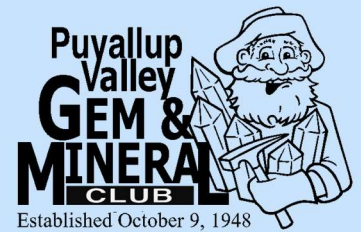


# ROCK-A-TEER



## Newsletter of the Puyallup Valley Gem & Mineral Club

Jillian Higgins

Issue 43

Volume 96

August

2021

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## President's Perspective

Tony Johnson

We have a whole lot going on this month. Mike and LaVon Siperek are having their annual sale at the club house August 4<sup>th</sup> – 8<sup>th</sup> from 9:00am – 5:00pm. The club Show in the Woods is August 13<sup>th</sup> – 15<sup>th</sup>. The club annual overnight field trip is August 21<sup>st</sup> – 22<sup>nd</sup>. And the annual club picnic & tailgate is August 28<sup>th</sup>. Please see more information about each event below and check your email.

The WA State Fair in Puyallup is coming up in September and things have changed. They are not allowing booths for clubs and organizations, but we are allowed to have a display case and of course the competition cases. To have your work displayed in the club case, you need to have your pieces to Tony by August 28<sup>th</sup> (the day of the club picnic). For the competition, you will need to have your pieces dropped off at the fair Friday, August 20 & Saturday, August 21<sup>st</sup> from 11:00 – 4:00 or Sunday, August 22<sup>nd</sup> from 12:00 – 6:00. Please see competition details located on the fair website for more information.

**The club is now communicating mostly by email, given that we are not able to hold meetings. If you have not already, please checked your email for information, and update the membership director if you have had a change or added a new email address.**

# Field Trip Report

## **August 21 & 22 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 18 - 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 2021 CLUB HOUSE SCHEDULE

DATE	DAY	TIME	ACTIVITY	LOCATION	INSTRUCTOR
1	Sunday				
2	Monday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
3	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	Renera & Ed
4	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
5	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
6	Friday				
7	Saturday	10:00AM-2:00PM	<b>Members Workshop</b>	Club House	Glen Ripper
8	Sunday				
9	Monday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
10	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	Renera & Ed
		7:00PM	Club Board Meeting	Fruitland Grange	Jim Christian
11	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
12	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
13	Friday	7:30PM	Club Business Meeting	Fruitland Grange	Tony Johnson
14	Saturday	Clubhouse Closed	<b>"Rock &amp; Gems in the Trees"</b>		
15	Sunday				
16	Monday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
		7:00PM-8:00PM	Opal Club Business Meet.	Club House	Tony Johnson
17	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	Renera & Ed
18	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
19	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
20	Friday				
21	Saturday	10:00AM-2:00PM	Greenwater - <b>Overnight</b>	Field Trip	Dennis Batchelor
		10:00AM-2:00PM	<b>Members Workshop</b>	Club House	Glen Ripper
22	Sunday	10:00AM-2:00PM	Greenwater - <b>Overnight</b>	Field Trip	Dennis Batchelor
23	Monday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
24	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	Renera & Ed
25	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
26	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
27	Friday				
28	Saturday	10:00AM-2:00PM	<b>Picnic &amp; Tailgate Party</b>	Club House	Tony Johnson
29	Sunday				
30	Monday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
31	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	Renera & Ed

**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

Renera Barnes rsb1224@netscape.com

Jillian Higgins (253)355-3146

Glen Ripper (253) 508-7545

**This Schedule is Subject to Change. Please check the website for updates.**

## **Siperek Annual Rock Sale August 4<sup>th</sup> – 8<sup>th</sup> from 9:00am – 5:00pm**

Come support Lifetime members Mike and LaVon Siperek at their annual rock sale held at the club house. They will be selling material from all over the world, including rare or hard to find pieces. Large selection from rough, slabs, preforms, and finished cabs, as well as jewelry, tumbled stones, fossils and a whole lot more. Please park in the neighbors Christmas Tree farm and walk over to the upper field for the larger items like rough and buckets, or under the covered RV parking for more finished gemstones, jewelry and slabs. Hope to see you there, but beat you to the amazing deals.

## **The 2<sup>nd</sup> Annual Show in the Woods**

**Jillian Higgins**

The clubs 2<sup>nd</sup> Annual Show in the Woods is coming up August 13<sup>th</sup>, 14<sup>th</sup>, and 15<sup>th</sup>.

We will again be having Carl Carlson at our show as a special guest. He will be selling rough material, display pieces, and more finished items, as well as spreading his vast knowledge regarding Ellensburg Blue Agate and geology at large.

His schedule is:

Friday, August 13<sup>th</sup> from 10:00am – 3:00pm

Saturday, August 14<sup>th</sup> from 10:00am – 3:00pm

Sunday, August 15<sup>th</sup> from 10:00am – 3:00pm

Please come support our vendors and the club by checking out the show.

## **CLUBHOUSE REPORT**

**Tony Johnson**

The clubhouse schedule this month is pretty busy with non-typical closures and activities. Please check the calendar and your email for details.

We are getting really busy now that summer is in full swing. Remember to sign up early to reserve your preferred date and class. With all the heat, we know some have been concerned, but we are using the A/C inside the club house and the capping room has been staying nice and cool. Sadly the same cannot be said for the trim saw room, but we are keeping the window open in the hope the breeze will bring some needed relief.

## Field Trip Recap

Dennis Batchelor

We will be keeping an eye out on the fire danger. Right now there will be no open camp fires, however, we will still be cooking our spaghetti dinner on a propane cooker, as well as breakfast Sunday morning. We will be meeting the non-campers or late arrivals at the Enumclaw ranger station and leave for the campsite at 10 am sharp both Saturday and Sunday mornings. As with all mountain sites, dress for weather changes and be prepared for ticks and mosquitoes. Material to be found is Jasper, common opal, agate, and petrified wood.

## GREENWATER OVERNIGHT FIELD TRIP

We are having our annual overnight field trip. Just some quick reminders that if you are planning on attending, but not spending the night, Dennis will meet you at the Enumclaw ranger station at 9:00am both mornings.

For those spending the night, we will be having Tony's World Famous Campfire Spaghetti. The club will provide the main fair and Drinks, but we ask you bring side dishes to go with the Spaghetti and any specialty deserts you might have. Tony will also be making us breakfast of pancakes, eggs and bacon (or sausage). We would appreciate any additions to breakfast (otherwise we will be having leftovers, haha). We are hoping to have a campfire with the possibility of smores, but may have to save that for next year if the fire danger is too great to allow for open flames.

The most important thing to remember is to **bring lots of water**, and your own lunches for both days and a winning attitude! Good luck rockhounds.

## PICNIC, POTLUCK, AND TAILGATE

Jillian Higgins

The club Picnic will be held Saturday, August 28<sup>th</sup> with food drop off starting at 11:00am, eating to commence at noon, and tailgate to follow after everyone is full. The club will be providing hotdogs, hamburgers, and drinks. We are asking that the membership brings whatever potluck item they like.

For those who are tailgating, we will be parking in the upper field, remembering to get as close to each other as is safe so there is room for everyone who wants to vend. We ask that everyone else park at the neighbors Christmas Tree farm lot and walk over since the normal club house parking lot will be full of food and chairs.

# Hemimorphite

A zinc silicate mineral and a minor ore of zinc.

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



**Blue Hemimorphite:** Botryoidal hemimorphite crystals with a spectacular blue color completely coating the walls of a pocket. Specimen from the Wenshan Mine, Dulong ore field, Wenshan Autonomous Prefecture, Yunnan Province, China. The specimen measures 12.4 x 6.8 x 3.1 centimeters. Specimen and photo by Arkenstone / [www.iRocks.com](http://www.iRocks.com).

## What Is Hemimorphite?

Hemimorphite is a [zinc](#) silicate [mineral](#) with a chemical composition of  $Zn_4Si_2O_7(OH)_2 \cdot H_2O$ . It contains up to 54% zinc by weight and is a minor ore of zinc. Hemimorphite is a common secondary mineral found in the weathered [rocks](#) above and around zinc deposits.

Most hemimorphite is white, gray, colorless, or brown. Rare specimens with nice crystals and spectacular yellow, bluish green, or bright blue colors are popular with mineral collectors. It is also cut into [cabochons](#) and beads for [gemstone](#) collectors and jewelry.

**Hemimorphite Crystals on Limestone:** Brown crystals of hemimorphite encrusting limestone from the Granby Field, Tri-State District, Newton County, Missouri. The specimen measures 7.2 x 6.6 x 2.5 centimeters. Specimen and photo by Arkenstone / [www.iRocks.com](http://www.iRocks.com).



## Origin of the Name Hemimorphite

The word *hemimorphic* is an adjective used to describe a crystal that has terminations of different shapes at the end of its primary crystallographic axis. Adolph Kenngott knew that hemimorphite was one of just a few minerals that produced hemimorphic crystals. That inspired him to use the name *hemimorphite* in 1853.

Prior to Kenngott's use of the name, hemimorphite and smithsonite were both called "calamine". In 1962 the International Mineralogical Association chose to use the name hemimorphite for the mineral. [1]

# Geologic Occurrence of Hemimorphite

Most hemimorphite is found in the rocks above and surrounding zinc deposits. Here, primary zinc ores such as [sphalerite](#) were altered to produce hemimorphite as a weathering product, or secondary mineral. Some hemimorphite is also formed where zinc-bearing rocks were subjected to metasomatism.

Hemimorphite can occur as crusts that replaced primary sulfide minerals, crusts of crystals that covered the surfaces of fractures and cavities, or massive to granular aggregates of crystals that fill cavities and replace host rocks. The crystals that produce spectacular mineral specimens are often the last-to-form crystals that grow unobstructed, outward into a subsurface cavity.

## Physical Properties of Hemimorphite

<b>Chemical Classification</b>	Silicate
<b>Color</b>	Usually white, brown, gray, or colorless. Sometimes displays spectacular blue, greenish blue, or green colors. Beautiful color and interesting crystal habits make hemimorphite popular with mineral collectors.
<b>Streak</b>	White
<b>Luster</b>	Vitreous to pearly
<b>Diaphaneity</b>	Translucent to semi-transparent
<b>Cleavage</b>	Perfect on {110}, poor on {101}. Brittle with uneven fracture.
<b>Mohs Hardness</b>	4 1/2 to 5
<b>Specific Gravity</b>	3.4 to 3.5
<b>Diagnostic Properties</b>	Crystal habit, hardness, specific gravity
<b>Chemical Composition</b>	$Zn_4Si_2O_7(OH)_2 \cdot H_2O$
<b>Crystal System</b>	Orthorhombic
<b>Uses</b>	An ore of zinc. Specimens are popular with mineral collectors. Sometimes cut into gems for collectors.

## Physical Properties of Hemimorphite

If you attend a mineral show or visit a museum, you will see hemimorphite specimens with beautiful crystals and in spectacular colors. Most hemimorphite has an unremarkable appearance. It usually occurs in a massive or granular habit and is white, gray, colorless or brown in color.

Individual crystals, when distinguishable, can be prismatic, tabular and asymmetric. When hemimorphite crystals grows into an unfilled cavity they often develop into a botryoidal habit or into a druse that covers the walls of the cavity. Associated minerals include: smithsonite, sphalerite, cerussite, anglesite, and [galena](#).

Diagnostic properties in hand specimens are its crystal habit, hardness, specific gravity, and its effervescence with cold hydrochloric acid.



**Hemimorphite Crystal Cluster:** A fan-shaped spray of colorless hemimorphite crystals in a radial habit. Specimen is from the Ojuela Mine, Mapimi, Durango, Mexico, and measures 2.8 x 2.4 x 1.0 centimeters. Specimen and photo by Arkenstone / [www.iRocks.com](http://www.iRocks.com).

## Crystal Habit

Hemimorphite exhibits a variety of [crystal habits](#), including prismatic, tabular, and botryoidal. The crystals are often blade shaped and grow in clusters. These clusters can form a fan-like spray of blade-shaped crystals; a cockscomb similar to [marcasite](#); or, tightly intergrown, radiating clusters that produce a botryoidal habit.

**Blue Hemimorphite Cabochons:** Two cabochons of hemimorphite with a wonderful blue color. The triangular cab measures 18 x 16 millimeters, and the small oval cab measures 11 x 8 millimeters.

## Gemology

Hemimorphite is a favorite collector [gem](#) because it occurs in a range of spectacular colors. Some collectors seek out specimens that will cover the full range of hemimorphite's colors.

Hemimorphite should be used cautiously in jewelry. It has a [Mohs hardness](#) of only 4 ½ to 5, so it will be quickly abraded if worn in a ring or bracelet. It is brittle and has perfect cleavage, so it will break easily upon impact.

Because hemimorphite is fragile, its use in jewelry is best limited to earrings, pins, pendants, and other pieces that are unlikely to experience impact or abrasion. When stored, hemimorphite jewelry should be placed in cushioned boxes, bags, or jewelry box compartments where two pieces of jewelry will not rub against one another.

Specimens with spectacular colors can cause excitement. The Gemological Institute of America's lab received a translucent electric blue cabochon of 5.61 carats with a request to perform a Paraiba [tourmaline](#) origin report. The gem exhibited some properties that were consistent with Paraiba tourmaline, but testing revealed that it was hemimorphite with a Paraiba-like color. [2]

## Hemimorphite vs Smithsonite

Although hemimorphite and smithsonite are different minerals with different chemical compositions and crystal structures, they have frequently been confused - especially when only simple tools were available and the specimens could not be subjected to destructive testing. Often a single specimen will be an intergrown mixture of hemimorphite and smithsonite. Until the mid-to-late 1800s, the name "calamine" was used for both minerals.





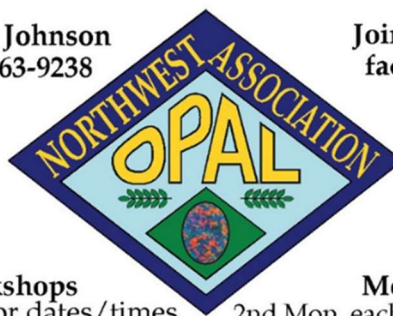
A few properties can help prevent confusion. Hemimorphite has a lower specific gravity (3.4 to 3.5) than smithsonite (4.3 to 4.5). Hemimorphite will not react with [hydrochloric acid](#), but smithsonite will effervesce in contact with cold hydrochloric acid - but remember that the two minerals are often intergrown in a single specimen. Hemimorphite has perfect cleavage in one direction, but smithsonite has perfect cleavage in two directions which meet to form rhombic shapes.

## COMMUNITY SUPPORTERS

	<p><b>South Hill RV Sales</b></p> <p>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>12414 Meridian East, Puyallup 98373 253-435-7751 or 866-435-7751 <a href="http://www.southhillrv.com">www.southhillrv.com</a></p>
	<p><b>Rice Museum of Rocks &amp; Minerals</b></p> <p>To engage, inspire, and educate generations on the splendor and complexity of our Earth.</p> <p>26385 NW Groveland Dr., Hillsboro, OR 97124 503-647-2418 <a href="mailto:Info@ricenorthwestmuseum.org">Info@ricenorthwestmuseum.org</a> <a href="http://www.ricenorthwestmuseum.org">www.ricenorthwestmuseum.org</a></p>
<p><b>H &amp; I Lapidary</b></p>	<p>Amber, Jewelry, Beads, Findings, Gemstones, Slabs, Rough Material, Fossils, and Aussie items.</p> <p>Mike and LaVon Siperek (253) 531-7294 4203 E 99<sup>th</sup> Street, Tacoma, WA 98446 <a href="mailto:Yankees_Diesel@comcast.net">Yankees_Diesel@comcast.net</a></p>

**Tony Johnson**  
253-863-9238

**Join us on  
facebook**



**Workshops**  
call for dates/times

**Meetings**  
2nd Mon. each month

## FROM THE BENCH

### Alternative Pickling Solution

Sometimes Pickling Solution can be a little daunting with its radioactive yellow/green color and its eye watering fumes. If you are like me and are sometimes looking for a less harsh chemical alternative, I would suggest you try pH Down, which is a product for regulating pool PH that can be found at the hardware store.

It is just as effective at removing firescale and cleaning dirty metal, but is not as harsh and can be pored down your drain, **UNLESS**, you are working with copper. Follow safety guidelines with regard to the disposal of copper enriched solutions.

Heat the pH Down solution in your crockpot the same was as pickle, and neutralize it with backing soda, but expect the same results.

As a side note, pH Down is also a great way to adjust the pH of your garden soil. For those of us who like to play in the dirt, sprinkle a little pH down into the soil if the pH is too high and watch the levels lower to the proper pH.

## SUNSHINE REPORT

With everything going on, we have not had a chance to meet as a group and bring to eachother's attention members who need healing thoughts or prayer sent their way.

We are sad to announce the passing of Jan Nicoles, lifetime member of the club. More information regarding Jan, her husband Jim Nicoles, and their contributions to the club will be coming in the near future. No services are scheduled at this time.

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

Tony Johnson at [ynotopals@outlook.com](mailto:ynotopals@outlook.com) (253) 863-9238 or  
Jillian Higgins at [J.Y.Higgins@gmail.com](mailto:J.Y.Higgins@gmail.com) (253) 355-3146

## 2021 SHOW & TELL THEMES and PROGRAM NIGHT EVENTS

MEETING	DATE	SHOW & TELL THEME	PROGRAM NIGHT EVENT
January - 1st Meeting	January 8, 2021	Tiger's Eye or <b>any field trip finds</b>	
January - 2nd Meeting	January 22, 2021	Lace or <b>any field trip finds</b>	To Be Announced
February - 1st Meeting	February 12, 2021	Heart shaped or <b>any field trip finds</b>	
February - 2nd Meeting	February 26, 2021	Red, Pink, & Purple or <b>any field trip finds</b>	To Be Announced
March - 1st Meeting	March 12, 2021	"Sham" rocks or <b>any field trip finds</b>	
March - 2nd Meeting	March 26, 2021	Green or <b>any field trip finds</b>	To Be Announced
April - 1st Meeting	April 9, 2021	April Fools Gold or <b>any field trip finds</b>	
April - 2nd Meeting	April 23, 2021	<b>No Show &amp; Tell</b>	Auction/Potluck
May - 1st Meeting	May 14, 2021	Flower rocks or <b>any field trip finds</b>	
May - 2nd Meeting	May 28, 2021	<b>No Show &amp; Tell</b>	To Be Announced
June - 1st Meeting	June 11, 2021	Fancy Slabs & Fossils + <b>any field trip finds</b>	
June - 2nd Meeting	June 25, 2021	<b>No Show &amp; Tell</b>	Tailgate Party @ Grange Parking Lot
July - 1st Meeting	July 9, 2021	Red, White, & Blue or <b>any field trip finds</b>	
July - 2nd Meeting	July 23, 2021	<b>No Show &amp; Tell</b>	To Be Announced
August - 1st Meeting	August 13, 2021	Carnelians + <b>any field trip finds</b>	
August - 2nd Meeting	<b>Saturday</b> August 28, 2021	<b>No Show &amp; Tell</b>	Picnic & Tailgate Party at club house on Saturday
September - 1st Meeting	September 10, 2021	Crystals + <b>any field trip finds</b>	
September - 2nd Meeting	September 24, 2021	<b>No Show &amp; Tell</b>	Mini Lapidary Demonstrations
October - 1st Meeting	October 8, 2021	Wood + <b>any field trip finds</b>	
October - 2nd Meeting	October 22, 2021	<b>No Show &amp; Tell</b>	Auction/Potluck
November - 1st Meeting	November 12, 2021	Thundereggs & Geodes + <b>any field trip finds</b>	
November - 2nd Meeting	November 26, 2021	<b>No Show &amp; Tell</b>	BINGO Night
December - 1st Meeting	<b>Saturday</b> December 11, 2021	<b>No Show &amp; Tell</b>	Holiday Banquet/Officer Installation on Saturday
December - 2nd Meeting	No Meeting	<b>No Show &amp; Tell</b>	

## 2021 Elected Officers - Carry Over Until Election

Title	Name	Phone	Email
President:	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Vice President:	Jim Christian	(253)720-9502	Jimchristian_205@hotmail.com
Secretary:	Teresa Rodrick	(253)531-4062	gtrodi@comcast.net
Treasurer:	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Association Director:	Bill Clark	(360)893-6919	clarkwa@comcast.net
1 Year Director:	Glen Ripper	(253)508-7545	glen311944@yahoo.com
2 Year Director:	Patti Dailey-Shives	(253)678-0029	pattidailey28@gmail.com
1 Year Trustee:	Glenn Rodrick	(253)531-4062	gtrodi@comcast.net
2 Year Trustee:	Dennis Batchelor	(360)870-8741	hobbyhorse51@gmail.com

## 2021 Committee Chairs

Title	Name	Phone	Email
Club house Coordinator	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Club Show Coordinator	Jim Christian	(253)720-9502	Jimchristian_205@hotmail.com
Field Trips Coordinator	Dennis Batchelor	(360)870-8741	hobbyhorse51@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	Tony Johnson	(253)863-9238	ynotopals@outlook.net
Historian	Nicole Payne	(253)208-9802	pudnikki@yahoo.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](http://amlands.org) or the WA Mineral Council at: [mineralcouncil@zoho.com](mailto:mineralcouncil@zoho.com)

## GEMS AROUND THE WORLD

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

- |               |               |                |
|---------------|---------------|----------------|
| 1. AMAZONITE  | 11. EMERALD   | 21. PERIDOT    |
| 2. AMETHYST   | 12. GARNET    | 22. RUBY       |
| 3. ANDESINE   | 13. HEMATITE  | 23. SAPPHIRE   |
| 4. AQUAMARINE | 14. HIDDENITE | 24. SPINEL     |
| 5. BERYL      | 15. IOLITE    | 25. SUGILITE   |
| 6. CITRINE    | 16. JADEITE   | 26. TANZANITE  |
| 7. DANBURITE  | 17. KUNZITE   | 27. TOPAZ      |
| 8. DEMANTOID  | 18. KYANITE   | 28. TOURMALINE |
| 9. DIAMOND    | 19. LAPIS     | 29. TURQUOISE  |
| 10. DIOPSIDE  | 20. NEPHRITE  | 30. ZIRCON     |


**HAPPY BIRTHDAY**

**August 2021**

David Cowell – 4<sup>th</sup>  
 Erika Joslin – 8<sup>th</sup>  
 Joan Engel – 9<sup>th</sup>  
 Rowan Higgins – 10<sup>th</sup>  
 Randy Summers – 10<sup>th</sup>  
 Emmett Wolf – 11<sup>th</sup>  
 Ethan Wolf – 11<sup>th</sup>  
 Terri Gerard – 13<sup>th</sup>  
 John Engel – 15<sup>th</sup>  
 Joan Lockyer – 16<sup>th</sup>  
 Julie Murray – 16<sup>th</sup>  
 Shirley Harmon – 20<sup>th</sup>  
 Teresa Rodrick – 20<sup>th</sup>  
 Wyatt Cowan – 22<sup>nd</sup>  
 Faith Preston – 22<sup>nd</sup>  
 Michael  
     Stevenson – 24<sup>th</sup>  
 John Bellows – 26<sup>th</sup>  
 Dana James – 26<sup>th</sup>  
 Debbie Bickford – 29<sup>th</sup>  
 Sunshine Chase – 29<sup>th</sup>  
 Haddie Giles – 31<sup>st</sup>  
 Kegan McVey – 31<sup>st</sup>

*August Birthstone*

Peridot



Symbolizing dignity, fame, and prosperity, Peridots have been used in jewellery through the ages to achieve peace and success, and to attract love and good fortune. Hawaiians believe the traces of peridot found in volcanic ash are the tears of the volcano goddess, Pele.

### Colors of Peridot



# ROCK-A-TEER

Newsletter of Puyallup Valley

Gem & Mineral Club

P.O. Box 134

Puyallup, WA 98371