

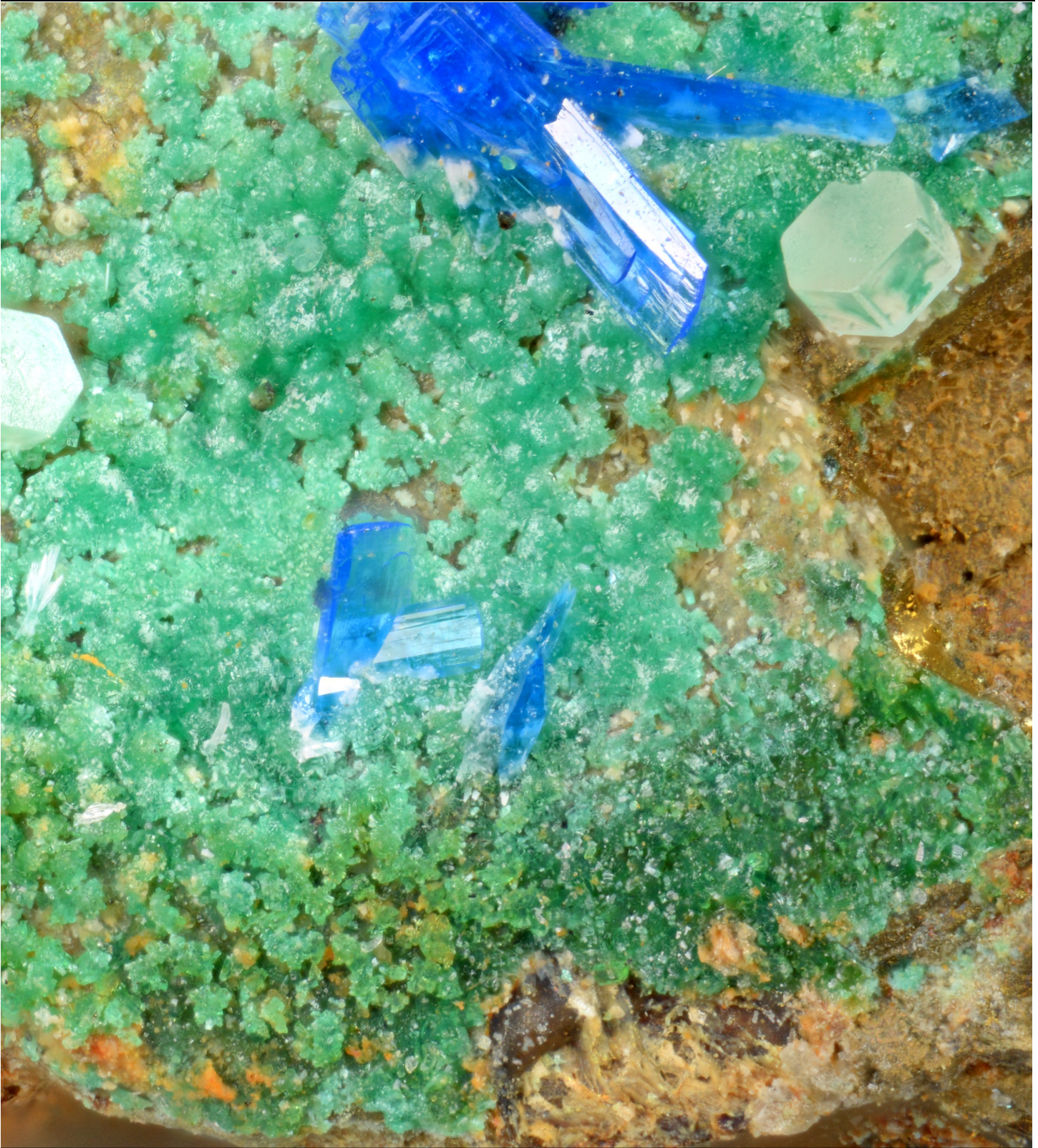


# DAISY MOUNTAIN ROCKCHIPS

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 7, ISSUE 7**

**AUGUST 2022**



Single clear pseudo-hexagonal crystals of leadhillite are perched on a green mineral and associated with linarite (blue), from the Irihiro Shiraita Mine, Uonuma City, Niigata Prefecture, Japan.

*Photo by D. Nishio-Hamane and licensed under CC BY-NC-SA 2.0.*

L

**LEADHILLITE**

By Susan Celestian

Discovered in 1882, the type locality for leadhillite is the Susanna Mine at Leadhills, Scotland. It is a secondary mineral, formed in -- ta da ---- lead deposits. Associated minerals are anglesite, cerussite, linarite, galena, and others.

Leadhillite is a mineral that you probably won't encounter often in Arizona, but you could. In Arizona, it is reported from the Mammoth-St. Anthony Mine, Rowley Mine, Grand Reef Mine, and Bisbee. The crystals are usually tiny - even microscopic. Stan Celestian has collected some from the Grand Reef, as a bluish inclusion in cerussite crystals.

**Chemical Formula** -  $Pb_4(CO_3)_2(SO_4)(OH)_2$

**Crystal System** - Monoclinic (3 axes of unequal length, and one not at 90° to the other two)

Go [HERE](#) and scroll down to see an animation.

**Growth Forms/Habits** - tabular pseudo-hexagonal crystals

**Hardness** - 2.5-3

**Luster** - Adamantine, resinous, pearly

**Streak** - white

**Color** - clear, white, gray, bluish, greenish, yellowish

**Diaphaneity** - transparent, translucent

**Specific Gravity** - 6.55

**Cleavage** - perfect in one direction

**Fractures** - irregular, uneven

**Other** - may fluoresce pale yellow in SW & LW UV  
- decomposition occurs in hot water

A few images of leadhillite are in Figures 1-3.



**FIGURE 1 LEADHILLITE** Here is an isolated view of a single crystal, from the newsletter cover photo. The pseudo-hexagonal form is very well displayed. Photo by D. Nishio-Hamane and licensed under [CC BY-NC-SA 2.0](#).

[Leadhillite](#) continued on 12...

Hope to see you at the  
**FIRST FALL MEETING!!**

Tuesday, September 6 at 6:30 p.m.

**"GREEN" CEMENT AND STEEL**

In the August 2022 issue of Rock and Gem, there was an interesting short piece that tantalized with the possibility of "green" cement and steel production. These two materials are fairly greenhouse gas-intensive, with steel accounting for 8% and cement accounting for 6-7% of global carbon dioxide (CO<sub>2</sub>) emissions.

In Sweden, there is a steel production plant that emits water, and almost no CO<sub>2</sub>. (The company is SSAB.) AND elsewhere, technologies have developed that actually have negative CO<sub>2</sub> production. In other words, the cement captures and stores CO<sub>2</sub>, rather than emitting it.

Zeroing in on cement: the current emissions result from the burning of fuels (coal, natural gas) AND by the release from the breakdown of limestone when it is "cooked" (CaCO<sub>3</sub> breaks down to CaO and CO<sub>2</sub>). See Figure A -- a flow chart for the production of cement -- on [page 10](#).

The bottom line is that the institution of these new technologies would mean at least a 15% reduction of global CO<sub>2</sub> emissions -- and that increases, depending on the amount of carbon capture possible during cement production.

Interestingly, *concrete* already does capture significant quantities of CO<sub>2</sub>. According to the [CalPortland](#) website, the process is called *carbonation*, and results from the formation of carbonates, when calcium hydroxide and hydrous calcium silicate in concrete, react with CO<sub>2</sub> in the atmosphere -- thus offsetting the emissions from cement production.

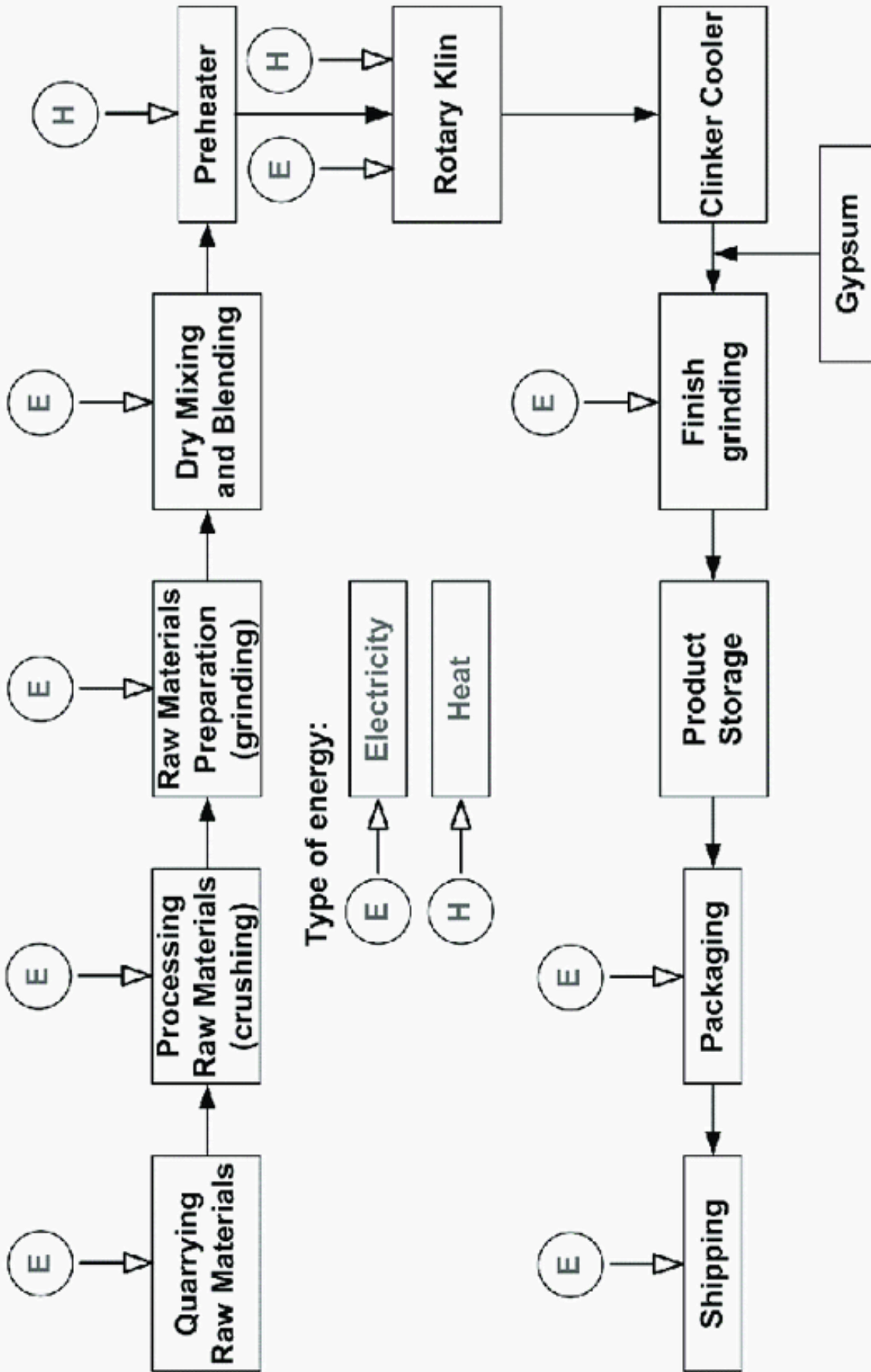
[Green](#) continued on 3...

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...Green continued from page 2



**FIGURE A BASIC FLOW CHART IN CEMENT PRODUCTION** In this flow chart, there are several steps during which carbon dioxide is a byproduct. Plus, you can see that the production of cement is fairly complex, and involves more than just grinding up some limestone. This chart is from Golewski, G.L.. (2020). Energy Savings Associated with the Use of Fly Ash and Nanoadditives in the Cement Composition. Energies. 13. 2184. 10.3390/en13092184, and is licensed under [Creative Commons Attribution 4.0 International](https://creativecommons.org/licenses/by/4.0/).

## ZOOM BOARD MEETING MINUTES

June 6, 2022

- In attendance: Bill F., Bob E., Bob S., Deanne G., Don R., Gregg J., Johanna R., Nancy G., Rebecca S., Renee I., Stan C., and Sue C.
- Bill F. called the meeting to order
- May minutes accepted
  - I missed the general meeting, but board meeting notes were sufficient
- This is the last meeting of the season
- Deanne G. discussed the financials
  - Paid out scholarship of \$1,000
  - Paid school invoice of \$2,689
    - Were not charged for janitor services
    - Were charged more hours than contract specified
      - Contract stated 8 hours for 3 days
      - School staff worked more than that overall
    - Will have more specific contract next year
      - Can prevent any discrepancies with anticipated vs. actual invoice
- The board welcomed two new officers!
  - Johanna Raupe
  - Gregg Josey
  - Thank you both for your service
- Claudia M. is creating a new incentive program for volunteers
  - Gas cards were given to some individuals who drove many miles for the 2022 show
  - Claudia M. will discuss future incentives at next meeting
- Tiffany P. discussed membership
  - Almost at 300 members now
  - Online forms are making membership easier than ever
- Stan C. talked about the claim's committee
  - Stan C. put up posts, GPS'ed the location, and submitted paperwork
    - BLM received paperwork Friday June 3<sup>rd</sup>
    - The claim is 19.97 acres N of tank
    - Will have a trip out there in November
    - Has plenty of surface material left
  - Another claim is in the works just S of the tank
    - Has a non-active claim on it
    - Will investigate this matter before purchasing claim
- Wire wrapping class was discussed
  - It was suggested that everyone still meet for classes
    - Have a different person bring in a technique to teach the class every month
    - Would still like to see this class resume without Jennifer G.

...Minutes continued from page 4

- Many successful additional trips in May
- The Globe trip to get travertine (erroneously named onyx) went well
  - Limited parking at location
  - A power drill might be useful for this location
- Lynx Creek done at perfect timing because of weather
- The Lava Tubes are moved to September
- The Rocky Mountain Federation (RMF) convention is June 16-19
  - Any members can go
    - Can vote on federation matters
  - They are our affiliate and cover our insurance
- There will be several small trips throughout the summer
  - Check emails for information and details
- Congratulations to Bill Freese for being awarded the RMF Rockhound of the Year
  - Sent in as the RMF candidate for the National title
    - Will be decided by national board later
  - Good luck Bill – you deserve it for all the hard work you do for the club!
- 2023 show was discussed
  - Will start earlier to recruit volunteers
  - Will keep Anthem Elementary School as location
- Future meetings were discussed
  - Might have a meeting for all the newcomers in September
    - Will be about rockhounding etiquette, equipment, general knowledge, etc.
    - If anyone wants to give 15-minute presentation on the matter
      - they can email [dmmclub@gmail.com](mailto:dmmclub@gmail.com)
- Nametag vendor was discussed
  - 1 week timeframe from order to delivery
  - Ordering in batches is cheaper than individual orders
  - Please wear your nametag to all club events
- The art submissions were talked about
  - 2 submissions were not print ready
  - Stan C.'s design was chosen
    - Unanimously approved design with hammers
    - Check out FB and club website to see new design
  - Will be used for club merchandise
    - Magnets and stickers will be made available first
    - Board is looking into profitable company for other merchandise
      - Members want other goodies with logo
      - Will be used for volunteer incentives as well

Respectfully submitted,

Rebecca Slosarik

...Minutes continued from page 5

## GENERAL MEETING MINUTES

### June 7, 2022

- Open attendance: about 40 attendees
- Bill F. called the meeting to order
- Deanne Gosse and Shirley Cote gave a great presentation on the uniqueness of Newfoundland, Canada
  - It is the second place in the world you can see the Earth's mantle
  - Video shown: Geologic Journeys
    - There is a second video if anyone wants to learn more about Newfoundland for themselves
- The raffle was led by Robin S. and Bill F.
  - Made the club \$67
  - Silent auction made the club \$65
- All newcomers were welcomed into the club
  - Introductions showed google searches and rockhounder referrals brought them in
  - We love to see all the new faces and thank you for joining!
- Deanne G. discussed the financials
  - Club in good standing
  - 2022 show helped the club greatly
- Bill F. discussed the claim's committee
  - Paperwork is in for first claim
    - Can find mushroom rhyolite, chalcedony, green obsidian, and many others at location
  - Will have a trip out there in November
- Bill F. talked about the field trips
  - Check emails for trip information and updates
    - RSVP to email with # of attendees and names
  - RMF conference at Las Vegas, NV June 16-19
  - Congrats again Bill for RMF Rockhound of the Year!
- The club welcomed the new officers to the board
  - Gregg Josey
  - And Johanna Raupe
- Claudia M. discussed the volunteer incentive program
  - Would like to get more volunteers for show
    - Show chair's needed help last year
  - Fill out timesheet to log hours
    - 60 hours gets you a free t-shirt
  - Looking into having a volunteer of the month each month
  - Looking into having a volunteer of the year each year
  - Kids Corner needs help labelling rocks over the summer
    - Contact Claudia M. if you would like to help
      - [cmarek2@cox.net](mailto:cmarek2@cox.net)

Minutes continued on page 7....

...Minutes continued from page 6

- 2022 Scholarship was discussed
  - Check sent out to Grace's school
  - Barely covers books, but hopefully helps her nonetheless
- Tiffany P. discussed membership
  - Currently at 293 members
  - Great increase due in part to online forms
- The logo was voted on
  - Stan C.'s design with hammers was chosen
  - Check out FB and website for new design
- Wire wrapping was discussed
  - Would like to see everyone meet again
  - Use a different person volunteers each month to bring in technique to teach
  - Any comments or would like to volunteer
    - Please email [dmmclub@gmail.com](mailto:dmmclub@gmail.com)
- Thank you to Robin S. and Bill F. for bringing in items for Show & Tell
  - Great blue agate and onyx was brought
  - Any member can bring in items to show off at general meetings
    - We love to see what everyone is rockhounding
- Next meeting will be September 6<sup>th</sup>
  - Enjoy your summer and try to stay cool!

Respectfully submitted,

Rebecca Slosarik

# FIELD TRIP TO BISBEE/TOMBSTONE

## Saturday/Sunday, July, 23-24 2022

Photos and text by Bill Freese

Hey everyone, just because we do less in the summer does not mean we no activity. We had an awesome trip to Bisbee & Tombstone in July, with our friends at MSA. There was a total of 11 folks from both clubs that made it to the trip. We had more scheduled, but life gets in the way. LOL It rained a ton on the way down there, and on the way back; but Saturday was beautiful. The Mine tours in Bisbee and Tombstone were great, and visiting these historic towns was a blast. I think we should do it again next year.



Tombstone continued on page 9...



...Tombstone continued from page 8



FOR MORE PHOTOS OF THIS TRIP, CHECK OUT THE [DMRMC FACEBOOK PAGE](#)

## THE DAISY MOUNTAIN ROCK AND MINERAL CLUB EGG CARTON PROJECT

by Stan Celestian

This Egg Carton Project was started by Bill and Jeannie Smardo in 2014, as a way to get kids interested in rocks. All of the specimens are donations or are self-collected for the project. Over the years the offerings of rocks has grown from its initial 12 to 72. During those early years Bill and Jeannie would ask members to save their egg cartons and bring them to the meetings, where they collected them. After the 2019 club show, Claudia Marek introduced the 2-dozen compartment cartons. She relates how she held up a Costco egg carton to the light and noticed the manufacturer's name: *Ovotherm*, based in Wiener Neudorf, Austria. She then contacted them about donating egg cartons for the project, and included a picture of their egg carton full of rocks. *Ovotherm* then provided Claudia with contact information for their shipper in Texas. 8 crates of the larger egg cartons were sent to her, enough for 3 shows. They have been used since the 2020 Show.



On the left side of the table Bill Smardo, Jeannie Smardo, Deanne Goss and Claudia Marek are enjoying their job of helping the kids select specimens for their egg cartons.

The egg carton project is now curated by Claudia Marek. The project includes the collecting, trimming, sorting, numbering, storing, and then getting all of the rocks to the show. The Egg Carton Project has always been an important and popular part of the show, with members assisting Bill and Claudia during the show, by helping the kids select the rocks and talking about them. Thousands of egg cartons full of rocks have been gleefully dispersed to kids, eager to have a basic rock collection. It is hard to tell who has more fun, the kids getting the rocks, or the members seeing the joy the kids express. Claudia did relate one problem: Every year a few elderly woman have gone through the rocks looking for "special" rocks they can use to make jewelry. And every year they are denied and chased away.

(With regards to problems, Claudia says we need more conglomerate and breccia. A rock crusher is also needed to make little rocks out of bigger ones more easily.)

Claudia has also pointed out that the Dr Rock station (next to the Egg Carton Project tables) is complimentary to the Egg Carton Project table. Having a place where people can ask questions about rocks, and have rocks identified, fits nicely into the club's educational mission.



A happy Bob Salter (AKA Dr Rock) is one of the club's Rock Doctors.

...Egg Cartons continued from page 10



A pile of fossiliferous limestone has been sized, sorted and is now ready to be numbered and added to the Egg Carton Project.



Fossiliferous Limestone, is number 34 on the egg carton list. Here are a bunch of number 34's ready to be glued onto the rock.

For the members involved with the project, it has also been a rewarding experience. Members have taken field trips on their own to collect for the project, or have collected extra specimens during club field trips for the project. With this hands-on involvement a certain amount of Geological education creeps into the experience. Questions like: Is this granite or diorite; is this slate or phyllite; what type of limestone is this? And of course there is the: "Is this rock good enough for the egg carton project?"

Putting together a successful project like our club has done takes a **LOT** of time, dedication, and help. Also of importance is space to store all of the rocks. Bill & Jean Smardo and Claudia Marek have been instrumental in keeping the project viable and we (Stan and Sue Celestian) salute their efforts.

The project is always evolving, as certain rock types that were difficult to obtain are being deleted from the list of possible rock types for the egg cartons, and better samples are being added. Also a new web page is in the works for information about **ALL** of the samples available for the project. This will be completely ready for our 2023 show.

Stan and Sue are actively developing a "Flickr" website with its primary purpose to support the DMRMC Egg Carton Project. (Flickr is a free image storing website that can be accessed by anyone, anywhere, anytime.) To access it you can enter the url: <https://www.flickr.com/photos/196049021@N06/albums> or use the QR code reader on your smart phone (see the [image](#) included in this article).

Instead of supplying information on a piece of paper, that would soon get lost, this sticker is being attached to each carton. It is the gateway to **LOTS** of information about every specimen the club has made available for the project. Another important aspect of the website is in the ability to revise information and images, as needed. This can be done quickly and is free. In addition to the rock information, the site also has identification charts for the basic rock types, as well as a basic mineral identification key. And there are links to videos and to pictures of other samples, related to the rocks in the egg carton collection.

I encourage you to take a look at the new Flickr account, to see what our club is building for its educational mission.

...Egg Cartons continued from page 11



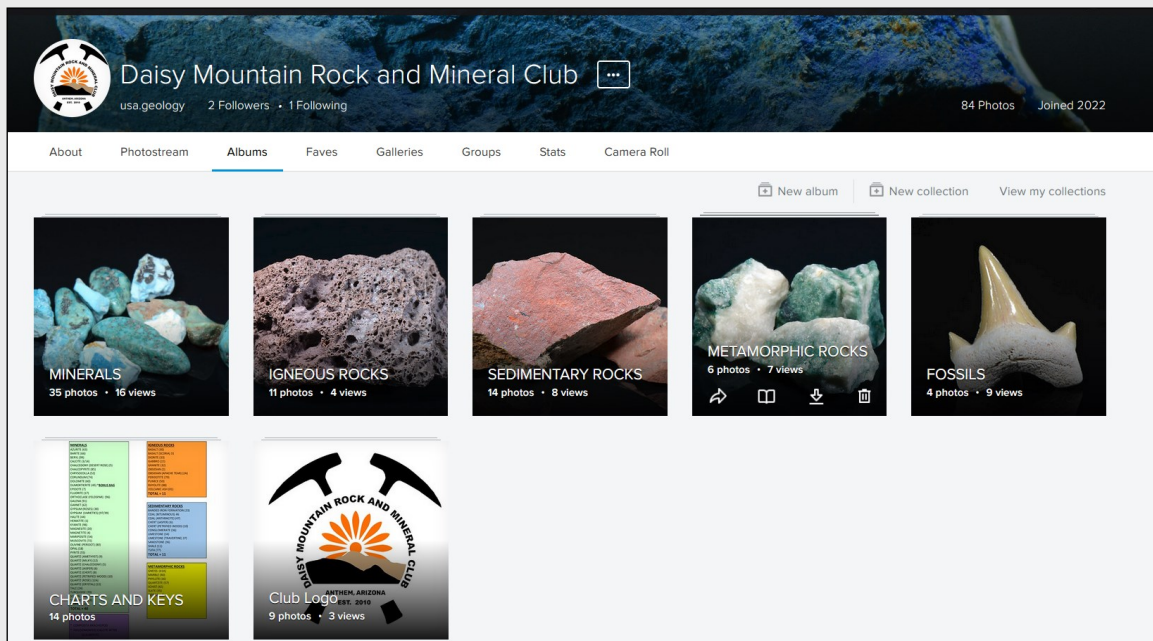
**DAISY MOUNTAIN ROCK AND MINERAL CLUB  
EGG CARTON PROJECT**

For a Geologic description of the specimens in your collection visit:

<https://www.flickr.com/photos/196049021@N06/albums>



This card will be included with every egg carton distributed by the club.



The link or QR code takes you to the new Daisy Mountain Rock and Mineral Club Flickr page. This is the first page you see. It contains the various “Albums”, as Flickr calls them. It is full of useful information. It is not written at a 2nd, 3rd or 4th grade level. It is written so that older students or **PARENTS** can understand and help the younger ones. It may never be complete as new information, pictures and videos are being created.

...Leadhillite continued from page 2



**FIGURE 2 BLUE LEADHILLITE** This vibrant resinous pseudo-hexagonal crystal (7 mm tall) is from the Mammoth-St Anthony Mine, Pinal Co., AZ. Photo by Robert M Lavinsky ([irocks](#)) and licensed by [CC BY-SA 3.0](#)

**FIGURE 3  
GREENISH  
LEADHILLITE**

These greenish resinous (7mm) pseudo-hexagonal crystals are from the Beer Cellar Mine, Tri-State District, Newton Co., MO. Photo by Robert M Lavinsky ([irocks](#)) and licensed by [CC BY-SA 3.0](#)



**GENERAL RESOURCES FOR LEADHILLITE**

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

<https://www.mindat.org/min-2361.html>

<http://www.webmineral.com/data/Leadhillite.shtml#.YvhoE3ZKg2w>

<https://www.dakotamatrix.com/mineralpedia/6153/leadhillite>

<http://www.handbookofmineralogy.org/pdfs/leadhillite.pdf>

## Monsoons = Flash Flooding **BEWARE!**

By John Christian

It is that time of the year, when an occasional downpour can cause streams to fill fast and furious. Here is a first person account of a "mild" flash flood on the East side of the Valley.

August 12, 2022 a large flash flood flowed down Indian Bend Wash in Scottsdale. I used a website, maintained by Maricopa County, that shows near real-time rainfall accumulations and stream flows from many sites in Maricopa County and parts of the surrounding areas to find and intercept the flood. Here is the website:

<https://alert.fcd.maricopa.gov/alert/Google/v3/mobile.html>

I noticed a flood of about 2,000 cubic feet a second (cfs) of water that was several feet high was headed down Indian Bend Wash. A short distance south at Indian School Road there was 0 cfs. I positioned myself near Osborn Road, 1/2 mile to the south at an unbridged crossing. I noticed paving equipment parked in Osborn in the middle of the wash. As I walked north towards Indian School Road, a couple walking two dogs, and told them to leave because the leading edge of bank to bank flood was a few yards upstream.

The leading edge carried small branches, leaves, trash and dozens of golf balls. I grabbed a few flashing barricades out of the flood to properly close down the western Osborn Road crossing. Within a few minutes the Wash went from very minuscule to 2,000 cfs and eventually to about 3,900 cfs a few minutes later. The almost 3 feet of water was more than enough to sweep away barricades and stupid motorists. Fortunately no motorists tried to cross, after the water reached the one-foot mark.

In a related note, here are 3 YouTube videos of flash flooding in Utah and Arizona.

**BE CAREFUL!**

[VIDEO 1](#)

[VIDEO 2](#)

[VIDEO 3](#)

Flash Flood continued on page 14...

...Flash Flood continued from page 13



6:58

First photo at 6:58 PM shows initial pulse that filled most of the channel width in the distance. Second photo taken seconds later at 6:58 PM shows a small bridge downstream spanning the low flow channel. Three minutes later the flood overtopped the bridge. At 7:03 PM the flood swept away many yellow golf balls and reached Osborn Road seconds later. Three minutes later at 7:06 PM Osborn Road was covered in 1.5 feet of water: too much to make a safe crossing.



7:03



7:06



6:58

Nearly three feet of water came down the Wash flooding a piece of paving equipment and causing a large trash container to float by. 3 or 4 years ago I saw slightly less water flood several cars parked in the golf course lot off Osborn Road in the Wash. If they had paid attention to the Maricopa County website, they could have seen the flood coming.



6:58



6:58



6:58

Flash Flood continued on page 15....

...Flash flood continued from page 14

AT&T LTE		4:00 PM	
alert.fcd.maricopa.gov			
Date	Time	Feet	cfs
08/13/2022	14:47:00	0.82	47
08/13/2022	13:39:00	0.95	73
08/13/2022	12:42:00	1.07	108
08/13/2022	12:00:00	1.20	150
08/13/2022	11:41:00	1.22	157
08/13/2022	10:50:00	1.35	204
08/13/2022	09:56:00	1.47	250
08/13/2022	09:03:00	1.60	304
08/13/2022	08:11:00	1.72	360
08/13/2022	07:17:00	1.85	424
08/13/2022	06:00:00	1.97	484
08/13/2022	05:05:00	2.02	511
08/13/2022	04:00:00	2.15	588
08/13/2022	03:14:00	2.27	658
08/13/2022	02:33:00	2.39	733
08/13/2022	01:55:00	2.52	820
08/13/2022	01:23:00	2.64	900
08/13/2022	00:50:00	2.77	993
08/13/2022	00:23:00	2.89	1082
08/13/2022	00:00:00	3.02	1184
08/12/2022	23:46:00	3.07	1223
08/12/2022	23:23:00	3.19	1318
08/12/2022	23:03:00	3.32	1425
08/12/2022	22:45:00	3.44	1529
08/12/2022	22:30:00	3.57	1643
08/12/2022	22:16:00	3.69	1747
08/12/2022	22:05:00	3.82	1863
08/12/2022	21:52:00	3.94	1972
08/12/2022	21:42:00	4.07	2099
08/12/2022	21:32:00	4.19	2220
08/12/2022	21:22:00	4.31	2339
08/12/2022	21:12:00	4.44	2469
08/12/2022	21:04:00	4.56	2590
08/12/2022	20:57:00	4.69	2726
08/12/2022	20:51:00	4.81	2855
08/12/2022	20:43:00	4.94	3000
08/12/2022	20:39:00	5.09	3157
08/12/2022	20:33:00	5.21	3288
08/12/2022	20:27:00	5.34	3435
08/12/2022	20:21:00	5.49	3612
08/12/2022	20:11:00	5.64	3788
08/12/2022	19:07:00	5.76	3929
08/12/2022	19:02:00	5.64	3788
08/12/2022	19:00:00	5.49	3612
08/12/2022	18:58:00	5.29	3379
08/12/2022	18:55:00	4.86	2910
08/12/2022	18:53:00	4.59	2621
08/12/2022	18:52:00	4.44	2473
08/12/2022	18:45:00	2.60	873
08/12/2022	18:40:00	0.72	0
08/12/2022	18:00:00	0.72	0
08/12/2022	12:00:00	0.72	0
08/12/2022	06:00:00	0.72	0
08/12/2022	00:00:00	0.72	0
08/11/2022	18:00:00	0.72	0
08/11/2022	12:00:00	0.72	0
08/11/2022	06:00:00	0.72	0
08/11/2022	00:00:00	0.72	0

See gauge report at Indian School Road (table to the left), 1/2 mile upstream, that showed how quickly the Wash came up, but not so fast that I couldn't get out of the way. The channel is very wide at Osborn so I had a couple of minutes to get out of the way of one of the largest flows since 1972. The channel redesign, with greenbelts, handled the flood without a hitch.

The next day I took a picture of the paving equipment that was flooded with nearly three feet of water. I was told that with a little prep it should start right up, unlike a flooded family car. A day later the roller was cleaned up and moved; it survived.

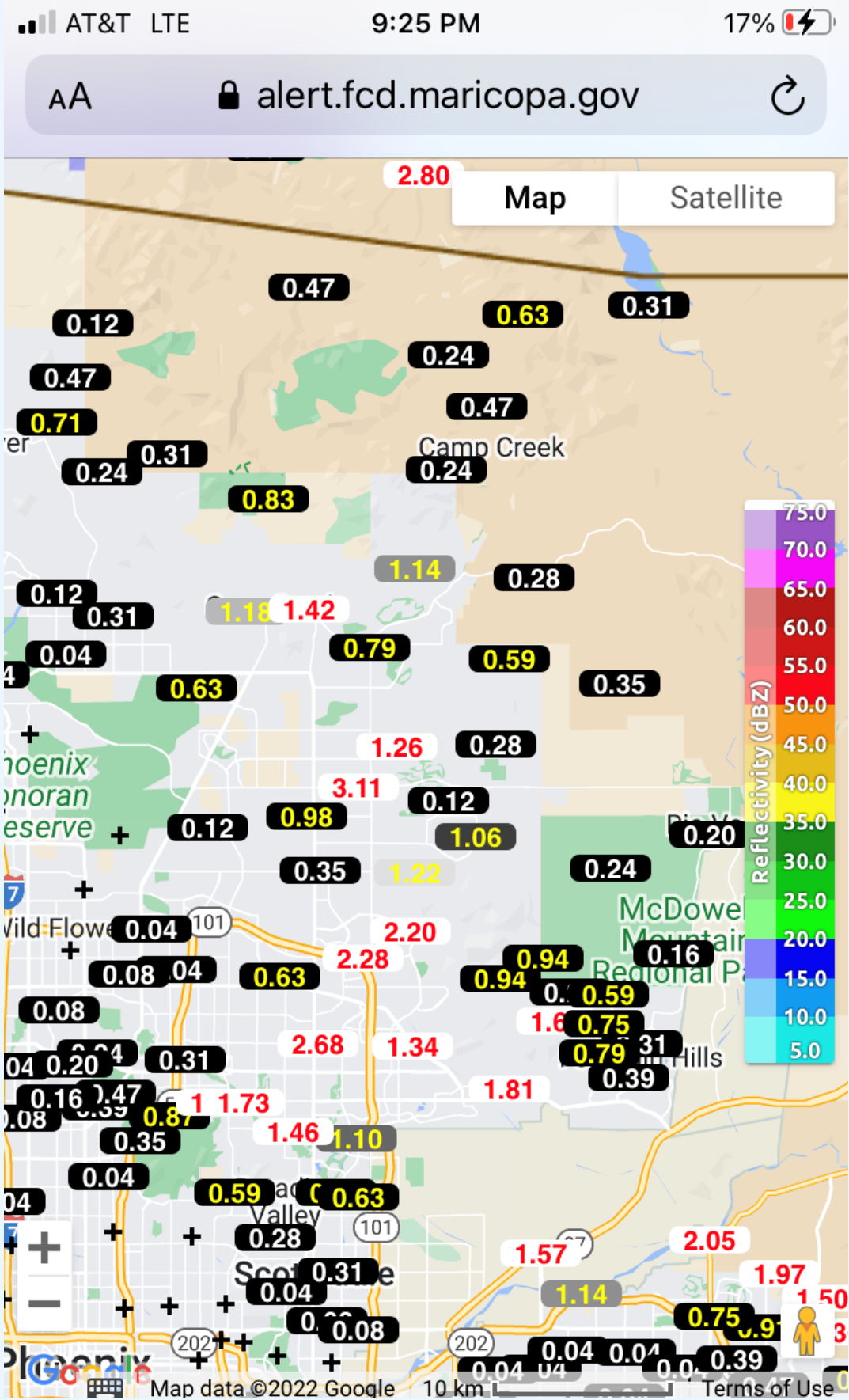
A day after the large flood along Indian Bend Road at the Wash water spurted out of large metal horses using diverted flow: a giant art project. Nearby egrets and herons waded in the water for tasty fish, while ignoring the no swimming and fishing signs. In the last photo the heron snapped at and ate several large flying insects.

Check out the Maricopa County website mentioned above. It is useful to help plan hikes and avoid floods near the metro area. I have used it several times to determine when to hike along Cave Creek at Spur Cross Ranch in Cave Creek. You will get very wet if there is more that 50 cfs in Cave Creek.



On page 15 see the flash flood map of the one day rainfall that triggered the flood. Note only 0.31 inches fell near Osborn Road.

...Flash flood continued from page 15





## SILENT AUCTION ITEMS FOR THE SEPTEMBER 2022 DMRMC MEETING

by Stan Celestian, Silent Auctioneer

First of all, **WELCOME BACK FELLOW ROCKHOUNDS !** It has been a long hot summer indeed. We are all in need of a rock fix and Bill Freese is the man with a plan... many plans. Some great rockhounding awaits. But for the first meeting I have assembled some really great items.



ITEM 1 - SLATE COASTERS WITH WOODEN HOLDER ETCHED WITH CLUB LOGO

**ITEM 1** on the silent auction is this beautifully crafted set of 4 slate coasters. (Slate is an excellent choice for a rockhounding coaster.) Each coaster is adorned with the new club logo laser etched onto the surface of the slate. It will not wash off. On the bottom of each coaster are 4 rubber pads to protect the coaster from whatever you place it on. This fabulous coaster set is complete with a hand made wooden corral (with silicon pads) that will keep the coasters from wandering off on their own. Coasters measure 4" X 4".

Be the first in your neighborhood to show off you club affiliation with these beautiful (worthy of framing), yet practical pieces of art.

A "root beer" colored dravite is **ITEM 2** on the auction table. This exotic specimen is from Yinnietharra Station, Gascoyne, Western Australia. I personally collected this specimen and am willing to let it go for a good cause. DMRMC is a good cause. The crystal was found in a mass of decomposing mica schist, a very long way from anything. This doubly terminated crystal is 1.75 inches tall and has been mounted (with hot glue) onto a custom acrylic base.



ITEM 2 DRAVITE (A variety of Tourmaline) from Western Australia

**ITEM 3** comes from Peridot Mesa right here in Arizona. It was collected on one of the club's field trips just last year. The rock's Geological name is "*peridotite xenolith in phonotephrite*". Peridotite is a rock that Geologists have shown

comes from the Earth's upper mantle some 40 to 60 miles below the surface. The rough green crystals are Forsterite ( $Mg_2SiO_4$ ), a variety of the mineral olivine. Gem quality olivine goes by the name peridot, and Arizona is famous for its production of this gemstone. Peridot Mesa is one of the world's classic gemstone localities.



ITEM 3 - PERIDOTITE

The peridotite is believed to have travelled very quickly to the surface. As a result of this release of pressure, the olivine grains in the peridotite tend to expand slightly and become loose and fall out fairly easily. This specimen has been sprayed with a clear plastic coating to hold the grains together. The clear spray also gives the specimen a "wet" look which brings out its color and contrast between the green and dark gray nicely. The specimen has been hot glued to a custom made wooden base that is 5" X 5". A piece of peridotite-in-phonotephrite (a type of basalt) should absolutely be in every rockhound's collection!

*Silent Auction continued on page 18....*

*Silent Auction continued from page 17*



ITEM 4 - AGATE from Agate Mountain

slabs or you can keep it as is.

**ITEM 4** was collected on another club field trip to Agate Mountain. It was on a rather rough road, just ask anyone who was on the field trip. It is definitely a 4WD adventure. But as the name implies a great deal of agate is to be had in the area. Once there, club members scattered and walked hundreds of yards to find the best pieces of agate they could. I hiked for at least a couple of miles and picked up a piece here and there. Finally I was finished and had started walking along the "road" back to the car when I stepped on a small agate outcrop. True to the rockhound motto "Just One More Rock", I stopped and dug a few pieces out. It was probably the best piece I found. It is nicely banded with some reddish color as well. I cut off a couple of slabs and this is the end cut. It is polished on one side and is about 4" X 4" and 2.5" thick. It is thick enough to get a few more

**ITEM 5** was collected on yet another club field trip. This one was a multi-day trip to the Springerville area for Luna agate, and yes, everyone found some (even Robin!). Our last collecting stop was probably the most difficult, as far as the terrain is concerned. It was very rocky and very steep. We were informed that the "best stuff" was on the other side of the ravine. So that's where I headed. I don't know if it was the "best" but I did find this rather large nodule. I found one piece first and then another a few inches away. They looked like they fit together and... they did! But there was a section missing. A few feet downslope, there it was. They all fit nicely together, just like Pangaea, some 250 million years ago. Just imagine these pieces with a polish on them. They - will - be - awesome ! If you put the winning bid on this item, you can have the pleasure of bringing these rocks new life, or even a purpose to their existence. What better purpose is there for a humble rock to bring joy into someone's life ?



ITEM 5 - AGATE NODULE from the Luna Lake area Arizona. The assembled nodule on the left is about 8" wide.

Bring plenty of **cash or checks (Tiffany can probably take a credit card)** to bid on these items.

Observe proper silent auction etiquette. Write your name so that I can read it (or print clearly, no initials). Write your name and bid amount below the last bidder's bid. No arrows pointing to your previous, but revised bid. The highest bidder and amount should be on the bottom of the bidding sheet. Also, **HAVE FUN!** (PLEASE, no crying if you lose, and that goes for the ladies too.)

**UPCOMING FIELD TRIPS**

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

Check you email of August 14, 2022 of the complete general field trip calendar.

**September**

Mingus Mtn - Wed 7th -- Banded Iron  
 Dobell Ranch & Grand Falls - Sat 10th -- Petrified Wood  
 Parks, AZ - Obsidian - Sat 24th -- Obsidian

**October**

Bronzesmith (Prescott Valley)- Thur 13th -- Tour of Foundry  
 Roberts Mesa (Payson Area) - Sat 15th -- Agate  
 Geode Hill-Payson - Wed 19th -- Geodes, Fossils  
 Fossil Site (N of Strawberry) - Sat 29th -- Naco Fossils

**November**

Red Cloud (Yuma)- Fri/Sat 4th & 5th -- Wulfenite, Vanadinite, Fluorescents  
 Purple Passion (Wickenburg) - Wed 9th Wed -- Evening trip for Fluorescents  
 Chilito Mine (with ???) (Hayden) - Sat 19th -- Copper Minerals (chrysocolla, azurite, malachite, cuprite)  
 Hewitt Canyon - Wed 30th -- Pink/green Banded Marble

**December**

Blue Cube/Prism/Spectrum - Sat 3rd -- Fluorite, Amethyst  
 Saddle Mtn (Tonopah) - Wed 7th -- Chalcedony Roses  
 Christmas Party/Picnic at Dave Haneline Mine - Sat 17th

**January**

Mushroom Rhyolite (new claim) - Sat 7th  
 Quartzsite Club Day - Sat 21st -- Mineral Shopping  
 Oatman area - Fri-Sun 27th-29th -- Travertine, Lizardstone, Fire Agate, Oatman

*DATES AND DESTINATIONS SUBJECT TO CHANGE*

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

**FACEBOOK**



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

**AWARD-WINNING WEBSITE**

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

If you have comments, contact Nancy Gallagher.

**INSTAGRAM**



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

**Officers, Chairpersons, & Trustees**

- President:** Ed Winbourne.....ewinbourne@gmail.com
- Vice President:** Bill Freese..... bfreese77@cox.net
- Secretary:** Rebecca Slosarik .. rslosarik1@gmail.com
- Treasurer:**...Deanne Gosse deanne.gosse@gmail.com
- Publicity:** Jessie Redmond...
- Membership:** Tiffany Poetsch tpoetsch@gmail.com
- Editors:** Susan & Stan Celestian..... azrocklady@gmail.com
- Field Trip:** Bill Freese ... bfreese77@cox.net
- Mine Steward:** Stan Celestian .....stancelastian@gmail.com
- Show Chair:** Ed Winbourne
- Trustees:**

Cynthia V	Claudia M
Susan C	Tiffany P
Bob E	Jim R
Don R	Howard R
Jessica C	Rebecca S
Renee I	Bob S.
Nancy G	Yolanda & Gregg J
	Johanna R

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

***FUTURE SPEAKERS***

**SEPTEMBER:** Alexander Falster - Maine Mineral Museum (Bethel, ME) via Zoom. He is a field geologist with experience in Africa as well as North America specializing in pegmatites.

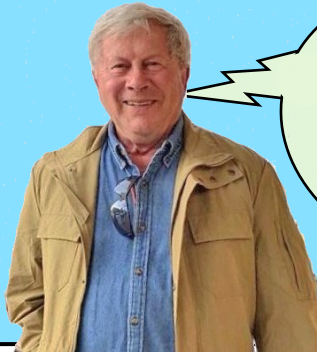
**OCTOBER:** Jay Yett, on The Colorado River Compact. He is a club member, and retired geology instructor from Orange Coast College, Costa Mesa, CA

**NOVEMBER:** Stan Celestian, club member and retired geology instructor from Glendale Community College, Glendale, AZ.

**APRIL:** Robert Hazen - Carnegie Institution, Washington D.C., via Zoom. He is a geologist and will speak on Mineral Evolution.

## WORDS OF WISDOM

*passed along by our own*



If you find yourself in a hole, the first thing to do is stop diggin'!

### UPCOMING AZ MINERAL SHOWS

**September 16-18 - Payson, AZ** Payson Rimstones Rock Club; Mazatzal Hotel & Casino; Fri 2-7, Sat 9-5, Sun 10-4; Admission: Adults \$3 Friday, \$5 Sat-Sun, under 13 free. SEE [POSTER](#)

**September 23-25 - Clarkdale, AZ** Mingus Gem & Mineral Club; Clark Memorial Clubhouse Auditorium, 19 N 9th St; Fri-Sat 9-5, Sun 9-4; Admission: Free. SEE [POSTER](#)

**October 7-9 - Buckeye, AZ** West Valley Rock & Mineral Club; Buckeye Arena, 802 N 1st St; Fri-Sat 9-5; Admission: Adults \$3, under 13 free.

**October 8 - Cottonwood, AZ** Verde River Rockhounds; Old Town Activity Park, 187 E Pima St; Sat 9-5; Admission: Free?

**October 8-9 - Sierra Vista, AZ** Huachuca Mineral & Gem Club; Sierra Vista Mall, 2200 El Mercado Loop; Fri-Sat 9-5; Sun 10-4; Admission: Free.

**October 15-16 - Sedona, AZ** Sedona Gem & Mineral Club; Sedona Red Rock HS, 995 Upper Red Rock Loop Rd; Sat 10-5, Sun 10-4; Admission: \$4, 12 & under free.

**November 26-27 - Wickenburg, AZ** Wickenburg Gem & Mineral Club; Wrangler Event Center at Hassayampa School, 251 S. Tegner St; Sat 9-5, Sun 10-4; Admission: Free. SEE [POSTER](#)

**January 5-6 - Mesa, AZ** Flagg Mineral Museum; Mesa Community College, NE corner of US 60 and Dobson Rd; 9-5; Admission: Free. SEE [POSTER](#)

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 - SEPTEMBER

**You are invited to NMVC Studio -- there are some changes in the schedule this Fall. Lapidary Classes every Wednesday & Silversmithing Classes on Saturdays. Lapidary Open Studio every Monday & Silversmithing Open Studio every Thursday. TIMES: from 9:00 to noon with cleanup starting at 11:50.**

**Face masks are now optional.**

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. 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](mailto: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.

**September -- Wednesday dates are 7, 14, 21, 28  
September -- Saturday dates are 3, 10, 17, 24**

**September -- Monday dates are 5, 12, 19, 26  
September -- Thursday dates are 1, 8, 15, 22, 29**  
Email Shirley at: [crystalc17@gmail.com](mailto:crystalc17@gmail.com) Usage fee is \$8/hour.

# 24th Annual Payson Gem and Mineral Show

September 16-18, 2022

Fri 2-7 Sat 9-5 Sun 10-4

Vendors  
Rocks and Slabs  
Polished Rocks  
Fossils  
Jewelry & Art

Fun and Education  
Kids Area  
Flourescents  
Auctions, Raffles  
Demonstrations

Admission  
\$5 Adults  
\$3 Friday

Kids under 13  
FREE all days

AT THE **Mazatzal Hotel and Casino**

Sponsored by the Payson Rimstones Rock Club

# Clarkdale Rocks Gem & Mineral Show 48<sup>th</sup> Show

## Show & Sale



**September 23 - 25, 2022**



**Clark Memorial Clubhouse Auditorium**

19th N. Ninth Street, Clarkdale, AZ 86324

**FRI & SAT 9am-5pm, SUN 9am-4pm**

**Free Admission**

Mingus Gem & Mineral Club  
[www.mingusgem.club](http://www.mingusgem.club)

Crystals Minerals Gems Jewelry  
Fossils Cabachons Findings  
Rock Slabs  Geode Splitting  
Daily Raffles  and much more!

# Wickenburg Gem and Mineral Show Nov 26 & 27, 2022



Free Admission

Jewelry

Fossils

Minerals

Gems



Over 40 Vendors    Best Rock Contest    Raffle  
Door Prizes    Kid's Area    Silent Auction

Hassayampa Elementary School  
251 South Tegner Street Wickenburg, AZ  
9am - 5pm Saturday • 10am - 4pm Sunday

# 50<sup>TH</sup> ANNUAL FLAGG GEM & MINERAL SHOW



GOLD - QUARTZSITE, LA PAZ COUNTY, ARIZONA  
U OF A MINERAL MUSEUM COLLECTION  
PHOTO CREDIT: JEFF SCOVIL  
2.2CM HIGH

**JAN** 6 to 8  
2023



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



FLAGG  
MINERAL  
FOUNDATION

The Tailgate Show  
Tradition Continues!

FREE Parking  
FREE Admission  
FREE Samples for Kids

[www.Flaggshow.info](http://www.Flaggshow.info)