to #1 published in 1913. Just note that the list splits into before 1960 and after 1960. Under “Other Book Series” you can explore all that was published in those series and other publications back to a report from 1865. Now what was that report about? Look it up. More recent topics of current interest can be found in the “Educational Series”.

Do you collect fossils in eastern Kansas? Are these marine fossils difficult to identify? If so check “Bulletins after 1960” scroll down to Bulletin 169, Symposium on cyclic Sedimentation, and click. In the index click on the article by R.C. Moore, at pages 287-380. At the end of this article is a supplement of drawings of eastern Kansas marine fossils by Moore. These are available as a PDF file that can be downloaded to provide assistance in identification. The address of the PDF file is

www.kgs.ku.edu/Publications/Bulletins/169/Moore/supplement.pdf.

“Maps/GIS” will give you a list of many maps available from the KGS. Do you remember at the start of this repost I suggested you could get help planning a fishing trip? Click on “Topographic Maps of Kansas Lakes and Reservoirs” for a list of available maps showing the topography of the bottoms of the lakes. However, you will need to order maps you are interested in from the KSG. How would you use the map? Well, one man I use to work with used the map to locate where the old river channel cut near the valley wall and fished with bank lines at that location. That way he could have bait a different depths to tempt whatever was feeding.

Now we finish up with the **Links** on the right side of the welcome page. Here you can access “GeoKansas”, “State Geologic Surveys”, Kansas sites”, “Universities”, “Professional Geological Organizations”, “US Government”, “Foreign Geological Surveys” (by Continent), etc. I hope this tour of the Kansas Geological Survey site will provide a bit of geologic fresh air for you to enjoy.

KANSAS STATE **UNIVERSITY**

FALL 2020

Topeka Gem and Mineral Society, Inc. Scholarship



Dear Topeka Gem & Mineral Society Inc,

I am very thankful for this scholarship and your support! You make going to school so much easier for the students that need to take out loans. All of the support that I receive is that much less that I have to repay in student loans in the end.

I chose K-State because my grandma used to work here as a painter so I was always exposed to K-State memorabilia growing up. I also came here often with her. Most of my family has also gone to K-State in some form or another so I was just destined to come here also.

I chose my area of study for two reasons. One, being that I used to do geology in 4-H and I was very good at it, and the other reason being that as a little kid I would bring rocks that I thought were cool back to my mom from the playground.

I have just recently joined the Williston Geology Club and got elected as an Event Coordinator. I'm really looking forward to being more involved with Geology this year than I was last year.

Again, thank you so much for you generous support! It means the world to me to have financial support from scholarships, especially because I am not receiving any other financial aid. Thank you so much for your incredible support!

Sincerely,

Ethan Senne

