

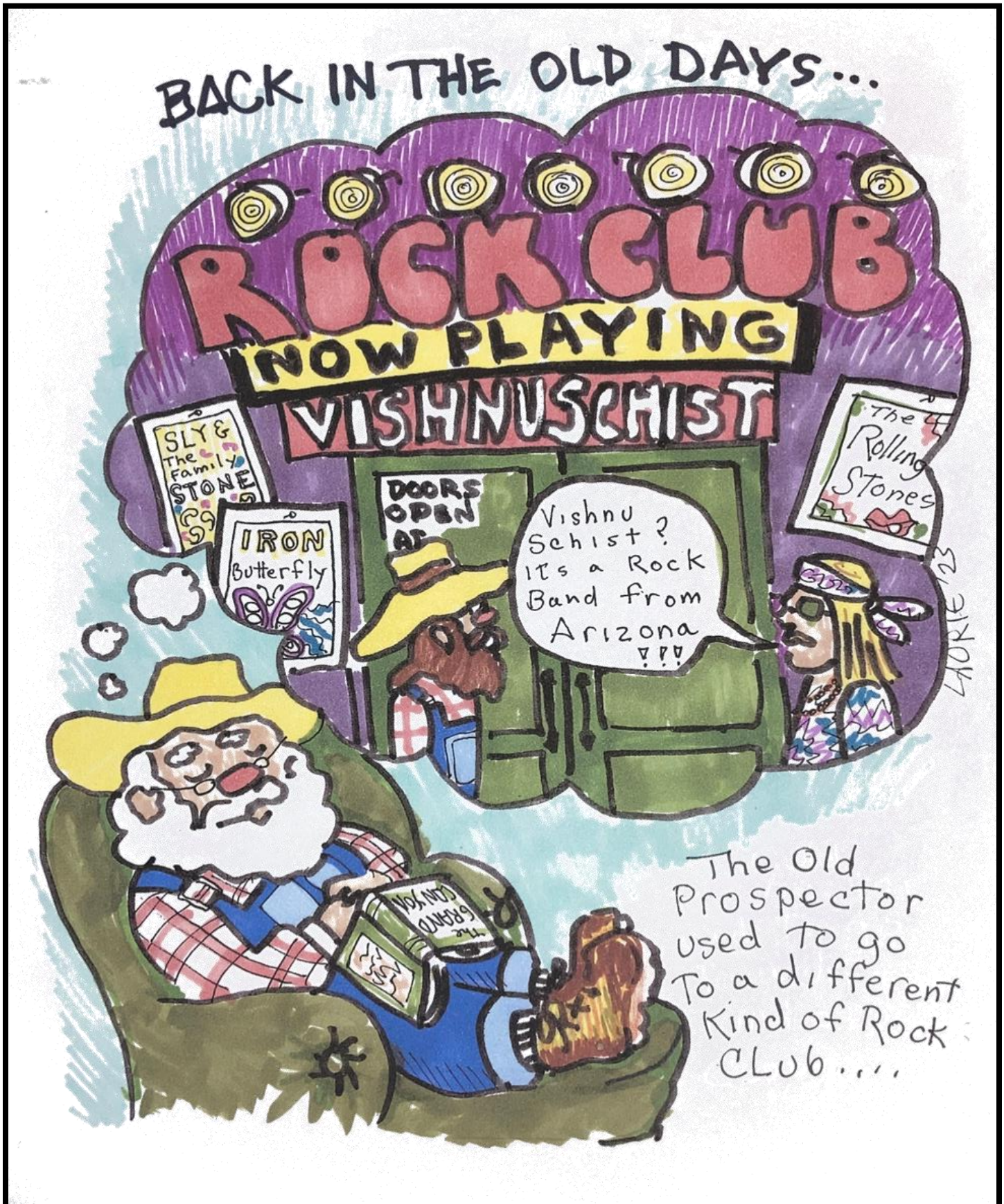


DAISY MOUNTAIN ROCKCHIPS

The purpose of Daisy Mountain Rock & Mineral Club is to promote and further an interest in geology, mineralogy, and lapidary arts, through education, field experiences, public service, and friendship.

VOLUME 8, ISSUE 6

JUNE 2023





VERMICULITE

By Susan Celestian

Vermiculite is a hydrous phyllosilicate (sheet silicate), in the same mineral group as muscovite, biotite, chlorite, talc, clays, and so on. The name derives from Latin *vermiculare* (“to breed worms”), for the way it exfoliates when heated. See it happening [here](#) and [here](#).

Chemical Formula - $Mg_{0.7}(Mg,Fe,Al)_6(Si,Al)_8O_{20}(OH)_4 \cdot 8H_2O$

Crystal System - Monoclinic (Go to https://www.minerals.net/mineral_glossary/monoclinic.aspx

for interactive images.)

Growth Forms/Habits - Platy, scaly, clay

Hardness - 1.5-2

Luster - Vitreous-dull, greasy

Streak - Greenish-white

Color - Brown, bronze-yellow

Diaphaneity - Translucent

Specific Gravity - 2.3-2.7

Cleavage - One perfect direction

Fractures - Uneven

Occurrence - Weathering or hydrothermal alteration of biotite or phlogopite in mafic rocks.

Other - Expands 8-20x when heated.

Uses - See [Page 7](#)



FIGURE 1 VERMICULITE CRYSTALS This is an aggregate of platy crystals of brownish vermiculate, from Aakkila, Tuusniemi, Eastern Finland Region, Finland. Image by Leo Hupperichs and licensed under [CC BY-SA 3.0](#).

Vermiculite continued on page 7....

WIRE WRAPPING

Photos by Rebecca Noel & Susan Celestian



Watch your emails for the summer schedule. The class meets in July and may meet in August, even though there are no club meetings those months.



INSIDE THIS ISSUE

Each item is now hyperlinked to the page on which it is found

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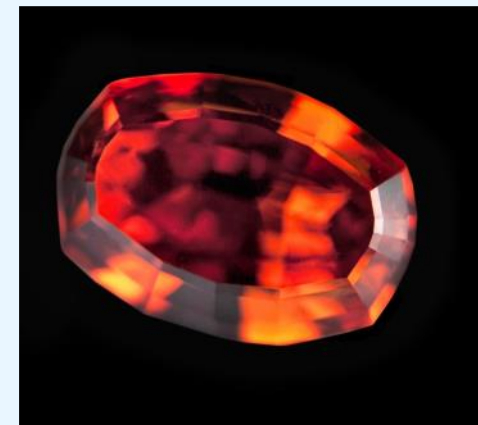
JUNE SPEAKER

USING MINERALS & GEMS TO ILLUMINATE ART & SCIENCE

By Dr. Aaron Celestian, Curator, Natural History Museum of Los Angeles County Gem Hall



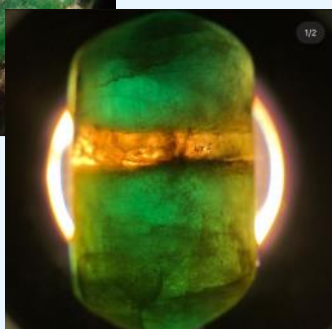
This brooch is made of all nearly all Montana sapphires, with accents of moonstone and rubies. Created by Paula Crevoshay and owned by Gail Spann. Photo used with permission of NHMLA



This is a brilliant spessartine garnet from California's Little Three Mine. Photo used with permission of NHMLA



There is a new and very unique occurrence of emerald in California. It will undoubtedly provide some illuminating mineralogy! Photo used with permission of NHMLA



Dr. Celestian presented an eye-catching narrative on the development of community connections and exhibit development, with the goal of exciting visitors and illuminating them with respect to the science of the exhibits.

Recently, the NHMLA Gem Hall staff has teamed up with famous jewelry designers and famous jewelry wearers to create some exciting temporary exhibits. There are many components to a successful and scientific exhibit:

- Connections
- Object selection
- Design: people flow, security, science, arrangement, lighting, ADA compliant labelling
- Fabrication
- Installation
- Marketing

In Summary, Aaron says he is :

- *Finding opportunities to share science and establish trust (including exhibits, social media presence, publications in respected open science publications)*
- *Building links between art, science and the people around me*
- *Working with local partners and the community leaders*
- *Making new connections/discoveries that interest my audience*

FOLLOW AARON ON INSTAGRAM: [nhmla_gems](https://www.instagram.com/nhmla_gems)
AND ON HIS BLOG <https://aaron-celestian.medium.com/>

Legendary

LACM 14461

Concoidal

ω 1.756, ϵ 1.802

Sapphire blue, white to colorless, pink

Stage 5

Uses built-in AR on iPhone/iPad

1. Click on the QR code
2. Click screen to download AR
3. Click screen to place image on flat surface

This is one example of NHMLA's efforts to engage their audience in further exploration into minerals. Give this a try with your cell phone! (And look into Adobe Aero)



FIRST AID

By Gregg Josey

A well-stocked first aid kit is handy and essential for each and every rockhounding trip.

First aid kits come in many shapes and sizes. You can purchase one already stocked and ready to go or prepare and customize your own. Whether you buy a first aid kit or put one together, make sure it has all the items you might need.

1. Include any personal items, such as medications, emergency numbers or items your health care provider may suggest.
2. Make a list of items included in the kit and check it regularly.
3. Check expiration dates and replace any used or out-of-date contents.

This is a list of items I keep in my first aid kit and is brought on every field trip:

Josey First Aid Kit

Emergency first aid manual	Flexible splint 36in x 4.3in
Tweezer set (4)	Tourniquet
CPR Mouth Barrier	1 in cloth tape
Roll 2in gauze	Small nail clippers
Alcohol prep pads	Scissors
Assorted Band-Aids	Flashlight
2x2 gauze pads	2 pk Chest Seal
3x3 gauze pads	Ibuprofen 200 mg
4x4 gauze pads	Pen and paper
Q-tips	3 in self-adhering elastic bandage
Space blanket	Israeli 6 in bandage

If you are ever involved in any situation where an injury is involved, please notify the trip leader or any other board member that is available.

Be safe and happy rockhounding.

FIELD TRIP to LYNX CREEK

Saturday, June 3, 2023

Photos and text by Bill Freese

Hi Everyone. The DMRMC had their last scheduled field trip of the season this past Saturday to Lynx Creek. There were 14 people that went to the public area for gold panning on Lynx Creek in Prescott. It was a beautiful day and a relaxing activity. Everyone found a few flakes but no nuggets. LOL Always a fun end to the season. The busy schedule will start again in September. We have a couple events over the summer but not a full schedule.



FIELD TRIP TO ARIZONA MUSEUM OF NATURAL HISTORY

Wednesday, June 28, 2023

Photos and text by Bill Freese

DMRMC had a local trip to the Arizona Museum of Natural History in Mesa, AZ. My family has been members for 20 years, so we thought we would share with some folks from the club. It was a small group, but there is a bunch of the club members gone this time of year. We all got out of the heat for a while and enjoyed the displays. My son, Colton, helped to lead the tour. (he has only been there hundreds of times - LOL) It was good!



Lots of dinosaurs to be seen!
Archaeological displays. Arizona
type-mineral exhibit. Arizona in the Movies.
Minerals & Meteorites. Venomous Animals
of the Sonoran Desert. And more!



Dinosaur Mountain, a 3-story diorama, down which a flash flood roars, every 20-30 minutes. The various animals on the mountain can be viewed from different floors of the museum.



[https://
www.arizonamuseumofnaturalhistory.org/](https://www.arizonamuseumofnaturalhistory.org/)

...Vermiculite continued from page 2

USES OF VERMICULITE



FIGURE 2 EXFOLIATED VERMICULATE Heated vermiculate expands or exfoliates, creating air pockets. Photo by Jungle Rebel and licensed under CC BY 2.0.

Low thermal conductivity, thermal resistance, water content, absorbency, sound dampening, and mixability make vermiculite a versatile industrial mineral.

SOIL ADDITIVE/ADDITIVE TO SOILLESS/HYDROPONIC GROWING MEDIA: Retains water in potting soils, and can be used as a soil germination medium

ROOT CROP STORAGE: Packed around bulbs and other root crops, vermiculite absorbs water, thus forestalling rot during storage.

MOLDED SHAPES: Mixtures of vermiculite with cement, sodium silicate, or others are pressed into molds that can withstand heat up to 1150°C. These molds/molded boards are used in aluminum smelting, fireplaces, acoustic panels, fireproofing around steel & pipes, and as refractory insulation.

AUTOMOTIVE BRAKE LININGS

LOOSE-FILL INSULATION: In house attics/walls, water heaters, safes, stoves/furnaces, and refrigerators, vermiculite increases fire resistance and dampens sound.

REFRACTORY LINING/INSULATION: Mixtures of vermiculite and high alumina compounds (cement, shale, clay, slate, sodium silicate) are used as refractory linings in the iron/steel, cement, and hydrocarbon processing industries..

FIREPROOFING: Added to wallboard, vermiculite extends its fire resistance.

HIGH TEMPERATURE COATINGS: Vermiculite 'paper' is used as coatings or binders for gaskets, specialty papers/textiles, oxidation-resistance for carbon-based composites, and barrier coatings for film.

WASTE TREATMENT: Water retention and ion exchange capabilities make vermiculate useful in wastewater treatment, chemical processing, pollution control of air and gases in mines and industry. Also absorbs liquids, so they can be disposed of as a solid.

PACKING MATERIAL

LIGHTWEIGHT AGGREGATE in concrete, mortar, and like materials.

CARRIER FOR AGRICULTURAL CHEMICALS: Facilitates ease of handling and slow release.

IN COMMERCIAL HAND WARMERS

EXPLOSIVE STORAGE: Mitigates detonation

SIMULATES EMBERS IN GAS FIREPLACES

MEDIUM FOR EGG INCUBATION OF REPTILE EGGS

GENERAL RESOURCES FOR VERMICULITE

<https://en.wikipedia.org/wiki/Vermiculite>

<https://www.mindat.org/min-4170.html>

<http://webmineral.com/data/Vermiculite.shtml>

<https://www.chemeuropa.com/en/encyclopedia/Vermiculite.html>

<https://www.cdc.gov/niosh/topics/vermiculite/default.html#:~:text=Vermiculite%20is%20a%20mineral%20that,asbestos%20and%20asbestos%2Dlike%20fibers.>

<https://savvygardening.com/vermiculite-vs-perlite/>

GEO MINI

ALLENDE METEORITE

By Stan Celestian

Where were you on Feb 8, 1969? If you were in Pueblito de Allende, Chihuahua, Mexico at 1 AM you would have been rudely awakened by rocks falling on your roof. If you ventured outside you would have seen rocks falling from the sky and wondered if this was the end of the world. Obviously it wasn't, but that is what many of the terrified residents of this small pueblo thought.

The word of the meteorite fall spread rapidly and it is believed that as many as 5 tons of meteorites were collected. The sizes of specimens collected was from 1 gram to 110Kg (240 pounds) Even today, 54 years later, an occasional piece is still found.

The **Allende meteorite** (Meteorites are named after the geographical location in which they were found.) is significant in two main ways. 1st, it was a **witnessed fall**. Meteors can be seen every night and especially during meteor showers. But to see one actually hit the ground is extremely rare. 2nd, it was a **carbonaceous chondrite**. This is a rare type of meteorite and accounts for about only 4% of studied meteorites. Prior to this fall in 1969 only a few were known and they were small and poorly studied. So, you ask, what is the big deal about the Allende meteorite? I'm glad you asked that question.

But first, just a little background.

Meteoroid - a rock floating around in space, minding its own business.

Then, the gravitational pull of the Earth changes its course and it plunges through our atmosphere. The Allende was travelling at about 36,000 mph when it engaged our atmosphere. It quickly heated and exploded in a giant fireball some 30 or 40 miles above the surface. The initial meteor was about the size of a small car and exploded into thousands of bright meteors.

Meteor - a meteoroid that is heated to incandescence by friction as it is quickly slowed by our atmosphere. These are often called "falling stars" or "shooting stars".

This brings up an pet peeve of mine in movies. Many scenes show meteors shooting through the sky leaving a smoke trail and exploding on the surface. They appear to be small, baseball or basketball-sized rocks. HOWEVER, these objects would have been slowed to their "terminal velocity" long before they reached the surface. They would simply have fallen vertically to the ground, no smoke trail and no explosions, at least for small objects. AND investigations of the very, very, very few that have been seen shortly (within minutes) after hitting the ground have shown that they were cold to the touch. Yes (!), even after briefly being heated to incandescence, space is really, really cold, like -450°F. A meteoroid would have to be at least 25 feet across to survive its passage through the atmosphere to make a smoke trail and explosively impact at the surface. The famous Chelyabinsk meteor in 2013 (Siberia, Russia) was estimated to be about 60 feet in diameter. (Stay tuned for more of my pet peeves in future articles.)



FIGURE A ALLENDE This is a piece of the Allende Meteorite in the collection of Sue and Stan Celestian. The lighter gray left side is a fresh exposure. The dark gray front is a **fusion crust** that was created by the heat generated as the meteor plunged through our atmosphere. Fusion crusts are common on stony meteorites.

Photo by Stan Celestian

Meteorite - once the meteor survives its descent through the atmosphere, it is called a meteorite. The Allende meteor created 10's of thousands of meteorites, many of which are in private collections. See Figure A.

Allende continued on page 10...

...Allende continued from page 9

So, meteorites are cool, in more ways than one. Of course the Allende is extremely “cool” in scientific ways as well. Specifically:

1. It has what planetary Geologists call a “primitive composition”. Some 4.5 to 4.7 billion years ago the solar system was just forming from a cloud of dust and gas. (Where were you on February 8, 4.6 billion years ago? Answer: Dust and gas particles floating around in space.) Some of the earliest fragments that would later coalesce to form planets, moons, meteoroids, comets, etc., were formed at this very early phase in the history of our Solar System. At this time, the carbonaceous chondrites were forming. These are rich in carbon and carbonaceous compounds along with water. This can only happen in areas of low temperatures in the earliest stages of the Solar System. Some of the organic compounds include amino acids which are the building blocks of life.

2. Many of the elements in the Allende are of a little different form than what we see today (4.6 billion years later). These “little differences” are the number of neutrons in the nucleus of the elements. To astronomers this signifies how the various elements were created during star formation, and how they may have evolved over time.

3. The Allende contains many calcium/aluminum inclusions (CAI's). These are small and somewhat spherical grains incorporated in the meteorite. These CAI's are among the oldest known solid objects to have formed from the gas and dust cloud that created the solar system. (See Figures B-C below.)

4. Studies of the elemental composition of the Allende meteorite at the California Institute of Technology has indicated that the calcium, barium and neodymium could only have been formed from a source **outside** of the gas and dust cloud that became our Solar System. Their research also showed that a rare form of aluminum indicated that it was created by a supernova explosion about 2 million years before the formation of our Solar System. **AMAZING!** This supports the idea that a shock wave from a nearby supernova was an important “trigger” for the formation of our Solar System.

HOW does this all work? **How** did our Solar System form? **How** did Earth and the other planets form? All good questions and, believe it or not, this is the topic of a talk I will be giving to the DMRMC in November.

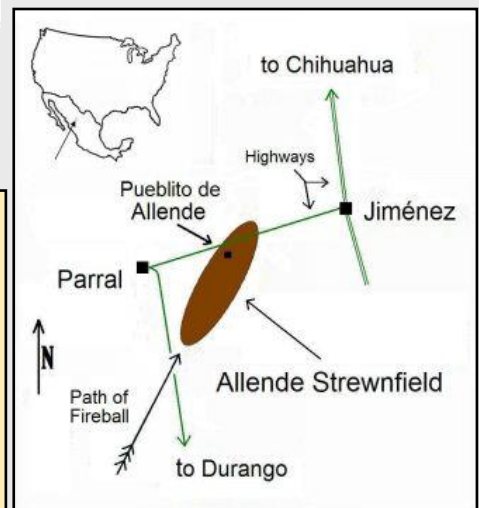


FIGURE B CHONDRULES This is a close up view of the fresh surface of the Allende Meteorite. It shows numerous chondrules (somewhat spherical mineral grains). The lighter colored chondrules are rich in calcium and aluminum.

In all, there are about 70 elements that have been identified in this meteorite. The significance of having so many elements in one rock is that the area that formed this rock was VERY undifferentiated, that is the separation of heavy elements from the lighter ones had not yet begun to take place. It is an indication that large gravitational fields (like the Earth's) had not yet come into existence. *Photo by Stan Celestian*



FIGURE C ALLENDE STREWN FIELD The image on the right shows the “strewn field”, the area where the Allende meteorites were found. The shape of the strewn field is used to determine the direction of meteor was travelling when it exploded in our atmosphere. For the Allende strewn field it was determined the meteor was traveling towards the north east. Also, the largest fragment (240 pounds) was found at the farthest northeast part of the field. This is typical of meteorite strewn fields. *Image by Bennoro at the English Wikipedia, CC BY-SA 3.0, <https://commons.wikimedia.org/w/index.php?curid=10424493>*

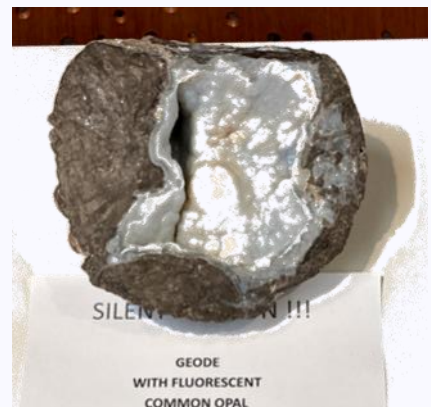


BOARD and GENERAL MEETING MINUTES

June 6, 2023

Not Available at this Time

The SILENT AUCTION of June



PLUS

Another fabulously polished piece of petrified wood, donated by Bill Smardo.

WORDS OF WISDOM

passed along by our own Bob Evans



TIP: always carry binoculars when you go hiking. When exhausted and making frequent stops, it looks like you're just enjoying nature.

UPCOMING AZ MINERAL SHOWS

July 14-16 - Show Low, AZ White Mountain Gem & Mineral Club; Show Low Elks Lodge, 805 E Whipple; Fri-Sat 9-5, Sun 10-4; Admission: Adults \$4, kids with adults free. [SEE POSTER PAGE 13](#)

August 4-6 - Prescott, AZ Prescott Gem & Mineral Club; Findlay Toyota Event Center, 3201 N Main St; Fri-Sat 9-5, Sun 9-4; Admission: Adults \$5, seniors, vets, students \$4, under 12 free. [SEE POSTER PAGE 14](#)

August 12 - Gilbert, AZ Gilbert Fine Mineral Sale; Gilbert Historical Museum, 10 S. Gilbert Rd; 10-4; Admission: Free. [SEE POSTER PAGE 15](#)

September 15-17 - Payson, AZ Payson Rimstones Rock Club; Mazatzal Hotel & Casino, Hwy 87 & MP 251; Fri 1-6, Sat 9-5, Sun 10-4; Admission: Adults \$3 (Fri) & \$5 (Sat-Sun), under 13 free. [SEE POSTER PAGE 16](#)

September 22-24 - Clarkdale, AZ Mingus Mt. Gem & Mineral Club; Clark Memorial Clubhouse Auditorium, 19 N 9th St; Admission: Free.

October 6-8 - Buckeye, AZ West Valley Rock & Mineral Club; Buckeye Arena, 802 N 1st St; Fri-Sat 9-5, Sun 9-2; Admission: Adults \$3, 13 & under free.

October 14-15 - Sierra Vista, AZ Huachuca Mineral & Gem Club; Sierra Vista Mall, 2200 El Mercado Loop; Sat 9-5, Sun 10-4; Admission: Free.

October 21-22 - Sedona, AZ Sedona Gem & Mineral Club; Sedona Red Rock HS, Hwy 89A at Red Rock Loop Rd; Sat 10-5, Sun 10-4; Admission: Adults \$5, 12 & under free. [SEE POSTER PAGE 17](#)

November 11-12 - Lake Havasu, AZ Lake Havasu Gem & Mineral Society; Aquatic Center, 100 Park Av; Sat 9-5, Sun 9-4; Admission: Adults \$2, 12 and under free.

November 25-26 - Wickenburg, AZ Wickenburg Gem & Mineral Society; Wrangler Event Center, 251 S Tegner St; Sat 9-5, Sun 10-4; Admission: Free. [SEE POSTER PAGE 18](#)

NEEDED: QUALITY MINERALS (or OTHER) DONATIONS WITH LABELS -- for monthly raffle and silent auction; and for raffle, door prizes, and sales tables at the annual show. If you have specimens to donate, please see Robin Shannon. The Daisy Mountain Rock and Mineral Club is a 501(c)(3) non-profit organization, and will gratefully acknowledge your donation with a Tax Deduction Letter. Thank You!

NOTE FROM THE EDITOR

Have a geological interest? Been somewhere interesting? Have pictures from a club trip? Collected some great material? Send us pictures -- or write a short story (pictures would be great).

Deadline for the newsletter is the 22nd of the month.

Mail or Email submissions to:

Susan Celestian
6415 N 183rd Av
Waddell, AZ 85355
azrocklady@gmail.com



Visit <http://rmfms.org/> for news about conventions, events, and associated clubs. If you are travelling, you might want to contact a club local to your destination. Maybe they have a field trip you could join, while in town.

NORTH MT OPEN STUDIO

North Mt Visitor Center, 12950 N 7th St, Phoenix, AZ

You are invited to NMVC Studio. Lapidary Classes every Wednesday & Silversmithing Classes on Saturdays — email Shirley Cote for details. For ONLY those people who have taken lapidary or silversmithing classes — Lapidary Open Studio every Monday, and Silversmithing &/or Lapidary Open Studio every Thursday (and designated Saturdays). Face masks optional.

TIMES: from 9:00 to noon with cleanup starting at 11:50.

Only 4 people can sign up, and must do so for the full three hours that the shop will be open each day. First come, first served. Usage fee is \$8/hour.

Notice: Please bring your own towels, polishing compounds and buffing wheels as they will no longer be provided.

Please arrive no later than 8:45 a.m. The center may closed to the public at 10.

Email your request for the day(s) you are interested in participating ASAP. Email Shirley Cote at: crystalc17@gmail.com

If more than four people wish to participate on the same day, please expect to be bumped or rotated to another day as efforts to accommodate everyone will be taken (possibly 6 people if 2 are silversmithing only).

UPCOMING FIELD TRIPS

Here is a general list of possible upcoming trips. Details will be emailed to the general membership.

July

Bisbee

August

Alfie Norville Museum UofA

DATES AND DESTINATIONS SUBJECT TO CHANGE

Bill and the field trip committee will be actively looking for productive spots for field trips. If you have any suggestions, you are encouraged to contact him at bfreese77@cox.net

FACEBOOK



Visit and join the club page periodically. See what is happening, and boost our visibility on the web. Go to: [The Daisy Mountain Rock and Mineral Club](https://www.facebook.com/daisyMountainRockandMineralClub). It is set up so you can post photos of outings or related items. Share with friends!

AWARD-WINNING WEBSITE

<http://www.dmrmc.com/>

If you have comments, contact Nancy Gallagher.

INSTAGRAM



Follow the club on Instagram. Go to <https://www.instagram.com/daisymountainrockclub/> and follow today. Share with friends!

Officers, Chairpersons, & Trustees

- President:** Ed Winbourne.....ewinbourne@gmail.com
- Vice President:** Bill Freese..... bfreese77@cox.net
- Secretary:** Rebecca Slosarik .. rslosarik1@gmail.com
- Treasurer:**...Deanne Gosse
deanne.gosse@outlook.com
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- Editor:** Susan Celestian..... azrocklady@gmail.com
- Field Trip:** Bill Freese ... bfreese77@cox.net
- Claims:** Jeff Blosdale
- Safety:** Gregg Josey
- Show Chairs:** Ed Winbourne, Claudia Marek
- Trustees:**

- | | |
|---------|-----------|
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| Stan C | Tiffany P |
| Bob E | Don R |
| Nancy G | Howard R |
| Renee I | Jeff R |
| Gregg J | Johanna R |
| | Bob S |

Meetings are held the **1st Tuesday of the month** at the **Anthem Civic Building**, 3701 W Anthem Way, Anthem, AZ 85086. General meeting at 6:30 pm. We **do not meet in July or August.**

DMRMCLUB@GMAIL.COM

Membership Dues:

- Juniors (under 18) - Membership is free; one time fee of \$10 for name badge**
- Adult - First year \$35, then \$25 per Person**
- Couple - First year \$55, then \$35 per Couple**

Meeting Dates for 2023

Jan 3, Feb 7, Mar 7, Apr 4, May 2, June 6, Sept 5, Oct 3, Nov 7, Dec 5

WIRE WRAPPING

INSTRUCTOR — Rebecca Noel

CLASS DATE: on the 1st Tuesday

CLASS TIME: 4:30-6:15

CLASS PLACE: Anthem Civic Center, 3701 W Anthem Way

Bring a cabochon or other stone, 20 and 26 gauge copper-based wire, round nose pliers, flush cutters, and any other tools you might use.

*If you want to try it out, the club has 4 sets of tools and wire that you may borrow during a class. If you like it, you can then purchase your own supplies.

FUTURE SPEAKERS

- September - Susan Emberley of the Four Peaks Mining Co. : Tentative
- October - Evan Jones: TBA
- November - Stan Celestian: TBA
- December - Christmas Party
- January - Dr. Barbara Johns, U of Wyoming: Deep Sea Drilling in the Atlantic

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WHITE MOUNTAIN GEM & MINERAL CLUB

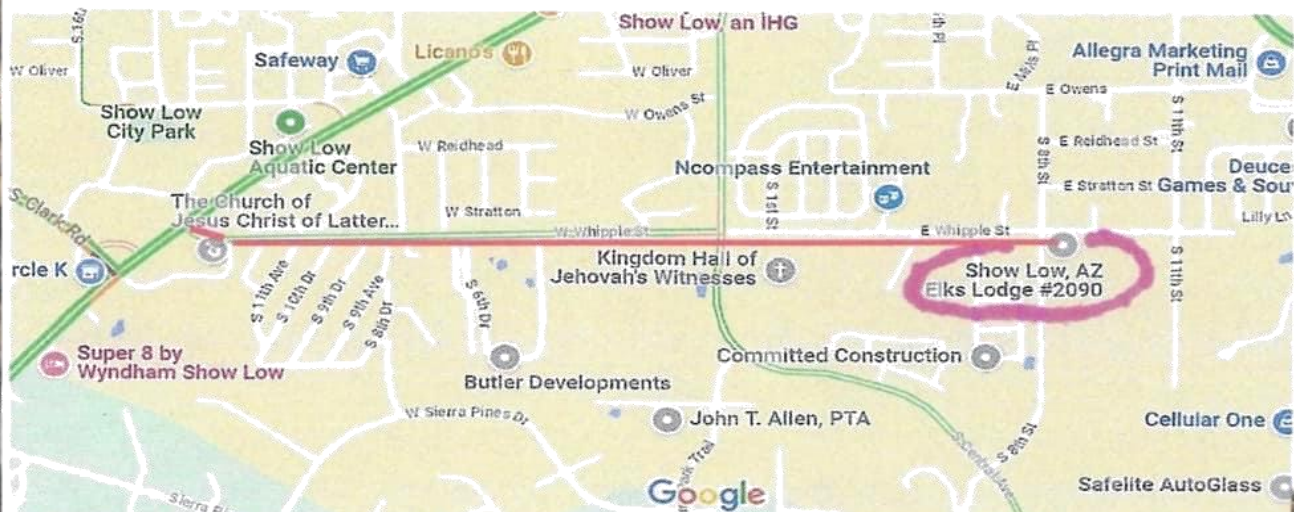
24TH GEM, MINERAL, AND FOSSIL SHOW

**JEWELRY, GEMS, MINERALS, FOSSILS, BEADS
LAPIDARY EQUIPMENT/SUPPLIES, ROCK DISPLAYS,
SILENT AUCTION, RAFFLES, WHEEL OF FORTUNE,
CHILDREN'S ACTIVITIES, FOOD CONCESSION**

FRIDAY JULY 14, 9:00AM—5:00PM
SATURDAY JULY 15, 9:00AM—5:00PM
SUNDAY JULY 16, 10:00AM—4:00PM
ADMISSION: Adults \$4.00
Children FREE With Adult

SHOW LOW ELKS LODGE
805 E. Whipple Street, Show Low

SHOW COORDINATOR: Cathy Cargile Phone: 714-348-9162 (Text OK)



PRESCOTT

GEM & MINERAL SHOW

19th Annual

SHOW & SALE



Beads
Slabs
Cabochons
Fossils
Demos
Kids Activities
Geode Cutting



AUGUST, 4th

5th & 6th

FINDLAY TOYOTA EVENT CENTER

*3201 N Main St - Prescott Valley
(Corner of Glassford Hill & Florentine)*

FRI & SAT 9-5, SUN 9-4
Admission is Cash Only - ATM Available

FREE PARKING!

\$5 Adults

\$4 Seniors 65+, Vets, Students
Children under 12 FREE w/paid Adult

www.PrescottGemMineral.org

**GILBERT
FINE
MINERAL
SALE**

15th ANNUAL



AUGUST 12, 2023

**GILBERT HISTORICAL MUSEUM: 10 S. GILBERT RD, GILBERT, AZ 85296
10:00 AM - 4:00 PM**

**AZURITE, MALACHITE, 6 cm, Czar Mine, Bisbee, Cochise County, Arizona, USA.
Chris Whitney-Smith Collection, 2023 Tucson Gem & Mineral Show® Bidaux Trophy.**

© Jeff Scovil Poster Chris Whitney-Smith

Payson Rimstones Rock Club
**Gem & Mineral
Show**

Sept 15-17, 2023

Fri 1-6 Sat 9-5 Sun 10-4

Mazatzal Hotel and Casino

Vendors

Rocks and Slabs

Polished Rocks

Fossils

Jewelry & Art

Education & Kids Area

Fluorescents

Auctions, Raffles

Demonstrations

\$5 Adults

\$3 Friday

**Kids under
13 are FREE**

*Red Jasper
with Epidote
Rye Creek, AZ*



Rock, Gem & Jewelry Show

October 21 & 22

Sat 10-5 / Sun 10-4

**Sedona Red Rock High School – 89A at
Upper Red Rock Loop Rd, W. Sedona**

**Hourly Raffles
Grand Prize**

Admission – \$ 5

Children 12 & under Free



**For more information go to:
www.sedonagemandmineral.org**

Wickenburg Gem & Mineral Society

23rd Annual WOWW Show

gemclub.info



Gem & Mineral Show

2023

NOV 25 & 26

9am - 5pm Sat

10am - 4pm Sun

Wrangler Event Center

Round Gym

251 S Tegner St

Vendor/Show Information: **gemclub.info**

Over 40 Vendors

Gems Minerals Beads Jewelry Rocks Fossils Kid's Room
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