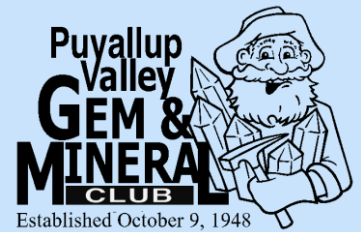


ROCK-A-TEER



Newsletter of the Puyallup Valley Gem & Mineral Club

Jillian Higgins

Issue 73

Volume 125

February

2024

THIS ISSUE

President's Perspective P.2
Field Trip Report P.2
February Club House Schedule P.3
Meet the Member: P.4
Club House Report P.4
Association's Director Report P.5
Article: Azumalacite P.5-7
Cold Forging by Tim Jackson P.8
Mineral of the Month & Sunshine Report P.9
Community Supporters P.10
From the Bench P.10
Upcoming State Shows P.11
2024 Show and Tell P.12
2024 Officers and Chairs P.13
Word Search P.14
Happy Birthdays P.14

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President's Perspective

Tony Johnson

For everyone who has their own equipment so you don't make it to the clubhouse, I would highly recommend you grab a slab and come in to see how we have been updating and improving cabbing techniques. Save yourself some time and money by scheduling yourself a class or two and checking out some new techniques we have implemented to cut down on your wheel use and making your cabs more secure if you use a dop stick.

Also, check out the new scheduling process on our website by clicking on the "Scheduling" button then entering the required password. Have any questions, email Jillian Higgins at PVGAMC@gmail.com.

You can also renew your membership through the website by clicking on the link in the banner on the home page.

Field Trip Report

February 17 - No Sights due to Weather

March 16 – Damon Point

Meeting place - 10:00AM Damon Point Parking Lot

Hunting for – Beach Agate, Jasper, Pet Wood, Shells

Tools you need - Rock hammer, shovel, rubber boots, and a backpack/bucket for your treasures

Access - this area is fairly easy to access, will be walking on a beach

Additional items - lunch/snacks and water, water, water. Dress in layers

Please remember that even though we love to meet new people, fieldtrips are a member benefit and part of your membership dues covers you for injury liability.

Though injuries are rare, and we do everything we can to avoid them, we are going out into nature, and uncontrollable environment.

All individuals attending field trips will have to sign a release of liability, and if you are bringing guests, we will try to entice them into join the club by having Membership applications available.

Field Trip Recap

Nathan White

There are no field trips for either January and February, so hopefully you are all staying safe and playing with rocks you collected last year.

FEBRUARY 2024 CLUB HOUSE SCHEDULE

DATE	DAY	TIME	ACTIVITY	LOCATION	INSTRUCTOR
1	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
2	Friday				
3	Saturday	10:00AM-2:00PM	Members Open Access	Club House	Tony Johnson
4	Sunday				
5	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
6	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
7	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
8	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
9	Friday	6:00PM	Club Board Meeting	Fruitland Grange	Nate White
		7:30PM	Club Business Meeting	Fruitland Grange	Tony Johnson
10	Saturday	10:00AM-2:00PM	Precious Metal Clay	Club House	Sonora Hauser
11	Sunday				
12	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
		7:00PM-8:00PM	Opal Club Business Meeting	Club House	Tony Johnson
13	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
14	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
15	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
16	Friday				
17	Saturday	10:00AM-2:00PM	Members Open Access	Club House	Tony Johnson
			NO FIELD TRIP	Field Trip	Nate White
18	Sunday				
19	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
20	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
21	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
22	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
23	Friday	7:30PM	Club Program Night	Fruitland Grange	Tony Johnson
24	Saturday	10:00AM-2:00PM	Intarsia	Club House	Tony Johnson
25	Sunday				
26	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
27	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
21	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
22	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson

For questions about a specific class or event, contact the instructor

Dennis Batchelor (360) 870-8741

Ed Knoll (253) 651-7453

Tony Johnson (253) 863-9238

Tasha Parker (206) 291-8069

Nate White (206) 349-7054

Jillian Higgins (253) 355-3146

Renera Barnes rsb1224@netscape.com

*** **Membership Workshop** is the time when members can use the saws and cabbing machines

This schedule is subject to change. Please check the club website for updated information.

MEET THE MEMBERS

Name: Joan Lockyer

Favorite Quote: "Kindness is the essence of greatness and the fundamental characteristic of the noblest men and women I have known"

What are your skills/past experience with the rock Club or rock hounding?

I learned under LaVonn how to slab and cab. Then Tony and Jillian shared their wealth of talent with wire wrapping and weaving. Dave Sanderson fired up the torch for some silversmithing techniques and Renera shared how to create chains and findings. My past experience is learning from the best.

What is your favorite rock, mineral or gem? Jade

What is your favorite thing to do with rocks, minerals or gems?

Find them, share them, learn about them and if time, make something to pass on to someone else.

What are your three favorite books/podcasts?

- Love Markley, VanCamp and Robbins
- Prisoner of Zenda
- Childrens Books

What is your favorite memory surrounding rockhounding/rocks in general?

Taking my grandson rock hounding. He found a rock that we cut and shaped. Became one of my favorites.

In your opinion, what is the best thing about the Puyallup Valley Gem & Mineral Club?

Hands down it's the people. If you're lonely or feeling down, go to a meeting or the club house. There is always a warm welcome coming your way, coffee and a cookie. It's a family.

In your opinion, where/how does the club need to improve?

Recognizing those volunteers who are doing so much to keep the clubhouse up and running as the equipment ages. Maybe more work or education with new members on how to use the equipment.

What are three (3) things people might not know about you?

- I grew up on a ranch
- I taught for 35 years
- For the Scandinavians – I can make Kumla

What is your greatest accomplishment? My Family!

Club House Report

Tony Johnson

Let's start the year with some good reminders. You need to clean your machines, don't hold trays by the wings, not to dump the water in the sink in the kitchen, to fill the tray up to the level of the spritzers. If the trim saws are not dripping oil, you need to get an instructor to add more and you need to give the trim saws a break and only cut out 5 cabs or a 20-minute run time. In regards to the large saws, you need to use wedges liberally – you can never have too many wedges.

Associations Director Report

Hello my fellow rockhounds, pebblepups and rock-aholics! I hope you are doing well and that this new year is filled with many rock related adventures and endeavors.

I did attend a Washington State Mineral Council meeting on 1/16 via Zoom. There were 5 of us on Zoom with another 6 at the Maplewood Clubhouse. This was a fairly good turnout considering the impending weather. The hope is to have attendees to have board elections at the next meeting on 3/19. If you want to be on the board or to nominate someone please let the board or myself know before the next meeting.

Ed Lehman has a preliminary list of field trips put together but nothing is confirmed yet. I will post it when it is set.

That is it for now. If you would like to attend a Washington State Mineral Council meeting here are the dates:

3/19, 4/16, 5/21, 6/18, 9/17, 10/15

All meetings start at 7:30PM and are held at the Maplewood Rock and Gem Club clubhouse, 8802 196th St. SW, Edmonds, WA 98926. If you have any questions or need a ride let me know.

Respectfully submitted,
Mark Baumann

Associations Director

Azurmalachite

A beautiful blue and green gem material composed of azurite and malachite.

Author: [Hobart M. King](#), PhD, GIA Graduate Gemologist



Azurmalachite cabochons: Cabochons of azurmalachite showing nice patterns of azurite (blue) and malachite (green). They were cut from material produced at the Morenci Mine in Arizona. These cabs were cut from thin vein material and have a natural wall-rock backing. Both cabs are about 25 millimeters tall.

Azurmalachite is a blue and green gem material composed of two copper carbonate minerals, [azurite](#) ($\text{Cu}_3(\text{CO}_3)_2(\text{OH})_2$) and [malachite](#) ($\text{Cu}_2(\text{CO}_3)(\text{OH})_2$). The name "azurmalachite" was derived by combining the

names of the [minerals](#). The material is also known as "bluebird."

Azurmalachite can be a very attractive material that displays bands, concentric patterns, and irregular mottling in vivid greens and blues. It has one of the most striking color patterns in the entire [gemstone](#) marketplace.



Mottled azurmalachite: A cab showing a mottled mixture of azurite and malachite from an unknown locality. Azurite is often replaced by malachite as geochemical conditions change underground. This often results in a mottled appearance rather than distinct banding or other patterns.

Geologic Occurrence of Azurmalachite

Azurmalachite is a **rock** that forms at shallow depths in the oxidizing zone above **copper** deposits. Slightly acidic, copper-bearing waters percolate downwards through fractures and pore spaces in the rock. During their descent they encounter a geochemical environment that allows the precipitation of carbonate minerals, and that is where the azurmalachite forms.

The host rock is often a carbonate rock, such as **limestone** or **marble**. These neutralize the slightly acidic waters and facilitate precipitation of the dissolved copper in the form of carbonate minerals in fractures, cavities, and pore spaces.

Azurmalachite is a relatively rare material. It forms where the local geochemical environment alternates between the conditions required to form azurite and those required to form malachite. A slice through a piece of azurmalachite reveals this geochemical history in its alternating bands of beautiful green and beautiful blue.

Much of the azurmalachite that is sold today is mined in the southwestern United States, France, or Namibia. There are no mines developed just to produce azurmalachite; instead, azurmalachite is a byproduct of other mining activities. Small amounts are sometimes found in shallow excavations above where copper minerals will be mined.

At some large copper mines, pockets of **gem materials**, such as malachite, azurite, or **turquoise**, are encountered while removing the rocks above the main ore body. At some of these mines, the operators will recover the gem materials; move a few truckloads of rock from that area to a dump where it can be prospected; or allow outside contractors to enter the mine, quickly remove potential material, and get out of the way as quickly as possible. Other mines focus on the main objective of mining copper, and thus an interruption to produce a pocket of gem materials is more of an expense than an opportunity. Great mineral specimens and **gems** are often lost for expedience and profitability.

Physical Properties of Azurmalachite

Chemical Classification	Sedimentary (a low-temperature chemical precipitate).
Color	Green and blue
Streak	Green or blue
Luster	Rare crystals are vitreous to adamantine, fibrous specimens are silky, and massive specimens are dull to earthy.
Diaphaneity	Opaque
Cleavage	Perfect in one direction, imperfect in a second direction.
Mohs Hardness	3.5 to 4

Specific Gravity

3.6 to 4.0

Diagnostic Properties Blue and green color, high specific gravity, reacts to cold hydrochloric acid with effervescence.

Chemical

A mixture of azurite ($\text{Cu}_3(\text{CO}_3)_2(\text{OH})_2$) and malachite ($\text{Cu}_2(\text{CO}_3)(\text{OH})_2$).

Composition

Uses

Cut into cabochons, beads, and ornamental objects.

Azurmalachite is relatively easy to identify by observing a few properties: 1) azurite and malachite have spectacular green and blue colors that are seen in very few other minerals; 2) both minerals contain significant amounts of copper, which gives them a specific gravity (3.6 to 4.0) that is much higher than the average rock; 3) both minerals are very soft (3.5 to 4 on the [Mohs hardness scale](#)); 4) both minerals have perfect cleavage in one direction; and, 5) both minerals react with obvious effervescence in contact with dilute [hydrochloric acid](#).



Banded azurmalachite: A pair of banded azurmalachite cabs that show the typical banding of green malachite and the voids between them filled with dark blue azurite.

Azurmalachite is very beautiful and can thus be used to make spectacular jewelry and small ornamental items. It is a soft material that scratches easily. It also has perfect cleavage in one direction and lacks toughness. For these reasons, azurmalachite is best used in jewelry items, such as earrings, pins, and pendants, and other items that will receive very little impact or abrasion.

It is a good idea to mount azurmalachite in protective settings that surround the stone. Jewelry and unmounted stones should be stored in separate bags or separate compartments to avoid damage from abrasion.

Unfortunately, azurmalachite does not make a good ring stone. It will quickly show abrasions if it is worn daily and can break from even a slight impact. For these same reasons, it is a poor choice for use in bracelets or for making beads.

Some azurmalachite is treated to improve its durability. The material is porous and can be impregnated with resin. The resin hardens the surface of the stone and makes it less vulnerable to being scratched or being broken.

Nice chunky pieces of azurmalachite rough can be slabbed for cabochon cutting. Slices cut through a piece of rough removed from the walls of a fracture can show the sequence of mineral bands that accumulated on the walls of the fracture. Cutting through at a different orientation might yield orbs and lacy patterns.

In many deposits, a lot of azurmalachite is in very thin fractures that are less than a centimeter wide. This material is carefully cut to yield small slabs that display solid azurmalachite on one side and a base of wall rock on the other. These slabs can be cut into cabochons that have a beautiful azurmalachite side for display and a wall rock side for stability. The cabochons in the image at the top of the page were cut this way and have natural wall-rock backings.

Thin slabs of solid azurmalachite are sometimes used to produce "doublets." These are cabochons made by gluing a thin slab of azurmalachite to a thin piece of durable material, such as chalcedony or jade, and then cutting a cab with an azurmalachite top. This produces a beautiful cabochon that is more durable with a lower cost.

Cold Forging by Timothy Jackson

So now you have a perfectly shaped and polished stone. What are you going to do with it to show it off to your friends, and the public? Well, you can just carry it around with you in your pocket, taking it out every time you want to show it off. You can wire wrap or wire weave it to display it some place on your person. If you know how, you can silver smith it to show it off, you can leather wrap it, or you can COLD GORGE it.

So what is cold forging?

Cold forging is very similar to silver smithing with the exception of not using a HOT flame. Cold forging doesn't use heat to form or attach to the metal. Using metal shears or jewelers saw; smooth jawed pliers, files, fine sandpaper, and polishing cloths to capture your precious stone for displaying your creation to the world.

What tools do you need to cold forge?

Card board (cereal box, without the cereal) a marking tool (pen, pencil, scribing tool) metal shears (Rio Grande on line store; German straight tip #111237 \$13.45, and German curved tip #111236 \$13.45. you will need both of these). Diamond wire saw (Kingsley North catalog, page 60, stock number 3-0860 frame with 1mm wire blade \$48.70) Pliers; Rio Grande on line store (flat nose smooth jawed, chain nose smooth jawed, bent chain nose smooth jawed, bail making pliers 3.5mm/5.5 mm, and 7.5mm/9mm). A good set of needle files (Kingsley North catalog page 60 stock no. 3-1168 set of 5 needle files. Rio Grande on line store also has a wide variety of files. The ones you need are flat, half round, round, and wedge) the higher the file number, the finer the teeth count. You need both medium and fine. Bezel setting tool (I prefer the agget style) Sand paper; 1000 and 2000 grits. Polishing cloth (Rio Grande on line store; sunshine polishing cloth) and a whole lot of elbow grease.

All the metals I use are 26 (0.016" thick) gauge. In Rio Grande on line store, Sterling Silver is \$24.49 an ounce. A 26 gauge 6" X 12" sheet is \$229.00. A sheet of Copper, or Brass the same size, is under \$20.00 at the McClendon's hardware store on the Corner of 112th St and Canyon. So PRACTICE WITH COPPER OR BRASS!

Place your stone on the cardboard, draw an outline around your stone, allow 1" distance at the top of your stone for the bail, and allow 1/4" width for the bail, an additional 1/4" on the either side at the top of the bail, and 1/4" outside of the outline of your stone. Cut out your new template, using your scribe or pen, draw the outline of your new template on to the metal you are using, then using the shears, or a jewelers saw, cut out the metal blank.

From here you need to make a decision of how you want to attach your stone to the metal blank. To make holding tabs, decide where they should be (bottom, sides, how many) mark them on the metal, and cut (or saw) away the excess metal. Now, using the flat nose pliers, bend the tabs over the stone, using a tab bender to insure a tight fit. Use the bail making pliers to bend the bail over the top of the stone, and bend over the tabs on either side of the top of the bail to make a tight fit. You may need some glue (Kingsley North catalog, RED HOT STUFF super glue page 68) to assist the tabs and bail to hold the stone in place. Using your file set, smooth over the sharp edges, and shape the metal to exactly conform to your stone. When you are satisfied with your file work, use the 1000 grit sand paper, and polish away all your tool marks, and to get a polished surface. Use the 2000 grit to refine your finish. Use the polishing cloth the finish your work to your satisfaction.

You have just finished your first COLD FORGING PROJECT!

MINERAL OF THE MONTH



When looking up different types of minerals, I found this particular one quite intriguing. This is Andalusite, which to be honest, I thought was a type of equine breed, not a mineral (Andalusian is a type of horse). The stone got its name from a city in Spaine (also were the horses come from, haha) but the mineral has never been found there. How did it get it's name you might be thinking? Well the specimens were being studied in Andalusia but they came from Guadalaraja Mexico where they were picked up by Spanish explores and brought back to Spaine.



Strange name associations aside, this facinating mineral is an aluminum nesosilicate (nesosilicate forms as an isolated silicon tetrahedra, like garnets & zircon) and has been knows since the sixteenth century. For the most part this stone is found all over the world and is mostly an opaque with inclusion but you can find very clear, cuttable, varieties in Brazil and Sri-Lanka. The somes can come in a pink, violet, yellow, green, white, gray, red, and multicolored variance making it a ideal gem if you like variety.

There is even an amazing type that includes dark inclusions of carbon or clay that form a pattern called a cruciform that makes a cross-like shape when you cut it crosswise. Andalusite is a fairly hard stone with a Mohs hardness of 6.5 - 7.5 putting it between sunstone and quartz so it is an ideal stone for cutting or carving.



You Know You are Having an Interesting Rockhounding Experience When...

1. You're all packed up to head home, exhausted, no extra space, and a ton of stuff to carry and you spot one more specimen.
2. You get a good aerobic workout when you keep more muck on your shovel than sling aside.
3. You clobber your head with a sharp tool and decide the blood flow is not serious enough to warrant a trip to urgent care.

SUNSHINE REPORT

With everything going on, we have started meeting again, but our attendance at the meetings is still low as members are staying safe. As a group we need to bring to eachother's attention members who need healing thoughts or prayer sent their way.

If you know of anyone else who needs to be recognized in next months Sunshine Report , please email or call

Tony Johnson at ynotopals@outlook.com (253) 863-9238

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(253) 531-7294
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Yankees_Diesel@comcast.net

FROM THE BENCH

How do you find the best type of blade for your buck?

This is a really interesting question that anyone who owns a trim or slab saw has to have asked themselves at least once. I can't answer with a specific brand because there are too many options and also because many saw brands require specific blades to fit their units. What I can answer is that you should always purchase the highest quality blade you can afford.

Example: 10" Lortone trim saw - you can buy a MK-301, MK-303, or MK-305. Each blade is slightly more expensive as the number increases. The MK-301 is a standard diamond blade, the MK-303 is their professional grade blade which means it has a thicker layer of diamonds, and the MK-305 is their notched blade. All things being equal (using the same oil for each blade, cutting the same material, and using the same saw) the MK-303 will last 2-3 times longer than the MK-301, and the MK-305 will last 2-3 times longer than that. What this means is that even though the MK-305 can be found for around \$100, and the MK-301 is around \$35, you would have to buy between 4-6 MK-301 replacement blades during the lifetime of the single MK-305 (\$140-\$210 versus \$100). In summary, buying the more expensive but better blade now may save you money in the long run.

Local Area Shows for 2022/2023

DATE & TIME	CLUB	SHOW	LOCATION
November 2022 12th 9am - 5pm 13th 10am - 4pm	Skagit Rock & Gem Club	Treasures of the Earth	Sedro Woolley Community Center 703 Pacific St Sedro Woolley WA 98284
November 2022 19th 10am - 5pm 20th 10am - 5pm	Kitsap Mineral and Gem Society	Fall Festival of Gems	The President's Hall 1250 NW Fairgrounds Road Bremerton, WA
February 2023 11th 9am—5pm 12th 9am—5pm	Whidbey Island Gem Club	57th Annual Sweetheart of Gems Show	The Center in Oak Harbor 51 Jerome St. Oak Harbor WA
February 2023 25th 10am—6pm 26th 10am—5pm	Idaho Gem Club	Annual Gem, Mineral, and Fossil Show	Expo Idaho 5610 Glenwood Boise, ID
March 2023 4th 10am - 6pm 5th 10am - 5pm	East KingCo	Annual Rock and Gem Show	Pickering Barn 1730 10th Ave NW Issaquah, WA
March 2023 4th 10am - 6pm 5th 10am - 5pm	Owyhee Gem & Mineral Society	69th Annual Rock and Gem Show \$5, kids under 11 free	O'Conner Field House 2207 Blaine Caldwell, ID
March 2023 3rd 10am—5pm 4th 10am—5pm 5th 10am—5pm	Tualatin Valley Gem Club	64th Annual Rock and Mineral Show \$1 Adults, 12 & under free	Forest Grove National Guard Amory 2950 Taylor Way Forest Grove OR
March 2023 18th 9am - 6pm 19th 10am - 5pm	Hellgate Mineral Society	28th Annual Gem, Fossil, & Mineral show \$3, under 14 free w/adult	Hilton Garden Inn 3700 North Reserve St. Missoula MT
April 2023 29th 10am - 5pm 30th 10am - 4pm	Lakeside Gem & Mineral Club	26th Annual Rock & Mineral Show \$5 adults, 12 & under free	Benton Franklin County Fairgrounds Building 2, 1500 S. Oak Kennewick, WA
April 2023 29th 10am - 5pm 30th 10am - 5pm	West Seattle Rock Club	55th Annual Rock Show	Alki Masonic Temple 4736 40th Ave. SW. Seattle, WA
August 2023 3rd 10am—5pm 4th 10am—5pm 5th 10am—5pm 6th 10am—4pm	Billings Gem and Mineral Club	2023 AM Fed and NW Fed Gem and Mineral show Adults \$5/day or \$15 4 day pass Under 12 free with adult	Billings Hotel & Convention Center 1223 Mullaney Lane Billings MT

ing female crystallographer Dame Kathleen Lonsdale, who was the first woman elected as a Fellow of the Royal Society.

Sources: Rare Lonsdaleite Diamond Can Be Formed Using Specialized Chamber Instead of Waiting For Dwarf Planet, Asteroid Collision | Science Times , Wikipedia, MSN articles

From KMGS Hard Rock News, 10/22

2024 SHOW & TELL THEMES and PROGRAM NIGHT EVENTS

MEETING	DATE	SHOW & TELL THEME	PROGRAM NIGHT EVENT
January - 1st Meeting	January 12, 2024	Crystals or any field trip finds	
January - 2nd Meeting	January 26, 2024	Last Years Purchase or any field trip finds	Field Trips
February - 1st Meeting	February 9, 2024	Red & Pink or any field trip finds	
February - 2nd Meeting	February 23, 2024	Hearts Made of Stone or any field trip finds	Carl Carlson
March - 1st Meeting	March 8, 2024	Green or any field trip finds	
March - 2nd Meeting	March 22, 2024	Geodes any field trip finds	Jerry's Rock Shop
April - 1st Meeting	April 12, 2024	Obsidian or any field trip finds	
April - 2nd Meeting	April 26, 2024	No Show & Tell	Auction/Potluck
May - 1st Meeting	May 10, 2024	Thundereggs or any field trip finds	
May - 2nd Meeting	May 24, 2024	No Show & Tell	Field Trips
June - 1st Meeting	June 14, 2024	Any Agates or any field trip finds	
June - 2nd Meeting	June 28, 2024	No Show & Tell	Tailgate Party @ Grange Parking Lot
July - 1st Meeting	July 12, 2024	Metals or any field trip finds	
July - 2nd Meeting	July 26, 2024	No Show & Tell	Jerry's Rock Shop
August - 1st Meeting	August 9, 2024	Jaspers or any field trip finds	
August - 2nd Meeting	August 24, 2024	No Show & Tell	Picnic & Tailgate Party at club house on Saturday
September - 1st Meeting	September 13, 2024	Gemstones or any field trip finds	
September - 2nd Meeting	September 27, 2024	No Show & Tell	Mini Demonstration Day
October - 1st Meeting	October 11, 2024	Opals or any field trip finds	
October - 2nd Meeting	October 25, 2024	No Show & Tell	Auction/Potluck
November - 1st Meeting	November 8, 2024	Serpentine/Jade or any field trip finds	
November - 2nd Meeting	November 22, 2024	No Show & Tell	BINGO Night
December - 1st Meeting	December 14, 2024	No Show & Tell	Holiday Banquet/Officer Installation on Saturday
December - 2nd Meeting	No Meeting	No Show & Tell	

2024 Elected Officers

Title	Name	Phone	Email
President:	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Vice President:	Nathan White	(206)349-7054	nate.white77@gmail.com
Secretary:	Patti Dailey-Shives	(253)678-0029	pattidailey28@gmail.com
Treasurer:	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Association Director:	Mark Baumann	(253-310-5891	rocksnreptiles4me@gmail.com
1 Year Director:	Richard Yang	(208)596-8340	ryang0711@gmail.com
2 Year Director:	Tasha Parker	(206) 291-8069	surfange1830@gmail.com
1 Year Trustee:	Dennis Batchelor	(360)870-8741	hobbyhorse51@gmail.com
2 Year Trustee:	Glenn Rodrick	(253)531-4062	gtrodi@comcast.net

2024 Committee Chairs

Title	Name	Phone	Email
Clubhouse Coordinator	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Club Show Coordinator	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
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WASHINGTON STATE MINERAL COUNCIL

The Puyallup Valley Gem & Mineral Club is a member of the American Lands Access Association and the Washington State Mineral Council. You can find more information about the ALAA at: amlands.org or the WA Mineral Council at:

HAPPY BIRTHDAY

February 2024

Vernon Sullivan – 2nd
 Jessie Matz – 5th
 Lloyd Poehler – 5th
 Tyler Nichols – 7th
 Ross McKnight – 10th
 Emily Hochstrasser – 11th
 Vernon D. Sullivan – 13th
 Max O’Keefe – 15th
 Lynette Richardson – 18th
 Ronald Houser – 19th
 Patrick Kane – 20th
 Brett Lawrence – 21st
 Christian Morrissey – 23rd
 Karen Murphy – 23rd
 Greg Arnold – 26th
 Brian Christianson – 27th

INTERNATIONAL GEM TREASURES

D N A L T O C S P A I N O S P C M
 A B I R S A M O R O C C O R I Z Y
 P S A R T H N F L R E E E N J E A
 N A U I C N W Z G O T A D A U C N
 Y E K R U T O A A T M I I D G H M
 U E N I E L E O I N A B A A M R A
 N T A G S R Y R A S I T I N A E R
 I A T E L T O L Z M S A A A I P G
 T D S A C A A M A E B U I C L U E
 E N I U A R N N S X C I R E A B N
 D A N R I F M D T I L C E R R L T
 S L A U B N P A M C Z L G I T I I
 T I H G I A A T N O X A I A S C N
 A A G U M A N H D T B E N Z U G A
 T H F A A E J I G S E N A P A J V
 E T A Y N H A L H F B I B N A R I
 S O U T H A F R I C A I V I L O B

- | | | |
|-------------------|--------------|-------------------|
| 1. AFGHANISTAN | 11. INDIA | 21. SCOTLAND |
| 2. ARGENTINA | 12. IRAN | 22. SOUTH AFRICA |
| 3. AUSTRALIA | 13. JAPAN | 23. SPAIN |
| 4. BOLIVIA | 14. MEXICO | 24. TANZANIA |
| 5. BRAZIL | 15. MOROCCO | 25. THAILAND |
| 6. CANADA | 16. MYANMAR | 26. TURKEY |
| 7. CHINA | 17. NAMIBIA | 27. UNITED STATES |
| 8. COLOMBIA | 18. NIGERIA | 28. URUGUAY |
| 9. CZECH REPUBLIC | 19. PAKISTAN | 29. VIETNAM |
| 10. ENGLAND | 20. RUSSIA | 30. ZAIRE |



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ROCK-A-TEER

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Gem & Mineral Club

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