



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 11

DECEMBER 2023



This is an example of very well-developed conchoidal fracture — in obsidian (volcanic glass). It isn't a mineral, but it is a very homogeneous rock, without any particular planes of weakness. Conchoidal fracture generally is typical of glass. *Photo by Stan Celestian*

PHANTOMS

...AND ZONING

By Susan Celestian

Some of my favorite mineral specimens are phantom crystals (should have written this in October, huh?).

Phantom crystals typically form when, during a pause in crystal growth, the surface is dusted with another mineral. When growth resumes, a ghostly crystal is outlined within the now-larger crystal.

Additionally, zoning — a phantom-like visage — can be created when there is a color change that occurs during crystal growth. In this instance, the zoning records changes in isotope chemistry, heating and cooling events, magmatic changes, and more.

Images of phantoms follow in Figures 1-12.

**FIGURE 1
PHANTOM QUARTZ**

This quartz crystal has been polished to reveal the crisp phantom caused by the inclusion of chlorite upon a previous crystal surface. Locality: Minas Gerais, Brazil. Photo by Stan Celestian



Photo by Stan Celestian

FIGURE 2 PHANTOM QUARTZ

This doubly-terminated quartz crystal hosts a phantom resulting from the inclusion of clay. Locality: Minas Gerais, Brazil. Photo by James St. John and licensed by CC BY-2.0-DEED



Phantoms continued on page 10....

DUES ARE DUE!

Adult - \$25 per Person
Couple - \$35 per Couple

RENEW: [ONLINE](#) or [MAIL](#)

**DEADLINE IS
JANUARY 15**

NEW MEMBERSHIP: [ONLINE](#) or [MAIL](#)

Adult - First year \$35
Couple - First year \$55

SAVE THE DATE!

ANTHEM SHOW

March 2-3, 2024

Anthem Elementary

**VOLUNTEER SIGNUP
AT JANUARY
MEETING!!!**

**Proceeds pay for annual
scholarship, meeting
rooms, club events, and
more.....**

INSIDE THIS ISSUE

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

Phantom	2, 10-11
Special announcements	2
Holiday Party	3
Wire Wrapping	4
Foraging for Fluorite by Bill Powell	5
Field Trips: Spectrum Mine , Stone World , Rowley Mine , Burro Creek	6-9
Board & General Meeting Minutes	12-13
Geo Mini: Minerals - Fracture	14-15
Announcements , Show List , Words of Wisdom	16
Club Information , Field Trip Schedule ; Upcoming Speakers	17-20

HOLIDAY BANQUET

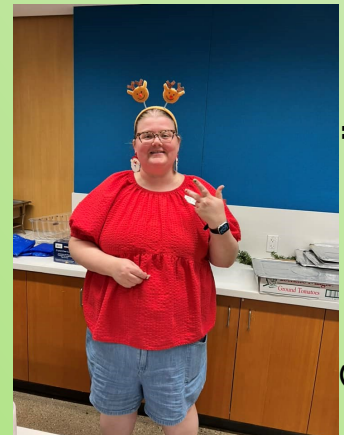
Photos by Nancy Gallagher, except noted



and the winner is.....
Renee (and Ron) Isack



Did you pick up a bag of
rocks to number?



Caterer par excellence

DECISIONS!
DECISIONS!



Photo by Stan Celestian



Photo by Stan Celestian



WIRE WRAPPING

In

CLASS DATE: on the 1st Tuesday

CLASS TIME: 4:30-6:15

CLASS PLACE: Anthem Civic Center, 3701 W Anthem Way

Monthly meetings are prior to the general club meeting. Great class for beginner to advanced . Come and wire wrap with friends!!!

GENERAL RULE: 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.

MONTHLY PROJECT PARTICULARS will be posted on the DMRMC [Facebook](#) page.

*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.

The class is free; however tips are always welcome. All teachers are unpaid volunteers so the tips go towards gas and supplies to make things more fun for you!



DECEMBER PROJECT

In December the class made ornaments!

**WATCH FOR A POST ON
THE CLUB FACEBOOK
PAGE FOR DETAILS
REGARDING JANUARY'S
PROJECT**

Photo of examples by Rebecca Noel

EXAM-
ES CRE-
ASS

FORAGING FOR FLUORITE

By Bill Powell

During a recent outing I collected some interesting fluorite specimens. Many were scattered on the surface near a mine shaft, but some of the more interesting-colored specimens were buried just below the surface of the area's tailings.

Fluorite, also known as fluorspar, is a mineral that comes in different colors. Known for its unique fluorescence and crystal formations, fluorite has often captured the attention of collectors. In this short article, we look into the world of fluorite, exploring its physical characteristics, geological significance, and practical applications.



Physical Properties:

Fluorite crystallizes in the cubic system and typically forms octahedral or cubic crystals. It has a remarkable diaphaneity, ranging from transparent to translucent, and can exhibit a wide array of beautiful colors, including purple, green, blue, yellow, and pink. Its fluorescence is one of its most sought-after traits, emitting a vibrant glow under ultraviolet light.

Geological Significance:

Fluorite is primarily found in hydrothermal veins associated with granite and other igneous rocks. Its formation often occurs during the last stages of magma crystallization. The mineral is primarily composed of calcium and fluorine, with chemical formula CaF_2 . It is widely distributed around the globe, with notable deposits found in countries like China, Mexico, Russia, South Africa, and the United States.

Industrial and Practical Applications:

Beyond its aesthetic appeal, fluorite is extensively used in various industries. One of its major applications is as a flux in the production of iron, steel, and aluminum. It lowers the melting point of these metals, allowing their processing. In the glass-making industry, fluorite serves as a flux to enhance the stability and transparency of glass. Additionally, fluorite is useful in production of enamels, ceramics, and optical lenses.

Collecting and Appreciating Fluorite:

Fluorite is highly sought after by mineral collectors due to its vibrant colors and unique fluorescence. Its crystal formations make it a great addition to any collection. As fluorite is relatively affordable compared to other gemstones, it has gained popularity for its accessibility. The different colors and forms allow collectors to create displays emphasizing the beauty of this mineral.

Fluorite is a mineral that combines aesthetic appeal, geological significance, and practical applications. Its crystal formations, vibrant colors, and beautiful fluorescence make it a favorite among mineral collectors and gemstone enthusiasts. Additionally, its industrial uses in various sectors underscore its importance in the global economy. Whether appreciated for its physical beauty and practical utility, fluorite continues to captivate and intrigue both scientists and admirers all around the world.

The fluorite has a very purple glow under UVA light, but the color does not photograph well (by me anyway). I will have some samples at the next meeting and at the show in March.



FIELD TRIP to PRISM, SPECTRUM, BLUE CUBE

Wednesday, December 6, 2023

Photos & text by Bill Freese

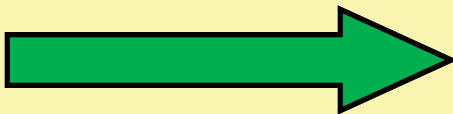
The DMRMC had a mid-week trip to the Prism-Blue Cube-Spectrum claims in the western part of Arizona. The main attraction there is the blue fluorite, but there are many other minerals to be found as well including Amethyst and Wulfenite. We ended up with 12 people on this trip and many had to brave a bad accident in Wickenburg. We all had fun and collected many treasures.



fluorite

quartz var
amethyst

chrysocolla



...Field trips continued from page 6

FIELD TRIP to STONE WORLD

Saturday, December 10, 2023

Photos & text by Bill Freese

The DMRMC along with the Mingus club took a drive up to Ash Fork, west of Flagstaff, to see our friend Juan at Stone World. There was tons (literally) of material to "shop" for. Of course the best stuff is the Mayer Onyx. Everyone of 16 attendees found some cool stuff. The prize for the most went to John & Lynea who left with 1900 pounds of material. Most were in the 100-400 pound range. The weather was on the cool side with a high of 48 degrees. We will probably schedule another trip in April. It was a blast.



travertine



Field trips continued on page 8...

...Field trips continued from page 7

FIELD TRIP to ROWLEY MINE

Saturday, November 16, 2023

Photos & text by Bill Freese



The DMRMC had a trip on Saturday to the Rowley mine. It is a popular destination! (look at pics to see why) Even after 16 folks cancelled, we still ended up with 28 people on the trip and ALL got awesome stuff. This is definitely a top 3 trip for a lot of folks. The weather was perfect. There were lots of smiling faces.



WULFENITE



WULFENITE

WULFENITE



Field trips continued on page 9,...

...Field trips continued from page 8

FIELD TRIP to BURRO CREEK

Wednesday, December 20, 2023

Photos & text by Bill Freese

The DMRMC had a mid-week trip to Burro Creek today, along with our friends from MSA. The Chert is always the main attraction, but there are other minerals out there as well. The 14 folks on the trip enjoying the beautiful AZ December day, all found great pieces to take home. It is a great site and we will visit for many years to come.



...Phantoms continued from page 2



Photo by Stan Celestian

FIGURE 3 MORE PHANTOM QUARTZ The green of this phantom is fuschite' Locality: Ambatofinandrahana, Fianarantsoa Province, Madagascar Photo by Stan Celestian

FIGURE 4 AND MORE PHANTOM QUARTZ

Hematite sprinkled on a crystal during a pause in growth, crisply outlines a previous growth stage. Locality: Oranje River, Namibia Photo by Rob Lavinsky, iRocks.com and licensed by CC-BY-SA-3.0



FIGURE 5 PHANTOM QUARTZ This is an unusual phantom highlighted by inclusions of papagoite (usually show as an amorphous blob). Locality: Messina mine, Messina District, Limpopo Province, South Africa. Photo by Rob Lavinsky, iRocks.com and licensed by CC-BY-SA-3.0



FIGURE 6 PHANTOM CALCITE Hematite sprinkled on a crystal during a pause in growth, outlines a previous growth stage. This is a classic locality: Mina Buena Tierra, Santa Eulalia, Chihuahua, Mexico Photo by Stan Celestian



FIGURE 8 PHANTOM QUARTZ It appears that the phantom here is a milky crystal — caused by micro-droplets of water. Subsequent growth was crystal clear. Accenting the phantom are some inclusions of hematite. Locality: Telangaua, India. Photo by Stan Celestian



...Phantoms continued from page 10



FIGURE 9 PHANTOM QUARTZ Color zoning is the cause of this phantom. The fluid chemistry of the amethyst growth period differed from subsequent growth. Locality: Goboboseb Mountains, Brandberg area, Brandberg District, Erongo Region, Namibia. Photo by Rob Lavinsky, iRocks.com and licensed by CC-BY-SA-3.0

FIGURE 10 COLOR ZONED TOURMALINE

Peer into this crystal, and you will see a dark phantom. Locality: Stak Nala, Haramosh Mts., Skardu District, Baltistan, Northern Areas, Pakistan. Photo by Rob Lavinsky, iRocks.com and licensed by CC-BY-SA-3.0

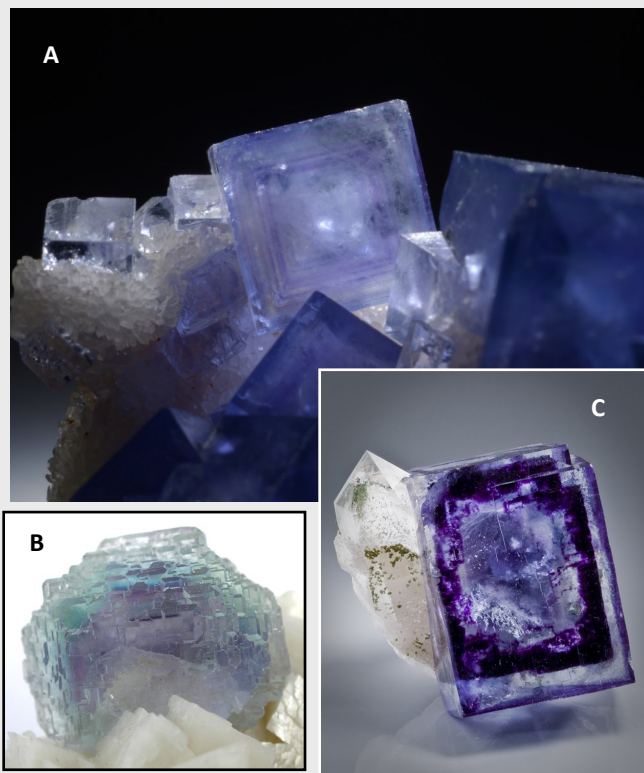


FIGURE 11 ZONED FLUORITE Fluorite is often zoned, to create phantoms of various colors, reflecting fluid chemistry, exposure to radiation, and color centers. Localities: (A) Blanchard Mine, Bingham, New Mexico; (B) Shangbao Pyrite mine, Hunan Province, China; ; (C) Yaogangxian Mine, Chenzhou Prefecture, Hunan Province, China. Photos by (A) Stan Celestian; (B & C) by Rob Lavinsky, iRocks.com and licensed by CC-BY-SA-3.0

FIGURE 12 ZONED CALCITE

This crystal is especially cool, because the crystal form of the 'phantom' is different than that of the final crystal. What conditions caused that??? Photo by Stan Celestian and used with permission of the Natural History Museum of Los Angeles County Gem & Mineral Hall.



BOARD MEETING MINUTES**December 5, 2023**

- In attendance: Bill F., Ed W., Johanna R., Renee I., Bob E., Nancy G., Sue C., Stan C. Claudia M., Mark F., Tom E.
- Bill F. called the meeting to order
- Minutes from November unanimously approved
- The list of new board members for 2024 was presented by Bill F. and brief discussion of ballot of officers for upcoming election
 - Ed W. appealed to Johanna R., and she decided to stay on the board
 - Brian G. was nominated as a board member and added to the ballot
 - Nancy G will continue as webmaster and social media mogul
- Financial:
 - Ed W. announced that a 25,000 CD at 4.99% has been purchased
 - The creation of a budget for 2024 was discussed. This will go on the January agenda.
 - Debit cards: Bob E will retain his card
- Claudia M. made an argument for issuing new Volunteer T-shirts for the club's March 2024 show, to serve as a thank you award and to promote unity
 - Bill F mad a motion to purchase new T-shirts; Stan C seconded
 - The motion passed
- Upcoming meetings:
 - Originally January was to be a Swap and Sell; however it is being postponed to April to better plan the event and to allow time for Volunteer Sign Ups at the January meeting
 - Participants will probably be asked to sign up for a table ahead of time
 - Discussion of charging \$5 per table
 - We need table covers to conform to requirements of the Center
 - Sue C. will speak about Iceland in January; Barbara Johns (U of Wyoming) speak in March
- New Business:
 - Johanna R noted that the Apache Junction club has cancelled their Fall show
 - Johanna suggested that as a 501(c)(3), DMRMC may need to submit letters of exemption to IRS
 - DMRMC needs to continue to maintain vendor lists (names, phone numbers, addresses) per AZDOR
 - Ed W and Bob E will discuss a new role for Bob, and will present a proposal at a future board meeting
- Meeting adjourned

Sincerely submitted,

Susan Celestian, for Rebecca Slosarik

...Minutes continued from page 12

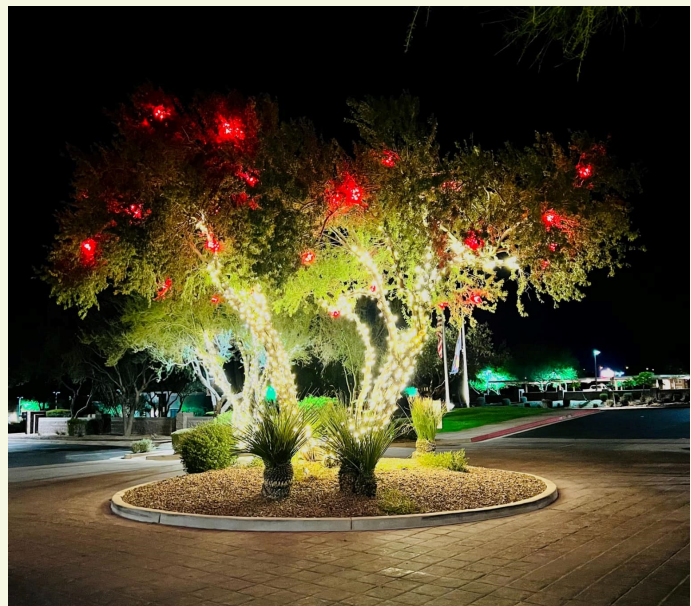
GENERAL MEETING MINUTES

December 5, 2023

- The Holiday Dinner began at about 6:30pm
 - Caterer: Times Square
 - Menu: ziti without meat, ziti with meat, eggplant parmesan, chicken alfredo, salad, sheet cake, desserts brought by attendees.
 - Tiffany P. picked up and set out the meal, then cleaned up (aided by Claudia M & Renee I)
- After dinner, Robin S. orchestrated the gift exchange
 - Everyone has drawn a number, and was called up in numerical order
 - The exchange was straightforward with folks picking out a gift in their turn, and kept it
- Ed W. addressed the group, expressing his pride at being part of the club and declaring that “We are all Rockhounds”
 - Special recognition to Nancy G, Bob E, and Bob S. (founding member and past vice-president), all of whom are leaving the board
- Drawing for Amethyst Cathedral – winner Renee I.
- Elections
 - Pres – Ed W, VP – Bil F., Sec – Rebecca S., Treas – Deanne G.
 - Trustees
 - Continuing: Tiffany P (membership), Susan C (editor), Stan C., Claudia M (show chair), Don R., Renee I, Gregg Josey (safety), Marc F., Jessica Caltabiano, Tom Edwards (vendor chair)
 - Bill P. and Cynthia F. expressed a desire to serve on the board and were added to the ballot
 - Brian G. was added to the ballot
 - The ballot was passed as presented
 - Bill F. conducted a short business meeting
 - Field trip report
 - Thanks to Rebecca Noel, wire wrapping
 - Announced January speaker – Susan Celestian
 - Reminder: Dues are due
- Stan C. closed the Silent Auction
- The meeting adjourned about 8:00 pm

Sincerely submitted,

Susan Celestian, for Rebecca Slosarik



Festive entry to the Holiday Party!

Photo by Nancy Gallagher

GEO MINI**MINERAL ID:****Fracture**

In this third installment of Mineral ID, we will discuss **FRACTURE**. Fracture is when a mineral breaks in a random pattern. It occurs in the absence of prominent atomic planes of weakness.

Types of fracture include:

- * Conchoidal - the mineral breaks along smooth, curved surfaces that bear some resemblance to the concentric ridges of a clam shell. Sub-conchoidal - breakage resembling conchoidal, but less well-developed. See Figures A-D.
- * Uneven - breakage resulting in a rough, very irregular surface. This is the most common type of fracture. See Figures E-F.
- * Hackly - breakage into jagged, sharp edges. Seen in metals. See Figure G.
- * Fibrous or splintery - breakage resulting in thread-like fibers or long thin sharp fragments ("splinters"). See Figures H-I.
- * Earthy - breakage type common in massive, loosely consolidated material, such as seen in soil or clay. See Figure J.

TO TEST/OBSERVE: All minerals exhibit fracture. It may be difficult to observe, if overshadowed by cleavage (topic of January's newsletter). Look for surfaces that are not flat.

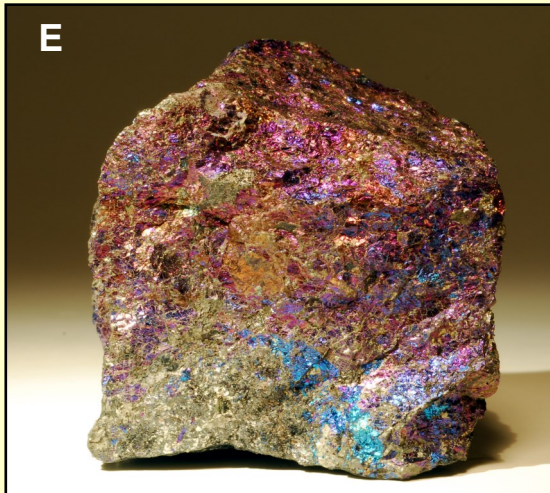
If you are building a portable field testing kit, you should now have a glass plate and a streak plate. (Both are available from Ward's Science (or VWR International), Amazon, and other suppliers. A note about a glass plate: you can use any clear glass; however, the thicker the better for safety. At this point, add a hand lens for closer inspection of mineral surfaces.

**FIGURES A-D CONCHOIDAL FRACTURE**

(A) Pyrite, (B) Quartz var chert, (C) Opal, and (D) Quartz all exhibit conchoidal (to subconchoidal) fracture. Note the curved, shell-like fracture surfaces, and the lack of any repetitive pattern.

Photos by Stan Celestian

....Fracture continued from page 14



FIGURES E-F UNEVEN FRACTURE

(E) Chalcopyrite and (F) Chrysocolla exhibit uneven fracture — rough, irregular surfaces.

Photos by Stan Celestian



FIGURES G HACKLY FRACTURE This rusty pipe has broken, and the edges are irregular, sharp and jagged.

Photo from Freeimages.com by Benjipie



FIGURES H-I FIBROUS or SPLINTERY FRACTURE

(G) Serpentine asbestos exhibits fibrous fracture, and (G) Gypsum var satin spar exhibits splintery fracture. In both cases, the mineral breaks into thin threads or splinters.

Photos by Stan Celestian

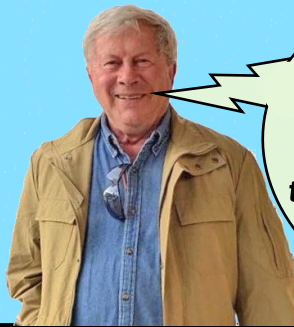


FIGURES J EARTHY FRACTURE This chunk of limonite (from the White Pine Mine, Nevada) exhibits earthy fracture, much like you would see in a mass of clay or soil.

Photos by Stan Celestian

WORDS OF WISDOM

passed along by our own **Bob Evans**



Do you ever get up in the morning, look at yourself in the mirror, and think... "That can't be accurate"?

UPCOMING AZ MINERAL SHOWS

JANUARY 5-7 - Mesa, AZ Flagg Mineral Foundation; Mesa Community College, 1833 W Southern Ave; Daily 9-5; Admission: Free. 18

JANUARY 1-FEBRUARY 28 - Quartzsite, AZ Desert Gardens, 1055 Kuehn St; Admission: Free.

JANUARY 5-14 - Quartzsite, AZ Tyson Wells Show; 121 W Kuehn St; Admission: Free.

For additional Quartzsite show dates go [here](#).

JANUARY 17-21 - Quartzsite, AZ Pow Wow; 225 E Ironwood; Daily 9-5; Admission: Free

FEBRUARY 8-11 - Tucson, AZ Tucson Gem & Mineral Society; Tucson Convention Center, 260 S Church St; Th-Sat 10-6, Sun 10-4; Admission: \$13. [SEE POSTER PAGE 19](#) For complete schedule of the many pre-main shows in Tucson go [here](#).

MARCH 2-3 - Anthem, AZ Daisy Mountain Rock & Mineral Club; Anthem Elementary, 41020 Freedom Way; Sat 9-5, Sun 10-4; Admission: Adults \$5, Seniors, Vets, Students \$4, under 12 free. [SEE POSTER PAGE 20](#)

MARCH 1-3 - Mesa, AZ Apache Junction Rock & Gem Club; Mesa Community College, 1401 S Dobson Rd; Daily TBA; Admission TBA

If you are travelling, a good source of shows AND clubs is <http://the-vug.com/educate-and-inform/mineral-shows/> OR <http://www.rockngem.com/ShowDatesFiles/ShowDatesDisplayAll.php? ShowState=AZ> OR <https://www.rockandmineralshows.com/Location/?displayShows=true>

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.

January

Brenda Area—3rd Wed - Jasper (plume possible)
 4th of July - 17th Wed - Chalcedony, Fire Agate
 Quartzsite Show - 20th Sat - Shopping
 Contact Mine - 27th Sat - Amethyst

February

Club Claim - 7th Wed - Mushroom Rhyolite
 Superior - 17th Sat - Apache Tears, Perlite
 Tangle Creek - 21st Wed - Travertine

March

Wendon - 6th Wed - Mable
 San Carlos - 16th Sat - Peridot
 Reserve Bank Mine - 20th Wed - Tour, Copper Minerals
 Dave Haneline Mine - 30th Sat - Barite, Lead Minerals

April

Hewitt Canyon - 3rd Wed - Green/Pink Marble
 Camp Verde - 17th Wed - Lost Onyx Mine

DATES AND DESTINATIONS SUBJECT TO CHANGE

WATCH FOR EMAILS WITH DETAILS

******* Be sure you do not just show up for a field trip — you MUST RSVP to Bill, either by responding to the announcement email or directly to Bill (after the announcement has been posted). Most trips have a limit, and will have a waiting list once full.**

FUTURE SPEAKERS

January - Sue Celestian: Iceland: Land of Fire & Ice
 February - Dr. Barbara Johns, U of Wyoming: Deep Sea Drilling in the Atlantic

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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
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Safety: Gregg Josey
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Stan C	Tiffany P
Bob E	Don R
Nancy G	Howard R
Renee I	Jeff B
Gregg J	Johanna R
Jessica C	Bob S
	Mark F.

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 2024

Jan 2, Feb 6, Mar 5, Apr 2, May 7, June 4, Sept 3,
 Oct 1, Nov 5, Dec 3

51ST ANNUAL FLAGG GEM & MINERAL SHOW



PYRITE - 6TH LEVEL, 79 MINE, ARIZONA
JOHN CALLAHAN COLLECTION
PHOTO CREDIT: JEFF SCOVIL
4CM HIGH



SPHALERITE ON GALENA
FLUX MINE, SANTA CRUZ COUNTY, ARIZONA
LES AND PAULA PRESMYK COLLECTION
PHOTO CREDIT: JEFF SCOVIL
2.8CM HIGH



GALENA AND QUARTZ
IRON CAP MINE, GRAHAM CO., ARIZONA
MARK HAY COLLECTION
PHOTO CREDIT: JEFF SCOVIL
8.4CM WIDE

JAN 5 to 7 2024

MESA COMMUNITY COLLEGE
NE CORNER OF US 60 AND
DOBSON ROAD | 9AM - 5PM
www.Flaggshow.info

FREE Parking
FREE Admission
FREE Samples for Kids
The Tradition Continues!



**FLAGG
MINERAL
FOUNDATION**

The Tucson Gem and Mineral Society Proudly Presents:

THE 69TH ANNUAL
TUCSON GEM & MINERAL SHOW®

PEGMATITES

Crystals
BIG
& Beautiful



fibrite and quartz - Maria Gemis, Brazil. Photo: Pepsipe collection. KJFS.com photo



February 8 - 11, 2024
Tucson Convention Center

for more information, visit: www.tgms.org

Scan code for
information on
our Tucson Gem &
Mineral Show®



DAISY MOUNTAIN ROCK AND MINERAL SHOW

MARCH 2 and 3, 2024



Stilbite on Stalactitic Quartz

ANTHEM SCHOOL 41020 N. FREEDOM WAY

SATURDAY 9 TO 5 PM

SUNDAY 10 TO 4 PM

ADULTS \$5, SENIORS, VETS, STUDENTS \$4

CHILDREN UNDER 12 FREE WITH ADULT

ROCKS, CRYSTALS, FOSSILS, JEWELRY, METEORITES, BEADS

RAFFLE EVERY HALF HOUR !

DR ROCK FOR ROCK IDENTIFICATION

KID'S ROW - LOTS OF ACTIVITIES FOR KIDS INCLUDING OUR RENOWNED EDUCATIONAL
EGG CARTONS FILLED WITH 50+ SPECIMENS!!

FOR MORE INFORMATION GO TO: www.dmrmc.com