

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.

JANUARY 2022

VOLUME 7, ISSUE 1



EPIDOTE FROM HACHUPA (HASHUPI), SHIGAR VALLEY, SKARDU DISTRICT, BALTISTAN, NORTHERN AREAS, PAKISTAN

Alpine-type clefts have produced some of the world's finest epidote specimens, and those from the mountains of Pakistan are included. Alpine clefts are cavities that open where rocks are undergoing tectonic stretching and bending. Within these can be found outstanding quartz, epidote, and other minerals.

This beautiful, gemmy Alpine-type cleft epidote also exhibits *Faden* (German for 'thread") growth. Within Alpine clefts, crystals are repeated broken from stress. As they heal, or regrow, rapid growth caused crystals to often flatten, mismatch, and incorporate liquid and gas inclusions in the center of the crystal -- the latter constituting the "thread" running down the middle of the specimen. *Photo by Rob Lavinsky, iRocks.com and licensed under CC-BY-SA-3.0*

January 2022



EPIDOGE

By Susan Celestian

Chemical Formula - Ca₂Al₂(Fe³⁺;Al)(SiO₄)(Si₂O₇)O(OH) Crystal System - Monoclinic (3 axes of unequal length, one not at 90° from the others)) (Go <u>here</u> for graphics of epidote crystals. Scroll down to the images; they can be rotated, using the curser.) Growth Forms/Habits - Massive, acicular/fibrous, prismatic Hardness - 6 Luster - Vitreous to resinous Streak - Colorless to grayish white

Color - Pistachio green, yellowish green, greenish black, dark green, black

Diaphaneity - Transparent to essentially opaque Specific Gravity - 3.38-3.49

Cleavage - Perfect in one direction; imperfect in another Fractures - Irregular/uneven Occurrence - Secondary mineral in marble, schist & igneous rocks

Other - Crystals are often striated; twinning common

Epidote is the most common mineral in a larger Epidote Group (group of silicate minerals with shared structure and composition). Epidote and Clinozoisite are end member minerals in a solid solution series¹: Moving from epidote to Clinozoisite iron (Fe) is increasingly replaced with aluminum (Al).

As mentioned above, epidote occurs as a secondary mineral formed during low- to medium-grade metamorphism, or hydrothermal introduction to igneous rocks. See Figure 1.

You will see a lot of epidote in your meanderings through Arizona -- especially central and southern Arizona. Most of it will be massive as pistachio green veins and veinlets in granite and metamorphic rocks. This can be a pretty lapidary rock, although tends to be pitted (but you might be able to live with that). And then, every once in a while some pretty nice crystals can be unearthed. Keep your eyes open!

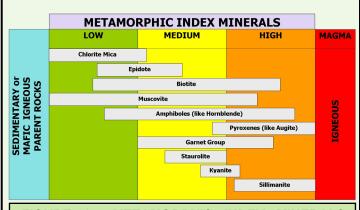


FIGURE 1 METAMORPHIC INDEX MINERALS Index minerals form at determinable temperatures and pressures. See that epidote forms at fairly low to mid-medium temperatures and pressures. Table by Stan Celestian

See Figures 2-11 for images of epidote.



FIGURE 2 EPIDOTE VEINLET What looks like paint, on this rock, is a very thin coat (the remains of a veinlet) of massive pistachio green epidote. Locality: Rye Creek, Gila Co., AZ *Photo by Susan Celestian*

Epidote continued on page 12

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¹ Solid Solution Series: a series of minerals with the same essential chemical formula. It is flanked by end members, and created by the substitution of one or more elements.

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HERB JACOBSON, DMRMC FOUNDING MEMBER, DIES

By Ed Winbourne

One the founders of our Club, Herb Jacobson, passed away on December 7th, after a prolonged illness. Herb was a MIT and UC Berkeley-trained geologist. He leaves his wife Cherie, two daughters and a number of grandchildren.

He grew up in a mining town in Bolivia, where his father worked as the mining engineer in a tin mine. With the outbreak of World War II, his family moved to the New York City, when he was a teenager. After his university years he traveled the world, searching for minerals such as gold, copper, and rare earth minerals. His work took him to Turkey, Thailand, Columbia, Alaska, Mexico and Peru (where he had to contend with guerillas), as well as across the continental United States. (Some of his USGS publications can be found HERE.)

He had lived with his wife Cherie in The Landing, here in Anthem, for the past fourteen years. Early on, Herb enthusiastically supported the idea of a rock and mineral club in Anthem, when the idea was presented to him. He had conducted a geological survey of Daisy Mountain, for the Save Our Mountain group. He was also active in a rockhound club in



Black Canyon City, where he met other Anthem residents. Herb was the first speaker at the Club's founding meeting. He spoke about the origin of the copper deposits in Jerome, Arizona, in particular the United Verde Mine, where he had worked. He also conducted drilling operation in search of copper around the Mingus Mountain area. He was the Club's first field trip leader (*editor's note: And I keep hearing folks affectionately talk about "Herb Miles"*) and continued to make presentations over the years. *Additionally, he volunteered at the DMRMC Gem & Mineral Show, as Dr. Rocks, enthusiastically identifying visitor's rocks and minerals.*

I was fortunate to have gone on scouting trips with Herb, in search of good locations to bring the Club. He was a fearless explorer who took great pleasure in sharing his understanding of what we're looking at. He also took great pride in his Toyota pickup, and loved showing the extremes of which it was capable, even when I had my doubts and elected to get out and walk and hope he wasn't about to get us stranded miles from anywhere. I encouraged him to write his autobiography after reading a brief summary of some of his adventures. Eventually I worked with Herb to accomplish that. The book is titled "Mineral Treasure Hunter," and is available on <u>Amazon.com</u>. (From Amazon: *Mineral Treasure Hunter is an autobiography of a professional geologist who spent his career looking for mineral deposits in many countries and found a few. He was fearless, faced wild animals and guerrillas, rode mules, elephants and all kinds of vehicles, aircraft and boats. His nicknames were "Dancing Herb" and Turbo Herb." He also participated in sports and raised a family.)*

He was a remarkable man and he is missed.

March will be here before we know it! Keep you calendar open and consider <u>volunteering</u> some of your time for the.....

DAISY MOUNTAIN GEM AND MINERAL SHOW 2022 MARCH 19 AND 20

JANUARY SPEAKER - Evan Jones

January 2022

Evan Jones is an Arizona native, who began collecting minerals at an early age, and he now has a fine collection of Arizona minerals. After getting a BS from ASU, he worked in the mineral business, until he ventured out on his own in 1998. He is co-owner of <u>Unique Minerals</u>, and can be seen at major gem and mineral shows around the world.

Since 2007, Evan has been dealing in minerals from the Milpillas Mine, in Cuilaca, Municipio de Cananea, Sonora, Mexico. And he co-wrote an article on the mine for *Mineralogical Record* in September -October, 2021. The issue is full of great photographs -- as was his talk!

The Milpillas Mine opened in 2006, and by 2008 was producing many fine mineral specimens. Over the last 15 years, many fine mineral specimens have been produced -- some the finest examples in the world -- vaulting the mine to world class status. All despite the refusal of the mine owners to support the retrieval and sale of mineral specimens.



In 2020, the mine closed.

The mine exploited a 63 myo Porphyry Copper Deposit, hosted in igneous and volcanic rocks. The list of minerals highlighted in Evans talk include: azurite, malachite, malachite after azurite, barite, linarite, plancheite, cuprite, a cuprite-rich lapidary material called Sonoran Sunrise, conichalcite, native copper,

brochantite, antlerite, calcite, dioptase, goethite, halotrichite, hematite, natrojarosite, olivenite, pyrite, quartz, shattuckite, spangolite, tenorite, vesignieite, and volborthite.



Outstanding azurite crystals abound from Milpillas Mine, exhibiting brilliant luster, and often an electric blue color. Photos by Stan Celestian



The bulk of the fabulous mineral specimens from the Milpillas Mine are azurite, malachite and malachite after azurite. Examples below:

This is a 4.5" tall native copper from the Milpillas Mine. Photo by Stan Celestian

Fine crystalline and plumose malachite AND pseudomorphs of malachite after azurite from Milpillas populate mineral collections around the world. Photo of plumose malachite





is by Rob Lavinsky, <u>iRocks</u> and licensed under <u>CC-BY-SA-3.0</u>. Photo of pseudomorphs to the left is by Stan Celestian.

Daisy Mountain Rockchips January 2022 5 **Zoom Board Meeting Minutes** ★ Ed W. discussed the upcoming show ◊ Meeting Jan. 19th at 6pm at the Civic January 3, 2022 Center * In Attendance: Bill F., Bob E., Bob S., Claudia M., Cynthia B., Deanne G., Ed W., Nancy G., Posters will be completed soon \Diamond Rebecca S., Renee I., Stan C., Sue C., and Jim R. is contacting the vendors \Diamond Tiffany P. About 50% confirmed and going * Bill F. called the meeting to order through waitlist * Minutes for December accepted Layout of the tables is done \Diamond Still missing the security chair's last name We are ahead of schedule since we \Diamond \Diamond (Steve -) cancelled the last two shows * Cynthia B. discussed the financials \Diamond Jessica R. and Stan C. will create posters A Rocky Mountain Federation dues paid and leaflets Paid out \$1,542 for civic building rooms ٠ To be given out at Flagg show Need invoice to make sure it is for the Website and Facebook will be updated with ٠ \Diamond next 6 months show information Deanne G., Cynthia B., and Ed W. will go \Diamond Barricade company will be contacted \diamond to bank to transfer treasurer duties The times for the show are Saturday \Diamond * Bill F. discussed the board positions 9am-5pm and Sunday 10am-4pm Newsletter will be updated with new \$3 for adults, \$2 for children • positions Ad submitted to Rock & Gem Magazine \Diamond Inactive members may be dropped They have not posted it yet ٠ unless they reach out to stay on the Please wear your name tags to all club events board if you have one Welcome Renee I. to the board \Diamond Contact Tiffany P. if you need a name tag * As a 501(c)(3) organization questions were dmrmclub@gmail.com raised on whether members can be vendors The board believes members can be Respectfully submitted, vendors if they do not get an unfair Rebecca Slosarik, secretary advantage or price break on tables for the show Tiffany P. talked about membership **General Meeting Minutes** Renewals are still coming in \Diamond January 4, 2022 We are deeply sorry for the loss of Herb Jacobson, one of the founders of the club Open attendance- about 64 attendants * Jennifer G.'s wire wrapping class was Bill F. called the meeting to order discussed Ed W. asked for a moment of silence for the * She will have one more in person class \Diamond passing of Herb Jacobson Rest may be on YouTube \Diamond One of the founders of the club \diamond • Unless someone else wants to teach Wrote an autobiography \Diamond the class His last presentation was on meteorites \Diamond Let us know if you are interested. for the club Email dmrmclub@gmail.com \Diamond He will be a greatly missed talent for the Bill F. talked about the field trips club Christmas party had a great turnout Evan Jones did an insightful presentation on Blue Cube/Prism mine will be Feb. 23rd \diamond Milpillas Mine in Sonora, Mexico Sheep's Bridge Saturday Jan. 8th The mine is closed, but there are pieces \Diamond ♦ 8 vehicles maximum that have gotten out Mushroom Rhyolite Jan. 26th \Diamond Beautiful specimens of copper Deming, NM has a Rockhound Roundup \Diamond minerals March 10-13 Robin S. ran the raffle ٠ At the SW NM Fairgrounds Made the club \$146 About 100 vendors, inside and outside Silent auction made the club \$127 Watch emails for any updates to trips Cynthia B. discussed the financials * Stan C. discussed the claim's committee This will be her last report \diamond O Personal surety bond will need to be put Thank you for your years of service in someone's name December had a deficit, but the club is still \Diamond This is problematic to make a member in good standing put out a personal bond Will have a meeting to discuss issues Minutes continued on page 6.....

Daisy Mountain Rockchips	January 2022 6
 Daisy Mountain Rockchips Minutes continued from page 5 Stan C. talked about the claim's committee There is some undercutting that needs to be made safer before we can return to the mine 	 Given out during Flagg show Will be given out for Quartzite club day Greg J. and Dave H. will check out electrical at school tomorrow Jeannie S. discussed the Kid's corner Need more volunteers To collect money, handle the games, give out caskets of rocks About 7 cases of rocks will need to be moved from the trailer Membership display was discussed Cases in storage already Needs to be setup at show Overnight security 5 people have volunteered We cannot afford to have sheriffs positioned overnight Rebecca S. discussed the raffle Will need to get material from trailer Email will be sent to vendors letting them know they can donate as many specimens as they like for the raffle Jessica C. talked about ticket sales Looks good on volunteers Don R. will get tables for the show Signs to direct traffic around town will need volunteers Fluorescent tent was cancelled due to covid concerns Will use 2, maybe 3, transilluminators instead Will be along the South wall of the gym T-shirts that are leftover will be sold at the show Flood trucks need to be contacted Any ideas on food vendors, please let the club know - Email dimmclub@gmail.com ATM machine – not sure if we can get one this year
 25 vendors have received contracts Have tables available outside Need mineral vendors Must have AZ license to be a vendor Ed W. discussed the advertisements Rock & Gem Magazine \$75 Valley-wide (newspaper) \$225 Foothills Focus – none this year Sun City Times Looking into creating an ad for them Barricades company will not have lighted signs available that weekend Will investigate smaller signs for highway Other rochhounding clubs have been contacted Leaflets and posters made 	Respectfully submitted, Rebecca Slosarik, secretary

\$300 and \$300 for 150 posters
May need to print more

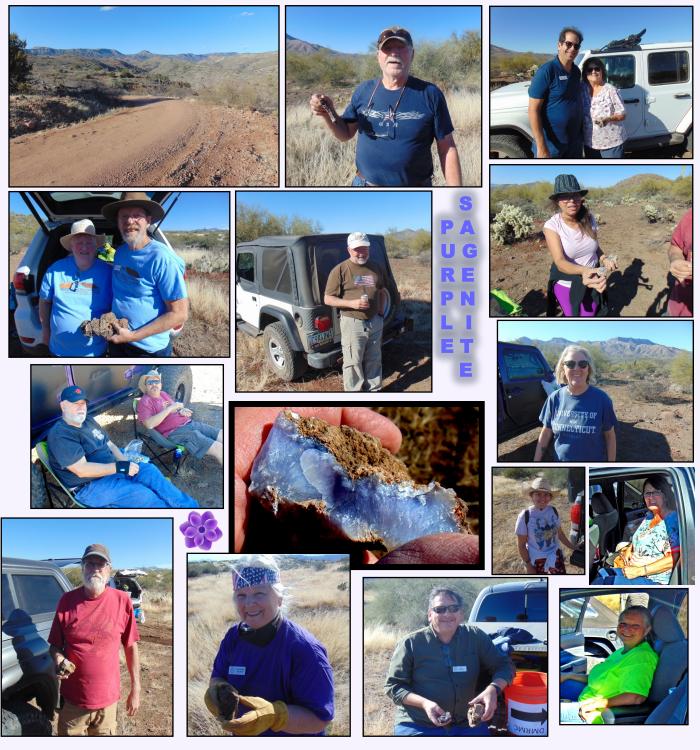
Wulfenite from the Red Cloud Mine, La Paz Co., AZ

January 2022

FIELD TRIP TO SHEEP BRIDGE Saturday, January 8, 2022

Photos & Text by Bill Freese

The first trip of 2022 was a hit. We ended up with 20 people pooled into 8 vehicles. This is a very long trip taking over 3 hours each way off road. The last 12 miles down to the Sheeps Bridge area is very difficult and I would give it a 6 out of 10 for difficulty. It was a beautiful day as you can see by the desert views. Everyone found some good specimens. Unfortunately, they do not photograph well until they are cut and polished. Maybe someone in our group can post a couple pics after they cut them open. On to the next trip!



Field Trips continued on page 8...

January 2022

...Field Trips continued from page 7

FIELD TRIP TO AQUARIUS MTS Wednesday, January 12, 2022

Text by Bill Freese & Susan Celestian, and photos by Bill Freese, Stan Celestian & Susan Celestian

A small group of 8 rockhounds ventured out to the Aquarius Mtns for the elusive garnets. We all found some (some were tiny - LOL) and had a great time in the AZ desert. The views were beautiful!. Our leader, Stan, hopped up the mountain like a mountain goat and was using his big sledge hammer which sounded like a gun, with all the echoes. A great mid-week trip.













Here, near Lion Springs, the Aquarius Mts (and Elephant Butte, in particular) is a big pile of volcanic breccia, tuff, and rhyolite, dated at around 22 mya (Miocene). Our prey was the elusive Spessartine Garnets in gas pockets, where they grew pneumatolytically (crystallized out of hot gases invading that invaded the rock). Once in a while you can find a topaz crystal -- but not this day.







Field Trips continued on page 9..

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... Field Trips continued from page 8

FIELD TRIP QUARTZSITE Saturday, January 22, 2022

Photos and text by Bill Freese

Saturday was the club day for a visit to Quartzsite. A good omen on the way was a bright rainbow. (maybe a pot of gold in Quartzsite??) There were 8 of us that hung out at the Pow Wow and Desert Gardens shows. The shows were plenty busy, but the prices were definitely higher at the Pow Wow. Everyone found a few items. I have a couple pieces for our auction. It was fun to hang out with some of our club members. The club day for Tucson will be on Feb 5th.



Field Trips continued on page 10...

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...Field Trips continued from page 9

FIELD TRIP MUSHROOM RHYOLITE Wednesday, January 26, 2022

Text & Photos by Bill Freese, Susan Celestian & Stan Celestian

We had a mid-week trip on Wednesday to the Mushroom Rhyolite site SW of Wickenburg. We had a great turnout for a mid-week trip as there was 22 of us including me. This is a site we are considering a claim on and no one was disappointed. There is plenty of different minerals in addition to the Mushroom Rhyolite. The weather was also perfect. Another great outing.



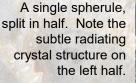
The hills in the foreground and background are in rhyolitic rock. You will find spherulitic rhyolite, obsidian, and secondary quartz crystals and chalcedony. The rhyolitic is <u>spherulitic</u>: the very viscous rhyolitic lava did not allow easy movement of ions and crystallization occurred at many different points within the lava. The result is merging and overlapping **spherules** -- each an intergrowth of quartz and orthoclase crystals radiating from a nucleus.

Expanding gases within the rhyolite may cause openings to form within some of the spherules. Often quartz (crystals or chalcedony) grows within those openings. These structures are called *lithophysae* (plural and pronounced *lith-o-fi-sea*)

Rhyolitic lavas are very low in water. Upon eruption to the surface, the water rapidly escapes, thus increasing the viscosity of the lava -- and in the case of rhyolites, they are so viscous that they barely flow. That increased viscosity impedes the ability of crystals to form -- and the result is **obsidian**, a volcanic glass with no crystals.

Lithophysa -- a spherule with a quartz crystal-lined vug in the middle.









Field Trips continued on page 11...

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.. Epidote continued from page 2



FIGURE 3 EPIDOTE IN GNEISS During metamorphism of the parent granite, some minerals (unstable at the new temperatures & pressures) were altered to blebs of massive epidote. Photo by Stan Celestian



FIGURE 4 EPIDOTE IN GRANITE Invasion of hydrothermal fluids into this granite has resulted in the creation of pistachio green epidote. This rock is used in lapidary, and is called *unakite*. Locality: Buena Vista, Rockbridge County, Virginia *Photo by James St John and is licensed under <u>CC BY 2.0</u>.*

² Amygdaloidal is a term that applies when vesicles (gas bubble cavities) in an igneous rock have been filled up with minerals. Vesicles become amygdules.



FIGURE 5 EPIDOTE IN BASALT This is a specimen of amygdaloidal² basalt from the Keweenaw Peninsula of Michigan. The green mineral is epidote. *Photo by <u>James St John</u> and is licensed under <u>CC BY 2.0.</u>*

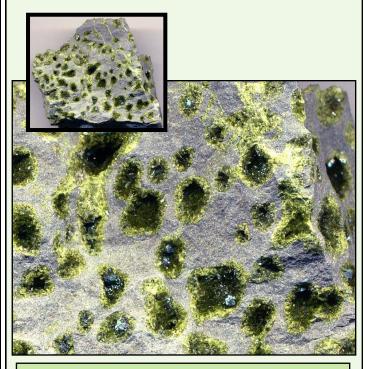


FIGURE 6 EPIDOTE IN BASALT This is another basalt from the Keweenaw Peninsula of Michigan - from the Gratiot Mine. Note that the vesicles of this basalt have not been completely filled in, and very slender crystals of epidote are visible, like tiny little geodes. *Photo by James St John and is licensed under CC BY 2.0.*

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.Epidote continued from page 12



FIGURE 7 MASSIVE EPIDOTE At the Calumet Iron Mine, Chaffee Co., CO, there are extensive beds of epidote as an alteration mineral, from contact metamorphism around a granodiorite intrusion. In this photo, both massive and crystalline epidote can be seen. In fact some beautiful crystals of epidote have been collected at this mine.

Photo by Susan Celestian



This is a very aesthetic arrangement of chunky, heavily striated, dark



green epidote crystals. The associated green balls are prehnite. Locality: Bendougou village (Bendoukou Benduko village), village; Arrondissement of Diakon (Diako), Bafoulabé Circle, Photo by Stan Celestian Kayes Region, Mali

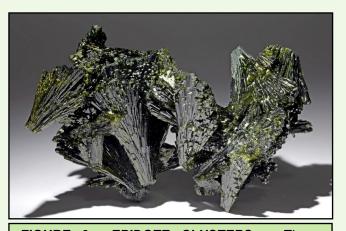


FIGURE 9 EPIDOTE CLUSTERS These sheaves of dark yellowy-green epidote crystals hail from the Char Kohan Mountains, Kharan, Balochistan, Pakistan. 2.7 inches wide Photo by Stan Celestian



FIGURE 10 EPIDOTE The 3 inch tall cluster of acicular epidote crystals is from Castovirreyna in Huancavelica, Peru. Photo by Stan Celestian

FIGURE 11 EPIDOTE Α mine famous for large, well-formed epidote crystals is Green the Monster Mine, on Prince of Wales Island, southeast Alaska. These lovely 1.4 inch tall crystals are very dark green to brownish green. This specimen is decorated with clear quartz crystals. Photo by Stan Celestian



January 2022

GEO MINI **THUMBNAILS -- the Minerals** By Susan Celestian

Mineral collectors recognize six size categories of minerals: micromount, thumbnail, miniature, small cabinet, large cabinet, museum-size.

The topic this month is a category of minerals' size, called Thumbnails. A thumbnail-sized mineral is any specimen that will fit within a "Perky box", which is a hinged plastic box, with a styrofoam insert for a base. The boxes' dimensions are 1.25" x 1.25" x 1.25"; and most mineral specimens fall thumbnail within 1" x 1" x 1", so that they fit comfortably in the box. The "Perky box" was initially devised by Willard "Perky" Perkin, a U.S. mineral dealer and thumbnail collector -- hence the box's nickname. See Figure A.

Many of us would like to start or augment a mineral collection. However, minerals can be pretty expensive. And large mineral specimens can take up quite a bit of space. Thumbnails have several things going for them:

- They are small and don't take up much space.
- They are typically less expensive than their larger counterparts (although that is not to say that in some instances the price can be quite steep),
- Often species only occur as small specimens, so you can acquire unusual minerals.
- Thumbnail-sized mineral specimens often exhibit crisp features. Large specimens are more difficult to extract intact, they often have inclusions or other internal imperfections, and they may more easily be damaged before discovery.
- Additionally, it is rarer for a rock to provide enough room for nice large crystals; more commonly space to grow is small.

FIGURE A A PERKY BOX Each Perky box comes with a styrofoam square, that fits in the black portion of the Some replace that box. foam with acrylic or wood.



Figures B-H are a few of the thumbnails in the Celestian collection. Remember, these all fit in a 1x1x1 inch cube -- these images are at least twice real size.





FIGURE B FLUORITE Center, Clay Co., OH

FIGURE C BIXBYITE White Rock Quarry, Clay Thomas Range, Juab Co., UT





FIGURE E FORSTERITE Sapat Gali, Manshera, Pakistan



FIGURE F MALACHITE Blanchard Mine, Bingham, Socorro Co.,NM



FIGURE G QUARTZ (Dipyramidal) Dominican Republic



FIGURE H COPPER after ARAGONITE Corocoro, Bolivia CROSS YOUR EYES -- It's another stereo pair!

UPCOMING FIELD TRIPS

Here is a general list of upcoming trips, for the next 3 months. Details will be emailed to the general membership.

February

Tucson show - 5th Sat TBD - 9th Wed Burro Creek area -12th Sat Dave Haneline Mine (Wickenburg) - 19th Sat Blue Cube/Prism/Spectrum - 23rd Wed Peridot (San Carlos) - 26th Sat

March

Saddle Mtn (Tonopah) - 5th Sat Reserve Bank Mine? - 9th Wed Dave Haneline Mine (Wickenburg) - 23rd Wed Bullard mine - TBD

DATES 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



Cool Pattern in Mushroom Rhyolite

FUTURE SPEAKERS

February - Doug Duffy: Lapidary

March - Stan Celestian: Hidden Treasures at NHMLA (Natural History Museum of Los Angeles County)

Join Jennifer Gecho for

Before the meeting on the 1st Tuesday 4:30-6:15 Anthem Civic Center, 3701 W Anthem Way

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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: <u>The Daisy</u> <u>Mountain Rock and Mineral Club</u>. 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 <u>https://www.instagram.com/</u> <u>daisymountainrockclub/</u> 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@gmail.com Publicity: Jessie Redmond... Membership: Tiffany Poetsch tnpoetsch@gmail.com Editors: Susan & Stan Celestian....... azrocklady@gmail.com Field Trip: Bill Freese ... bfreese77@cox.net Mine Steward: Stan Celestianstancelestian@gmail.com Show Chair: Ed Winbourne Trustees: Cumthip V. Claudia M.

Cynthia V	Claudia M
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Don R	Howard R
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Johnaton M	Joe G
Clark L	Bob S.
Renee I	Nancy G

Meetings are held the **1st Tuesday of the month** at **the Anthem Civic Building**, 3701 W Anthem Way,

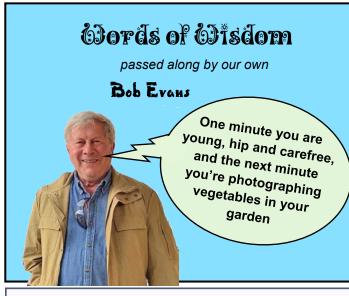
Anthem, AZ 85086. General meeting at 6:30 pm. We do not meet in July or August.

DMRMCLUB@GMAIL.COM

Membership Dues: First year \$30, then \$20.00 Adults per Person First year \$45, then \$25.00 Family (2 people)

Meeting Dates for 2022

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



UPCOMING AZ MINERAL SHOWS

January 1-February 28 - Quartzsite, AZ There are several shows going on during this time: <u>Desert</u> <u>Gardens</u>, Tyson Wells, PowWow, Gold Show. Go <u>HERE</u> & <u>THERE</u> to see show schedules.

February 10-13 - Tucson, AZ Tucson Gem & Mineral Society; Tucson Convention Center, 260 S Church Av; Thur-Sat 10-6, Sun 10-4; Admission: Adults \$13, 2-day ticket \$22, children under 14 free with paying adult. See <u>flyer</u> on page 18 for \$3 off coupon.

Go <u>HERE</u> for a list of other shows going on in Tucson during January/February.

March 17-20 - Anthem, AZ Daisy Mt Rock & Mineral Club; Anthem Elementary School, 41020 N Freedom Way, Anthem, AZ 85086; details to follow.

March 10-13 - Deming, NM Deming Gem & Mineral Club; SW New Mexico Fairgrounds, 4100 Raymond Reed Blvd; Th-Sun 9-5; Admission: Free. Field Trips offered. See <u>flyer</u> on page 19.

June 17-19 - Las Vegas, NV Southern Nevada Gem & Mineral Society (in conjunction with Rocky Mt. Federation & Mineral Society Conference; Orleans Hotel & Casino; Fri-Sat 9-4, Sun 9-2; Admission: Adults \$5. See <u>flyer</u> on page 20.

If you are travelling, a good source of shows AND clubs is http://the-vug.com/educate-and-inform/mineral-shows/ OR http://the-vug.com/educate-and-inform/mineral-shows/ OR http://the-vug.com/educate-and-inform/mineral-shows/ OR http://tww.rockngem.com/ShowDatesFiles/ShowDatesDisplayAll.php?

January 2022

NEEDED: QUALITY MINERALS (or OTHER) DONATIONS WITH LABELS -- for monthly raffle prizes; 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 - FEBRUARY

You are invited to NMVC Open Studio. <u>Lapidary</u> <u>& Silversmithing</u> on Thursdays and the first, third and fifth Saturdays in a month, from 9:00 to noon with cleanup starting at 11:45.

NMVC requires that everyone wear a mask while in the building. (Other NMVC requirements will be sent in a later email or on premises.)

Only four 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. <u>Usage fee is \$8/hour</u>.

Notice: Please bring your own towels, polishing compounds and buffing wheels as they will no longer be provided. <u>Mandatory: wear a mask</u>.

Please arrive no later than 8:45 a.m. The center may close 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

February – Thursday's dates are 3, 10, 17, 24 February – Saturday's dates 5, 19

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.

We would als	so like to inqu	uire as to ar	iyone wishir	ig to
come in for	r Lapidary	Only Ope	en Studio	on
Mondays	- 9-12.	Ema	il Shirley	at
crystalc17@g			<u>\$8/hour</u> .	
Februar	v - Mondav's	dates are 7	7. 14. 21. 28	



January 2022

Sert Gardens Rock Gem & Mineral Show



DESERT GARDENS ANNUAL International Rock, Gem and Mineral Show

January 1 – February 28 9:00 am – 5:00 pm (Seven Days Weekly)

1055 Kuehn Street Quartzsite, AZ 85346

January 2022

Gem & Mineral Show[®]

The Tucson Gem and Mineral Society Proudly Presents:

THE APATITE SUPERGROUP

how That Glows

and the Fluorescent Mineral Pavilion with over 80 Spectacular Displays by

The Fluorescent Mineral Society

TUCSON CONVENTION CENTER 260 South Church Avenue - Tucson, Arizona 85701

Thursday, Friday & Saturday: 10:00 a.m. - 6:00 p.m. | Sunday: 10:00 a.m. - 4:00 p.m.

Tickets go on sale Thursday, January 16, 2022 at all TCC Ticket outlets or call the TCC Box Office at 520-791-4101, option 1 for more information.

Don't forget, you can buy your ticket at the door!

Admission is \$13.00, Children 14 and under FREE with a paying adult

Friday, February 11, 2022 is Military (active & retired) and Senior Citizens Day (62 and older), receive \$3.00 off the regularly priced ticket* 2-day tickets will be available for a cost of \$22.00*

Clip the coupon for \$3.00 OFF on one adult General Admission ticket*

ADDITIONAL FEATURES:

Retail Dealers | Exhibits Junior Education Area FREE Lectures | Symposiums "Micro- Mineral" Room Hourly Drawings at the Giveaway Booth Saturday Night Banquet & Awards Silent/Live Auctions



Scan code for Information on Jur Tucson Gem I Mineral Show[®]



TUCSON CONVENTION CENTER February 10 - 13, 2022

CHILDREN 14 AND UNDER FREE WITH A PAYING ADULT





"cannot be used with any other discount

For more information, visit: www.tgms.org



Email: thedgms@gmail.com WEBSITE: www.thedgmsclub.com FOR MORE INFORMATION CALL: Marilyn Page—575-544-9019



