



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 10

NOVEMBER 2023

HARKEN ALL! Club Holiday Party

Tuesday, December 5 at 6:00 pm
Anthem Civic Center



POTLUCK

MEAT DISH,
VEG DISH, SALAD &
SHEET CAKE
PROVIDED BY CLUB

MAY BRING
SALAD, VEGGIE,
DESSERT

DINNER AT 6:00
GIFT EXCHANGE AT
7:00

ELECTIONS &
REGULAR BUSINESS
AT 7:30ish (no speaker)

CLEANUP at 8:30

SILENT
AUCTION

WINNER of
AMETHYST
GEODE!

GIFT EXCHANGE

- * Rock-related
- * Under \$15
- * Simple raffle-style



ZIRCON

By Susan Celestian

Zircon is a very common crystalline component of igneous and metamorphic rocks, and as sand grains in sedimentary rocks. However, it is seldom large enough to be considered collectable. Its hardness and chemical stability make it durable in the weathering environment. Durability, and the fact that zircon often has impurities of uranium or thorium, means that it is useful in geochronology.

Chemical Formula - Zr(SiO₄)

Crystal System - Tetragonal (Go to <https://www.mindat.org/min-4421.html> and scroll down to interactive image.)

Growth Forms/Habits - massive, prismatic (stout crystals),

Hardness - 7.5

Luster - Adamantine, vitreous, greasy

Streak - White

Color - Colorless, yellow, gray, reddish-brown, green, red, brown, black plus blue (although most blue is heat treated)

Diaphaneity - Transparent to opaque

Specific Gravity - 4.6-4.7

Cleavage - Imperfect/indistinct

Fracture - Conchoidal

Other - Fluoresces yellow

Uses - The first 3 below constitute the greatest areas of current zircon use, but it can be very useful in other:

- * Ceramics (opacifier to improve whiteness & brightness, durable glazes)
- * Foundry (mold coating, sand casting, washes to reduce wettability of other foundry sands)
 - * Refractory (kiln bricks, molds, ladles)
 - * Zirconia & zirconium
- * Gemstones (natural & manmade, cubic zirconia)
- * Glass (x-ray absorber in TV & formerly computer monitors cathode ray tubes, faceplate glass of TVs - lends it a high refractive index)
 - * Medical/dental devices & prosthesis (hard, biocompatible)
 - * High stress components of autos, aerospace, telecom, nuclear energy)
 - * As zirconium, it is a component of antiperspirant deodorant
 - * Geochronology

As a tool for geochronology — dating rocks — its value lies in its common occurrence, its durability, and its high specific gravity.

Zircon continued on page 7....

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

**VOLUNTEERS WILL BE
NEEDED!!!**

**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

Zircon	2, 7-8
Speaker: Stan Celestian, The Origin of the Solar System	3-4
Wire Wrapping	5
Christmas Raffle —Amethyst Cathedral	6
Club News	8-9
Field Trips: Mushroom Rhyolite , Sycamore Creek , Chilito Mine	10-12
Geo Mini: Mineral— Streak	13
In the News : Impending Volcano in Iceland	13
Board & General Meeting Minutes	14-20
Announcements , Show List , Words of Wisdom	21
Club Information , Field Trip Schedule ; Upcoming Speakers	22-25

NOVEMBER SPEAKER THE ORIGIN OF THE SOLAR SYSTEM

By Stan Celestian



Photo by Nancy Gallagher

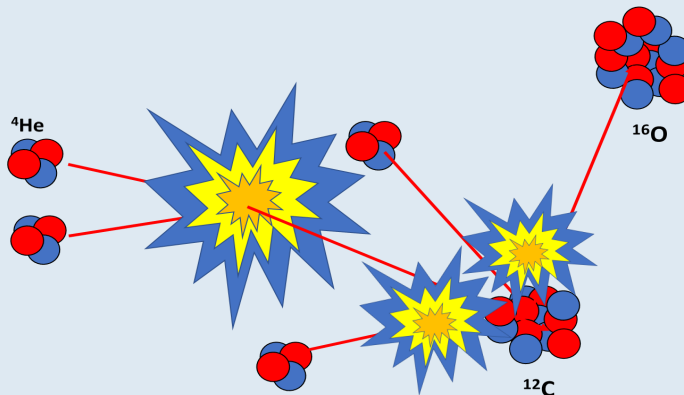
The Universe originally exploded out of a quantum fluctuation 10^{30} times smaller than a proton about 13.7 billion years ago.

This resulted in all of the matter in the Universe and consisted of Electrons, Protons, Neutrons and Alpha Particles.

THE BIG BANG!

IN A NUTSHELL: The Big Bang resulted in the formation of our expanding universe, initially loaded with hydrogen (and some helium) atoms. These atoms eventually aggregated into masses of helium, rotating and compressing. Compression leads to increased temperature and pressure, and colliding hydrogen atoms form helium (*solar nuclear synthesis*) — and stars are born. (*In our Sun, 4.6 million tons of hydrogen is converted to 4,259,934.3 tons of helium, per second!*) And nuclear synthesis in much more massive stars, ends with iron in the core. When any of these stars go supernova, the explosion creates all the remaining elements of the periodic table, and are distributed out into the universe.

All that matter created in supernovae travels outward. Shock waves from these explosions interact with gaseous hydrogen/helium clouds, called *nebula*. The result is (A) enrichment of the nebula with the heavier elements, and (B) compression that causes material to gravitationally aggregate and compress — all leading to rotating and compressing clouds of dust and gas. Rotation causes the clouds to flatten, and extreme compression at the center creates a star. As the star heats up, solar wind blows dust and gas outward, with the gaseous particles going out the farthest, leaving the heavier rocky particles in the inner areas. Aggregates within the rocky and gaseous material leads to the formation of planets and moons, orbiting their sun in eccentric orbits — and a solar system is born.



Origins continued on page 74...

...Origins continued from page 3

Mineral Carl Sagan said, "We are made of star stuff!" I was reading the latest American Federation of societies newsletter, and what do I find, but a poem that speaks to the topic of Stan's talk at the

Stardust Minerals

By Terrell William Proctor, J.D.
1st Place AFMS Adult Poetry 2013
From The Backbender's Gazetteer 9/2012

Want to see minerals from outer space?
Go to your mirror — look at your face.
The Universe when created, was just gas,
billions of years, in time would then pass.
Slowly gases, did accumulate
Gaseous clouds, did reformulate.
From the gases, elements arose.
Elements today, on charts in rows.
Elements attracted one another,
in large masses, they came together.
Forming huge galaxies of the stars,
from which came the Sun, Earth and Mars.
Today as you go out, on a dig
just keep one thing under your wig.
Stardust is in everything your see
Quartz, gold, and silver...and you and me.



INSTRUCTOR — Rebecca Noel

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!

NOVEMBER PROJECT

Here are some of the coiled cage baubles that were created by the class attendees at the November meeting.



Photo by Sandra Payne



Photo of examples by Rebecca Noel

DECEMBER PROJECT

For this December the class will be making ornaments!

You will need to bring one flattish tumbled stone or cabochon. 18, 16, or 14 gauge round wire for the frame. 26 or 28 gauge round wire for weaving wire. You will also need round and flat nose pliers wire cutter and a smile

Examples in the image on the left.

SPECIAL CHRISTMAS RAFFLE

This year the DMRMC Board is offering a special raffle opportunity — one that will run from September until the Christmas Meeting in December.

Tickets will be sold at each meeting. They are \$1 per ticket, or 12 for \$10.

The specimen is a gorgeous Amethyst Cathedral from Brazil, with a retail value of at least \$400.

Remember, all proceeds help support club activities.



LAST MINUTE TICKETS CAN BE PURCHASED AT THE DECEMBER MEETING/ BANQUET



THIS BIG BEAUTIFUL GEODE COULD BE YOURS!!!

...Zircon continued from page 2

As crystals that form during the crystallization of igneous rocks, dates obtained give geologists the age of the rock.

Crystals or grains found within metamorphic rocks give the date of the metamorphic event during which the rock formed. Zircon crystals in the Elves Chasm Gneiss in the Grand Canyon, yielded a date of 1.84 billion years — the oldest rock in Arizona. But the oldest crystals in Arizona are detrital zircons in the Vishnu Schist. They have been dated at 3.8 billion years (but keep in mind that they are derived from a rock older than the Vishnu Schist).

Zircon sand grains in sedimentary derive from pre-existing rocks, so dates obtained tell us the age of some older, unknown, no-longer-around rock. Since Earth materials undergo constant recycling, many rocks are lost to geologists. Sand grains from sedimentary rocks in the Jack Hills of Western Australia have been dated at 4.04 billion years old — the oldest material on Earth.

Images of zircon follow in Figures 1-8.

FIGURE 1 ZIRCON This is a classic tetragonal crystal — square cross section, pyramidal termination, long prismatic crystal (1" tall).
Locality: Australia
Image by Stan Celestian and used by permission of the Natural History Museum of Los Angeles County Gem & Mineral Hall



FIGURE 2 ZIRCON This 1" crystal cluster is from Malosa, Malawi Image by Rob Lavinsky, iRocks.com and licensed under [CC-BY-SA-3.0 DEED](https://creativecommons.org/licenses/by-sa/3.0/)

FIGURE 3 ZIRCON Another thumbnail-sized zircon, exhibiting a redder color than previous figures. Locality: Gilgit, Pakistan. Image by Rob Lavinsky, iRocks.com and licensed under [CC-BY-SA-3.0 DEED](https://creativecommons.org/licenses/by-sa/3.0/)



FIGURE 4 GREEN ZIRCON Here is a rare naturally green zircon crystal, about 1.5" tall. Locality: Mogo, Burma (Myanmar) Image by Rob Lavinsky, iRocks.com and licensed under [CC-BY-SA-3.0 DEED](https://creativecommons.org/licenses/by-sa/3.0/)



FIGURE 5 ZIRCON The upper photo is a massive reddish brown zircon, with greasy luster. Not overly exciting. The lower image is fluorescing bright yellow under UVc. Locality: Mud band carbonatite in Northern Territory, Australia. Image by Cran Cowan and licensed by [CC BY-NC-SA 2.0 DEED](https://creativecommons.org/licenses/by-nc-sa/2.0/)

Zircon continued on page 8...

...Zircon continued from page 7

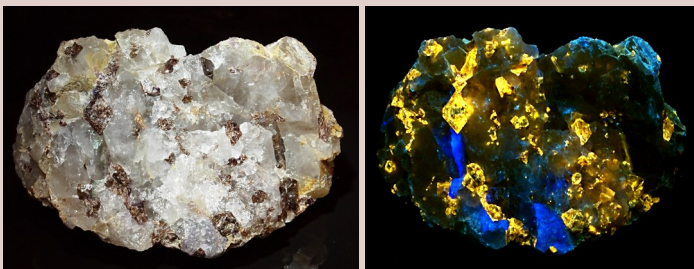


FIGURE 5 ZIRCON The upper photo is a massive reddish brown zircon, with greasy luster. Not overly exciting. The lower image is fluorescing bright yellow under UVc. Locality: Mud band carbonatite in Northern Territory, Australia. Image by Cran Cowan and licensed by

[CC BY-NC-SA 2.0 DEED](https://creativecommons.org/licenses/by-nc-sa/2.0/)



FIGURE 6 GEM ZIRCON The upper image is of a 3.36 carat Cambodian zircon, heat treated to enhance the blue color. Image by donguennie and licensed by

[CC BY-SA 4.0 DEED](https://creativecommons.org/licenses/by-sa/4.0/).

The lower image is a suite of colors available in zircon — all from Vietnam. Image by Rob Lavinsky, iRocks.com and licensed by

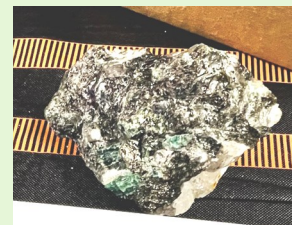
[CC BY-SA 3.0 DEED](https://creativecommons.org/licenses/by-sa/3.0/).

GENERAL RESOURCES FOR ZIRCON

- <https://www.mindat.org/min-4421.html>
- <https://webmineral.com/data/Zircon.shtml>
- <https://www.zircon-association.org/applications.html>
- <https://www.zircon-association.org/from-bathrooms-to-medical-implants.html>
- <https://www.dermadoctor.com/blog/antiperspirants/#:~:text=However%2C%20aluminum%20in%20these%20forms,to%20cause%20irritation%20or%20acne.>
- [https://www.chemours.com/en/brands-and-products/chemours-minerals/products/zircon-sands#:~:text=Zircon%20\(zirconium%20silicate\)%20sands%20are,and%20cores%2C%20and%20metal%20chills.](https://www.chemours.com/en/brands-and-products/chemours-minerals/products/zircon-sands#:~:text=Zircon%20(zirconium%20silicate)%20sands%20are,and%20cores%2C%20and%20metal%20chills.)
- <https://en.wikipedia.org/wiki/Zircon>

DMRMC MEETINGS ARE FUN - AND REWARDING!

Silent Auction



This month's donations: beryl, coral beads, Peruvian pyrite, Arizona quartz, spessartine garnet, Swiss mineral & fossil stamps.



HAPPY HIGH BIDDERS



Rewarding continued on page 9...

...Rewarding continued from page 7

Every meeting there are minerals, fossils, artifacts, books and others donated by members. Each raffle item is paired with a canister. Purchase tickets and put them into the canisters paired with the item(s) you hope to win.

Raffle

Robin & Jessica run the raffle



Some Delighted Winners!



Photos by Nancy Gallagher

Thanksgiving Food Drive a Success

by Claudia Marek

On November 7th we collected 160 pounds of food that was much appreciated by the Foothills Food Bank in Carefree. In 2022 as a club we donated 211 pounds to the Foothills Food Bank. In addition to the food we presented them with a check for \$150. We also mailed a check to the St. Mary's Food Bank for \$100.

Claudia Marek and Renee Isaack delivered the food to the food bank the following day and were told by one of the gentlemen while helping them to unload that the food bank shelves were practically bare and this donation would help a lot as families in need has increased this year.

Many thanks go out to all of you who donated and helped to make this seasons collection a success!!



Photo by Nancy Gallagher

FIELD TRIP to CLUB CLAIM

Saturday, November 11, 2023

Photos & text by Bill Freese

The DMRMC had a great trip on Saturday that included a BBQ. We opened our claim for the first time this season and decided to make it special. There was much demand and we ended up with 41 people out there having a great time and eating lots of food. Look at those smiling faces. Everyone on the trip picked up great specimens of Mushroom Rhyolite and Chalcedony and other things. It was a great way to get things moving in the season.



CHALCEDONY DESERT ROSES

MUSHROOM

RHYOLITE



Rocky cake baked by Michelle Renee



DESERTS

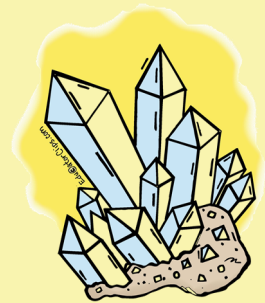


Image: Educator Clips

Field trips continued on page 11....

...Field trips continued from page 10

FIELD TRIP to SYCAMORE CREEK

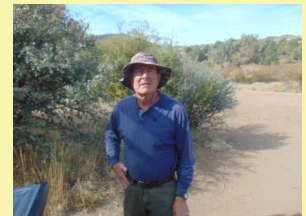
Wednesday, November 15, 2023

Photos & text by Bill Freese

The DMRMC had a mid-week trip this week to Sycamore Creek for lots of great colors of Jasper. (Mostly red) It was a beautiful day to get out and hike around the creek and pick up random pieces of Jasper. There were 14 of us and everyone got some colorful and unique pieces. It was a great day.



Pretty pistachio green Epidote.....
And Bright red Jasper



Field trips continued on page 12,...

...Field trips continued from page 11

FIELD TRIP to CHILITO MINE

Wednesday, November 29, 2023

Upper photo & text by Bill Freese; lower photo by Susan Celestian

The DMRMC had a trip on Wednesday to the Chilito mine. The first of the season. We also had the MSA and GCGMS [Gila County Gem & Mineral Society] clubs out there with us. We had a total of 23 folks out looking for copper minerals. I did not get a chance to take any other pics, so if anyone from the trip took some pics, please add them to the post. The weather was great and everyone found lots of treasures.



FROM A PREVIOUS TRIP: Manganese Oxide dendrites on Chrysocolla

GEO MINI MINERAL ID:

Streak

In this second installment of Mineral ID, we will discuss **STREAK**. Streak is the color of the powder of a mineral. You could pulverize a specimen, but that is pretty destructive. Instead, you can use an unglazed porcelain tile, aka a *streak plate*. Its rough surface will abrade your specimen, leaving behind a colored (or not) “streak”. Obviously, minerals harder than the tile will leave no streak. Those minerals are generally light-colored non-metallic minerals, and would be white if pulverized — hence, a white streak.

TO TEST: To test a mineral’s streak, use either a ‘streak plate’, which is unglazed on both sides, and is available in white or black — or you can simply use the unglazed backside of any porcelain tile. Find an inconspicuous spot, firmly draw the specimen across the tile, and assess the color of the powder. (This is what you are doing when you write with a pencil, however graphite is so soft you need only use paper.) As weathering alters the integrity of minerals, **always scratch a fresh, unaltered surface**.



Here is a streak plate with two streaks. Both minerals are silver, metallic and heavy. On the left is galena with a gray or light black streak; on the right is hematite, with a reddish-brown streak. **Diagnostically different!**

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.

IN THE NEWS: IMPENDING VOLCANISM ON THE REYKJANES PENINSULA, ICELAND

Iceland owes its existence to the volcanism associated with the Mid-Atlantic Ridge, over which it straddles (see map). So it is not a very real surprise that volcanoes repeatedly erupt on the island.

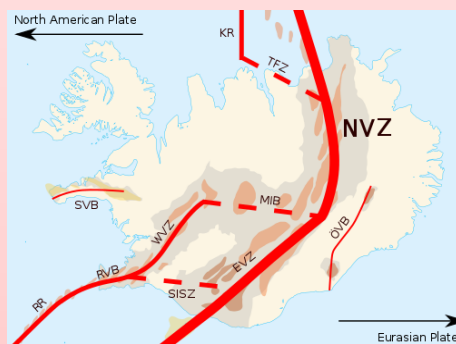
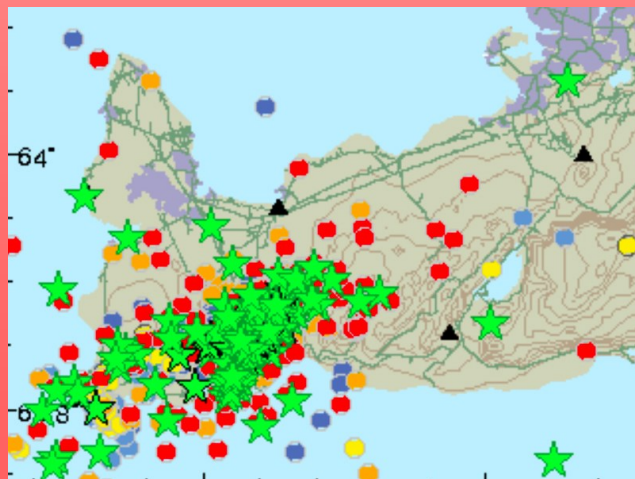


Image by Pfiñedelisto (add fault lines), Chris.urs-o (Iceland outline) and licensed by CC BY-SA 3.0 DEED

An 800-year hiatus in volcanism on the Reykjanes Peninsula, Iceland was broken in 2021 and to date there have been 3 volcanic eruptions. Geologists posit that this may be the beginning of a phase lasting several hundred years. Since June 2023, earthquake activity and land, bulging over a rising magma body, has increased in the area of Grindavik, on the south-central coast of the peninsula — in fact the town has been evacuated in anticipation of an impending eruption. Since the beginning of October, there have been over 22,000 earthquakes. Just Google ‘damage in Grindavik’ and you will see images of huge fractures and road offsets issuing steam, homes with broken walls and scattered good..... The map below was generated by the [Iceland Meteorological Office](#), and depicts earthquake occurrence during 2 days in early November. Each green star represents a quake >M3. [Here](#) is another site that logs earthquakes in Iceland, including recent history.



BOARD MEETING MINUTES

- In attendance: Bill F., Bob E., Bob S., Claudia M., Deanne G., Don R., Ed W., Gregg J., Johanna R., Mark F., Nancy G., Rebecca S., Renee I., Stan C., and Sue C.
- Bill F. called the meeting to order
- Welcomed possible newcomer to the board
 - Mark Fleischer
 - Has a long history as a rockhound
 - Would be a great addition to the board
 - Motion was made to add him to the board
 - Unanimously approved
- Meeting minutes from October
 - Minutes unanimously approved
- Etiquette and reputation of the club
 - All volunteers are here voluntarily
 - When acting on behalf of the club, please follow club guidelines
 - Please be courteous to other club members
- Rebecca S. – Program Evaluation
 - No news
 - Could not work on the evaluation this month
- Deanne G. – Financials
 - \$2k for insurance a year
 - Previous minutes did not put into account one policy
 - Anthem Community Center was charged
 - One payment is for the Holiday party
 - Other payment is for meeting room fees for 2024
 - Small board meeting room
 - Small wire wrapping room
 - Large general meeting room
 - Other rooms can be added if need be
 - Bank cards in possession
 - Ed W., and Bob E. currently possess club cards
 - Bill F. does not have one; there was discussion about getting him one
 - Tiffany P. does not need one, our card is on file for her accounts
 - She rarely needs to purchase postage
 - Only if someone cannot pick up their badges
 - Field trip guide cannot give them out
 - Motion was made to give Claudia M. a credit card
 - Unanimously approved
 - Ed W. will take Claudia M. to bank to get her a card soon
 - Motion to charge members \$5/application to mail their name tags
 - Unanimously approved
 - Investments need contact list
 - Ed W. and Deanne G. only on it
 - Only requires 1
 - Wanted Deanne as secondary just in case
 - Form should be filled out and complete now

...Minutes continued from page 14

- Taxes for filing
 - E-postcard can be used for filing taxes
 - This is easier and can be used for tax-exempt organizations
 - Will be using this service moving forward
- Membership Forms
 - Nancy G. is waiting on membership form update to upload to website
 - Will include wording for mailing badges if needed
 - Renewals coming in
 - Currently at around 400 members
- Claudia M. – DMRMC Show 2024
 - The club has been working with POSTNET for awhile
 - They gave a great price for the posters
 - Upcoming shows for other clubs will have our flyers
 - Will pass out to other clubs as well
 - Members can ask Claudia for flyers if they are going to a show soon
 - Vendors who have paid up to this week
 - 10 vendors
 - **Tote bags are available for those that volunteered for the club**
 - **40+ hours in the last year**
 - **In any capacity**
- Holiday party
 - In dining mode, the capacity of room is 70-80
 - Will need to RSVP to email to attend
- Wire wrapping class
 - The room is full, and they are having fun
- Jeff B. – Claim's Committee
 - Deadline to file is August 30th for BLM
 - We might need to check the status
 - Stan C. was asked to investigate it
 - BBQ is this Saturday (11/11)
 - Grilles are in trailer and need to be taken out
 - Plates, cups, tools, utensils with the grille, propane, coolers
 - Claudia M. and Renee I. will go to trailer tomorrow (11/12)
 - Will purchase trash bags and other items needed
 - Ed W. getting burgers, condiments, water, drinks
 - Johanna R. to bring an extra cooler and ice
 - Robin S. to bring an extra cooler and ice
 - Bob S. to bring an extra cooler and ice
 - RSVP at 50ppl interested
 - This is to enjoy and welcome people to our claim
- Bill F. – Field Trip Committee
 - Have gotten negative feedback on field trips
 - If they don't like it, they can run for vice president
 - Some sites simply cannot have more people due to site logistics
 - Will have more scouting trips later this year
 - Field trip committee
 - Those that have not done anything will be taken off committee
 - See updated schedule for changes

Minutes continued on page 16,...

...Minutes continued from page 15

- Rocky Mountain Federation Convention
 - A conglomerate of rock clubs in the region
 - Meeting includes regional club representatives
 - No news on anyone going to annual meeting yet
 - Any DMRMC member can attend
- Holiday Party
 - Food vendor
 - Catered Times Square for 60ppl is booked
 - They have excellent food
 - Will announce tonight to have people come in early and setup
 - Tiffany will collect the list of volunteers
 - Party will have to be RESERVATION ONLY because of food
 - Email will be going out in the next week or so
 - First come, first serve
- Bob E. asked about financial dip in summer
 - It always dips during the summer because of low activity
 - The club just added insurance payments as well
 - The trailer was just paid as well
 - The show brings in the most revenue
- Gregg J. – Safety Committee
 - CPR class next available Dec. 5th – cannot attend
 - This is the same day as the holiday party
 - 12/8 Friday available
 - Best date available
 - \$950 for 20 people
 - the club is paying for this
 - Those that get certified were suggested to informally teach other members
 - This could save money and get others involved
 - It would also allow more people to know CPR
 - 12/19 Tues available
 - This date could work as a second option
 - Gregg will coordinate all CPR class information
 - Rock washing safety will be discussed in general meeting
 - Have a member who is in hospital from contaminants in water
 - Got infection from contaminants touching their mouth
 - Will have a video about incident to show members
- Next month meeting
 - Holiday party in lieu of typical meeting
 - Gift exchange for meeting was put into question
 - Some liked the idea of a raffle again
 - Some got unsatisfactory raffle prizes previous years
 - Give at your own risk
 - Robin S. and Rebecca S. to run the raffle
 - Bring a gift, get a ticket to pick out a gift
 - Numbers will be picked at random

Minutes continued on page 17,...

...Minutes continued from page 16

- North Mountain Visitors Center update
 - Club saw is still making money
 - Some equipment in room that is not ours is not working
 - Not sure when they will be repaired
 - This is not the club's responsibility
- Special Raffle Item
 - Cost of amethyst covered through raffle tickets
 - There are 2 more chances to buy tickets
 - You do not need to be present to win
 - Put name and phone # on special ticket
- Special Talent Showcases suggestion
 - Could have a table or two for those who want to sell at meetings
 - Should only be available to members
 - The club might charge for tables
 - Could be called "Show and Sell"
 - Could have 1-4 people/meeting have table space
 - Could have a list and you sign up for next available
 - Should be geology related/ lapidary related
 - Should be something they made, not bought
 - Could start after January swap and sell meeting
- Board Elections upcoming
 - Nominations will be tonight
 - Everyone on board can re-sign up
 - Nancy G. will resign
 - Will still do website and social media management
 - Bob S. will resign
 - Johanna R. asked to resign
 - Bob E. asked to resign
 - Ed W. said he would like to resign
 - Cannot resign until someone takes his place as President
 - Someone will eventually need to be nominated
 - Other board members will stick with their positions
- Website is difficult to upload in bad service
 - Nancy G. sometimes cannot access service for website updates
 - Would like to add someone else to help her
 - Would like to ask Bill P. to help
- Meeting adjourned

Respectfully submitted,

Rebecca Slosarik

...Minutes continued from page 17

GENERAL MEETING MINUTES November 11, 2023

- In attendance: about 110 members, 2 youths
- Bill F. called the meeting to order
- Ed W. introduced Stan C. for another amazing presentation
 - Was on “The origin of the Earth”
 - Gave many electrifying facts about the universe
 - “We are made of star stuff” – Carl Sagan
- Raffle was presented by Robin S., Bill F., and Rebecca S.
 - Made the club \$237
- Bill F. – Club Etiquette
 - Please be nice to each other
 - Please have proper decorum even with non-members
- Welcome newcomers
 - Found the club from google searches or fellow rockhounds
 - Most common way to gain new members
- Rebecca S. – Program Evaluation
 - Will have survey ready in December
- Deanne G. – Financials
 - Club in good standing despite no net income this month
 - Club paid for meeting rooms through 2024 fiscal year
- Holiday Party
 - Need volunteers to setup
 - See Tiffany P. if you would like to help
 - Raffle gifts
 - Bring a present, get a raffle ticket
 - It should be rock orientated in some way
 - Limit gift to \$15-25 cost
 - Please wrap the present
 - Bring your own side dishes for food if you like
- BBQ Field trip
 - 4x4 needed to get to claim
 - Capacity will be about 40 people
 - You need to RSVP to the email
 - Bring your own side dish if you like
- Bill F. – Field Trip Committee
 - Maximum field trip capacities are determined:
 - By the physical allowable car capacity
 - By the coordination needed
 - There are always new trips that members can attend
 - Most locations are regularly on the schedule
 - There are other opportunities to go to certain sites
 - Check Facebook for field trip photos
 - Club website and newsletter also have field trip information
 - There is an upcoming trail cleanup
 - See Bill F. if you would like to help with this

Minutes continued on page 19.,.,.,

...Minutes continued from page 18

- December 6th Prism/ Blue Cube trip is extremely popular
 - RSVP to specific email ASAP
 - Reservations will go quickly for this trip
- Field trips sign up process
 - Wait for specific email sent for each field trip
 - Respond (not all) to desired field trip email
 - Give phone number, count of attendants, names, and any youths
- Elections
 - Most members willing to stay in their positions
 - Bob E., Bob S., Johanna R., and Nancy G. will vacate
 - Mark F. just added today
 - Will have forms to make it official in December meeting
- Club Dues & Renewals
 - Can give money to Tiffany P. at the back of the room each meeting
 - Can also complete online
 - Can send check in the mail to DMRMC P.O. Box
- Claudia M. – Promotional Items, Show, other items
 - Amethyst cathedral special raffle item
 - Will be given away at holiday party
 - Do not need to be present to win
 - Put your name and phone # on your tickets
 - 2024 DMRMC Show
 - Posters and flyers made
 - See Claudia M. if you can give out flyers to other shows
 - Donation food
 - Thank you to everyone who brought in food!
 - The club is also sending money to two food banks in the area
 - Phoenix Center for the Arts has silversmithing classes
 - New member is the teacher and came to meeting
 - Welcome and thank you for the great new resource
- Gregg J. – Safety Committee
 - CPR class coming up in December
 - Will be for field trip committee first, then to other club members
 - Washing rocks can be harmful
 - Be careful, you do not know what could be living on them
 - Wash your hands, don't lick rocks
 - Check out AZ Rockhound Expeditions video about matter
 - Their channel is on YouTube
 - They are club members
 - We wish the affected member a safe recovery
- Rebecca N. - Wire Wrapping Class
 - Going great
 - Anyone can attend the class
 - There are supplies and materials available to borrow
 - Tips are always appreciated
 - These help the leader with time, resources, materials, gas, etc.
- Holiday Party
 - Will be the next general meeting
 - Will have raffle gifts
 - Special raffle item winner will be picked at the meeting

Minutes continued on page 20.,.,.,

...Minutes continued from page 19

- Name Tags
 - PLEASE WEAR FOR ALL CLUB EVENTS
- Tiffany P. – Membership
 - About 400 currently
- Show and Tell
 - Can bring in items to show off
 - Anything geology related or created
- Silent Auction hosted by Stan C.
 - Made the club \$85
- Meeting adjourned

Respectfully submitted,

Rebecca Slosarik



Beginning Friday, December 8, experience [#100Carats](#): Icons of the Gem World, an extraordinary display of incredible and rarely-seen gems from around the world! Featuring the iconic Jonker I Diamond, get an unparalleled glimpse into the scientific story of our planet's history through over two dozen dazzling gemstones.

On view through April 21, 2024. Visit <http://NHM.org/100-Carats>

Exhibition organized in collaboration with Robert Procop Exceptional Jewels.

Copied from the Instagram post of nhmla_gems

And concerning the diamond pictured in the exhibit poster, this is what curator, Aaron Celestian says:

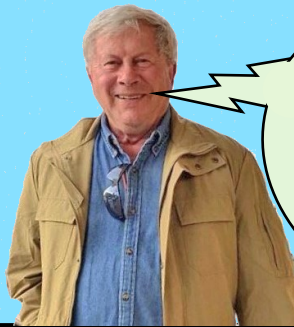
"I am thrilled to have the opportunity to share this diamond with Los Angeles and the world, because it is the first time in over 80 years it will be on public display.

The Jonker Diamond was found as a 726 ct rough crystal at the Elandsfontein mine in South Africa by Johannes Jonker in 1934.

The rough stone was eventually bought by Harry Winston and cut by Lazare Kaplan into 13 gems — the largest being the Jonker I with a final cut weight of 125 ct. "

WORDS OF WISDOM

passed along by our own **Bob Evans**



Life is easier
when you plow
around the
stump.

UPCOMING AZ MINERAL SHOWS

JANUARY 5-7 - Mesa, AZ Flagg Mineral Foundation; Mesa Community College, 1833 W Southern Ave; Daily 9-5; Admission: Free. [SEE POSTER PAGE 23](#)

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 24](#) 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 25](#)

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.

December

Planet Mine - 2nd-3rd - Hematite, Chrysocolla, others
 Blue Cube/Spectrum/Prism Mines - 6th Wed - Fluorite FEE
 Stone World in Ash Fork - 9th Sat - Travertine, etc FEE
 Rowley Mine - 16th Sat - Chrysocolla, Wulfenite FEE
 Burro Creek - 20th Wed - Cool Chert

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

November - Stan Celestian: The Formation of the Earth
 December - Christmas Party
 January - 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
Vice President: Bill Freese..... bfreese77@cox.net
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Safety: Gregg Josey
Show Chairs: Ed Winbourne, Claudia Marek
Trustees:

Susan C	Claudia M
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 2023

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

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
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FREE Parking
FREE Admission
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THE 69TH ANNUAL
TUCSON GEM & MINERAL SHOW®

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Fibrite and quartz - Miras Gemis, Brazil. Photo: Piersante 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