

ROCK TALK



White Mountain Gem & Mineral Club
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 June 2024

PRESIDENT'S LETTER

Another super meeting! Thanks to everyone who attended. Welcome to our FIVE new members - Karen, Mona, Bob, Ken, and Kim! Welcome back to our snowbirds. You should feel right at home with our warmer weather this week. What an amazing "Show and Tell" this month. Thank you Carl, Loren, Myra, Lynne, Dick, and Mike for sharing your treasures and kind words.

We lost another long-term member this month. The memorial service for Bonnie Adams (Dave's wife) will be Friday, June 7 from 4 - 6 pm at the White Mountain Lake Community Baptist Church. 8320 Lone Pine Dr, Show Low, AZ 85901 (928) 532-2947.

The date for our June field trip has been changed to June 29. We will be sharing this trip with the Payson Rimstones. We will be going to an abandoned sandstone site in Forest Lakes. It has been years since we have been able to go to this site.

The banded sandstone has also been called picture sandstone and it is pretty amazing. If you are going to be near Prescott this weekend, check out Dee Budde's rock sale. She is another long-time member (since before I was even in the club).

Remember to sign up for our show. Lots to do before, during, and after. Check with Cathy or Ursula if you have questions.

Trivia: Gneiss, a feldspar, quartz is often mistaken for granite. This "gneiss" [pronounced 'nice'] guy looks like a layer cake - a total grain-iact. A hardy metamorphic mountain rock, it is found in the world's major ranges. It often replaces granite as an inexpensive building stone.

Remember, June is our hottest and driest month. Stay hydrated and observe the local fire restrictions.

Sandra



TREASURER'S REPORT

TREASURER'S REPORT		
Expense for May Heber/Overgaard CofC Rock Talk printing & postage Accounting fee IRS990N	Upcoming Expense Show Expenses Rock Talk printing & postage	Income This Month 2024 Gem & Mineral Show Member dues Silent Auction Raffle

BULLETIN BOARD

Happy June Birthday

Sandra Angelo

Lidia Duvall

Lee Freyenhagen

Yvonne Garrett

Malcolm Glick

Jenna Hamilton

Leif Jentoff

Candis Mayer

Rick Palmer



***Why Not Join our
Let's Do Lunch Club***

WHEN: Friday June 28, be there at 12:00 Noon.

WHERE:

MOUNTAIN THAI

2741 WEST WHITE MOUNTAIN BLVD
PINETOP/LAKESIDE

(Let's celebrate our June birthdays)

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Notice:

Last names N-Z will supply the potluck table for the July 2024 meeting.

**OUR CLUB NEEDS
A TREASURER**

**IT'S NOT HARD AND
YOU WILL BE TRAINED!!!
PLEASE CONSIDER!!**

Rock Talk Newsletter

Our newsletter is published monthly by the White Mountain Gem & Mineral Club, Inc. Any information or comments members wish to include in the monthly newsletter must be given to the editor at the general membership meeting or call the editor no later than Tuesday following the meeting.

Membership Dues

Membership dues are \$20 for a single membership and \$25 for a couple/family. (\$5 less if you receive newsletter by email.) Dues are paid in January each year along with a completed application form. Memberships initiated in November or later in a given year are also good for the following year.

Meetings

We meet the first Sunday of the month (unless it falls on a holiday) at the VFW Post 9907, 381 North Central Avenue in Show Low. Turn north off the Deuce of Clubs at Burger King. Social half hour at 1:00 PM, meeting starts at 1:30 PM.

ELECTED OFFICERS

Office	Name	Phone	E-Mail
PRESIDENT	Sandra Angelo	(928)537-3726	sandra_angelo@hotmail.com
VICE PRESIDENT	Debbie Christmas	(602)475-4714	Deb_xmas@yahoo.com
2ND VICE PRESIDENT	Carol Glick	(928)228-6202	malcarglick@yahoo.com
SECRETARY	Shelly Applegate	(928)245-4300	shellylynn@gmail.com
TREASURER	OPEN		
EDITOR	B.G. Hogarth	(928)532-3043 Cell-(775)397-2312	hogarths@citlink.net
FIELD TRIPS	Dick Turpin	(480)240-0995	
	Rick Palmer	(928)333-5019	palmer57@frontiernet.net

Members at Large

Dick Turpin	(480)240-0995
Terry Pollard	(480)431-0686
Ursula Wilson	(928)532-5703
Shirley Leistikow	(623)261-5752

Volunteer Positions

Webmaster/Coalition Chair	Aimee Webster	(602)503-8417	afwebster61@gmail.com
Show Chairman	Cathy Cargile	(714)348-9162	skyranch5734@yahoo.com
Assistant Show Chairman	Ursula Wilson	(928)532-5703	
Sunshine	Donna Pollard	480-600-2714	tdpollard@msn.com
Education, Schools	Open		
Greeter/Door Prizes/Raffle	Thelma Gray/Diane Moten		
Auctioneer	Donna and Terry Pollard		
Highway Cleanup	Brookie/ Larry Embry	(928)537-0760	
Bonus Prizes	Sandra Angelo	(928)537-3726	
Historian	Donna Pollard	(480)600-2714	tdpollard@msn.com
Librarian	Rick Palmer	(928)333-5019	palmer57@frontiernet.net
Meeting Room Setup/cleanup	Shelly Applegate	(928)245-4300	shellylynn@gmail.com

Chamber of Commerce Liaisons

Show Low: B.G. Hogarth

Springerville/Eager: Rick Palmer

Snowflake/Taylor: Open

Heber/Overgaard: Aimee Webster

WHITE MOUNTAIN GEM & MINERAL CLUB

MEETING MINUTES JUNE 2, 2024

President Sandra Angelo called the meeting to order at 1:31PM. Forty members were present.

New members Bob and Mona Calderone, Kim and Ken Burd, and Karen Peck were welcomed.

For Show and Tell, Carl displayed tumbled sodalite. Its impurities fluoresce and prevent the stones from having a shiny smooth surface. Loren displayed pyrite, chalcopyrite, and iron pyrite, which are often confused with gold. Myra presented an exquisite necklace she knitted with copper wire, turquoise beads, and bells. Lynne showed an azurite and chrysocolla on schist specimen and suggested we visit the mine where she acquired it.

Dick shared wonder stone (actually rhyolite) from his Utah trip and explained some of its history. He also showed Dugway Geodes. Some were slightly radioactive, and thus the chalcedony fluoresces green. Mike thanked Donna for her **Rock of the Month** educational articles in **Rock Talk**, the club's newsletter.

The minutes of the May meeting were accepted as presented in **Rock Talk**.

Sandra gave the treasurer's report and stated that the club needs a full-time treasurer. Diane Turpin was thanked for helping out in the short term. (See Page 2 in **Rock Talk**.)

Carol has a list of rocks needed in the children's corner for the show. She reminded those present to gather rocks for the kids' activities when out collecting. Include the name of the rock and where it was found before you give it to Carol. (See Page 5 in **Rock Talk**.)

BG encouraged all the members to think about and submit articles to the monthly newsletter.

Sandra mentioned that Medieval Mayhem DaVinci Day is coming up on July 12. We will have our spinning wheel and will be sharing club and show information. Please consider helping out at this fun event.

Club member Dee Budde is having a rock sale June 6 through 9. She also has some donations for our club. If you are in Prescott, please consider picking up those donations if you can. Her address in Prescott is 2918 Vinny Drive.

The Albuquerque Gem Show is scheduled for the same day as our July meeting.

Donna brought up a concern with officers' phone numbers and emails being public. Carl said we are a public non-profit and required to publish that information in the Corporation Commission's annual report. This is public information.

If you receive an email asking you to purchase something on behalf of the club (particularly gift cards) forward the email or text to: reportphishing@apwg.org.

Dick Turpin reported on both the May and the upcoming June field trips. The June field trip has been rescheduled for June 29 in order for the Payson Rimstones to join us. (See Pages 6 and 7 respectively in **Rock Talk**.)

Brookie reported on the club's semi-yearly Adopt-a-Highway outing. Only six people showed up, but a good time was had by all. (See photos on Page 10 in **Rock Talk**.)

Show Chair Cathy Carlyle gave an update on the progress of the July Show. (See Page 9 in **Rock Talk**.)

If any members have changed their phone numbers, home, or E-mail addresses, please let Carol Glick know by E-mail or phone call. Her contact info is in the newsletter. Problems have arisen with contacting some members and others have mentioned they are not receiving club info.

A shout out line is available on local radio. Hope Rubi suggested we should call them and leave a brief message about the show. The phone number is 928-358-5544.

For the monthly program, Donna talked about a trip she and Terry took to Mount Tipton and metamorphic rocks.

Door prize winners were Kim Whitley, Karen Johnson, and Diane Moten

Carl Hickman won the 50/50 prize. Other winners were Karen Hickman and Carlo Porteen

There being no further business to discuss, the meeting was adjourned at 3:50PM.

Respectfully submitted,
Shelly Applegate,
Secretary

JUST SO'S YOU KNOW!



The following listed rocks are needed for our show, specifically for the kids' egg cartons and the spinning wheel. Please bring them to the July meeting and give them to Carol or Malcolm Glick. They can be either polished or raw.

Apache Tears	fluorite	Orthoceras Fossils
blue petrified wood (small pieces)	fossils	sand dollars
chert	half geodes	selenite rose
chrysocolla	jasper (small)	serpentine, polished
citrine	malachite	yellow calcite
crystals	opalite specimen	zebra agate



WHAT?! YOU SAY THAT YOU NEED MORE ROCKS FOR YOUR COLLECTION???

(Translation: Luk Lagen: Close the gatel!)

Several past and present members have rock-related items either to sell, or to give away.

IF YOU ARE IN PRESCOTT THIS WEEKEND, Dee Budde is having a rock sale June 6-9. She also has some donations for our club, if someone could pick them up. Her address is 2918 Vinny Drive. Phone: 928-708-0298. E-mail: ys6@q.com

JIMBO AND SANDY JACOBS are selling off their rock collection at one dollar per pound. Bring buckets and pick through. They live in Springerville. Phone: 928-242-2260

RICK OLSON has four tables of copper and iron minerals, agate, picture rock, and petrified wood for free! Just bring your boxes and buckets and have fun picking through it all. He lives at White Mountain Lake. If directions are needed, call 928-892-3481, but only between 8:00AM and 6:00PM.

LOTS AND LOTS OF PETRIFIED WOOD AND ONE 250-POUND LOG!!!

On the morning of our May field trip, the weather gods were much kinder to us than during the April adventure when the dirt road into Deer Springs was so muddy from overnight snow that we were forced to turn back. As the group of 26 gathered in downtown Show Low, the winds were blowing 20 to 30 mph, but it would have taken more than that to discourage the enthusiastic rockhounds. The dirt road was dry this time, but the deep ruts from the failed April trip were still visible.

Once at the Deer Springs fire tower, the group left a few vehicles behind and jumped into other 4WD trucks to negotiate the final hill to the collecting site. With good directions from Rollo Pool, the group spread out over the steep hill and almost immediately found large chunks of petrified wood. Many pieces displayed smokey quartz crystals that sparkled brightly in the spring sun. It only took two hours of searching and digging for most club members to gather all the wood they wanted. This included one whole petrified log weighing about 250 pounds. The group quickly learned that this fine specimen was much easier rolling downhill than lifting it onto the tailgate of a Tacoma. But, with help from several of the younger members, it eventually got loaded for the trip home. (See photo below.)

The final order of the day was enjoying lunch and good company at the fire tower picnic area.



**(Please note
change in date)**



JUNE FIELD TRIP TO FOREST LAKES FOR BANDED SANDSTONE

By Dick Turpin

Phone: 480-240-0885



Field Trip Leader: Dick Turpin 480-240-0995 dickturpinaz@gmail.com

Date: Saturday, June 29, 2024 (Note Change of Date)

Location of the Field Trip Site: We will be going to a site north of Route 260 just west of Forest Lakes.

Where and When We Will Meet: The primary meeting point will be the Show Low Chamber of Commerce parking lot on Deuce of Clubs at 7:30 AM. The secondary meeting point is at the toilet 0.2 miles north on Forest Rd 237 at about 8:30.

Recommended Vehicle: Any vehicle can make it to the secondary meeting site. The last few miles may get rough and a 4WD high clearance vehicle may be needed. Rollo Pool has a special use permit to collect at the abandoned quarry and has asked us to limit our vehicles to 10 due to limited parking at the quarry. If we have more than 10 vehicles we will carpool from the secondary meeting site in the most appropriate vehicles.

What we will collect: We will be collecting banded sandstone and marine fossils.

Recommended Things to Take: Bucket, rock hammer, sledge, chisel, grabber, digging tools, cold water, lunch, sunscreen, and a wide-brimmed hat.

Cell Phone Service: The site is moderately remote and likely lacks cell service.

Directions to the Site: Drive west from the primary meeting location on Highway 260 about 55 miles to just past milepost 287 and turn right on Forest Rd 273. Go 0.2 miles north and park near the toilet on the left. We will meet Rollo there and he will lead us about six miles to the collecting area.

Notes:

1. Rollo has asked that all WMG&MC attendees sign the liability waiver for the Payson Rock Club.
2. He will hold a five-minute safety briefing before the trip.
3. Rollo has samples of the rocks and fossils that we plan to collect.



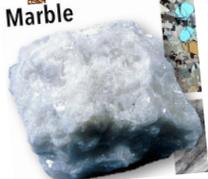


ROCK OF THE MONTH

METAMORPHIC ROCK



By
Donna Pollard



As we learned from the May edition of *Rock of the Month*, rocks and minerals are different entities.

This month we look at *Metamorphic Rocks!*

Minerals have distinct chemical formulas and can be identified by certain common tests we can use to aid that identification. They include hardness (H): such as quartz which will always be able to scratch normal glass; streak color, such as hematite which always has a red streak; or acid testing, such as calcite which releases carbon dioxide (CO₂) bubbles when it comes in contact with acid or even vinegar.

Rocks, on the other hand, do not have the luxury of having tests to aid identification. Instead of one chemical formula, rocks, with a few exceptions, can contain many minerals, so potentially, many chemical formulas. It is said people get better at geology with every rock they see. Metamorphic rock is like that. The more one sees, the more one recognizes the characteristics of metamorphic rock. Because a metamorphic rock is a "changed rock," it originally was a vastly different rock, with infinite versions of what it may look like at the present. Still, metamorphic rocks have certain characteristics common to that type of rock. Some of these characteristics include hardness and density, heavy for their size, foliated (layered), interlocking grains, swirls or distorted stripping, and regrowth of crystals like garnets or sparkly mica.

Those characteristics of metamorphic rock depend on the properties of the original parent rock called the protolith, the environment where the protolith changed, and the length of time it took for the protolith to change or meta morph. Even the word metamorphic is Greek for "change in form."

The three environments that can lead to metamorphic rock are intense heat, intense pressure plus heat, or alteration of rocks along fault zones, such as during an earthquake. There are many scholarly names of metamorphic rocks, some that are only found in select places. Metamorphic rocks form underground from buried parents or protoliths, and then are pushed back to the surface by tectonic forces. Thus, the deeper they form, the less likely we will find them in our searches at the surface of the earth. There are some common metamorphic rocks that are at the surface of the earth and can be found quite easily.

Slate is a common metamorphic rock formed from a sedimentary rock called shale that was under great pressure with some heat. While not the prettiest, it is used for roofing, counter tops, floors and other places where flat, sturdy rock is needed. If slate remains below ground it eventually changes to phyllite, a colorful, smooth, foliated metamorphic rock. Phyllite, with additional pressure, becomes mica schist, the common, sparkly rock often mistaken for a valuable mineral such as silver or gold. Mica schist under more pressure has growth of metamorphic crystals such as garnet, resulting in a garnet mica schist, or pyrite, resulting in a pyrite mica schist.

The common igneous rock granite, with heat and pressure, takes on the foliated and often swirly form of gneiss (pronounced "nice").

(Continued on Page 9)

(Rock of the Month, Continued)

The last types of common metamorphic rock we are bound to find are marble and quartzite. Marble forms from heated limestone. The heat comes from molten igneous intrusions that infiltrate the buried limestone and cause the interlocking calcite crystals that have regrown in the original limestone. Quartzite, the other common metamorphic rock, forms from quartz sandstone that was also infiltrated by molten igneous magma.

The heat causes the grains of quartz sandstone to interlock, forming the hard, dense quartzite found in any riverbed or wash.

Metamorphic rock is some of the prettiest and easiest to spot at the earth's surface. It is also the oldest because of the cycle of "morphing" (changing) from one already formed rock into another formed rock. Eventually this cycle will break this rock down to sediment or bury this rock again to melt or be acted on by heat and pressure, and the cycle will continue.

By Cathy Cargile
Show Chair

2024 SHOW UPDATE

As of today, we have roughly 24 volunteers stepping up to make our Twenty-fifth Gem Show a stellar one! THANK YOU VERY MUCH!!! Many of the 24 will be working the four days from set-up to tear down and some just a few hours. **All** help is needed and important. Volunteers are the lifeblood of our club!

If you have ever thought that we should have **more** people helping, you are correct! The solution is increased membership. At the show we will have a Membership Table for our guests to learn more about **WMGMC** and to be invited to join us. We still need more volunteers to sit at the table and chat with our guests. Would **YOU** please help with that?

Please volunteer to serve as a vendor accommodator, meaning being on the floor walking the aisles of the show, keeping an eye out for anyone who might be helping themselves to things that they did not purchase, and it also means being willing to relieve a vendor so he or she can take a break for food or restroom.

Fourteen members have signed up to bring dishes for the Thursday potluck. Including our vendors, their assistants and club volunteers we will need potluck to serve about 50! Several have signed up for entre/casserole type dishes! Fruit, vegetables, cheese plate, desserts would all be helpful.

Our advertising sign committee has been very busy repairing signs, ordering new banners, planning out the street placements of the signs and more! There will be about three outings to put up signs and secure them in position so that wind does not take them away. If you can help with signs, please reach out to Greg or Terry. Some signs will go up before our next meeting on July 7.

Our basket committee has been working on our beautiful baskets for raffle. There are still some items needed for the date night and BBQ baskets, so please let Shirley know if you have something to donate.

Now is the time we promote the show and make sure we have **MANY** guests attend. Please help by mentioning our show to your friends and neighbors. Pass out flyers, put up posters on bulletin boards around town and spread the word, call your radio station and give a "Shout Out" to **WMGMC** regarding the Twenty-fifth Gem Show.

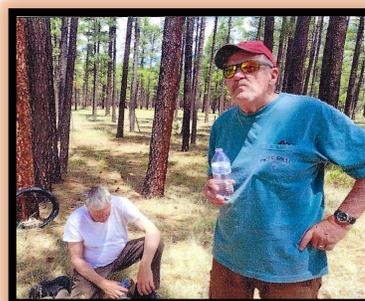
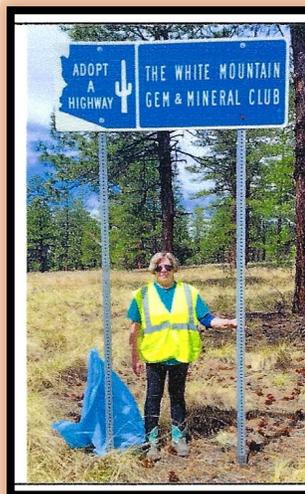
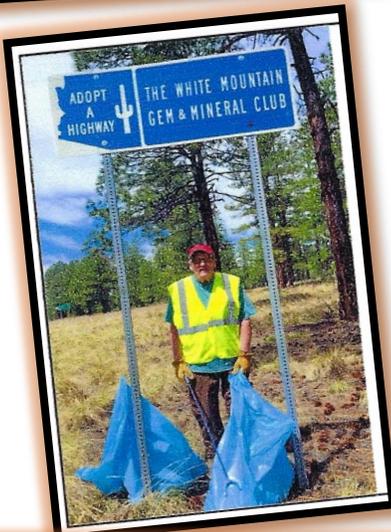
Be sure to attend the meeting on Sunday, July 7, our last before the show, to let us know how you would like to help and to bring in donations for the raffles. Remember, this is our biggest fundraiser of the year!

Love and thank you!

Cathy Cargile, Show Chair

ADOPT-A-HIGHWAY PROJECT MAY 18, 2024

Only six club members showed up for the semi-annual cleanup of our one-mile stretch of road. But it seems those six people had a fun time doing it. More members are encouraged to turn out in September for the second round of cleanup and to join in the fun!



AROUND AND ABOUT IN THE MEETING ROOM

