

Place:
Arden Community Hall
636 Hall Rd
Arden, WA



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

The Panorama Prospector

July 2024

PANORAMA GEM AND MINERAL CLUB

Minutes for the June 18, 2024 General Meeting

Lynne opened the meeting at 6:00 p.m.

Lynne welcomed everyone and asked for volunteers to help with the kids in the back room to do a game and craft. Roger volunteered to help with that.

Lynn commented on the newsletter and how well it is written.

A recap of the Montana trip was done by Lynne. She shared about the wonderful time all the people had who attended. Crystal Park and Gem Mountain were both a lot of fun. Gene Fisher bought and donated buckets of dirt from the mine for the club to get to experience going through them looking for sapphires.

The Stonerose outing was shared by Kevin Youngblood who got some nice fossils but stated it takes patience and to keep your eyes open. He found a fossil of dragonfly wings laying out in the open.

Lynne talked about at the upcoming July meeting and having a time of going through the buckets Gene donated with the club members. She said to be sure and bring a chair, classifier (colander), and spray bottles of water. Also, large tubs were needed to fill with water. Frank and Vivian volunteered the use of large tubs that they have available. It was encouraged by Lynne to use this



One of the scholarship recipients came to the meeting and was introduced by Johnie. Her name is Haylee Frizzell and she graduated from Chewelah High School. She is working this summer and going to attend North Dakota State College of Science in the fall. She will be majoring in Ranch Management.

Minutes cont.

as a membership drive and invite friends.

Johnie shared that he has an application for the Marcus Apple Festival to host a booth for the club. It will take volunteers to set up, operate, and clean up the booth. If anyone is interested, please contact Johnie.

Jim Reitzer gave a very informative presentation on Prineville, Oregon. He provided information of what type of rocks could be found there; maps; places to camp; and where to go for more

information. He also stated that there is a lot of information on the internet. A tentative trip is planned for September.

The Wild Turkey Mine trip is planned for July 13, 2024. For those attending, meet at the Safeway parking lot in Chewelah at 8:30 a.m.

At this time a break was taken and refreshments were served.

The silent auction was finalized and the drawing was held. The winner of the drawing was Kris Davis.

A Share a Rock time was held. Gina requested polished rocks for an international donation. Sheila shared a rock she found at Crystal Park that contained smoky quartz, clear crystals, and citrine crystals. Roger shared a rock he found at Bannack State Park. Sharon also shared a rock.

A slide show was shown by Lynne of the Montana trip. Meeting was dismissed.

Late Breaking News from Lynne

The only things I have for the newsletter is a reminder of the membership drive and gem search during our meeting on 16 July. Participants should bring a chair, classifier or colander, tweezers, spray bottle, and container to hold gems.

Hall Road is now open and the detour is over.

Gemstones (A series)

(<https://geologyscience.com/gemstones/>)

Gemstone properties and characteristics

Gemstones have unique properties and characteristics that make them valuable and desirable. Here are some of the most important properties and characteristics of gemstones:

1. **Color:** Gemstones come in a wide range of colors, from deep red rubies to bright blue sapphires to green emeralds. The color of a gemstone can be influenced by factors such as

trace elements, impurities, and the crystal structure of the gemstone.

2. **Clarity:** The clarity of a gemstone refers to how free it is from internal and external flaws or inclusions. The clarity of a gemstone can greatly impact its value and desirability.
3. **Cut:** The cut of a gemstone refers to the way it has been shaped and faceted to enhance its beauty and brilliance. A well-cut gemstone will have ideal proportions and symmetry, allowing it to reflect light in a pleasing manner.
4. **Carat weight:** The carat weight of a gemstone refers to its size and weight. Gemstones are measured in carats, with one carat equal to 0.2 grams.
5. **Hardness:** The hardness of a gemstone refers to its ability to resist scratching and abrasion. The Mohs scale is commonly used to measure the hardness of gemstones, with diamonds being the hardest at a 10 and talc being the softest at a 1.
6. **Luster:** The luster of a gemstone refers to its ability to reflect light. A gemstone with a high luster will be bright and shiny, while one with a low luster will appear dull.
7. **Refractive index:** The refractive index of a gemstone refers to how much it bends light as it passes through the gemstone. This property can greatly impact the gemstone's brilliance and fire.
8. **Fluorescence:** Some gemstones exhibit fluorescence, which means they emit a visible light when exposed to ultraviolet light. This can create a unique and desirable effect in the gemstone.

These properties and characteristics help to define the unique beauty and value of each gemstone. The combination of these factors, as well as the rarity and availability of the gemstone, determines its overall worth and desirability.

Identify the “Rock or Mineral”

By Jim Retzer

Last month’s rock or mineral:



Catlinite also called Pipestone – Catlinite is a specific form of Pipestone found in Minnesota at Pipestone National Park. It is named after George Catlin, an American painter who in 1835 visited the site and recorded the Sioux legend of the origin of the pipestone.

Catlinite is a type of argillite (claystone) that formed over 1.5 billion years ago when an ancient river deposited clay on top of a sand deposit that was quickly buried by more quartz sand. Over time heat and pressure turned the sand deposits, above and below the clay, into the Sioux Quartzite formation. This same action from the heat and pressure changed the clay deposit into Catlinite.

According to Pipestone National Park this was a low-grade metamorphic process of heat and pressure, the deposits are not considered metamorphic rock but are classified as sedimentary rock. The classification as sedimentary rock is due to the lack of minerals that result from the metamorphic process. The process in this case is more of a lithification during which sediments, under pressure expel fluids and gradually compact into solid rock.

Catlinite is primarily composed of microscopic crystals of kaolinite, pyrophyllite, diaspore, and Muscovite forming a very fine-grained pipestone. Its red coloration is from traces of the mineral hematite. Most other red pipestones found in the world contain quartz, but in the case of Catlinite there is little or none. This lack of quartz gives catlinite a hardness of 2.5 on the Mohs hardness scale or about the same hardness as a human fingernail. It has a specific gravity of 2.65. The softness of this material makes easy for carving with the simplest tools.

Only American Indians who are enrolled in tribes recognized by the Federal government may apply for quarry permits. All quarrying must be done using hand tools. No power tools are allowed.

Red Pipestone or similar materials can be found in other area around the U.S. These include Barron County, Wisconsin, Tremper Mound, Ohio, Yavapai County, Arizona, Minnehaha County, Garretson, South Dakota, Northwestern Kansas, Jefferson, Lake, and Lincoln Counties in Montana.

This month’s rock or mineral:



Stonerose Interpretation Center Trip

By Lynne Calvert

On June 8th, Kevin, Gene, and I went to the Stonerose Interpretation Center in Republic, WA. We met Gustavo and his family who are from the Selkirk Rock and Mineral Club in British Columbia, Canada. We talked briefly with the staff and were given an orientation. Gene and I did not dig for fossils. The rock hounds in our group got to work right away to beat the heat of the day. I departed soon after but not before I snapped some pictures. Gustavo and his family found four small leaf fossils. More information to follow at our next club meeting.



Stonerose Dig Site

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/>

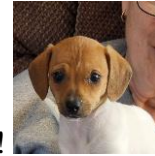
Facebook Group: [Panorama Gem & Mineral Club](#)

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)

Thank you to those who contributed to this issue. If you have a special story to share, contribute to OUR newsletter! Send ideas for articles, internet finds, jokes, pictures, adventure stories, science articles or your own articles to me.

gghull@comcast.net



Guinevere says “Hi”!

Refreshment Schedule for 2023

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

January – H, I, J

February – K, L, M

March – N, O, P

April – Q, R, S, T

May – W, A, B, C

June – D, E, F, G

July – H, I, J

August – Club Picnic

September – K, L, M

October – N, O, P

November - D, E, F, G

December – Christmas Party

Panorama Gem and Mineral Club: Organizational Chart

Officers

President:	Lynne Calvert		559-906-5923
Vice-President:	Bob Bristow		509-935-4375
Secretary:	Glynis Hull	gghull@comcast.net	509-981-9714
Treasurer:	Frank Stratton		509-207-8503
Trustee 1:	Kevin Youngblood		509-680-0207
Trustee 2:	Jim Peters		509-992-6921
Trustee 3:	Cyndi Doppler		509-216-5473

Committee Chairs

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