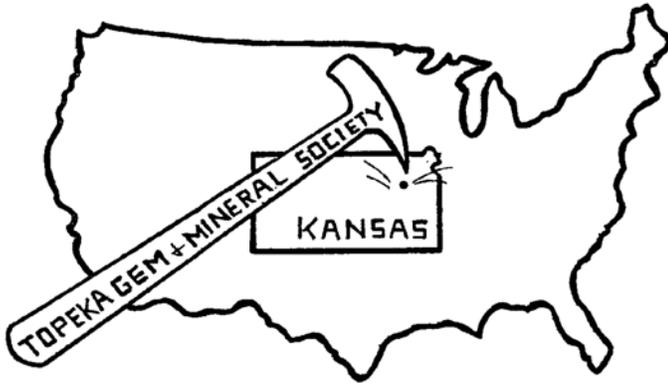


The Topeka Gem & Mineral Society, Inc.
 1934 SW 30th St. Topeka, KS 66611
 Rock2Plate@aol.com

THE GLACIAL DRIFTER



www.topekagemandmineral.org

Facebook: Topeka Gem and Mineral Society Field Trips



The Glacial Drifter, Vol. 55, No. 7, August 2012

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.

2012 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	Debra Franz	862-8876
Treasurer	Millie Mowry	267-2849	Property	M. Cote`/D. Dillon	220-3272
Directors	Jim Mowry	267-2849	AFMS Scholarship	Louellen Montgomery	354-1290
	Clyde Burton	478-4778	Editor/Exchange Editor	Millie Mowry	267-2849
	George Reed	836-9277	Show Chairman	Harold Merrifield	286-3548
Historian	Freda Tabor	273-0691	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			
Librarian	Jim & Millie Mowry	267-2849			

Area Code for all numbers is 785.

From the President's Rock Stash

We will still have classes this summer. See ya all at the summer picnics and at the meeting in Sept.

Stay Cool for the rest of the summer!
Mike Cote & the Rock Stash

LESSONS

Classes are now being held at Mike Cote house. His mailing address is 4910 Clark Rd. Meriden, Kansas 66512. He has a large Morton building that we are using. Everyone is very pleased with the larger space we now have. It is still on Tuesday night from 6-9. Do a map quest to get driving directions or call Mike at 220-3272.

Dave Dillon, davidd5124@aol.com Mike Cote`, mcote35@yahoo.com

*** Attention Members ***

To save some money we are going to start sending out the Drifter by email. To be sure you receive yours....make sure we have the correct email address. If you do not receive your copy.....or can not open it...contact Millie at rock2plate@aol.com or you can also go to the website to get a copy.
www.topekagemandmineral.org

TLC Report

Debra Franz is recovering from a heart attack. In their absents, others will be taking over the Cab of The Month and Welcoming Registration.

Dates to Remember



FIELD TRIPS

No word back from Larry as to what he has planned, so look for his email.

Scheduled TGMS Field Trips

We meet at McDonalds, 11th and Kansas Ave.

Other Opportunities

What to bring on Fossil Hunting Trips:

Something to pry fossils out of the ground. Long screwdriver, rock hammer, or pry bar
Something to put items in. Plastic bags, boxes, bucket, Eye protection, Magnifying glass,

Personal gear:

Hat, to shade sun, Suntan Lotion, Bug repellent. Wear sturdy shoes.

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

Larry Henderson, Field Trip Chairman

We need your **BEST CHOICE UPC Labels** --- Bring them to the monthly meeting.



Summer Picnic Time is Here



August is our last month for a picnic, on the 4th Friday of the month at 6:30 p.m. at Millie's house, 1934 SW 30th St. REMEMBER---we eat in comfort around my dining room table.

We will be cooking out on the grill—so bring your own meat to cook out on the grill. I will have the grill going and waiting for you.

Bring: your own table service, plate, cup, silverware & napkins.

Bring: a pot-luck dish or two to share

Bring: your own soda (coffee and ice tea will be furnished)

After we eat we will stuff the grab bags for the show.

The next scheduled meeting will be on September 28th at the Stoffer Science Hall at Washburn University at 7:30 p.m.

Come and have a good time!

Show Report

Dave has reported that he has almost all the Dealers signed up for our show. He is having new signs made so they will all be alike.

We will have sign up sheets at the August Picnic, so if you have a special time you would like to work, be sure to let Millie, Dave, Mike or Cinda know so they can get your name down. Remember if you do not work the show, you are obligated to pay at the door. We will need a lot of help to set up on Friday and for take down on Sunday. Some of us will be there all day Friday, Saturday & Sunday and we will be dragging by Sunday evening.

For those who have name badges, be sure to locate them as we need to wear them during the show. If you do not have one.....let Millie know so that they can be ordered. Last year they ran just over \$8.

Answers to Word Scramble: Ammonite, Bivalve, Coprolite, Crinoid, Dinosaur, Fern, Fish, Footprints, Gastropod, Insect, Invertebrate, Leaf, Mammoth, Petrified Wood, Shell, Teeth, Trilobite, Turritella, Vertebrate.

Dendrites vs. Moss Agates: Orbicular Jasper vs. Polka Dot Agate

We are usually delighted, but not surprised to find inclusions in crystal, e.g. quartz of one color or another, rutile, sagenite and "stars". The appearance of inclusions is obscured, our imagination takes hold.

Chalcedony (clear to cloudy), agates (clear but usually banded), and jasper (opaque) are all variations of silica oxides, with hardness between 6 and 7, which makes them very suitable for polishing. They may all have included material, and the nature of the inclusion is dictated by the composition of the host rock material and the manner of rock formation.

Dendritic chalcedony and moss agate are terms or names frequently applied to the same material. They are basically similar, but dendrites can form not only in chalcedony and agate, but also on limestone and soapstone and some sandstones. The dendrites form on a surface and are two-dimensional, like snowflakes or frost crystals on windowpane. If the rock is chalcedony, the dendrite forms on the surface, but more chalcedony may entomb it. The dendrites are usually earthy, black, brown, or reddish, but near Four Corners, in the eastern Mohave, near the junction of Hwy 58 & Hwy 395, rockhounds reputedly find blue.

The "mosses" of moss agate not organic material at all but chlorite or celadonite, are visible impurities in the agate. Scientists attempt to distinguish between the two by determining, if possible, whether the dendrite/moss or the material rock formed first. The moss forms while chalcedony is still gel like and can then form three dimensional shapes with the stone. Moss agate, also widely distributed, can be a variety of colors, green, black, white, yellow, red, orange, and tan. It is widely used in jewelry and polishes beautifully, if care is taken not to cut into and pluck the moss.

Multi-colored balls can appear in rhyolite flows. Rhyolite is a fine grained igneous rock, if it contains sufficient silica to take a brilliant polish. and is sometimes called jasper. Orbicular material usually appears as a mass of rhyolite that has silicate. As the rhyolite cools, sometimes excess silica starts to precipitate out of the magma, forming spherical balls. The ball shape is the form that are extremely concentrated silica (cristbalite) takes, as opposed to the crystal form in dilute concentrations. However, any material that by composition or consistency is immiscible (not mixable) with the host magma will also form balls.

Regional metamorphism can also form orbicular jaspers. We hear names like Rainforest Jasper from Australia. Leopard Skin Jasper from Mexico, Poppy Jasper from California and Ocean Jasper from Madagascar. We may find one color surrounding another, or bands of balls, veils of lighter colors staining the background. Polka Dot Agate, from Oregon, has iron rich spheres floating in a snowy extremely fine-grained jasper, along with veils of golden brown. The material is so fine-grained it is almost chert and resembles porcelain.

The rock distinction of jasper and chert is: if it's attractive, it's jasper; if it's dull, it's chert. Some jasper represents replaced limestone or dolomite, some occurs as nodules, and sometimes it is part of the gangue of mineral deposits by hydrothermal or metasomatic processes.

Agates are translucent and usually banded, with sub-vitreous luster: jasper is opaque with a dull to pearly luster; to a Rockhound, jaspagate is a fine mixture of the beautiful oxides.

Source: via Breccia, 09/08; via Rock Chip Reporter, 04/08; via Petroglyph, 06/03. via Calumet Gem. from The Tumbler 03/09 & the Pegatite Jan -1010, The Roadrunner June 2012..

JUNIOR PAGE

Paleontological Trading Cards

Mike Wingo has created a series of Paleontological trading cards which we will feature in the next few editions of Quarry Quips. The images on these trading cards are created using the most scientifically accurate and up to date dinosaur replicas, offered by Museums like the Carnegie, and The Boston Museum of Natural History. Sometimes actual resin dinosaur models are used, that are professionally built and painted by some of the best artists in the Paleo-modeling scene.

This month we are featuring Theropods. To get your trading cards print pages on card stock or on photo paper that has no printing on the back side. Trading Cards can also be downloaded from the Junior page at <http://wgmsks.org>. (Editor's note: There is a new set of cards this month.)

Source: Quarry Quips, July 2012

Fossil Word Scramble

MMAEITNO	_____
EELMNBTIE	_____
ELVVABI	_____
POORCTLEI	_____
NODRIIC	_____
SNODIRUA	_____
NFRE	_____
HIFS	_____
TOOPRIFTSN	_____
TSROODAGP	_____
SCINET	_____
RRNIBEEVTAE	_____
FELA	_____
MOTHMAM	_____
TERPIIFDE OOWD	_____
LESHL	_____
RITBILOTE	_____
RRUTILTAEI	_____
ETTHE	_____
TTEBARRVEE	_____

Source: Rock & Gem July 2012 issue.

Answers on page 4.