

Place:
Arden Community Hall
636 Hall Rd
Arden, WA



Club Meetings:
Third Tuesday of the Month
at 6:00PM

The Panorama Prospector

March 2023

PANORAMA GEM AND MINERAL CLUB

Minutes of the February 21, 2023 General Meeting

By Glynis Hull, Secretary

President: Lynne Calvert opened the meeting at 6:10 pm.

The last minute show details dominated the meeting. Johnie Pitman led the discussions.

Sharon presented what was going in the packets given to the schools and that all packets had been delivered. She reported the treasure hunt items were all prepared and ready for anyone who wanted to participate at the show.

Rick and Bob were working on a pachinko-style machine to replace the ring toss.

Sheila had the anti-fatigue floor mats.

Set up was scheduled for Wednesday evening after 5 pm with help from local youth.

Sheila did the radio spots to be aired on Thursday-Saturday.

Vendor spots were getting assigned. Relief workers were needed for the games area.

Kevin would host the silent auction.

The main door prize was already in place and all that is needed are hourly prizes.

Cases are all full. *(cont on page 3)*

Oh, What a Show!

Well folks, we pulled it off once again! The 2023 show was a big hit! It's estimated 770 adults and 350 children visited the show this year. We had nine vendors who reported good success and closed the show happy with the final results. Natalie Hand donated a sack of miscellaneous rocks to the club including several plant specimens from Stone Rose.

A Note from Johnie Pitman

WOW!! What a fun show, good attendance, fun activities, meeting friends, lots of young people, and good food. A HUGE thanks to everyone who helped set up, take down, and work the different areas for two long days. I would try to say thanks to individuals that did outstanding jobs in certain areas but I would probably miss someone, so thanks to all of you!! Please let me know the areas that you feel we can improve or simplify for next year.

Just a few pictures below to make you smile!



(Cont on page 3)

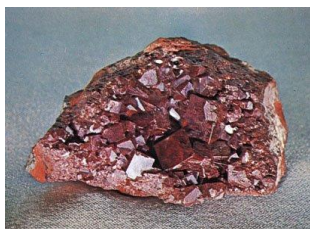
Identify the “Rock or Mineral”

By Jim Retzer

Last month’s rock or mineral:



Cuprite – OK, I used a photo that shows this mineral in a different color than it is normally found. In this case it is Malachite pseudomorph, or coated a layer, over Cuprite, forming a green crystal form. In its pure state Cuprite is bright-red, maroon, brownish-red, dark red, purplish-red, reddish-black, or dark gray. In the case of the green specimen the identifying features would be octahedral crystal form and the red that can be seen under the green. Remember Cuprite is a copper oxide mineral and is commonly formed with a thin coating of Native Copper crystals.



Cuprite from Bisbee, Ariz.

It is a secondary mineral which forms in the oxidized zone of copper sulfide deposits. It frequently occurs in association with native copper, azurite, chrysocolla, malachite, tenorite and a variety of iron oxide minerals. It is known as *ruby copper* due to its distinctive red color.

Cuprite is an oxide mineral composed of copper oxide Cu_2O , and is a minor ore of copper. It is in the Isometric Crystal System. Cuprite usually forms in octahedral crystals or in groups of octahedral crystals, sometimes with modified cubic crystal

edges. It is found less commonly as cubic or in cubic clusters and rarely in dodecahedral or modified dodecahedral form. It is sometimes twinned as penetration twins, and occasionally in hopper growth. It may also form as masses of tiny-elongated needles, capillary, fibrous, radiating, and massive. Cuprite is commonly found in a thin or encrusting coating upon Native Copper crystals. Crystals are often striated or have growth layers or patterns.

It has a Mohs hardness of 3.5 to 4 and a relatively high specific gravity of 6.1 with imperfect cleavage and is brittle to conchoidal fracture.

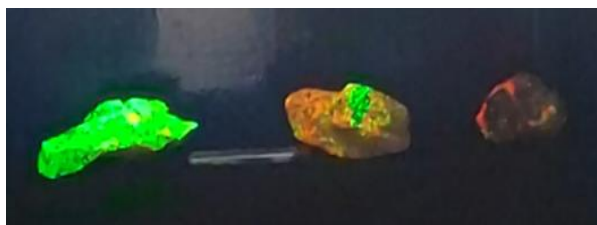
Cuprite is usually dark red to cochineal red and sometimes almost black and has a Adamantine, Sub-Metallic or Earthy luster.

In the U.S., excellent Cuprite specimens have come from many of the important copper deposits of Arizona, with the most notable and classic being Bisbee, Cochise Co. Other noteworthy Arizona localities are Ray, Pinal Co., Arizona; and the New Cornelia Mine, Ajo, Pima Co.

This month’s rock or mineral:



Gem Show Pictures cont.



Minutes cont.

Ginger, Sheila and Betty would handle hospitality.

Roger would take care of road signs.

The black light case is to be revamped to use a tent and secure the specimen case so people could see the items more quickly by just walking in.

Gene to do the trailer and Ginger the table skirting.

A discussion about the disposition of the belt buckles donated last year occurred with no definitive answer until more research was done.

There will be a trip to Metaline Falls again this summer for trilobites. Time and date will be determined after the show.

For Show and Tell Sheila showed selenite and Bob talked about crystals from King County.

Glynis showed the video Fossil Country, a PBS production.

Yellowstone

By Glynis Hull

I was 7 years old the first time I visited Yellowstone, These were the days when people fed the bears, walked up to bison for pictures and Old Faithful kept nearly perfect time. It was a magical place for me.

I have gone back to Yellowstone several times. Each time with a somewhat different focus. It seems I need a Yellowstone “fix” every so often. I’ll be going back this Memorial weekend for a photography class and will hopefully have some photos to share when I get back.

As I have time and space I have a few articles about Yellowstone in mind that I have wanted to do for awhile but never got around to. Now that I’m editor I have no excuse! Below is a page out of a Yellowstone guide book to start off the series.

The Four Types of Thermal Features

Geyser: A geyser is a hot spring with the intriguing habit of tossing underground water into the air. Water falling as rain or snow seeps through porous layers of rock. Eventually that water comes into contact with extremely hot rocks that have been heated by a large body of molten material, called magma, underneath the park. This hot water then rises through a series of cracks and fissures underneath the surface of the Earth. In a sense, these fissures are the "plumbing system" of a thermal feature. A geyser is the equivalent of a giant pressure cooker; even though the temperature of water deep down may be well above boiling, the weight and pressure of the water above prevents that boiling from happening. Eventually, though, the pressure builds enough to push the water in the upper reaches up and out, causing an overflow. That overflow, in turn, relieves the pressure on the super-heated water below, causing it to flash into steam. That flash, that explosion through a narrow, constricted place in the rocks, is what sends water shooting into the air.

Hot Spring: Hot springs are similar to geysers, but they have no constrictions in their plumbing. Superheated water cools and circulates as it reaches the surface and is replaced by hotter water from below. This circulation, called convection, prevents water from reaching the temperature needed to set off the chain reaction leading to an eruption. In areas underlaid with volcanic rock, as opposed to more easily dissolved limestone, a modification of the plumbing system—perhaps through small earthquakes—can easily turn a hot spring into a geyser. The many beautiful colors you see in hot springs are caused by light refraction, suspended mineral particles, and heat-loving microorganisms.

Fumarole: (also called steam vent): In simplest terms, a fumarole is a vent in the Earth's crust. The supply of water around fumaroles is not as plentiful as in hot springs and geysers. Modest amounts of groundwater come into contact with hot rocks underground and are turned to steam. This steam rushes up through a series of cracks and fissures and out the vent, sometimes with enough force to create a loud hiss or roar.

Mudpot: Mudpots occur in places where microorganisms help convert hydrogen sulfide, which rises from deep within the earth, into sulfuric acid. The acid dissolves surrounding rock into clay, which mixes with rising steam and groundwater to form mud of varying colors and consistencies. ♦

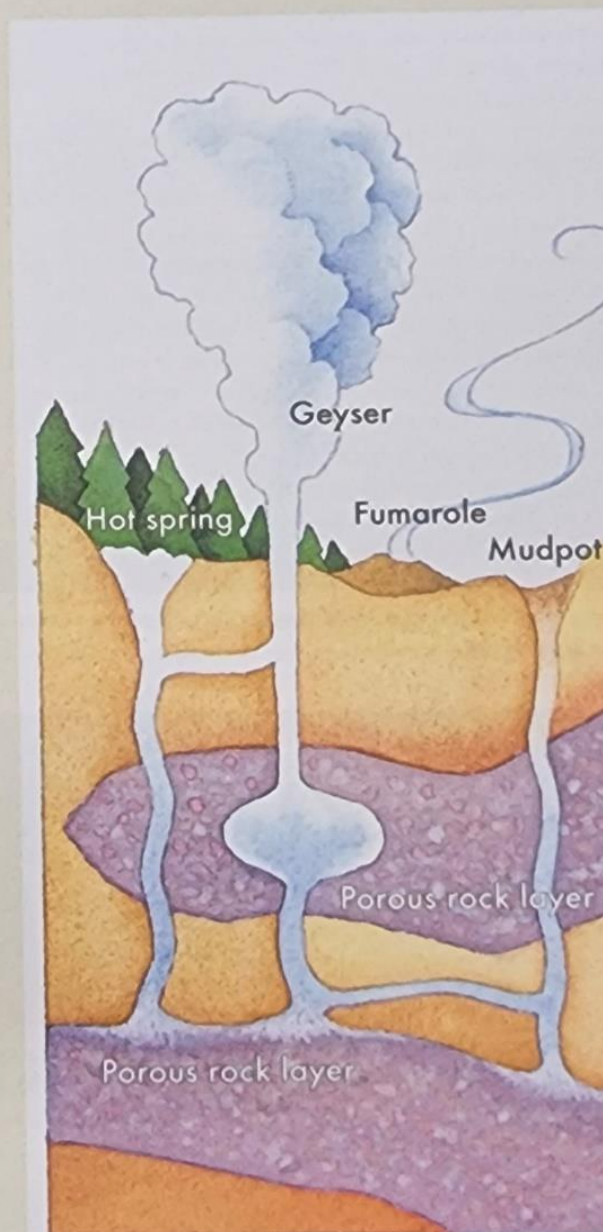


ILLUSTRATION BY PETER GROSSHAUSER

Membership Dues:

\$20.00 per household per year is due to the club Treasurer Frank Stratton on the third Tuesday of November for regular members. Dues can also be sent to: Panorama Gem and Mineral Club c/o Johnie Pitman, 701 B Williams Lake Rd, Colville, WA 991114.

Webpage: <http://panoramagem.com/>

Facebook Group: [Panorama Gem & Mineral Club](#)

We, The Panorama Gem and Mineral Club, are a multi-faceted group of mineral-minded people. Our proud members include some real gems, a few fossils, and even some diamonds in the rough. A few have lost some of their marbles, but they know where to get more! A few need to polish their coordination because they are always tumbling! And some are miners who use the “silver pick” as their tool of choice! It should be crystal clear, that we all enjoy this unique conglomeration and above all else we strive to **HAVE FUN**. And we never throw stones (away).

A Quick Note from The Editor (Glynis)

We are always looking for newsletter inputs from our members. If you have an idea for an article, please forward it to gghull@comcast.net. If you don't want to write a whole article, send me pictures with a brief note about them and I'll be happy to put them in this newsletter. Remember, “a picture is worth a thousand words”!

Refreshment Schedule for 2023

Last names that begin with the letters posted bring refreshments for that month

January – N, O, P
February – Q, R, S, T
March – W, A, B, C
April – D, E, F, G
May – H, I, J
June – K, L, M
July – N, O, P
August – Club Picnic
September – Q, R, S, T
October – W, A, B, C
November – D, E, F, G
December – Christmas Party

Panorama Gem and Mineral Club: Organizational Chart

Officers

President:	Lynne Calvert	lynnecalvert501@gmail.com	559-906-5923
Vice-President:	Bob Bristow	bristow71@outlook.com	509-935-4375
Secretary:	Glynis Hull	gghull@comcast.net	509-981-9714
Treasurer:	Frank Stratton	frstratton@outlook.com	509-207-8503
Trustee 1:	Scot Jackson	free2rockhound@yahoo.com	509-680-4896
Trustee 2:	Jim Peters	jimnbetty17@gmail.com	509-992-6921
Trustee 3:	Cyndi Doppler		509-216-5473

Committee Chairs

Program Coordinator:	Sheila Stratton	skstratton@hotmail.com	509-207-8506
Hospitality:	Betty Peters	jimnbetty17@gmail.com	509-992-6921
Historian:	Sheila Stratton	skstratton@hotmail.com	509-207-8506
Newsletter:	Glynis Hull	gghull@comcast.net	509-981-9714
Show Chair	Johnie Pitman	jgpitman@outlook.com	509-684-8887