

Meeting
Second Tuesday of each month
Van Matre Senior Citizens Center
1101 Spring Street
Mountain Home, AR

<http://www.ozarkearthscience.org/news.htm>
<http://www.ozarkearthscience.org>

July, 2011

President/Editor	Vice President	Secretary	Treasurer/Proof Reader
Brenda Johnson	Edward Hakesley	Janel Cotter	Dorothy Hess
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We are a member of the Midwest Federation of Mineralogy.

Sharon Waddell: Liaisons Officer - 417-256-8948

MWF Assistant Micromounter: Brenda Johnson

OBJECTS: To study and promote an interest in the earth sciences; Geology, paleontology, mineralogy, archaeology and the lapidary arts.

Meeting: On the second Tuesday of each month at 7:00 p.m. in the Van Matre Senior Citizens Center, 1101 Spring Street (Cooper Park), Mountain Home, Arkansas.

Dues: Active adults \$12.00 per year or family membership of \$20.00 per year. Junior membership is \$4.00 per year. Nonresident membership is \$8.00.

The President's Message

July is here already and that means 2011 is half over. It doesn't seem like it could be possible since it was only yesterday that we were wishing for warmer weather. We haven't gone on a field trip at all this year and we really need to have one someplace. Please be thinking of what you would like to do. We have the option of geode hunting or going to collect quartz all year, or we could go as a club to a show held by another club and just silver pick. I know it is hot, but we really need to start making this a "rock hounding" club again. So let's think of a good place to go.

The President's Message continued –

If contact could be made for a trip to Kansas for fossils in the future, would you be interested? Let me know at the meeting how many would like to be included and I will start trying to find someone who might be able to lead us on a fall trip.

It is never too early for you to start thinking about who you want for your officers for next year. We need someone who will volunteer now to take on the responsibility of securing officers for nomination this November so they can be submitted for a vote in December. Anyone who would be willing to start talking to members about offices, please see me at the meeting. Or if you would like to be an officer, let me know.

Don't forget to bring all your giveaways to the meeting so that we can get them ready for our spin and win at our club show next month. So far, all is going well in preparation for the show. We hope to make this the best ever. It will take all your help to do so.

Be careful in this heat.

Brenda

There will be no regular program this month. We will be making up the spin and win prizes for our club show.

Refreshments this month are by Janel Cotter. Thank you Janel.

It's so hot: [Via *The Mountain Gem* and the *Internet*], July, 2011

When the birds have to use pot holders to pull worms out of the ground;

When the trees are whistling for the dogs;

When you discover in July it only takes two fingers to steer your car;

When the temperature drops below 95° and you feel a little chilly;

When you learn that a seat belt buckle makes a pretty good branding iron;

When you realize that asphalt has a liquid state;

And farmers are feeding their chickens crushed ice to keep them from laying boiled eggs.

The Minutes from the June 14, 2011 OESGMF Club meeting.

Brenda Johnson, Club President brought the meeting to order at 7:10

Welcome visitors included **Joe Moore**, **Jan Dawes**, and our special guest, **Patrick**, who is Dorothy's grandson.

Our presentation for the evening was from the "How the Earth was made" series, presented by **Edward Hakesley**. It was interesting information concerning the formation and changes that have occurred in the Sahara Desert.

Door prize winners were **Edward Hakesley** and **Janel Cotter**. Raffle winners included **Edward Hakesley** and **A.J. Johnson**. **A.J.** also won the beautiful bouquet of flowers that **Sharon Waddell** brought in to share with the group. [**Edward** gave his to our junior guest.]

A motion was made by **Sharon Waddell** and seconded by **Gretchen** to accept the minutes from the last meeting.

Discussion concerning the upcoming show in August: **Sharon** has the floor plans and will bring to July meeting and that nine vendors had paid with all wanting more space, **Edward** stated there are still areas that need to be filled by members and he gave information concerning college students who could possibly set up on Friday night and break down on Sunday. It was decided that the July meeting time would be spent making Spin and Win prizes along with any final touches that need to be addressed for the show.

The club treasurer, **Dorothy Hess**, reported the club balance is \$1440.35, and that \$100.00 had been used to buy program material. **Dorothy** also reported her findings concerning insurance. The club has a liability policy and is fully covered at the shows. Club members are not covered but visitors are. She has a copy of the group policy, there is a \$1000.00 deductible.

Brenda and **Harvey Johnson** reported on their Micro Mount presentation at the Northern Mississippi Gem and Mineral Club meeting. It was a huge success, especially with the junior members.

Show and Tell: Numerous trilobites; **Ed** displayed his specimens from Utah, **Brenda** showed trilobites from different area around the world, **Sharon** shared trilobites from her son's collection, **Dorothy** showed her polished agates; **Gretchen** also displayed trilobites.

Refreshments were provided by Brenda and **Harvey Johnson**.

The meeting was adjourned at 8:35 PM

Sun stroke/sun exhaustion; from the desk of club safety director, Aradasa Johnson

SUN SAFETY

http://www.amfed.org/a_safetyAFMS1.htm#SunStroke

Do you ever hunt rocks on a warm to hot day? Garden? Hike? Or something else active? Then, in much of the United States, you'd best learn to recognize the symptoms of thing going wrong when we get too hot.

HEAT CRAMPS are the less serious, but still dangerous a result of too much heat. These are spasms of the muscles brought on by exertion in hot weather. Many times, the calves are the first muscles affected.

What causes cramps? Intense sweating followed by drinking of salt free water. They are more likely to occur if you're out of shape, in poor health, tired, or have been drinking alcohol. BUT, they can occur to anyone! To avoid cramps, take it easy in hot weather, eat salty foods or take salt tablets, or drink athletic drinks that have salt in them. If cramps occur, stop, get in a cool place and rest, stretch and message the cramped muscle. Drink something salty.

HEAT EXHAUSTION occurs when you run out of body salt and/or water. Symptoms are fatigue, lightheadedness, thirst, maybe cramps, spasms, nausea and/or vomiting. Mental ability will be normal. Low grade fever (99° to 102°), a rapid pulse, and dehydration are often present. In **HEAT STROKE**, the most serious effect, the individual will have a high fever (104° to 106°). There will be mental confusion, unusual behavior, convulsions, or coma. The blood pressure may be dangerously low from shock.

IMMEDIATE CARE for heat exhaustion or heat stroke includes moving the individual to air-conditioning, lying on their back, with a fan if available. Remove or loosen tight clothing, place cool compresses on forehead, neck, and under arms. You may sprinkle water on them, but do not put them into a tub or swimming pool. If they vomit, give them nothing by mouth. Otherwise cold, salt-containing liquids will help. Use 4 teaspoon salt in 1 quart water and give them four oz. every 15 minutes. If symptoms persist, or if they are unconscious, transport immediately to a hospital.

Remember, some people tolerate heat better than others. Even though you feel fine, if any of the above symptoms starts, act immediately. Continuing on and insisting "I'm O.K." or "I'll be O.K. in a minute", is NOT the way to go. It can only make things worse.

Reference: COMPUSERVE FIRST AID SECTION

Via the *Pegmatite*, January, 2011

If you put your purse in the passenger seat and the alarm makes you fasten the seat belt, you might be a rockhound!

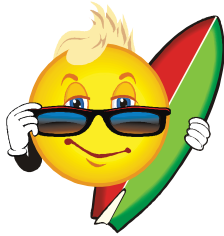
Beach Glass—People are very serious about collecting it! [Via the *Pegmatite*, January, 2011]

The North America Sea Glass Association [NASGA] holds an annual contest with multiple categories that grant high dollar prizes! First place for Shard of the Year wins \$1,000. The 2010 prize was awarded for a beautiful orange and yellow piece. It almost looks like candy! [There are no photos available.] Check out the website at www.seaglassassociation.org.

Greens and browns are common. Blues are harder to find. Cobalt or cornflower blues although rare, can be exquisite. Aqua and sea foam are even more rare but are widely pursued for home décor projects. Most purples were originally clear, the manganese in them slowly oxidized. Yellow and oranges and ultra-scarce red are the most sought after colors.

Hobbyists affectionately know as; shard heads, glass heads, shard patriarch, godfather of sea glass, are all very protective about their “target-rich environments.” It takes 30 years of wave action and high water ph to pit surfaces and smooth edges. Some of these target-rich environments (tre’s) are on deserted shores where ships have run aground many years past. Late summer and fall storms turn up the biggest selection of treasures.

For a nice slide show, go to www.parade.com/seaglass.



**On Identification
[Author unknown]**

I’ve looked into Pough’s
And I’ve memorized Mohs.
I’ve even paid Dana a visit.
But when it’s all said,
I still scratch my head,
And sit here and wonder –
“What is it?”

Via The *Mountain Gem*, June, ‘11



Mount St. Helens Emerald Obsidianite

By Shirley Unruh

McPherson (KS) Club Member

Via the *Post Rock*, April, 2011

On May 18, 1980, Mount Saint Helen's erupted with the force of 500 atomic bombs, leveling about 200 square miles. Thirteen hundred feet of earth was blown from the top of the mountain, sending a cloud of ash about 60,000 feet into the air. Communities were overwhelmed with what to do with all this ash. Farmers tilled the ash into their fields, providing rich nutrients for the soil.

A timber company was working in the Spirit Lake area at the time of the eruption. Their equipment was buried under the ash, so they sent a crew to see if they could salvage some of the equipment. As they were using acetylene torches to cut into the metal they noticed that the gray ash was melting and turning a greenish color. The pulverized volcanic rock rich with silica, aluminum and iron with traces of chromium and copper, was melting into a form of obsidianite. What followed was the creation of a semi-precious gemstone they call Mount St. Helens Emerald. Mount St. Helens Obsidianite is related to Hawaiian Olivine which is created from the Hawaiian volcanoes, also Lassenite from Lassen Peak, CA, and fire obsidian from Glass Buttes, OR. Other gems with volcanic origins include emeralds, diamond, garnet, peridot and topaz. When lava cools quickly there is no time for mineral crystals to form, and the result is volcanic obsidian.

The first stones were a yellow green color, but the shade of green varies because the trace elements vary from one eruption to the next. The rich emerald color of emerald obsidianite comes from trace elements that are naturally found in the volcanic rock when fused at temperatures near 2700°F. Stones that are created today come from material blown from minor eruptions since 1981. Gems fused under the highest pressure are the purest. The emerald colored stone has excellent refraction and quartz-like durability. The hardness of Mount St. Helens Emerald Obsidianite is between five and six on the Mohs scale.

Mount St. Helens jewelry is now offered in a rose colored gem, and in a violet/blue gem they call "twilite" that is similar to tanzanite. Lloyd Gladson, a glass blower from Washington State uses ashes from Mount St. Helens to create pieces of glass artwork.

Sources: <http://www.mt-st-helens.com/obsidianite.html>
<http://www.emeraldfox.com/>

American Profile, September 6, 2008



Bench Tip:

MAGNETIC PIN FINISHER

There is a good article about making your own magnetic tumbler at <http://www.rchristopher.com/tech/tumbler.html>. The person reporting this on the Yahoo Groups Jewelry Casting list says he's made two units from these plans and they work very well. In addition to the primary job of burnishing and polishing finished pieces, he also uses the units for cleaning investment from castings. The stainless steel pins are available from either Gesswein or Rio Grande. Pumice wheels are good for touching up a bezel after you've set the stone. The hardness is about 6 on the Moh's scale, less hard than quartz, so it shouldn't scratch any of your jaspers. However, I'd avoid or be real careful of using pumice near the softer stones like turquoise, amber, howlite, etc. If you're unsure that a wheel is pumice, test it with a piece of glass. Glass is about 5 ½ on the Moh's scale. If it doesn't scratch glass, it shouldn't scratch quartz.

Submitted by, **Brad Smith**

More BenchTips by **Brad Smith** are at groups.yahoo.com/group/BenchTips/

Or

Facebook.com/BenchTips via **North Mississippi Gem & Mineral Society, June 15, 2011**

CLIFFS OF MISSOURI by **Kitt Kitterman**, via the *Lake Rocker*, June, 2011

In reading the May 2011 issue of The Missouri Conservationist, I gained a new perspective of the cliffs of Missouri. The title of the article is "Cliff Hangers". It described the variety of flora that can be found on the different rock cliffs. Sometimes we Rockhounds get so engrossed in the rocks that we forget to look at the beautiful scenery around us. Our limestone and dolomite cliffs are abundant with eastern red cedar and Ashes juniper along with lacy ferns, wildflowers and other woody plants. The Gasconade River has carved out dolomite cliffs. The bluffs of Iron, Shannon, Reynolds, and Wayne counties are sparsely covered due to the fact that they are igneous rhyolite and granite. These are not too friendly to plant life except that which grows in crevices. The Johnson's Shut-ins is an example of such habitat. Of course, we've all seen the chert cliffs here in the Lake of the Ozark area. Callaway County has moist chert cliffs so you may see a variety of ferns. Pickle Springs has dry and moist sandstone formations which are home to the short-leaf pine and mountain azalea. Dry sandstone welcomes stunted oak and hickory, grape vines and sedges. Subscription to The Missouri Conservationist is free to adults living in MO. Write to Missouri Dept of Conservation, Circulation, and P.O. Box 180, Jefferson City, MO 65102.

Itsy Bitsy Teeny Weeny Mosasaur!
By Carmen Amos, the *Post Rock*, April, 2011

Yes! That is right! I said Mosasaur!

On September 25, 2010, I made the discovery of my life, so far, on a field trip lead by, **Lois Larson** to the chalk beds of Western Kansas. So there I was deep into the exposed chalk beds just so happily picking up every Boji Stone (Marcasite) I saw, thinking this couldn't get any better, when it happened! At first I thought it was just another one of the large clam shells (Inoceramus) but the closer I got the more peculiar it looked. It had little pointy things on it and it was a weird half-round shape.

Were they? They were! They were teeth!

It was a small frontal piece of a jaw bone. I was amazed. I called my father over to look at it. After handing the small piece off to him, I realized what the long curved shape was sticking out of the chalk. From far away it had looked like a weathered piece of wood, but it was unusual. It was the long lower piece of the jaw bone. Before I could pick it up my father suggested I take a picture, so I quickly took a picture with my cell phone and proceeded in my moment of glory and picked it up. It was the best feeling in the world. Nothing was enough to express the joy I felt. After further examination in the field it was decided that it was an infant juvenile Mosasaur jaw bone. Never a happier moment in my life! Soon after having identified it, we set off to our next stop that day, just a few miles away.

At stop number two my luck continued and I quickly found the remains of what perhaps was an X-Fish, which had a beautiful single vertebrae and yet another piece of jaw bone.

That day I also found some beautiful pieces of fish fin but nothing could compare to my not-so-itsy bitsy teeny weeny juvenile Mosasaur jaw bone.

What is Ant Hill Garnet? [Via the *Pegmatite*, January, 2011]

Arizona Chrome Pyrope garnet comes from the Navajo Reservation in Arizona, USA. These are not commercially mined gems, due to their occurrence. Ants will remove them when they are building or repairing their ant hills. People will collect them by picking the rough stones up by hand after the ants have excavated them out of their colonies. Trade names include: Arizona Ruby, Ant Hill Garnet, and Chrome Pyrope.

**OZARK EARTH SCIENCE CLUB
GEMS, MINERALS, & FOSSILS**

WHO WE ARE: The Ozark Earth Science Gem, Mineral & Fossil Club is a non-profit organization. Our goal is to promote an interest in the Earth Sciences: Geology, Paleontology, Mineralogy, Archaeology, and the Lapidary arts. We are members of the Midwest Federation of Mineralogical and Geological Societies. Adults and children of all ages are welcome.

WHAT WE HAVE TO OFFER:

- * **A MONTHLY NEWSLETTER** CONTAINING INFORMATION ON OUR CLUB, UPCOMING SHOWS, CLUB EVENTS AND ARTICLES OF INTEREST.
- * **A WEBSITE** WHERE PAST AND CURRENT NEWSLETTERS ARE AVAILABLE, AS WELL AS LINKS TO RELATED SUBJECTS: <http://www.ozarkearthscience.org> (or) <http://www.ozarkearthscience.org/news.htm>
- * **MONTHLY MEETINGS** ARE HELD THE SECOND TUESDAY OF EACH MONTH AT THE SENIOR CITIZENS CENTER LOCATED AT 1101 SPRING ST., MOUNTAIN HOME, ARKANSAS – 7:00 P.M.
- * **FIELD TRIPS** TO LOCAL QUARRIES AND OTHER COLLECTING SITES.
- * **SATELLITE MEETINGS** FOR MICROMOUNTERS (Explore minerals & fossils using microscopes).
- * **ANNUAL SILENT AUCTION** HELD EVERY OCTOBER CLUB MEETING.
- * **SHOW & TELL** AT EVERY MEETING (Club members, and guests, bring minerals & fossils they have collected to talk about them).
- * **DOOR PRIZE** DRAWINGS AT EVERY MEETING.
- * **MONTHLY RAFFLE** TICKETS SOLD AT MEETINGS FOR ONE MINERAL & ONE FOSSIL.
- * **FREE ANNUAL 2-DAY SUMMER SHOW** WITH DEALERS/VENDORS/DEMONSTRATIONS/DRAWINGS/PRIZES
- * **CHRISTMAS PARTY** HELD AT OUR DECEMBER MEETING, GAMES, PRIZES, & LOTS OF GREAT FOOD.
- * **LOW ANNUAL MEMBERSHIP COST--** ADULT ACTIVE MEMBERSHIP- \$12.00
FAMILY ACTIVE MEMBERSHIP- \$20.00
JUNIOR ACTIVE MEMBERSHIP (18 & under)- \$4.00

OZARK EARTH SCIENCE CLUB GEMS, MINERALS, & FOSSILS Continued -

NON-ACTIVE MEMBERSHIP (newsletter only) - \$8.00

(CAN JOIN AT ANY TIME – ALL RENEWALS DUE IN DECEMBER ANNUALLY)

MEMBERSHIP APPLICATION

Name: _____ **Birth date (month and day only)** _____

Name: _____ **Birth date (month and day only)** _____

Name: _____ **Birth date (month and day only)** _____

E-Mail: _____ Phone: _____

Address: _____

Membership Type: _____ Amount Paid: \$ _____ cash/check# _____

Special Interests (circle) Rocks/Gemstones – Minerals - Fossils – Lapidary – Faceting – Jewelry – Field Trips - Other

Willing to help by: () serving as officer () serving on committee () helping with annual show

() presentation or teaching () study groups () social functions (other) _____

Payments can be mailed to: **OZARK EARTH SCIENCE CLUB, DOROTHY HESS (Treasurer)**
1177 County Road 1084, Mountain Home, AR. 72653

FOR MORE INFORMATION PHONE: 870 -481-5944 or 424-0956 or 481-5697

Don't let this happen to you –as seen in the *Pegmatite*, January, 2011

The fattest knight at King Arthur's round table was Sir Conference. He acquired his size from eating too much pi.

Dates to Remember

July

- 12 OESGM&F Club meeting; Van Matre Senior Citizens Center, 1101 Spring Street, Mountain Home, AR**

- 7-10 AFMS/EFMS Show and convention in Syracuse, NY.**

- 9-10 Roseville, MN summer show; 2100 Snelling Avenue**

- 11 Lincoln, NE Grinding Party, Pioneer Park Nature Center, Lincoln, NE**

- 16-17 Moose Lake, MN, Annual Agate Days; Moose Lake High School, 413, Birch Ave.**

- 29-31 NFMS; Chehalis, WA**

**Dorothy Hess
1177 CR 1084
Mountain Home, AR 72653-6203**

