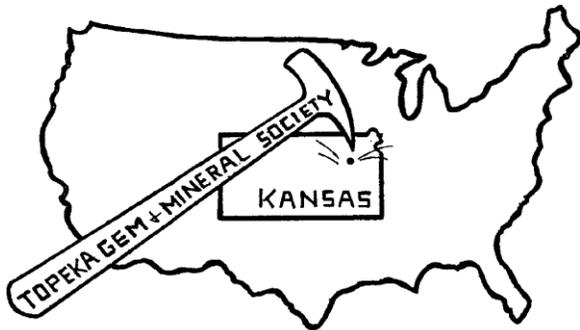


The Topeka Gem and Mineral Society, Inc
 1934 SW 30th St. Topeka, KS 66611
 Rock2Plate@aol.com

THE GLACIAL DRIFTER



www.topekagemandmineral.org

Facebook: Topeka Gem and Mineral Society Field Trip

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. 56, No. 10, Oct. 2013

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.

2013 OFFICERS AND CHAIRS

President	Mike Cote	220-3272	Cab of the Month	DebraFrantz/Fred Zeferjohn	862-8876
1 st Vice Pres.	Dave Dillon	272-7804	Field Trip Coord.	Larry Henderson	272-8444
2 nd Vice Pres.	Carolyn Brady	233-8305	Publicity	Christy Bien	608-1890
Secretary	Cinda Kunkler	286-1790	Welcome/Registration	Jason Schulz	379-5538
Treasurer	Millie Mowry	267-2849	Property	M. Cote/D. Dillon	379-5538
Directors	Clyde Burton	478-4778	AFMS Scholarship	Cinda Kunkler	286-1790
	George Reed	836-9277	Editor/Exchange Editor	Millie Mowry	267-2849
	Harold Merrifield	286-3548	Show Chairman	Harold Merrifield	286-3548
Historian	Deborah Scanland	273-3034	Show Dealer Chairman	Dave Dillon	272-7804
Federation Rep	Harold Merrifield	286-3548	Show Secretary	Cinda Kunkler	286-1790
Corporation Agent	Millie Mowry	267-2849	Jr. Rockhound Leader	Larry Henderson	272-8444
Librarian	Lucy Hrenchir	267-3325			
Web Master	Jason Schulz	379-5538			

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.

From the President – Mike Cote'

Members I am real proud of you all for helping with the show. I thought the show went pretty good. I know I spend a few dollars The dealers I talked were happy.

Bring any Best Choice UPC Labels that you may have as we are still collecting them.

Lessons will resume on Tuesday the 22nd at my house. These lessons are free to members who wish to learn how to cut, polish, and do silversmith work. Anyone interested in joining us, give David or me a call or email for directions. They will go as long as the temperature is bearable—as the building does not have heat.

The September general meeting will be held at Stoffer Science Hall room 138 at 7:30 p.m. The program will be Rock Identification. Bring all your un-identified rocks and we will try and put a name to them.

The Nominating Committee reported that all the Officers are retaining their positions again this year. The only position open for your vote is that of a Director to replace Clyde Burton for a 3 year term. We have two candidates for that position this year and they are: Lucy Hrenchir and Chuck Curtis.

The Annual Christmas dinner planned at McFarland's Restaurant, 4133 SW Gage Center Dr. in the lower level. You can choose from the regular menu at your own expense. This will be on December 6, 2013 at 6:30 p.m. **We need at least 25 -30 people to attend**, so bring your spouse, buddy, kids, or best friends. There is an elevator on the south end of the building that can be used instead of the stairs to reach the lower level. There will not be a general meeting or a Board Meeting for the month of December. At January's general meeting the program will be another silent auction. See you all at the next meeting.

Mike and his rock stash

SHOW REPORT

I would like to thank everyone who helped with the show. Without you all it would not be possible to do everything we do to put on a show. Thanks to everyone who showed up on Friday for the tables and cases setup and helping the dealers get in and out. Also to Marion Brown for the electrical work he does for us every show. A special thanks to Chuck Curtis for having the large flatbed trailer he has. It really did help in getting things in and out of our storage shed for the show faster. Also to Vicki, Yvonne, Brody and Candace for their help in getting the liners and signs from Millie house. Also to the ones who help Mike and I with getting the things out of the storage shed and back in. (George Reed, Christy Bien, Chuck Curtis) If I missed someone please forgive me. Also everyone who helped with the break down of our show on Sunday!! I would also like to thank Pete and Elena for the great food that they provided us for our show. The meat loaf plate was very tasty and as always they bring with them their very pleasant personality. It was a very good show and our new dealers were very pleased with the outcome and do want to come back as well as our regulars dealers. Great!!!! Also a special thanks to Mark Ellis for his dinosaur bone display and the free books for the kids. He will be our feature program for our November meeting so everyone needs to show up!!! See you there!!! Again a "Big" thanks to everyone!!!

Dave Dillon

Congratulations to this year's Kansas State scholarship recipient, Michael Kyllonen, Jr. It was a pleasure to meet Mike and his son Michael at our show this past weekend. The following letter is from him.

Spring 2013

I would like to send my sincerest gratitude for your generous donation that was awarded to me at the spring scholarship banquet. The Topeka Gem & Mineral Society, Inc. scholarship award meant a great deal to me for multiple reasons. I remember thinking how much of an honor it would be if I was the recipient for this particular scholarship award. Having an organization like yours so close to our community, allows many of us the ability to come together and enjoy something that we all have a passion for. But I think the most important reason was and still is the scholarship name because of my major being geology. The short distance between Topeka and Manhattan made it all that more special to me. The look on my face must have been priceless when they announced my name. Thank you so much for your generosity!

I'm originally from the small town of Mechanic Falls, ME. I enlisted into the Armed Forces after graduating from high school. My military affiliation is solely responsible for bringing me to the state of Kansas in 2002. I've enjoyed my time here in the Sunflower State, and I'm extremely proud of my service in the U. S. Army. I think that alone is the number one reason I committed to attending Kansas State University. It was important for me to attend this university because I felt that it would be a great achievement to graduate from this school, after being stationed in Kansas for so long. Fort Riley and Kansas State University do so much for the surrounding communities, and I am proud to be a part of that heritage.

I'm currently a junior who is pursuing a degree in geology, and I'm committed to receiving my degree and graduating within a few years. I earned an associate degree from Barton Community College, and I transferred to Kansas State last fall. I have attended Kansas State for two semesters, and I'm currently holding a 3.2 GPA. I chose to pursue a degree in geology because of my interest in Earth Science and Sciences, and respect what geology has taught us about our planet. My own interest in Earth Science and all of its related fields motivate me as I pursue my academic goals. I have not committed to any particular field just yet, and I'm still uncertain where my final destination will be after graduation. I am however, confident that wherever my education leads me, success for me and my family will be near by.

My spare time is limited because of my large family and academic commitment. I spend what little time that I do have, with my family enjoying the outdoors. I find much joy in turkey hunting with my son Michael, and share the remainder of that time, relaxing with my two girls Victoria and Katlynn. I have spent a significant amount of time in the past at the Manhattan boxing gym, but my hectic schedule has limited my time away from home. I enjoy running on the country roads outside of Westmoreland, and running at the local high school track. For me, running is an escape from reality, as well as a means of relaxation. Regardless of how busy I am, it was especially important for me to become involved in other activities affiliated with the university. My geology lab instructor invited me to an AAPG meeting, and I have enjoyed spending time with the Kansas State Chapter through the spring semester.

I have visited your website several times, and I'm eager to attend future meetings. The field trips offered by the Topeka Gem & Mineral Society, Inc. are intriguing to say the least. The organization as a whole appears both fun and interesting. Your direct involvement with children was a motivating factor for me to become directly involved. I will be attending classes at Kansas State this summer, but my intentions to attend meeting in the near future are as important to me as anything else. I would like to close this letter by thanking you once again Millie. Your donations to the Kansas State Geology Department are recognized by the entire university, and I'm especially appreciative for being the recipient of this award that is so dear to me. I would like to thank you on behalf of the geology department and my family. I look forward to meeting you in the future and thank you for all that you have done.

Sincerely,

Signed - Michael Kyllonen, Jr.

October Birthstones

Tourmaline and Opal

October is another month with two birthstone choices – Tourmaline and Opal.

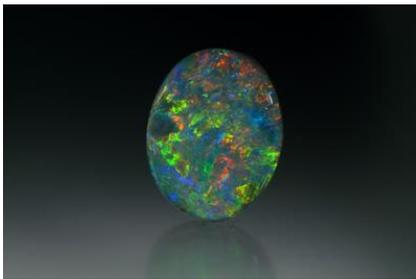
TOURMALINE

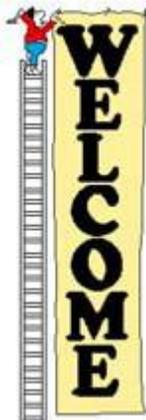
Tourmaline has become a favorite gemstone among jewelry designer, and gem collectors the world over. Since it is available in a wide variety of colors, it is ideally suited to almost anyone's taste. Tourmaline also is known for displaying several colors in the same gemstone. These *bi-color* or *tri-color* gems are formed in many combinations; gemstones with clear color distinctions are highly prized. One multi-color variety is known as *watermelon tourmaline*, and features green, pink, and white colors bands; to resemble its namesake, the gemstone is cut into thin slices having a pink center, white ring, and green edge. Tourmaline is found in many localities including Brazil, Afghanistan, East Africa, and the USA.



OPAL

The name *opal* derives from the Greek *Opallos*, meaning "to see a change (of color)." Opals range in color from milky white to black with flashes of yellow, orange, green, red, and blue. An opal's beauty is the product of contrast between its color play and its background. Opal is a formation of non-crystalline silica gel that seeped into crevices in the sedimentary strata. Through time and nature's heating and molding processes, the gel hardened into the form of opals. The opal is composed of particles closely packed in spherical arrangements. When packed together in a regular pattern, a three-dimensional array of spaces are created that give opal its radiance.





TO OUR NEW MEMBERS

Art Sandquest & son Patrick
Adele Aldrich
Judith Scherff
Dennis & Linda Orton
Russell & Rhonda Miller
Kristen Haug
Paul & Sally Lunsford

Herbert & Dorothy Seel
JoElla Heinisch
Marvin & Kathy Parks
Brady Salvatorelli
Bill & Joyce Lindeman
Tammy Vagts
Rev. Francis & Donna Stockton

TLC

Russ Montgomery, has been placed under Hospice care this week after a visit to the hospital. at



REPORT

Lois Bartley-Spencer, was involved in a 3 car accident while stopped at a stopped sign. She is bruised and resting at home.

TGMS Meeting Minutes of 9/27/13,

Mike Cote' called the meeting to order. Jason reported there are 29 members, door prizes were given out. Fred announced we have 7 member cabs, 2 class cabs and 1 member jewelry to vote on.

Minutes from the last meeting were read and had been printed in the drifter; Dave made a motion to accept as written, Chuck 2nd. Millie gave the treasurer's report; Dave made a motion to accept, Chuck 2nd.

Correspondence, - none.

Cinda reported the balance in checking for Millie – since she is on vacation!

Harold reminded everyone that we need help with set up Friday for the show.

Christy reported that the ad will go out next week in the paper, she needs to get with WIBW to pay for the ad they will have. Schools have not gotten flyers and Channel 11 no longer runs a community calendar.

Cinda said 4-H letters were out and had received some replies.

Historian, Deborah – was not there, not feeling well.

JR Rockhounds - Dave reported for Larry, there was no attendance for the round up.

Dave – Need vans to pick up liners from Millie's on Friday morning for the show. Vehicles to load up everything from the storage shed. The dealers are all lined up with three new ones, 16 regular and 2 demo. Some of the new ones are Bead and Opal dealers. We need stuff for the pebble pile, and grab bags are done.

Webmaster – Jason – no report.

Carolyn – program tonight is silent auction.

New Business: JR Rockhound badges were presented to Thomas, Robert & Ian Schultz - congratulations! Chuck is trying to update the Member of the Year list – some of the years on the list are not filled in – any information is helpful.

A motion was made & carried to adjourn to our program – Silent Auction – there was a LOT of rock to look over and buy!

Cab of the Month selections are: Member cab: Dave Dillon Australian Tiger Eye. Class cab: Yvonne Vandemeter, Super 7 Australian. Member Jewelry: Dave Dillon Turquoise & Sterling Necklace.

Respectfully submitted, Cinda Kunkler

DATES TO REMEMBER

MONTH of OCTOBER, 2013						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 Fossil Spc. Interest Group 7 pm Baker's Dozen	2	3	4	5
6	7	8	9	10	11	12
13	14	15 Fossil Spc. Interest Group 7 pm Baker's Dozen	16	17	18	19 Field Trip TBA 9 am Meet @ McDonalds
20	21	22	23	24	25 TGMS General Mtg Rock ID 7:30 pm Stoffer-Rm 138	26
27	28	29	30	31		

McDonald's—11TH & Kansas Ave., Topeka, KS.

Baker's Dozen---4310 SW 21st St. Topeka, KS.

MONTH of NOVEMBER, 2013						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 KC Show, 11730 NW Ambassador Dr. KC, Mo 10-7	2 KC Show, 11730 NW Ambassador Dr. KC, 10-7 pm
3 KC Show, 11730 NW Ambassador Dr. KC, 10-5 pm	4	5 Fossil Spc. Interest Group 7 pm Baker's Dozen	6	7 Jr Rockhounds 6:30 pm Class & Advisors Mtg	8 TGMS Board MTG Millie's 7 p.m.	9
10	11	12	13	14	15	16
17	18	19 Fossil Spc. Interest Group 7 pm Baker's Dozen	20	21	22 TGMS General MTG 7:30 pm Stoffer- Rm 138	23 Field Trip TBA 9 am McDonald's
24	25	26	27	28 Thanksgiving	29	30

KS City Show: 11730 NW Ambassador Dr. KC, MO 64153—www.kcgemshow.org has directional map

Public Facebook Page: <http://www.facebook.com/pages/Topeka-Gem-and-Mineral-Society-Field-Trips/92795058262>

Topeka Gem and Mineral Society Calendar: <http://topekagemandmineral.org/calendar.html>

Trips dates are tentative and subject to additions and change. E-mail Larry if you have an interest in any of these trips

LHenderson85@gmail.com

AZURITE

By: Russell Behnke

Azurite is one of the most popular minerals with mineral collectors. It is found in all price and size ranges. Being an ore of copper, it is found most abundantly in copper mines. Azurite crystallizes in areas above the water table where the original ore-bearing rock (which generally contains or contained copper sulfides such as chalcopyrite) is slowly, attacked by descending mineralized fluids. When conditions are right, and carbonate ions such as occur in calcite or limestone are available, these ions can combine with copper ions leached from the ore and the copper carbonates of azurite and/or malachite may slowly crystallize in open spaces in the rock.

The best crystals of azurite are generally found in places where the water table is far below the surface. Deserts, or near deserts, are ideal environments for azurites. The two most noteworthy sources for superb crystals, Tsumeb, in South West Africa (Namibia), and Bisbee, in southern Arizona, are both in very dry localities.

Tsumeb produced the largest azurites ever found. Just how large the largest one ever encountered would be is hard to say, as there were rumors of some extraordinary crystals that apparently were not saved. But certainly a few were saved that approached 10 to 12 inches long. Perhaps the most interesting of these exceptionally large crystals is a group of azurites which were once on display at the Newmont Mining office in New York. The crystals were nearly black, highly lustrous, with individuals to 8" long and the overall size and perfection of the group was most impressive. It was one specimen I dreamed of prying loose from its owner. Supposedly Newmont, which ran the mine in Tsumeb, bought the specimen from a bar. The story was that the specimen had been used by one of the miners to pay off a \$265.00 bar tab. Today it sits in the American Museum of Natural History in New York. It was

While no locality can equal the best of Tsumeb, Morocco has in recent years produced some very fine large crystals to perhaps 4 or 5 inches long. Bisbee was once a major source for fine crystals of several different habits, including rose shaped aggregates. The best roses have definitely come from Bisbee. One exceptional 4" rose sold for \$35,000 some years ago. In the last 10 years, azurite roses have been mined at LaSal, Utah, and Shilu, Guangdong Province, China.

These are generally a lighter blue than Bisbee roses, which are often nearly black, but are very lustrous. In some of the best Bisbee specimens bright blue azurite crystals appear to be growing out of malachite matrixes. Sometimes the azurites are pseudomorphal and are replaced by malachite, in whole or in part. Other Bisbee azurites occur not as crystals, but as beautiful botryoidal masses. Rarely, azurite stalagmites are offered for sale. Slices of such material may show alternating layers of malachite and azurite or just different shades of azurite. It is these different varieties and habits which make azurite an attractive addition to any collection.

(Source: reprinted from The Glacial Drifter March 1993)

Pictures From Wikipedia, the free encyclopedia



Malachite pseudomorph after azurite. With azurite, and unknown white crystals. From Tsumeb, Namibia.



Azurite from China with large crystals and light surface weathering.

JUNIOR ROCKHOUND
PAGE



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