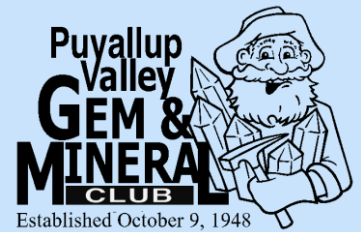


ROCK-A-TEER



Newsletter of the Puyallup Valley Gem & Mineral Club

Jillian Higgins

Issue 63

Volume 116

April

2023

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President's Perspective

Tony Johnson

Thank you to everyone who helped out at the Gem Faire. It was very successful and we were able to reach a lot of people and give out a lot of rocks to give to kids. The set up and takedown went good and we had volunteers in the booth the entire time.

Welcome to all the new members who signed up at the Gem Faire!

Even though it seems like a long time in the future, the State Fair will be here before we know it. We will need to have a lot of tumbled material to give free rocks to kids, so if you can, please get your tumblers going. We like to keep the rocks to $\frac{3}{4}$ " or bigger so they are not a choking hazard for the littler kids. If you have rocks that are partially tumbled, and you don't want to finish them, bring them to the next meeting and we will get them finished. I guess what I am saying is tumble, tumble, tumble.

Field Trip Report

April 16 - Saddle Mountain

Meeting place - 10:00AM at the Shell Station at 723 Government Way, Mattawa, WA

Hunting for - Petrified Wood

Tools you need - Shovel and Rockhammer and a backpack/bucket for your treasures

Access - this area is fairly easy to access, walking down 300 feet on a slight incline (more important for when you come back up)

Additional items - lunch/snacks and water, water, water. Dress in layers. After done, if there is interest, we can go to the diomaceous earth and common opal sight

May 21st - Skagit River

Meeting place - 9:00 at Covington Fred Meyer

Hunting for - Jade, Serpentine, & Jasper

Tools you need - Rock hammer, shovel, pry bar, hammer, chisel, hip waders, rubber boots for in the river and a backpack/bucket for your treasures

Access - Easy access, limited parking

Additional items - lunch/snacks and water, water, water. Dress in layers. **A Discover Pass.**

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.

APRIL 2023 CLUB HOUSE SCHEDULE

DATE	DAY	TIME	ACTIVITY	LOCATION	INSTRUCTOR
1	Saturday	10:00AM-2:00PM	Members Open Access	Club House	Glen Ripper
2	Sunday				
3	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
4	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
5	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
6	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
7	Friday				
8	Saturday	10:00AM-2:00PM	Precious Metal Clay	Club House	Sonora Hauser
9	Sunday				
10	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
		7:00PM-8:00PM	Opal Club Business Meet.	Club House	Tony Johnson
11	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
12	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
13	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
14	Friday	6:00PM	Club Board Meeting	Fruitland Grange	Kevin Higgins
		7:30PM	Club Business Meeting	Fruitland Grange	Tony Johnson
15	Saturday	10:00AM-2:00PM	Saddle Mountain	Field Trip	Nate White
		10:00AM-2:00PM	Members Open Access	Club House	Glen Ripper
16	Sunday				
17	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
18	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
19	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
20	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
21	Friday				
22	Saturday	10:00AM-2:00PM	Fire Agate Carving	Club House	Craig Oda
23	Sunday				
24	Monday	10:00AM-2:00PM	Members Open Access	Club House	Tasha Parker
25	Tuesday	4:00PM-8:00PM	Members Open Access - Beginner	Club House	Ed & Renera
26	Wednesday	10:00AM-2:00PM	Members Open Access	Club House	Dennis Batchelor
		4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
27	Thursday	4:00PM-8:00PM	Members Open Access	Club House	Tony Johnson
28	Friday	6:00PM	Club Auction & Potluck	Fruitland Grange	Tony Johnson
29	Saturday	10:00AM-2:00PM	Opal Cutting	Club House	Tony Johnson
30	Sunday				

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
Renera Barnes rsb1224@netscape.com	Jillian Higgins (253)355-3146	Nate White (206) 349-7054

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

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

MEET THE MEMBERS

Name: **Earlene Skinner**

Favorite Quote: “If it ain’t broke, don’t fix it.”

What are your skills/past experience with the rock Club or rock hounding? Ability to identify leaverites.

What is your favorite rock, mineral or gem? Labradorite.

What is your favorite thing to do with rocks, minerals or gems? Polish them to reveal their hidden beauty.

What are your three favorite books/podcasts?

- Donald E. McQuinnes: Warrior
 - Donald E. McQuinnes: Wanderer
 - Donald E. McQuinnes: Witch
- They are a three-part series set in a post-apocalyptic Pacific Northwest.

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

My favorite memory is going out into the desert with my grandmother and picking up “pretty” rocks.

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

The best thing is the knowledgeable members who are so willing to share their expertise.

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

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

- I was once in a movie with James Earl Jones.
- I’ve been a coach and referee for youth soccer.
- I once lived east of Eden.

What is your greatest accomplishment?

Helping my step-kids become happy, healthy, and independent adults.

Clubhouse report

Tony Johnson

We are looking for new instructors at the club house, not that any of our current instructors are going anywhere, but sometimes they need a break or have things in life pop up.

You do not need to be able to cut a perfect cab or understand the complete ins and outs of the equipment. You just need to be able to talk to people and help them. Open up the club house, turn on the heater or A/C, and maybe make a pot of coffee. We will teach you all the other things so that you are comfortable.

If you are at all interested in volunteer your time to the club in this much need way, please contact Tony Johnson at (253) 863-9238 or by email at ynotopal@outlook.net.

Associations Director Report

Hello all, here are some notes from the Mineral Council meeting on Tuesday March 25th.

Ed Lehman is retiring as the Mineral Council's Wagonmaster and map booklet committee head. He thinks he has found three people to be field trip leaders. He will get back to the council when he has confirmation.

Douglas Wittinger from the Maplewood Rock & Gem Club has volunteered to be the head of the committee coordinating updating the map booklets. The booklets will now sell for \$15 due to printing cost increase.

They are still looking for someone to act as the Walker Valley contact for the DNR.

There is nothing new to report at this time from A.L.A.A.

That's all for now.

Mark Baumann,
PVG&MC Associations Director

Emerald – Part 2

The bright green gem of the beryl mineral family and May birthstone.

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

Starting in about 2015, significant amounts of emerald with exceptional color and clarity started to be exported from Ethiopia. An editorial on the JCK website speculated that these Ethiopian emeralds might be the greatest gem find in 100 years. [2] An article in *Gems & Gemology* surveys the production of emerald in Ethiopia through 2017. [11]

Even though the conditions for the formation of emerald are very unlikely, the gem has been found in a diversity of rock types. In Colombia, the country that has supplied most of the world's emeralds, black organic [shale](#) and carbonaceous [limestone](#), both sedimentary rocks, are the ores for many emerald deposits. The shale is thought to be the source of chromium, and the beryllium is thought to have been delivered by ascending fluids.

Many of the world's emerald deposits have formed in areas of contact metamorphism. A granitic magma can serve as a source of beryllium, and nearby carbonaceous [schist](#) or [gneiss](#) can serve as a source of chromium or vanadium. These emeralds usually form in schist or gneiss or in the margins of a nearby [pegmatite](#). Mafic and ultramafic rocks can also serve as sources for chromium or vanadium.

Emeralds are rarely mined from alluvial deposits. Emerald is usually a fractured stone that does not have the alluvial durability to persist great distances from its source. Emerald also has a specific gravity of 2.7 to 2.8, which is not significantly different from quartz, [feldspar](#), and other common materials found in stream sediments. It therefore does not concentrate with high-density grains which are segregated in the stream and more easily recovered by placer mining.



Emerald from North Carolina: A specimen of the Crabtree Pegmatite of western North Carolina. This granitic pegmatite filled a two-meter-wide fracture which contained emerald along the walls of the fracture and yellow beryl in the center. It was mined for emeralds by Tiffany and Company and a series of property owners between 1894 and the 1990s. Many fine clear emeralds were produced, but most of the emerald-bearing rock was sold as "emerald matrix" for slabbing and cabochon cutting. The cabochons displayed emerald and tourmaline prisms in a white matrix of quartz and feldspar. This specimen is about 7 x 7 x 7 centimeters in size and contains numerous small emerald crystals that are up to several millimeters in length and associated with schorl.

Very few emeralds have been mined in the United States. [North Carolina](#) has been a sporadic producer of emeralds in small quantities from a few tiny mines since the late 1800s. The Crabtree Emerald Mine was once operated by Tiffany and Company and a series of property owners between 1894 and the 1990s. Many fine clear emeralds were produced, and tons of emerald-bearing pegmatite were sold as "emerald matrix" for slabbing and cabochon cutting. The cabochons displayed emerald and tourmaline prisms in a white matrix of quartz and feldspar. A specimen of the Crabtree Pegmatite is shown on this page.

North American Emerald Mines operates a small mine near Hiddenite, North Carolina. Between 1995 and 2010, over 20,000 carats of emeralds were produced, including a six-inch-long, 1,869-carat crystal that is now in the Houston Museum of Natural Science and valued at \$3.5 million. A [crushed stone](#) quarry on the same property is operated with employees watching for signs of the hydrothermal veins and pockets that sometimes contain emerald. It is one of the only gemstone mines in the world that sells the country rock. [3]

Trapiche Emerald: A photograph of a trapiche emerald crystal section. The green material is emerald, and the black is particles of the black shale matrix that were included during crystal growth. This photography by Luciana Barbosa is displayed here under a [Creative Commons license](#).



Trapiche emeralds are a rare variety of emerald that exhibit a six-sided, zoned morphology. Inclusions of their black shale matrix separate the growth sectors of the crystal. (See accompanying photo.) A cross-section through the trapiche crystals, cut perpendicular to the c-axis of their central core, resembles a wheel with six spokes. [4]

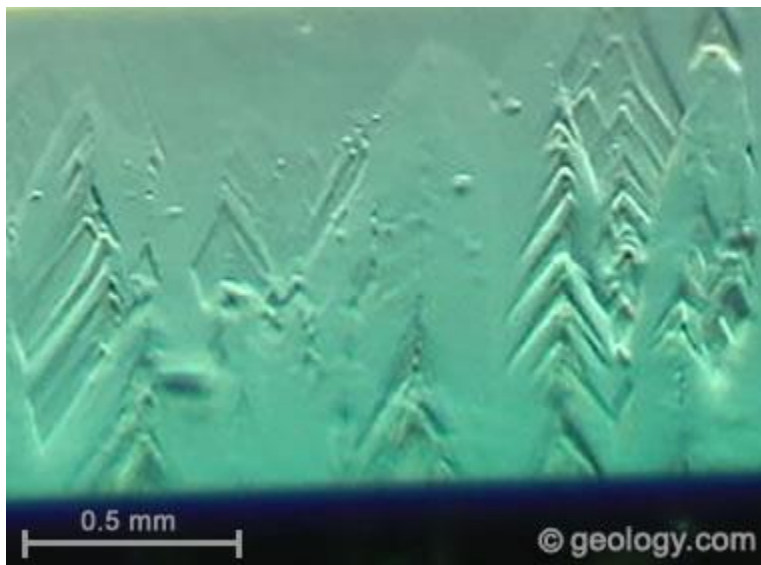
Trapiche emeralds are occasionally found in a few mines on the west flank of the Eastern Cordillera Basin of Colombia. They are thought to form when fluid overpressuring, followed by sudden decompression, causes

rapid crystallization of emerald. During this rapid crystal growth, particles of the black shale matrix are trapped between the six growth sectors of the emerald crystals. This is the origin of the six black spokes of the wheel.



Synthetic emerald: The materials in this photo are lab-created or synthetic emerald produced by Chatham. On the left is a faceted synthetic emerald weighing 0.23 carats and measuring 5.1 x 3.0 millimeters. On the right is a synthetic emerald crystal weighing 2.0 carats and measuring 8.1 x 6.1 x 4.9 millimeters.

Evidence of Synthetic Origin: Microscopic examination is the best method for separating synthetic emeralds from natural emeralds. The photo above show chevron-type growth zoning in a synthetic emerald grown by the hydrothermal method.



The first synthetic emeralds were produced in the mid-1800s, but it was not until the 1930s that Carroll Chatham began producing synthetic emerald in commercial quantities. Once commercial production began, a steady supply of synthetic emeralds began entering the market. To date, several companies including Chatham Created Gems, Gilson, Kyocera Corporation, Lennix, Seiko Corporation, Biron Corporation, Lechleitner, and Regency, have produced synthetic emeralds by flux and hydrothermal processes. [1]

Synthetic emeralds, also known as lab-created emeralds, have the same chemical composition and crystal structure as natural emeralds. They are sold beside natural emeralds in most mall jewelry stores in the United States. When compared to natural emeralds, the synthetics typically have superior clarity and a more uniform appearance than natural stones of equivalent cost.

There is nothing wrong with synthetic emeralds, or synthetic stones of any kind - as long as their synthetic origin is clearly disclosed to the buyer. They are simply another option for the buyer. Many consumers purchase synthetic emeralds and enjoy them because they obtain superior appearance at a substantially lower cost.

The two key tests for separating natural emeralds from synthetic emeralds are refractive index and magnification. Natural emeralds generally have a refractive index that is slightly higher than most hydrothermally produced synthetic emeralds and much higher than most flux-grown synthetic emeralds. These differences are not large enough to be relied upon for important determinations; however, they can serve as a valuable indicator.

Magnification is the most important tool for separation of natural emeralds from synthetic emeralds. Synthetic emeralds can often be identified because they contain visible characteristics that are a product of the techniques used to create them. Hydrothermal synthetic emeralds might display characteristics that include: chevron-type growth zoning, nail-head spicules, and small gold inclusions. Flux-grown synthetic emeralds might display characteristics that include: wispy veil inclusions, tiny platinum crystals, or parallel growth planes. Many gemologists can quickly identify most synthetic emeralds by [microscopic examination](#).



Green gemstones: A collection of green faceted stones of various types. Most of them are not emerald. If you want a green gemstone, which one would you choose based upon color and appearance?

Beginning in the back row at left - the name of the stone and its locality, carat weight, and the price that we paid: 1) chrome diopside from Russia, 1.16 carats (\$11); 2) green quartz (dyed) from North Carolina, 2.6 carats (\$8); 3) green tourmaline from Brazil, 0.77 carats (\$58); 4) lab-created emerald

manufactured by Chatham Created Gems, 0.23 carats (\$37); 5) emerald from the Crabtree Mine, North Carolina, 0.50 carats (\$80); 6) emerald from Colombia, 0.53 carats (\$112); 7) tsavorite garnet from Tanzania, 0.68 carats (\$105).

Notice how some of the least expensive stones are free of eye-visible fractures and obvious inclusions, while costly emeralds have fractures and inclusions that are clearly visible with the unaided eye. Some people have such a high desire for "emerald" that they are willing to pay more for an emerald than for another green stone that is larger, cleaner, and more attractive. Buy what you like!

"Imitations" are materials that have a similar appearance to natural gems and are used in their place. They are often manufactured specifically to serve as substitutes. Green glass, synthetic green spinel, green cubic zirconia, and green yttrium aluminum garnet are common imitations used in place of emerald.

Emerald Alternatives

"Emerald alternatives" are other natural stones with a green color that are purchased by people who simply want a green gem. They might prefer to own an emerald, but they select the alternative stone instead because of its lower price or other characteristics. Chrome [diopside](#) and chrome [tourmaline](#) are deep green gems that some people purchase when they want a green gem. Tsavorite [garnet](#) is another gem with a wonderful green color. Dyed [quartz](#) can be a beautiful stone at a very low cost. Several examples of alternative stones and synthetic emerald are shown in the nearby photo. The best rule for buying gemstones is: "Buy what you like!"

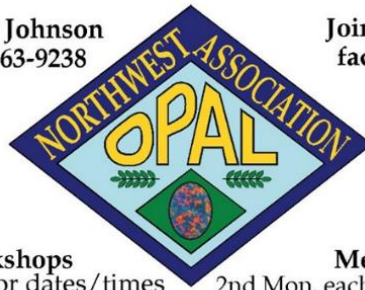
Field Trip Recap

Nate White

The field trip to Damon Point was a wonderful time. 17 members attended to look for beach treasures and enjoy the scenery. It was chilly in the morning but the sun came out and warmed up to the mid 60's. One of our new, younger members, Timothy found the most and biggest pieces of carnelian agate, which he brought to the meeting to show off. Others found all kinds of jasper, including a few pieces of poppy, and one member found a really interesting piece of blue colored agate. Everyone took home treasures!

Tony Johnson
253-863-9238

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Workshops
call for dates/times

Meetings
2nd Mon. each month

COMMUNITY SUPPORTERS



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Yankees_Diesel@comcast.net

FROM THE BENCH

Making fine metal shavings

There are times when you will need to make fine metal shavings, but how do you do it without the shavings going all over the place.

A really simple and cost-effective way is to use a plastic drink bottle with a big enough opening to fit the head of your Dremel or flex shaft in a couple of inches. Place your Dremel (or flex shaft) and mark the outside of the bottle with a Sharpe about where the head of the carving bur will end up. Cut a small vertical hole/slot about a quarter of an inch long. Cut your metal sheet into quarter inch lengths then put the piece of sheet metal in the whole and use the carving bur to grind off filings. Since you are doing your metal shaving inside the bottle, the majority of the metal shavings will collect inside the bottle.

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.

Reenera Barnes has sustained a broken elbow and has had to have surgery. There will be a recovery period so any prayers will be welcome.

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

MINERAL OF THE MONTH



orange.

Charlesite got its official designation as a unique mineral in 1945 and was named after the mineralogist who found it, Charles Palache. Some very talented gem cutters have been able to facet stones, but very rarely.

I bet you can guess what family of minerals these belong to. Their vibrante yellow color does a great job in giving it away. If you guessed that this is a Sulfite Mineral, you are correct. But, this is an extremely rare member of the Etringite family, meaning it was formed in a through hydrolosus (heated water) with other minerals like calcium and aluminum. This is Charlesite, and it is very soft, only a 2.5 on the Mohs scale and very brittle. It forms as a Hexagonal Crystal and can be found as clear or milky to pink, but more often in shades of yellow to



2023 SHOW & TELL THEMES and PROGRAM NIGHT EVENTS

The Council Reporter

Local Area Shows for 2023

DATE & TIME	CLUB	SHOW	LOCATION
April 2023 1st 10am—6pm 2nd 10am - 5pm	Sweet Home Rock & Mineral Society	73rd Annual Rock & Mineral Show	Sweet Home HS Activity Gym 1641 Long St. Sweet Home, OR
April 2023 1st 10am—5pm 2nd 10am - 5pm	Maplewood Rock and Gem Club	Maplewood Rock and Gem Show	Maplewood Rock and Gem Clubhouse 8802 196th ST SW Edmonds WA
April 2023 14th 9am - 5pm 15th 9am - 5pm 16th 10am - 4pm	Willamette Agate & Mineral Society	66th Annual Rock and Gem show \$5, 11 & under free/adult	Polk County Fairgrounds 520 S. Pacific Hwy Rickreall, OR
April 2023 15th 10am - pm 16th 10am - 5pm	Idaho Falls Gem & Mineral Society	57th Annual Show \$3 adults, 12 & under free	Idaho Falls Recreation Center Corner of Memorial Drive and B St Idaho Falls, ID
April 2023 15th 10am - 5pm 16th 10am - 5pm	North Seattle Lapidary And Mineral Club	Annual show	Crown Hill Center 9250 14th Ave NW Seattle
April 2023 21st 10am - 4pm 22nd 10am - 5pm 23rd 10am—4pm	Yakima Rock & Mineral Club	59th Sparkling Parade of Gems Adults—\$6 Students—\$2.00 12 & under free	Central Washington State Fair Ground Modern Living Building 1301 South Fair Avenue Yakima ,WA 98901
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
April 2023 29th 10am - 5pm 30th 10am - 4:30pm	Grays Harbor Geology and Gem Society	55th Annual show	Grays Harbor Fair Grounds 43 Elma-McCleary Road Elma, WA
May 2023 6th 9am—5pm 7th 10am—4pm	Umpqua Gem & Mineral Club	Carnival of Rocks Annual Show	Douglas County Fairgrounds 2110 Frear Ave, I-5 Exit 123 Roseburg, OR
May 2023 12th 10am-8pm 13th 10am—6pm 14th 1-am-5pm	BC Lapidary Society	The BC Rock & Gem Show Admission—\$6 or \$12 3 day pass Students 6-17 \$2 Children under 6 free	Chilliwack Heritage Park 44140 Luckakuck Way Chilliwack, BC Exit 116 (Lickman Rd) off Hwy 1
May 2023 13th 10am - 5pm 14th 10am - 4pm	Hatrockhounds Gem & Mineral Society	\$3, 12 and under free	Eastern Oregon Trade & Event Center 1705 East Airport Road Hermiston OR
May 2023 13th 10am - 6pm 14th 10am - 4pm	Bozeman Gem & Mineral Club	Annual Rock Show \$3 adults, 12 & under free w/adult	Gallatin County Fair Grounds 901 N. Black, Bldg. #1 Bozeman, MT
May 2023 19h 10am - 5pm 20h 10am - 5pm 21st 10am—3pm	Mt Hood Rock Club	Mt Hood Rock Club's Rock And Gem Show	Kliever Memorial Armory 10000 NE 33rd Dr. Portland, OR., 97211
May 2023 20th 9am—5pm 21st 10am—4pm	Butte Mineral and Gem Club	Annual Show \$3 adults, 12 & under free w/ Adult	Butte Civic Center Annex 1340 Harrison Avenue Butte MT
May 2023 27th 10am—6pm 28th 10am—5pm	Everett Rock and Gem Club	68th Annual show	Evergreen State Fairgrounds 18359 Cascade View Drive Monroe, WA.

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
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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

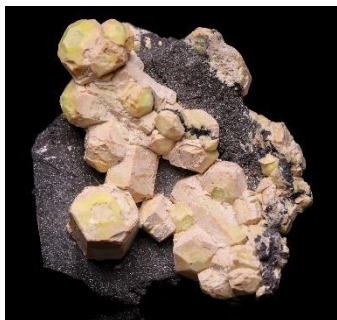
April 2023

Nathan Dyson – 2nd
 Brian Griffith – 4th
 Rachel Bjorklund – 7th
 Joshua McVey – 7th
 Craig Oda – 7th
 Jim Christian – 9th
 Gary Meyer – 9th
 Nathan White – 10th
 Marsha Crane – 12th
 Alyvia Williamson-Savard – 12th
 Cynthia Walsh – 13th
 Tamara Crane – 14th
 Michael Meyer – 14th
 John Trivette – 14th
 RJ Griffin – 16th
 Elizabeth Eriksen – 17th
 Mathew Williams – 17th
 Amanda Lin – 19th
 Teresa Lin – 19th
 Brenda Lopez – 20th
 Nick Hernandez – 23rd
 Matthew McVey – 23rd
 Aimee Wilson – 23rd
 Martha Collins – 25th
 Larry Hoffman – 25th
 Eric Loughmiller – 25th
 Wade Sparks – 25th
 Del Crawford – 29th
 Raven Lee – 29th
 Tony Johnson – 30th
 Randie Welcher – 30th

MARTIAN CRATERS ARE A BLAST IV

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

- | | | |
|---------------|------------------|-----------------|
| 1. ARANDAS | 14. MARINER | 27. TARSUS |
| 2. CANTOURA | 15. MATARA | 28. TIGNISH |
| 3. DEJNEV | 16. NANSEN | 29. TOCANAO |
| 4. EDAM | 17. NUTAK | 30. TRIOLET |
| 5. FOURNIER | 18. OMURA | 31. TYCHO BRAHE |
| 6. GAESTRE | 19. PEBAS | 32. VALVERDE |
| 7. HAMELIN | 20. POMPEII | 33. WALLACE |
| 8. HUSSEY | 21. RADAU | 34. WALLULA |
| 9. JAMPUR | 22. RODDENBERRY | 35. WINSLOW |
| 10. KAGOSHIMA | 23. SAGAN | 36. WOOLGAR |
| 11. KEREN | 24. SCHIAPARELLI | 37. YALATA |
| 12. LASSELL | 25. SINDA | 38. YEGRAS |
| 13. LUCAYA | 26. SWANAGE | |



ROCK-A-TEER

Newsletter of Puyallup Valley

Gem & Mineral Club

P.O. Box 134

Puyallup, WA 98371