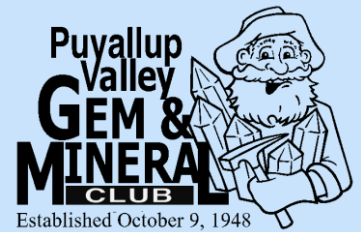


ROCK-A-TEER



Newsletter of the Puyallup Valley Gem & Mineral Club

Jillian Higgins

Issue **67**

Volume **120**

August

2023

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President's Perspective

Tony Johnson

August is the second busiest month for the club. The Siperek's are having their annual sale at the clubhouse Wednesday, August 2nd through Sunday, August 6th. Sales starts 9:00am to 5:00pm

We have the Show in the Trees Friday, August 11th through Sunday, August 13th at the Tacoma Sportsman's Club. We are going to have close to 40 vendors so you should definitely come check it out.

We have our Overnight Field Trip with world famous camp spaghetti and breakfast Saturday, August 19th and Sunday August 20th.

Finally, we will have our club picnic, potluck, and tailgate at the clubhouse Saturday, August 27th. Check your email for more information coming soon about this event.

Our busiest month is September with the Washington State Fair. Please sign up to volunteer at the club booth. You get free admission to the fair and parking. The Signup sheet will be at every meeting, just ask Tony or if you want to know about specific dates and times, contact him at (253) 863-9238.

Field Trip Report

August 19 & 20 Overnight - Greenwater

This fieldtrip is with the Washington State Mineral Council - overnight camp out & pot luck

Meeting place - 9:00AM at the Enumclaw Ranger Station for those not camping out

Hunting for - Jasper, Agate, Petrified wood, common opal

Tools you need - Rock hammer, shovel, pry bar, hammer, chisel and a backpack/bucket for your treasures

Access - this area is fairly easy to access

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

September 16 - Little Naches

Meeting place - 9:00AM on Hwy 410 at Forest Rd 19, mile marker 92

Hunting for - Jasper, Agate, Petrified wood, Thundereggs

Tools you need - **Rock hammer**, shovel, **pry bar**, hammer, **chisel**, treasure scoop, waders, and a backpack/bucket for your treasures

Access - moderate terrain, 1/2-mile hike to thunderegg site

Additional items - lunch/snacks and water, water, water. Dress in layers. Be prepared for ticks/mosquitoes

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.

AUGUST 2023 CLUB HOUSE SCHEDULE

DATE	DAY	TIME	ACTIVITY	LOCATION	INSTRUCTOR
1	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
2	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
3	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
4	Friday		Siperek Annual Sale		
5	Saturday		Siperek Annual Sale		
6	Sunday		Siperek Annual Sale		
7	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
8	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
9	Wednesday		SHOW IN THE TREES		
10	Thursday		SHOW IN THE TREES		
11	Friday		SHOW IN THE TREES		
		6:00PM	Club Board Meeting	Fruitland Grange	Kevin Higgins
		7:30PM	Club Business Meeting	Fruitland Grange	Tony Johnson
12	Saturday		SHOW IN THE TREES		
13	Sunday		SHOW IN THE TREES		
14	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
		7:00PM-8:00PM	Opal Club Business Meeting	Club House	Tony Johnson
15	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
16	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
17	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
18	Friday				
19	Saturday	10:00AM-2:00PM	Greenwater - OVERNIGHT	Field Trip	Nate White
20	Sunday	10:00AM-2:00PM	Greenwater - OVERNIGHT	Field Trip	Nate White
21	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
22	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
23	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
24	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
25	Friday				
26	Saturday	1:00PM - 2:00PM	Club Picnic and Potluck	Club House	Tony Johnson
27	Sunday				
28	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
29	Tuesday	DEADLINE FOR STATE FAIR COMPETITION SUBMISSIONS			
		4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
30	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Weaving	Club House	Jillian Higgins
31	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) 291-8068	Kevin Higgins (253)579-3404	Glen Ripper (253) 508-7545
Jillian Higgins (253)355-3146		Nate White (206) 349-7054

*** **Members Open Access** is the time when members can use the saws and cabbng machines

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

MEET THE MEMBERS

Name: **Crystal Day**

Favorite Quote: "Live life to the fullest and rockin my rocks".

What are your skills/past experience with the rock Club or rock hounding? Collecting rocks for over 50 years going on my 2nd year as a club member.

What is your favorite rock, mineral or gem? Jaspers and Petwood

What is your favorite thing to do with rocks, minerals or gems? Making shapes out of them, making art with them, and also like them in their raw forms.

What are your three favorite books/podcasts?

- Not much of a reader or TV person
- I do enjoy learning from Michigan Rock & Currently Rockhounding from YouTube, excellent for learning about rocks.

What is your favorite memory surrounding rockhounding/rocks in general? Going different places rockhounding with my grandparents

In your opinion, what is the best thing about the Puyallup Valley Gem & Mineral Club? Meeting & Learning from amazing people learn my material.

In your opinion, where/how does the club need to improve? Getting more youth activities.

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

- Outdoorsy person type, camping, fishing, rafting, and exploring new places
- Enjoy gardening
- Have a fear of heights

What is your greatest accomplishment? Besides surviving 3 teenagers, having 2 amazing grandkids learning and enjoying rockhounding.

Clubhouse report

Tony Johnson

Please make sure you are cleaning up your machines after you are done with them. It is your responsibility to return the machine to the condition you found it.

Classes are starting to fill up, especially Monday's and Tuesday's, so if you are planning on attending classes on those days of the week, you will need to make sure you get yourself scheduled so your machine is guaranteed. If you would like to come in to only use the saws, just tell Jillian that when you are making your reservation, and that will help to free up a cabbing machine for another member.

If for any chance you are not able to make it, please cancel with the clubhouse scheduler so they can contact any other members who could potentially make it to the clubhouse in your absence.

Associations Director Report

I don't really have anything to report in regards to the Mineral Council and the American Lands Access Association this month so I thought I would ramble on a bit.

I hang out with many types of people and a multitude of groups. Whether it be the people I hang out with at my favorite brewery, the many people I interact with in the reptile rescue, the people into carnivorous plants like me or people who collect antiques, I can always find someone who is into rocks. Because of this I now make sure I have club business cards and brochures with at all times to hand out to interested parties. If they live too far away to join us, I will point them towards a club in their area. I believe that isn't just the responsibility of the club board to promote our club and hobby but it should be all of us. I've been with this club for quite some time and I'm very proud of our club for all we have accomplished together. I look forward to see what the future has in store for us as we continue to evolve.

Respectfully submitted by
Mark Baumann - Associations Director

Field Trip Recap

Nate White

It was a nice sunny day not too hot when we started. We had 18 people one of which was a very cute dog named Milo a true rock hound. Everyone had a good digging hole for jasper and Druzy pieces. Everyone was able to get in and out safely, most with a full bucket of good material. We had one family that had a flat tire right on the side of the road near the dig site. Eventually they were able to get the tires changed to make it out safely. I saw some of the material that people were finding and if I am honest made me kind of jealous, but was very happy that they were able to find such good quality pieces. Everyone that had showed up for the field trip had a great attitude and very nice. I was so glad to have such a wonderful group for the field trip and thanks to all that showed up.

FROM THE BENCH

Different types of Flux

There are many types of flux and I just found a new one that I love. You might be asking what is flux. Flux is at its simplest used to help solder stick onto metal better and to prevent oxidation by creating a barrier between the piece you are torching and the heat.

There is powder flux and liquid flux. You can sprinkle, spray and brush it on. Depending on the length of time you are heating your metal and the type of metal in question, flux can work to various degrees of success.

I have just found "Smart Flux" by pepetools and it makes it a lot easier and cleaner when it comes to apply flux. It is a firecoat (prevents firestain) and flux combined and is liquid. It comes in a squeeze bottle with a very fine applicator tip that helps prevent dripping and keeps you from getting flux everywhere. It is worth a try if you are looking for a new flux.

My Gemstones

The Pretty, The Odd, The Rare...Kyanite

By Brett Lawrence

Stone size and shape: 1.8 ct., 10x4.8mm octagon cut
Some information: chemical composition – aluminum silicate; MOHS hardness – 4-5, 6-7; specific gravity – 3.67

Kyanite is an interesting mineral with industrial and commercial uses and as a attractive gemstone. It is also known as disthene and cyanite. Its name evolved from ancient Greek that has evolved into our current language as dark blue. Its blue name is also akin to the cyan.

Kyanite's color can range from deep sapphire-like blue, to lighter blue as with aquamarine or blue topaz. More rarely it can be yellow, orange, or pink. The orange color in the image is the result of small amounts of manganese included in the material's structure. This material comes from Tanzania. One quality of kyanite is that it is pleochroic, meaning different colors can appear when the gemstone is viewed from different angles.



Kyanite has a few other qualities that make it difficult for the gemstone lapidarist when faceting. One is anisotropism. A crystal and resultant gemstone will exhibit different hardness values depending on the axis or direction in the crystalline system. For example, a steel nail will scratch it when moved parallel to the long axis but will not do so when moved perpendicular or at right angles to it. Another challenge is its perfect cleavage or its ability to split along structural planes. The above issues, along with its lack of suitable hardness, (its durability) do not lend kyanite to use in everyday jewelry such as ring settings. These factors, however, would not preclude its use as a pendant or in earrings.

But such does not hinder kyanite's use in industry. It finds use as a refractory material that does not change or decompose in the presence of high heat or pressure. This makes it useful in kilns, furnaces, incinerators, and reactors. It is also finds use in electronics, in electrical insulators, and as an abrasive.

Kyanite is found in numerous locations around the world, including Myanmar, Cambodia, Kenya, Nepal, Tibet, Switzerland, Russia, and the United States.

Finally, kyanite is a polymorph with sillimanite and andalusite. All three have the same chemical composition but formed under different geological conditions of heat and pressure. I admire the wonderful blue color of kyanite but also find the fire and glitter of andalusite captivating...but that's another story.

Zoisite and Clinozoisite

Two very similar minerals with the same chemical composition but different crystal structures

Article by: [Hobart M. King](#), PhD, RPG



Blue zoisite - Tanzanite: [Tanzanite](#) is the most widely known zoisite and one of the world's most popular gemstones. This violetish blue tanzanite is an exceptional faceted oval weighing 8.14 carats and measuring 14.4 x 10.5 x 7.6 millimeters in size. On the basis of its color and clarity, it would be rated in the top 1% of the tanzanite produced by TanzaniteOne Mining Ltd., the leading producer of tanzanite. Photo copyright by [Tanzanite Direct](#) and used here with permission.

Zoisite and clinozoisite are [minerals](#) that form during the regional metamorphism and hydrothermal alteration of [igneous](#), [metamorphic](#), and [sedimentary rocks](#). In those environments they are found in massive form and as prismatic

crystals in veins that cut [schists](#) and [marbles](#). They are also found as crystals in [pegmatites](#) that form on the margins of igneous bodies.

The two minerals are dimorphs - they share the same chemical composition but have a different crystal structure. Zoisite is the orthorhombic form of $\text{Ca}_2\text{Al}_3(\text{SiO}_4)(\text{Si}_2\text{O}_7)\text{O}(\text{OH})$ and clinozoisite is the monoclinic form. The minerals have extremely similar physical properties and can be very difficult to tell apart in hand specimens unless the specimens are well-formed crystals. Clinozoisite forms a solid solution series with the mineral [epidote](#) in which iron can substitute for aluminum.

Zoisite: Shown above are 4 specimens of zoisite in unusual colors. Top row: pink and yellow crystals with orthorhombic crystal habit. Bottom row: (left) a parti-colored specimen with shades of green and pink in the same crystal; (right) a blue-green crystal with nice termination. Photos courtesy of [The Rare Gemstone Company](#).



Zoisite and clinozoisite are minerals that are usually found in small quantities. They have not been used in significant amounts by industry. Transparent and colorful specimens of both minerals have been used as [gemstones](#). Zoisite is the mineral of some very diverse gem materials, one being the extremely popular [tanzanite](#) which was discovered in the 1960s and immediately became one of the world's most popular gems.

Tanzanite

[Tanzanite](#) is the most famous zoisite. It is a transparent blue zoisite that is colored by the presence of vanadium. Some blue zoisite is found naturally, but most is produced by heat-treating brown zoisite. The heat changes the oxidation state of vanadium to produce the blue color. Tanzanite is the second most popular blue stone, after [sapphire](#). It is a rare [gem](#) only found in one small area in northern Tanzania.

Thulite is a pink, opaque variety of zoisite that is often cut into cabochons or used to produce small sculptures. It can be an attractive material but is rarely seen in commercial use because the supply is limited and the public is unfamiliar with the gem.



Thulite

Thulite is an opaque pink variety of zoisite that is cut into [cabochons](#) and used to produce small sculptures. It is also a rare material, found in Norway, Namibia, Australia, North Carolina, and a few other locations. It is rarely seen in commercial use.

Anyolite: Also known as "ruby in zoisite," anyolite is a rock composed of zoisite, with red corundum crystals (ruby) and often accented by black crystals of the hornblende, tschermakite. It is a rock that attracts attention and is cut into attractive cabochons and used to produce small sculptures. Image copyright iStockphoto / MarcelIC.

Anyolite

Anyolite is a very colorful rock composed mainly of zoisite. It is also known as "ruby in zoisite" because it is composed of green zoisite with bright red [ruby](#) crystals, sometimes accompanied by black crystals of the [hornblende](#) tschermakite. It is used to produce cabochons, tumbled stones, small sculptures and ornamental objects. Nice pieces of rough material are also sold as specimens.

A material with a similar appearance, "[ruby in fuchsite](#)" is often misidentified as ruby in zoisite.

Careful testing can easily differentiate these

materials because the green fuchsite has a hardness of only 2 to 3, while the green zoisite has a hardness of at



least 6. In addition, most specimens of ruby in fuchsite exhibit blue kyanite alteration rims around the [ruby](#) crystals, and this does not occur around ruby crystals in zoisite.



Clinozoisite: Two views of the same crystal of clinozoisite from the Haramosh Mountains of Pakistan. The specimen is about 3.2 centimeters tall. Specimen and photo by Arkenstone / www.iRocks.com.

Clinozoisite

Gem-quality crystals of clinozoisite are sometimes cut into faceted stones. It is considered to be a "collectors" stone because it is rarely seen in jewelry.

The best way to learn about minerals is to study with a collection of small specimens that you can handle, examine, and observe their properties. Inexpensive mineral collections are available in the [Geology.com Store](#). Image copyright iStockphoto / Anna Usova.

Physical Properties of Zoisite and Clinozoisite

	Zoisite	Clinozoisite
Chemical Classification	Silicate	Silicate
Color	Colorless, gray, yellow, brown, pink, green, blue, and violet	Usually gray, yellow, green, or pink
<u>Streak</u>	White	White
<u>Luster</u>	Vitreous to granular, sugary	Vitreous to granular, sugary
Diaphaneity	Translucent to transparent	Translucent to transparent
Cleavage	Perfect in one direction	Perfect in one direction
<u>Mohs Hardness</u>	6.5	6.5
Specific Gravity	3.2 to 3.4	3.2 to 3.4
Diagnostic Properties	Hardness, specific gravity, striated crystals	Hardness, specific gravity, striated crystals
Chemical Composition	$\text{Ca}_2\text{Al}_3(\text{SiO}_4)(\text{Si}_2\text{O}_7)\text{O}(\text{OH})$	$\text{Ca}_2\text{Al}_3(\text{SiO}_4)(\text{Si}_2\text{O}_7)\text{O}(\text{OH})$
Crystal System	Orthorhombic	Monoclinic
Uses	Gemstones (tanzanite, anyolite, and thulite) and small sculptures	Gemstones

State Fair Competition Rules

HOBBY HALL HANDCRAFTS ENTRIES The Washington State Fair Departmental Exhibitors Rules and Regulations (link on page 3) governing all departments of The Fair are to be observed with a few additions.

1. Entry registration must be made online for all divisions by entry deadline. See page 4 for Online Entry Registration step-by-step instructions and page 2 for calendar of dates.
2. All entries should be brought into the Hobby Hall by the exhibitor. If it is necessary for someone else to bring the entry in, the entry must be pre-registered online prior to the entry deadline or properly labeled with Division and Class numbers by the exhibitor.
3. No entry fees will be charged.
4. All articles must be the handwork of an individual exhibitor. They must be finished within the last two years. No article can be exhibited a second year. SOILED OR OBVIOUSLY USED ITEMS WILL NOT BE ACCEPTED.
5. ALL ITEMS WILL BE PLACED IN THE MOST SUITABLE CLASS. Each entrant shall be limited to ONE ENTRY PER CLASS, as to enter more would, in effect, be competing against oneself. Entries may be reclassified by staff or judges.
6. The "OTHER" class will only be used if the item does not fit within any other class in a division.
7. Items that belong in one Division (ie, wood working) will not be accepted in another Division (ie, crafts).
8. All awards need not necessarily be awarded in each class at the discretion of the judge.
9. The Hobby Hall is mainly for amateur craftspersons to compete and exhibit their work. The Fair considers the following as professionals: Anyone who makes more than \$4,000 per year from the sale of the judged craft item. Anyone who has a certified teaching certificate for that craft. Anyone who is paid to demonstrate that craft where supplies or finished works are sold. Anyone who has won the Grand Champion for 2 consecutive years in that division must enter as a professional the following year. A professional craftspersons may not enter a craft item from their profession into any amateur division (ie. a professional of hand painted china may not enter a hand painted ornament in the 'Holiday Decorations' division).
10. Divisions for teachers and professionals are offered for Leather Craft, Decorative Arts, Soft Toys and Animals, Calligraphy, Jewelry, Paper Crafts and Hand Painted China.
11. If you have won the Grand Champion for two consecutive years in a division, you will NOT BE ALLOWED to enter that division for one year.
12. Junior divisions are offered in Leather Craft, Jewelry, Paper Crafts, Models, Lego Building and Ceramics and Pottery. Juniors choosing to enter other divisions will be competing with adults.
13. All items placed on display must remain for the full length of The Fair.
14. The Washington State Fair assumes no responsibility for loss or damage. Every reasonable precaution will be used to protect items on display.
15. No "For Sale" cards will be allowed on exhibits or in the building.

COMMUNITY SUPPORTERS

	<p style="text-align: center;">South Hill RV Sales</p> <p style="text-align: center;">Offering the highest rated starter, midline, and high end towables and RV's at the lowest prices which has made us a top volume dealer in Washington state.</p> <p style="text-align: center;">12414 Meridian East, Puyallup 98373 253-435-7751 or 866-435-7751 www.southhillrv.com</p>
	<p style="text-align: center;">Rice Museum of Rocks & Minerals</p> <p style="text-align: center;">To engage, inspire, and educate generations on the splendor and complexity of our Earth.</p> <p style="text-align: center;">26385 NW Groveland Dr., Hillsboro, OR 97124 503-647-2418 Info@ricenorthwestmuseum.org www.ricenorthwestmuseum.org</p>
<p style="text-align: center;">H & I Lapidary</p>	<p style="text-align: center;">Amber, Jewelry, Beads, Findings, Gemstones, Slabs, Rough Material, Fossils, and Aussie items.</p> <p style="text-align: center;">Mike and LaVon Siperek (253) 531-7294 4203 E 99th Street, Tacoma, WA 98446 Yankees_Diesel@comcast.net</p>

MINERAL OF THE MONTH



This is one of my favorite minerals! I am sure you have noticed I am particular to the color green since a lot of my choices for mineral of the month are green. These are Demantoid, a green gemstone that is a iron and calcium rich form of garnet. These are also known as Andradite.

The first discovery of Demantoid garnets was in the Ural Mountains of Russia. Since 1868 it has been mined almost continuously but the supply is very limited and because of this they are in high demand. It has also been found more recently in Namibia, Aghanistan, and Madagascar.

As you can see from the wide range of colors in the picture on the right, Demantoid garnets are always a shade of green. The more ferric iron in the makeup of the stone casts it as a more

yellowish color, and more chromium skews the shade to more of an emerald color. In fact, some Demantoid garnets have been mistaken for emeralds but they lack the impurities of true emerald which are discernable under magnification.

Demantoid's have a high refractive index of between 1.8 to 1.89 compared to the standard garnet RI of 1.76. They also have an extremely high luster, falling in the category of adamantine, which is the same as diamonds. In general, these stones are small, the majority of cut stones being under a carat, but rare 2 carat and even the extremely rare 3 carat have been found. Fingers crossed I come across one of those!!!



Local Area Shows for 2023

DATE & TIME	CLUB	SHOW	LOCATION
July 2023 14th 12am—8pm 15th 9am—5pm 16th 10am—4pm	1120 Rock Club	Annual show	Rutland Centennial Hall 215 Shepard Road Kelowna, BC
July 2022 21st 9am—6pm 22nd 9am—6pm 23rd 9am—5pm	Washington Agate and Mineral Society	2023 Rock & Gem Rendezvous	Tenino City Park On Park Avenue (next to the Quarry House and swimming pool) Tenino 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
August 2023 4th 10pm—5pm 5th 10am—5pm 6th 10am—4pm	Far West Lapidary & Gem Society	57h Annual Gem and Mineral Show \$1 adults, 12 & under free w/Adult	The Mill Casino The Salmon Room 3201 Tremont St, HWY 101 North Bend, OR
August 2023 12th 10am - 5pm 13th 10am - 5pm	Maplewood Rock and Gem Club	Annual Summer Rock and Mineral Sale	Maplewood Clubhouse 8802 196th St SW Edmonds, WA
August 2023 18th 9am - 5pm 19th 9am - 5pm 20th 10am - 4pm	Willamette Agate & Mineral Society	End of Summer Rock and Gem show Free admission	Polk County Fairgrounds 520 S. Pacific Hwy Rickreall, OR
August 2023 19th 9am—5pm	Shelton Rock and Mineral Society	13th Annual Tailgate Rock Sale and Swap Meet Tailgate spots \$40	MCRA 2100 E Johns Prairie Rd Shelton, WA
September 2023 8th 11am – 5pm 9th 9am – 5pm 10th 9am – 4pm	Southern Washington Min- eralogical Society	57th Annual show	Cowlitz County Fairgrounds Events Center 1900 7th Ave Longview, WA
September 2023 9th 10am—5pm 10th 10am—5pm	Marcus Whitman Gem and Mineral Society	Annual show	Walla Walla County Fairgrounds Community Center Building 831 Orchard St. Walla Walla WA
September 2023 9th 9am—5pm 10th 10am—4pm	Clallam County Gem And Mineral Association	Annual show	Vern Burton Community Center 308 East 4 th Street Port Angeles WA
September 2023 16th 10am - 5pm 17th 10am - 4pm	Cascade Mineralogical So- ciety	75th Anniversary show	Green River College 12401 SE 320th St Auburn, WA
September 2023 16th 10am - 5pm 17th 10am - 4pm	Fraser Valley Rock & Gem Club	Annual show	Aldergrove Kinsmen Community Centre 26770 29 Ave Aldergrove, BC
October 2023 6th 10am-6pm 7th 10am - 6pm 8th 10am—5pm	Portland Regional Rock and Gem Show	42nd Annual \$7, under 12 free with adult	New Location Wingspan Event Center 801 NE 34th Ave Hillsboro, OR
October 2023 7th 9am - 5pm	Idaho Falls Gem & Mineral Society	Annual Members Rock, Gem, and Jewelry sale Adults \$3, 12 and under free	Bonneville Co. Fairgrounds 1542 East 73rd South Idaho Fall, ID
October 2023 7th 10am - 5pm 8th 10am—5pm	Marysville Rock and Gem club	47th Rocktoberfest	Evergreen State Fairgrounds Display Bldg #500 14405 179th Ave SE Monroe, WA

2023 SHOW & TELL THEMES and PROGRAM NIGHT EVENTS

MEETING	DATE	SHOW & TELL THEME	PROGRAM NIGHT EVENT
January - 1st Meeting	January 13, 2023	Rocks & Their Uses or any field trip finds	
January - 2nd Meeting	January 27, 2023	Fortification or any field trip finds	TBD
February - 1st Meeting	February 10, 2023	Copper Related or any field trip finds	
February - 2nd Meeting	February 24, 2023	Hearts Made of Stone or any field trip finds	Carl Carlson
March - 1st Meeting	March 10, 2023	Quartz/Phantom Crystals or any field trip finds	
March - 2nd Meeting	March 24, 2023	Thundereggs, Geodes & Nodules any field trip finds	Jerry's Rock Shop
April - 1st Meeting	April 14, 2023	Wired-Up (Anything with wire) or any field trip finds	
April - 2nd Meeting	April 28, 2023	No Show & Tell	Auction/Potluck
May - 1st Meeting	May 12, 2023	Rocks Only a Mother Could Love or any field trip finds	
May - 2nd Meeting	May 26, 2023	No Show & Tell	Mineral Council
June - 1st Meeting	June 9, 2023	Lace Agates or any field trip finds	
June - 2nd Meeting	June 23, 2023	No Show & Tell	Tailgate Party @ Grange Parking Lot
July - 1st Meeting	July 14, 2023	Red, White, & Blue or any field trip finds	
July - 2nd Meeting	July 28, 2023	No Show & Tell	Jerry's Rock Shop
August - 1st Meeting	August 11, 2023	Carnelians or any field trip finds	
August - 2nd Meeting	August 25, 2023	No Show & Tell	Picnic & Tailgate Party at club house on Saturday
September - 1st Meeting	September 8, 2023	Your Choice or any field trip finds	
September - 2nd Meeting	September 22, 2023	No Show & Tell	Mini Demonstration Day
October - 1st Meeting	October 13, 2023	Jasper or any field trip finds	
October - 2nd Meeting	October 27, 2023	No Show & Tell	Auction/Potluck
November - 1st Meeting	November 10, 2023	Opals or any field trip finds	
November - 2nd Meeting	November 24, 2023	No Show & Tell	BINGO Night
December - 1st Meeting	December 9, 2023	No Show & Tell	Holiday Banquet/Officer Installation on Saturday
December - 2nd Meeting	No Meeting	No Show & Tell	

2023 Elected Officers

Title	Name	Phone	Email
President:	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Vice President:	Kevin Higgins	(253)579-3404	kevlar016@hotmail.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:	Glen Ripper	(253)508-7545	glen311944@yahoo.com
2 Year Director:	Richard Yang	(208)596-8340	ryang0711@gmail.com
1 Year Trustee:	Glenn Rodrick	(253)531-4062	gtrodi@comcast.net
2 Year Trustee:	Dennis Batchelor	(360)870-8741	hobbyhorse51@gmail.com

2023 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
Field Trips Coordinator	Nathan White	(206)349-7054	nate.white77@gmail.com
Web Master	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Editor/Communications	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Membership	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Sunshine	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Newsletter	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Mineral Council	Mark Baumann	(253-310-5891	rocksnreptiles4me@gmail.com



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

August 2023

Adrianna Rawson – 1st
 Robert Tubig – 3rd
 Paul Giese – 4th
 Jeffrey Blankenship – 8th
 Erika Joslin – 8th
 Rowan Higgins – 10th
 Brielle Schlimme – 10th
 Randy Summers – 10th
 Anthony Comito – 11th
 Teresa Hurley – 14th
 Joan Lockyer – 16th
 Mike Clark – 18th
 Sean Devlin – 20th
 Shirley Harmon – 20th
 Kelsey Pena – 20th
 Teresa Rodrick – 20th
 Chris Rodrick – 21st
 Kim Chisholm – 22nd
 Carrino Guajardo – 23rd
 Joshua Castillo – 24th
 Michael Stevenson – 24th
 John Bellows – 26th
 Dana James – 26th
 Bobbie Supplee – 27th
 Julie Myers – 28th
 Doug Andreassen – 30th
 Tasha Parker – 30th
 Tatiana Kostenko – 31st
 Glenda Moore – 31st
 Kegan McVey – 31st

ELEMENTS OF MINERALS IV

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

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|----------------|-----------------|-------------------|
| 1. ANTIMONY | 10. HOLMIUM | 19. PALLADIUM |
| 2. BARIUM | 11. HYDROGEN | 20. POTASSIUM |
| 3. CALCIUM | 12. IRON | 21. PROTRACTINIUM |
| 4. CALIFORNIUM | 13. LEAD | 22. RADIUM |
| 5. CHLORINE | 14. LUTETIUM | 23. SILICON |
| 6. COPERNICIUM | 15. MENDELEVIUM | 24. SULFUR |
| 7. COPPER | 16. NEON | 25. TIN |
| 8. EINSTEINIUM | 17. NEPTUNIUM | 26. TURBIUM |
| 9. HASSIUM | 18. NOBELIUM | 27. VANADIUM |



ROCK-A-TEER

Newsletter of Puyallup Valley

Gem & Mineral Club

P.O. Box 134

Puyallup, WA 98371