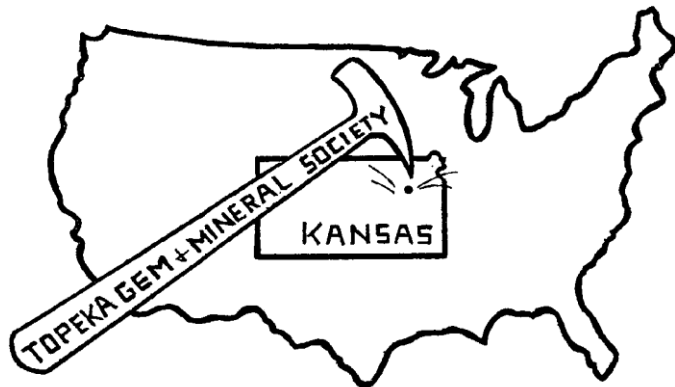


The Topeka Gem & Mineral Society, Inc.
 1934 SW 30th St. Topeka, KS 66611
 Rock2Plate@aol.com

THE GLACIAL DRIFTER



www.topekagemandmineral.org

Facebook: Topeka Gem and Mineral Society Field Trips



The Glacial Drifter, Vol. 56, No. 4, April 2013
 The Topeka Gem & Mineral Society, Inc.
 Organized December 3, 1948

Member of Rocky Mountain Federation of Mineralogical Societies
 American Federation of Mineralogical Societies

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; (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, except December, unless notified of a change, September – May, 7:30 pm, Stoffer Science Hall, Room 138, Washburn University. Picnic meetings held during summer months, June – August.

Dues: Individual, \$15.00; Husband and wife, \$20.00; Junior (under 18 years of age), \$5.00. Dues are due in December for the Coming year; they are delinquent after the January meeting. Send dues to Millie Mowry, Treasurer 1934 SW 30th St., Topeka, KS 66611.

2013 OFFICERS AND CHAIRS

President	Mike Cote`	220-3272	Cab the Month	Debra Franz/Fred Zeferjohn	862-8876
1 st Vice Pres.	Dave Dillon	272-7804	Field Trip Coordinator	Larry Henderson	272-8444
2 nd Vic 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	220-3272
Directors	Clyde Burton	478-4778	AFMS Scholarship	Louellen Montgomery	354-1290
	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 Chrm.	Dave Dillon	272-7804
Federation Rep	Harold Merrifield	286-3548	Show Secretary	Cinda Kunkler	286-1790
Corporation Agent	Millie Mowry	267-2849	Jr. Rockhouser Leader	Larry Henderson	272-8444
Librarian	Jim & Millie Mowry	267-2849			

Area Code for all numbers is 785.

Minutes of the Topeka Gem and Mineral Society

Date: 3/22/13

Mike Cote' called the meeting to order.

23 members and 1 guest present for the meeting. Our guest was introduced and door prizes were awarded.

The minutes from the January meeting were printed in the February issue of The Drifter. The February Meeting was cancelled because of the snow storm.

Millie Mowry gave the treasurers report. Christy Bien moved and Harold Merrifield 2nd to accept the report, motion carried. Dues are being accepted, no bills were presented.

Correspondence: Millie reported that the club received an invitation to the Cottontail in Colorado. She also shared a thank you card Marjorye Heeney received from a recipient of the grab bags that she had distributed.

Committee reports: Show Chair-Harold had nothing to report. Show Dealer-Dave reported he may have more dealers lined up than we will need at the show. When the show committee meets, they can decide which dealers we will have. Scholarship-Louellen has nothing new. Historian-Deborah has nothing new. Fieldtrip & Jr. Rockhound-Larry reported on the many activities that have been and those to come. Jr Rockhound classes have started with 5 at the first class, Brad taught, Ana put an article in the BBBS newsletter and Debbi J will be giving a talk at Osage City school. April 24th is Trailblazers. Dave added that Christy needs a volunteer to help her with publicity. Christy would like help getting contacts for home schooling, community calendars etc. Coupons were put out at the Kansas City show.

New Business: Bylaw changes, the updated Bylaws will be mailed out. Changes presented by the board were made after discussion of the following:

ARTICLE III – Membership Sec. 2. Add that 'Junior memberships requires, at least one parent or guardian who is responsible for the junior, to be a member.' A motion was made by Carolyn and 2nd by George to accept, motion carried.

ARTICLE IV – Dues Sec. 1. Change delinquent wording to read 'Members who are delinquent will be dropped from the membership rolls at the February meeting.' Louellen made a motion to accept the changes, Millie 2nd, motion carried.

Bobbie Anderson made a motion to change wording from 'man and wife' to 'Couple-same household'. Larry moved to accept the changes, Chuck 2nd, motion carried.

Carolyn reported that Dr. Laura Wilson, curator of the Sternberg Museum, will be our speaker next month.

With no further business, the meeting was adjourned. Our program for the meeting was Rock identification and a good time was had by all.

Fred Zeferjohn announced the Cab of the Month Winners are:

Member Cab: Dave Dillon – Victoria Stone, Member Jewelry: George Reed – Ruby Necklace, Class Cab: Mike Scott– Wood Agate. There were a total of 18 entries.

Respectfully submitted by Cinda Kunkler, Secretary

TLC REPORT

The doctors say that we are in for the worst 12 weeks of allergy season that we have ever had---so stock up on tissues.

Carolyn Brady will be going in for neck surgery April 15th. Our thoughts and prayers will be with her.

From the President – Mike Cote`

Members, everything is beginning to look a lot like spring! It won't be long till classes start back up, maybe the first of May. Dave & I will send out an email letting everyone know just when they will start. I was glad to see a lot of you at the last meeting and would like to see more attend the next meeting in April. We are having a special guest, **Dr. Laura Wilson**, from Fort Hays State University, Curator, Sternberg Museum will be presenting our program on Fossil & Modern Flightless Birds.

Hope to see ya all there, Mike Cote` and the rock stash

Address Changes / New Members

By now everyone has the new Club Directory and By-Laws. If there are any corrections to be made--- please let me know. Millie

Harold Merrifield's Email is: hpmerrif@scicablecom.com

Deborah Scanland's phone number is 273 not 272.

Late addition to list: Kim (& her daughter) Ledbetter. Please add them to your list.

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Junior Rockhounds....What is it and How do kids join?

Future Rockhounds of America is a nationwide nonprofit program within the American Federation of Mineralogical Societies that develops and delivers quality youth activities in the earth sciences and lapidary arts in a fun, family environment. Our underlying goals are to foster science literacy and arts education through structured activities that are engaging and challenging and by which kids—and the adults who mentor them—learn while having fun.

By signing up, you are a member of the Future Rockhounds of America (FRA) sponsored by the American Federation of Mineralogical Societies.

The only requirement for kids to obtain FRA membership is to be a member of Topeka Gem and Mineral Society, or any regional federation club with an AFMS affiliation. There are no dues to pay to AFMS.

Free badges can be earned in 20 different areas: Rocks & Minerals, Earth Resources, Fossils, Lapidary Arts, Collecting, Showmanship, Communication, Field Trips, Leadership, Earth Processes, Earth in Space, Gold Panning & Prospecting, Gemstone Lore & Legend, Stone Age Tools & Art, Rocking on the Computer, The World in Miniature, Special Effects, Fluorescent Minerals, Reaching Across Generations, and Maps.

There are 118 activities to choose from, or about a half dozen activities per badge, with kids required to complete only 3 activities to earn any particular badge. Contact your Junior Rockhound Coordinator for classes and check off lists in each of these areas. It is planned to have a webpage with the classes posted also (<https://www.facebook.com/TopekaJuniorRockhounds>).

The entire program manual, with all requirements, is available online through the AFMS link on the Topeka Gem & Mineral Society webpage. <http://www.topekagemandmineral.org/membership.html>

Those earning 6 of the 20 badges earn a "Rockhound" badge and those earning all 20 badges receive an AFMS cloisonné pin and become "Rock Stars" as a mark of accomplishment and distinction.

Larry Henderson, Coordinator

Shirley Schulz, Program Secretary

Field Trips - Dates to Remember



Trips dates are tentative and subject to additions and change. Call or e-mail Larry if you have an interest in any of these trips 272-8444 or LHenderson85@gmail.com We meet at McDonalds, 11th and Kansas Ave.

Tuesday night coffee, first and third Tuesday night, meets at Classic Bean, 7:00 p.m., at Fairlawn Plaza. We will discuss fossils and other collections. Come join us with show and tell. April 16 / May 7.

April 20, Fossil Expert, Gil Parker, will be having a "Garage Sale." To car pool meet at McDonalds 8:30 a.m., leave at 9:00a.m.

April 26th, 7:30 p.m. Club meeting, Friday, **Dr. Laura Wilson**, Fort Hays State University, Curator, Sternberg Museum will be our speaker. Program: Fossil & Modern Flightless Birds <http://sternberg.fhsu.edu/permanent-exhibitions/>

April 26-28, Wichita Gem & Mineral Show <http://www.wgmsks.org/show.htm>

April 27th, **Camp Hammond Display Booth**, 8:30 a.m.-3:30 p.m. Junior Rockhounds.

May 2nd Fort Leavenworth Earth Day Display Booth, Thursday, 8:30 a.m.-2:00 p.m., Frontier Conference Center, Fort Leavenworth

May 3-5, McPherson Gem & Mineral Sale & Swap

May 17-19, Long weekend Field Trip-Near Rapid City, South Dakota, for Fairburn and other Agates, with stops at Sioux Falls in Sioux Falls, South Dakota, and Ashfall Fossil Beds Nebraska State Historical Park.

<http://www.facebook.com/pages/Topeka-Gem-and-Mineral-Society-Field-Trips/92795058262#!/events/351537784957378/>



Help is needed for the some of these activities. If you can spare a few hours to help out please contact Larry at 272-8444 or LHenderson85@gmail.com or Carolyn Brady, at 233-8305. This would be for:
Camp Hammond – April 27th
Fort Leavenworth – May 2nd
Hutchison (not mentioned above) - pending

ZULTANITE



Zultanite is the trademark name of Turkish diaspore. Zultanite is most well-known for its color change properties, and has recently become popular in jewelry design. It was named in honor of the 36 Sultans who ruled the Ottoman Empire (1299 - 1923), prior to the formation of the modern Republic of Turkey. Used exclusively as a gemstone, Zultanite is only found in one deposit in southwestern Turkey's Ibir Mountains. Depending on the light source, the gemstone changes hue from pale green to purple or pink. The Gemological Institute of America classifies diaspore as a type II transparent gemstone.

Diaspore, the mineral type that produces Zultanite, formed in specific regions of Turkey under the influence of prolonged tectonic pressure. Mineral deposition from hydrothermal activity added additional chemicals to the mixture. Jewelers produced faceted diaspore gemstones as early as the 1970s. The highest quality diaspore deposits — which would later be known as Zultanite — were unearthed in Turkey in the early 1980s. Larger stones reveal a wider range of colors and a more obvious color change property. During the faceting process, lapidaries must discard much of the original stone in order to achieve the proper effects under lighting. Finished Zultanite ranges in size from three to five carats. Zultanite ranks between 6.5 and 7 on the Mohs Hardness Scale. It has a refractive index of 1.75 and a specific gravity of 3.39.

Source: <http://en.wikipedia.org/wiki/Zultanite>

Hints & Tips

Polishing Compounds

Black rouge is for gold, silver and German Silver Gives a high polish.

Green rouge is for platinum, chrome, stainless steel, and hard materials.

Red rouge is for gold, silver, and soft metals and materials.

White rouge is for the harder metals: platinum, chrome, stainless steel, and some of the harder materials.

Yellow rouge is for roughing in, as it cuts faster. It usually has a base of beeswax to hold the polish in. It is for hard materials such as chrome and stainless steel.

from HOMER'S CORNER date unknown; Via the Mountain Gem 3/2013

Alum is typically available from a food store. It's used to make a pickling solution. Use about a tablespoon per cup of warm water. Submerge your piece so that the partially

drilled hole is facing up to let the bubbles float free and not block the hole.

Gem Cutters News – April, 2013

*More Bench Tips by Brad Smith are at [facebook.com/BenchTips/](https://www.facebook.com/BenchTips/) or see the book *Bench Tips for Jewelry Making* on [Amazon.com](https://www.amazon.com)*



LED Bulb Recall

The Lighting Science Group has issued a recall of 120 volt LED lights sold under the brand names

Definity Ecosmart
Sylvania Westinghouse

and manufactured between Oct. 2010 and March 2011. The suspected bulbs are identified by a date code at the base of the bulb printed in the format "L4810, which would indicate the 48th week of 2010, i.e. Nov. 29, 2010 or similar. The bulbs may overheat and catch fire. For replacement bulbs, call 855-574-2533.

Gem Cutters News – April, 2013

BLANKETS FOR BOWLS

Does your fingers get hot when taking a glass bowl out of the microwave? A friend asked me if I could duplicate an item that she purchased at a craft show, so after looking it over, pulling it apart and examining it, I thought I could. It has worked so well that I thought I would share it with all of you. I'm giving it a name of Blankets for Bowls. You can set the bowl into the blanket, microwave it, and carry it to the table and pass it around without getting your fingers hot. Great idea!

Materials needed:

2- 10 inch cotton fabric squares

2- 10 inch 100% cotton batting squares (not polyester-it gets too hot and may catch on fire) can use Cotton with bamboo batting.

I use a 18 inch Dowel rod, sharpened somewhat to poke out corners

Sewing machine

Matching thread

I used temporary adhesive spray to hold the fabric to the batting – your choice – you can pin

Pencil & ruler

Attach the fabric to the batting with the spray or pin. Mark with a pencil from corner to corner on the batting and through the centers making 8 wedges on each batting piece.

Sew on each of the lines to hold the batting down on each of the 2 squares of fabric. Fold at the center stitch lines on one square and make a dart about 5/8 inch and taper down to within about 2 inches from center and exit. Do this on all 4 center lines (not the corner lines). Do the same on the other square.

Pin the 2 squares, right sides together, placing darts in opposite directions. Sew 1/4 inch seam starting at a center dart, around square, leaving an opening to turn. Trim off batting on both sides and corners. Turn inside out, and finger press. I pin around the square to hold it down and edge sew around it. Then you are done. For a larger bowl make it 12 inches square. They make great gifts also. Enjoy! By: Millie Mowry, TGMS

Color Changes in Tanzanite

Few purple gemstone species exist. Amethyst, of course, is a rather common variety of quartz, and it can be cut to yield flawless purple gems and has been used since the days of the ancient Greeks. In recent decades, a new purple gemstone has entered the market. Called "tanzanite," this stone is a variety of the mineral zoisite, orthorhombic $\text{Ca}_2\text{Al}_3(\text{SiO}_4)_3(\text{OH})$. Zoisite is more commonly known as the massive, bright green matrix in which sets off hexagonal crystals of ruby in specimens labeled "ruby in zoisite". Tanzanite is the purple to blue variety or zoisite. Interestingly, when found, tanzanite crystals are strongly trichroic – meaning they have three different colors. A tanzanite will appear to be violet, deep blue, or reddish brown depending upon the direction from which you are looking at the crystal. Most tanzanite crystals are reddish brown when found. All gem tanzanites are then heat-treated to yield a deep blue to purple color. Your jeweler won't mention this heat-treatment – if he even knows about it – because it is done to all tanzanites, it is considered a generally accepted practice. You can detect a heat-treated tanzanite because it is dichroic (it shows only two colors: blue and purple).

The perfect chrysolite

One mineral about which Shakespeare talks most specifically is the “Perfect chrysolite” cited in *Othello*, but it is unfortunately unclear to exactly which gemstone he is referring. The chrysolite (meaning “gold stone”) of the ancient Greeks and Romans may have been our modern-day topaz, while the topaz of the ancient Greco-Roman world was probably our modern-day chrysolite (a variety of olivine or peridot, a green stone, sometimes with a yellow tint). Although *Othello* was first performed before 1605, the first folio edition of the play was published in 1622. Thus, Shakespeare could have known about a “chrysolite” mentioned by Simon Maiolus in his *Dierum Caniculares* (1615-1619) which mentions an earlier work, *De Sculpturiis*, by Thetel the Jew, in which a “chrysolite” in the form of a woman is described as being a potent charm against fascination. Whether that particular stone was in reality an olivine or a topaz or some other mineral remains unclear. But Shakespeare may well have been alluding to Thetel’s stone when he has Othello, speaking of Desdemona’s purported unfaithfulness, claim that “had she been true, If heaven would make me another world, Of one entire and Perfect chrysolite, I’d not have sold her for it.” (*Othello*, V, ii)

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Black Swords from Japan

Glistening black swords of stibnite from Japan have haunted dreams of mineral collectors for the past century. The Ichinokawa Mine in Japan’s Ehime Prefecture closed more than 50 years ago and in spite of the newer production of large bladed stibnites from Chinese mines, the Japanese stibnites remain among the world’s mineral classics.

Stibnite has been utilized for millennia. Ancient Greek and Roman authors such as *Pedanius Dioscorides* (circa 40—90 AD) and *Gaius Plinius Secundus* (23 AD – August 25, 79 AD), better known as *Pliny the Elder*, referred to stibnite as *stibi*, *stimmi*, or **platyophthalmon**. The term **platyophthalmon** alludes to the popular use of powdered stibnite, which looks black, as a cosmetic for darkening the eyebrows to make ones’ eyes seem larger.

Stibnite, an antimony sulfide (Sb_2S_3 , orthorhombic) sometimes known by the alternative name antimonite, can occur as long thin striated crystals with sharply pointed ends. Fresh crystals have a black steel luster, making the sword analogy complete. After prolonged exposure to light, the surfaces of stibnite crystals tend to dull.

Somewhat fantastically, some authors have reported that Japanese gardeners, living in the vicinity of the mines, used meter-long stibnite crystals not as swords (in reality they would shatter if struck), but rather as plant stakes or as fence posts in miniature gardens.

An unusual property of stibnite is the development of “kinks.” Natural crystals sometimes display a bend or kink in an otherwise straight crystal. It is possible to create these kinks yourself. Hold a small crystal pinched between the thumb and forefinger of each hand, then apply a firm but gentle shearing force to the crystal. You’ll feel the crystal move slightly and you’ll see that a kink has developed in the crystal. Don’t try this with an expensive specimen as the kink cannot be reversed and any attempt to straighten the kink may result in the crumbling of the stibnite crystal.

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Live and Learn

Psychiatry students were in their Emotional Extremes class.

"Let's set some parameters," the professor said. "What's the opposite of joy?" he asked one student.

"Sadness," he replied.

"The opposite of depression?" he asked another student.

"Elation," he replied.

"The opposite of woe?" the prof asked a young woman from Texas.

The Texan replied, "Sir, I believe that would be giddyup."

Internet Humor

Junior Page



What have the Topeka Junior Rockhounds been up to?

The Topeka Junior Rockhounds group, have 7 active members. Thomas, Robert, and Ian Schulz have completed at least 3 activities in the Rocks & Minerals category and are having their completion forms submitted to the American Federation of Mineralogical Societies to earn their first patch. Congratulations! Brad Davenport has for the past 2 months been teaching the activities for the Rocks & Minerals category. Brad started this month into The World in Miniature. In May he is bringing in some different sand from around the world which the Junior Rockhounds will be studying and learning about.

Upcoming months will have the following classes:

May – Continue with Miniatures (Brad Davenport)

June – Fossils (Larry Henderson & Debbi Jackson)

July – Fossils (Larry Henderson & Debbi Jackson) / Introduction of Collecting (Pat Gilliland)

Aug – Continue with Collecting (Pat Gilliland) / Introduction of Showmanship (Pat Gilliland)

Sept – Continue with Showmanship (Pat Gilliland) / Introduction of Leadership (Jason Schulz)

Monthly classes are being held on the 1st Thursday of the Month starting at 6:30pm at the Town & Country Christian Church. The Topeka Gem & Mineral Society Advisors meet at the same time.

-Shirley Schulz, Program Secretary

Congratulations go all three of the Junior Rockhounds, Thomas, Robert & Ian Schulz. The others may not be far behind in getting their badges, so when you see them be sure and congratulate them for a job well done.

From all the Officers of TGMS