Place:
Arden Community Hall
636 Hall Rd
Arden, WA

Club Meetings:

Third Tuesday of the Month at 5:30 PM

The Panorama Prospector

January 2025

PANORAMA GEM AND MINERAL CLUB

Minutes for the December 17 2024 General Meeting

Meeting called to order 6 pm

Lynne briefly announced about the following:

January will be discussing show set up

February will be set up for the library showcase

****January February meeting start time is changed to 5:30. ****

Christmas party: Everyone had a good time. It snowed so there weren't as many people there as was expected.

Executive Board Meeting Minutes
January 10 2025

The meeting started around 12:30 PM.

Attendees: Lynne and Roger Calvert, Bob Bristow, Jim and Betty Peters, Johnie and Ginger Pitman, Kevin Youngblood.
Johnie presented the Financial Report. Ending Balance is $XXXXXX.
Discussed the gem show scheduled for March 7th and 8th.

- Initial set up will begin Wednesday, March 5th at 5:00 PM.
- Kevin will coordinate with Leigh to get students to help us set up the tables. If they are not available Johnie will ask Lori (Fairgrounds) if she has any personnel to help us set up tables. The club may have to pay for their time.

Editor note: I am including this article again so everyone is aware of what they will be asked to vote on.

Scholarship Information

Provided by Ginger Pitman

Jim and Betty Peters, along with Ginger and Johnie Pitman would like to present our research on our scholarhip funds staying local through our community colleges.

We met with Brian Moyer at Colville Community College. All scholarship funds are given through Community Colleges of Spokane which has campuses in Spokane, Colville, Newport, Republic and Inchelium.

We met with the manager of the Community College Foundation, Christine DeGeare, at her offfice in Spokane.

All registrations are done online and everyone applying for scholarhip funds has access online. Any student can apply.

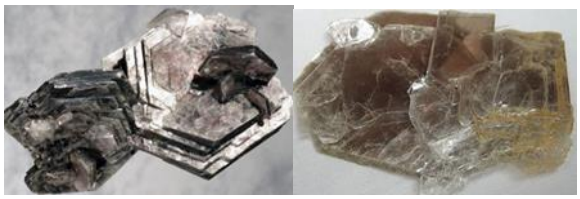
We would set up a fund in our name starting at $5000. We could add to that each year. We can set up our own requirements, such as living in Stevens County, graduating from any public or private school in the county, what programs we want to fund, and any other specifications we want. We can fund any age group, young or old.

Our hope is to keep our funds local and the foundation does all the selections and distributions according to our wishes. This will free the club from all the time, travel and hassle that goes into our scholarhips fund now.

Identify the "Rock or Mineral"

By Jim Retzer

This month's rock or mineral:



Muscovite - is a hydrated phyllosilicate mineral of aluminum and potassium and is the most common mineral in the mica family. It is in the Monoclinic Crystal System and Prismatic Crystal Class and like all mica minerals it is a phyllosilicate (sheet silicate) mineral. In other words, a crystal of muscovite consists of layers and can be cleaved into very thin transparent sheets. It is usually colorless with a pearly luster on cleavage faces but may be light gray, brown, pale green, or rose-red in color. It often has a sparkly look when found in metamorphic or igneous rocks. Large crystals of muscovite can be found in veins and pegmatites where it forms as massively crystalline material in "books"

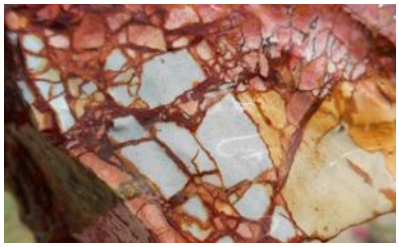
Muscovite can be found in metamorphic rocks, particularly gneisses and schists, where it can form as crystals and plates. It also occurs in granites, as well as fine-grained sediments, and in some highly siliceous rocks. It is easily identified by its perfect cleavage that allows it to be split into thin, flexible, elastic, colorless, transparent sheets with a pearly to vitreous luster. It is the only common mineral with these properties.

The ability of muscovite to split into thin transparent sheets - sometimes up to several feet across - gave it an early use as windowpanes. Sheets of muscovite were first used in Rusia, especially around Moscow, for windowpanes and became known as Muscovy glass (isinglass), hence its common name. Due to its resistance to high temperatures these mica windowpanes are particularly useful for high-temperature applications such as industrial furnace or oven windows.

Muscovite has a typical chemical formula of $KAl_2(AlSi_3O_{10})(OH)_{2..}$ It is White to colorless, silvery-white, and sometimes tinged to various colors by impurities and has a vitreous, silky, or pearly luster. Its hardness is 2.5 on the Mohs scale with a 2.77 – 2.88 specific gravity. It is in the Monoclinic Crystal System and Prismatic Crystal Class and forms in layers or "books."

Today the leading domestic use of mica is in joint compound for filling and finishing seams and blemishes in gypsum wallboard. Other uses include the use as a filler in the paint industry and in the well-drilling industry as an additive to drilling muds. The plastics industry uses dry-ground mica as an extender and filler and the rubber industry uses ground mica as an inert filler and mold release compound. Muscovite can be found in the production of rolled roofing and asphalt shingles as well as a decorative coating on wallpaper, concrete, stucco, and tile surfaces and found as an ingredient in flux coatings on welding rods and in automotive brake linings and clutch plates to reduce noise and vibration. Its pearly luster and thin cleavage make it useful in pearlescent paints used by the automotive industry and in the cosmetics industry as an important ingredient in blushes, eyeliner, eyeshadow, foundation, hair and body glitter, lipstick, lip gloss, mascara, moisturizing lotions, and nail polish.

This month's rock or mineral:



Executive board meeting minutes continued

- Johnie is coordinating with vendors to participate this year.
- Vendors and members with displays can set up on Thursday, March 6th.
- The club members will vote on a theme for this year's show at our next club meeting (January 21st).
- After the flyer is created, we will add it to our website and Facebook Page. We will ask our club members to post it on their Facebook pages. Lynne is coordinating with the *Stevens County Times* newspaper to have a feature article published in their February issue. She will also coordinate with our local radio stations.
- Johnie will have sign-up sheets for club members to volunteer for various tasks.
- Johnie will contact Lori (Fairgrounds) to ask about security cameras and ATM machines. Lynne will inquire with STCU about ATM machines.
- Roger and Kevin will look for a grand prize item for the show.
- Roger will set up signs just before the show.
- We discussed table cloths and skirting that the club typically supplies and attaches to all the tables. It is a time-consuming task. Some vendors have their own table cloths and skirting. It was suggested that the club does not automatically affix the table cloths and skirting. Instead, we assist vendors who need help with attaching them as time permits. In any case, the tables with our club member's display boxes will need to have skirting stapled or taped to the tables.

Discussed the display case at the Colville Library for the month of February. The case can accommodate about 20 small specimens. Lynne will confirm with the library we can meet on January 31st at 1:00 PM to set up our display of rocks. The specimens should be representative of Stevens County and Washington. Bring your specimens to our club meeting if you are unable to meet at the library. Betty will bring fabric to put a barrier between the glass shelves and specimens.

Website updates. Roger will update the website to add our Newsletters and information regarding our upcoming gem show.

Upcoming events:

- Discussed an Easter egg hunt in mid-April for members and their families. This event is an outdoor venue and contingent on weather conditions. We have a couple of buckets of thunder eggs and will need more. We discussed having smaller rocks hidden inside plastic eggs in addition to thunder eggs. More to follow on this topic.
- Roger will follow up with the County Commissioners regarding the display case in the County Court House. It needs updating and lighting added. The inventory list needs updating also. Estimated completion date is June 30, 2025.
- Scholarships. Club members will soon be voting on scholarship options. Due to the extensive considerations on this decision we do not have a specific deadline.
  - Option 1. Maintain the existing methods and efforts for local scholarships.
    - Pros: The club has more control of who receives the benefits.
    - Cons: Tedious and time consuming on our Treasurer and Trustees. Tuition is so expensive the amount of our scholarships may be insignificant towards actual tuition costs. Therefore, the students use the money at their own discretion.

Hi
I called the library. For anyone planning to be there for setting up the display - it will be on Feb 3rd at 1:00 PM. Cancel the date of January 31st.
Thanks
Lynne

- Option 2. Engage with the Community Colleges scholarship program. There is a one-time start-up cost of $5,000. This program alleviates our club and Trustees from direct efforts. Our club is able to stipulate the annual scholarship amounts. Our club is able to stipulate the annual scholarships go to Stevens County students only.
  - Pros: This will reduce the amount of administrative and physical efforts on our Treasurer and Trustees. Our club continues to support the local community.
  - Cons: Our club is not in control how much money each recipient receives. It is not known if our club can direct the program managers award benefits to only full-time students. It is unclear if students will know the money came from our club. We no longer are able to direct the scholarships only go to earth science degrees.
- Option 3. Abandon the scholarship program and provide money to local charities.

  Under this option our club members will decide which three charities will receive money. We will discuss the mission of each charity at the time of voting. Potential local charities are as follows: The Nest, Goodwill Workforce and Family Services, Rural Community Action, Colville Together, Northeast Washington Hunger Coalition, Colville Women's Center and Birth Place, and Catholic Charities. Club members may add charities for consideration and will need to define the type of services the charity provides to our communities.

The meeting adjourned at 1:50 PM.

Our 2024 Christmas Party in Pictures!







What is Adularescence and Minerals?

https://geologyscience.com/gemstone-blog/what-is-adularescence-and-minerals/#google_vignette

Adularescence is a captivating optical phenomenon that occurs in certain minerals, giving them a distinctive, glowing light that seems to move across their surface. This enchanting effect is most famously observed in moonstone, a variety of the feldspar mineral group. The term "adularescence" is derived from "adularia," an early name for a type of orthoclase feldspar first identified near Mount Adular in Switzerland. This article delves into the science behind adularescence, the minerals that exhibit this effect, and its geological, cultural, and practical significance.

The Science Behind Adularescence

Adularescence is an optical effect caused by the scattering of light within a mineral's internal structure. When light enters an adularescent mineral, it interacts with microscopic layers of different mineral phases, creating a unique glow that appears to move as the mineral is rotated. This effect is often described as a soft, milky sheen or shimmer that seems to hover just below the mineral's surface.

How Adularescence Occurs

The phenomenon occurs due to the interplay of light with alternating layers of two feldspar minerals within the stone. In the case of moonstone, these layers are typically made up of orthoclase and albite feldspar. As light passes through these layers, it is diffracted and scattered, creating the characteristic glow.

The thickness, uniformity, and spacing of these internal layers determine the intensity and quality of the adularescence. Thinner, more consistent layers produce a stronger and more uniform glow, while irregular or thicker layers may result in a weaker or uneven effect. The angle at which light enters the stone also affects the visibility and movement of the glow.

Minerals That Exhibit Adularescence

Several minerals exhibit adularescence to varying degrees. The most notable examples include:

1. Moonstone

Moonstone is the most well-known adularescent mineral and is highly prized in jewelry. It is a variety of orthoclase feldspar that displays a soft, ethereal glow, often in shades of blue or white. High-quality moonstones with strong adularescence and good transparency are particularly valuable.

2. Labradorite

While labradorite is more famous for its labradorescence—a play of colors across the surface—it can also exhibit adularescence. This feldspar mineral often shows a bluish or greenish shimmer beneath its surface.

3. Peristerite

Peristerite is a variety of plagioclase feldspar that displays a bluish-white sheen similar to adularescence. It is named after the Greek word "peristera," meaning dove, due to its resemblance to the soft sheen of a dove's feathers.

4. Opal

Though opals are more commonly known for their play-of-color effect, some varieties can exhibit adularescence-like qualities. These opals display an internal glow caused by the diffraction of light within their silica spheres.

5. Albite

Albite, a type of plagioclase feldspar, can also show adularescence in some cases. This effect is usually less pronounced than in moonstone or labradorite.

Adularescent minerals typically form in igneous and metamorphic rocks. The formation process involves the cooling and crystallization of molten rock material, during which alternating layers of different feldspar minerals are created.

For example, moonstone forms in pegmatites and granitic rocks, where slow cooling allows the formation of large crystals with the necessary internal structures.

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, ***please*** *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 2025

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:		gghull@comcast.net	
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