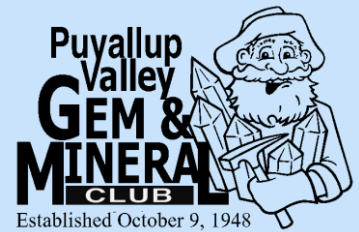


ROCK-A-TEER



Newsletter of the Puyallup Valley Gem & Mineral Club

Jillian Higgins

Issue 47

Volume 100

December

2021

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P.O. BOX 134, PUYALLUP, WA 98371
WWW.PUYALLUPVALLEYGEMANDMINERAL.CLUB.COM

PVGAMC@GMAIL.COM
(253) 987-6751

President's Perspective

Tony Johnson

Final Renewal Notice. All members who have not renewed their memberships by December 31st will no longer have access to club communications or the club house. Please make sure you have submitted your application before December 25th and used the expedited shipping address to ensure timely processing by the membership chairman. You can find the renewal on pg. 4 or on the website under Forms.

I would like to Thank everyone who helped out at events, activities, the show, clubhouse, field trips, the fair, and everything. We have had a really great year and are looking forward to an even busier year next year.

Don't forget about the Man and Woman gift exchange. These gifts are supposed to be labels either man or woman, and will be exchanged between only those who bring the gift and will be done during the Christmas Party.

Speaking of the Christmas Party, we will be having our annual potluck. The Club will be providing a Turkey and a ham, plates, utensils, cups, etc. The doors at the Grange will open at 4:30pm for setup and dinner will start at 6:00pm.

I wish you a very Merry Christmas and a Happy New Year.

Field Trip Report

December 11 - Rice Museum

Meeting place - 26385 Northwest Groveland Dr., Hillsboro, OR 97124

Hunting for - Rock pile for children to prospect a specimen, Looking at museum displays

Tools you need - Camera if you would like to take pictures

Access - Wheel chair accessible

Additional items - lunch/snacks and water, water, water. Dress in layers. Well worth the trip with displays of all kinds of minerals from the northwest

January 22 - No Sightings due to Weather

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.

DECEMBER 2021 CLUB HOUSE SCHEDULE

DATE	DAY	TIME	ACTIVITY	LOCATION	INSTRUCTOR
1	Wednesday	10:00AM-2:00PM	Membership Workshop	Club House	Glen Ripper
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
2	Thursday	4:00PM-8:00PM	Membership Workshop	Club House	Tony Johnson
3	Friday				
4	Saturday	10:00AM-2:00PM	Membership Workshop	Club House	Glen Ripper
5	Sunday				
6	Monday	10:00AM-2:00PM	Membership Workshop	Club House	Glen Ripper
7	Tuesday	4:00PM-8:00PM	Membership Workshop	Club House	Renner & Ed
		7:00PM	Club Board Meeting	Fruitland Grange	Tony Johnson
8	Wednesday	10:00AM-2:00PM	Membership Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
9	Thursday	4:00PM-8:00PM	Membership Workshop	Club House	Tony Johnson
10	Friday				
11	Saturday	6:00PM	Club Holiday Party	Fruitland Grange	Tony Johnson
12	Sunday				
13	Monday	10:00AM-2:00PM	Membership Workshop	Club House	Glen Ripper
		7:00PM-8:00PM	Opal Club Business Meeting	Club House	Tony Johnson
14	Tuesday	4:00PM-8:00PM	Membership Workshop	Club House	Renner & Ed
15	Wednesday	10:00AM-2:00PM	Membership Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
16	Thursday	4:00PM-8:00PM	Membership Workshop	Club House	Tony Johnson
17	Friday				
18	Saturday	10:00AM-2:00PM	Rice Museum	Field Trip	Dennis Batchelor
		10:00AM-2:00PM	Membership Workshop	Club House	Glen Ripper
19	Sunday				
20	Monday		Holiday - Christmas		
21	Tuesday		Holiday - Christmas		
22	Wednesday		Holiday - Christmas		
23	Thursday		Holiday - Christmas		
24	Friday		Holiday - Christmas		
25	Saturday		Holiday - Christmas		
26	Sunday				
27	Monday		Holiday - New Years		
28	Tuesday		Holiday - New Years		
29	Wednesday		Holiday - New Years		
30	Thursday		Holiday - New Years		
31	Friday				

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
Renner Barnes rsb1224@netscape.com	Jillian Higgins (253) 355-3146	Glen Ripper (253) 508-7545

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

Puyallup Valley Gem & Mineral Club

Membership Renewal

*** PLEASE PRINT LEGIBLY ***

Web Site: <http://puyallupvalleygemandmineralclub.com>

ANNUAL MEMBERSHIP DUES: ▶ Single - \$20.00 ▶ Family (2 or more) - \$26.00 [Dues are due October 1 st for the next calendar year and half price beginning July 1 st for the current year]	YEAR: 2022
--	--------------------------

FOR FAMILY MEMBERSHIPS, ALL INDIVIDUALS MUST LIVE AT THE SAME RESIDENCE

SINGLE RENEWAL FAMILY RENEWAL

PRINT YOUR FIRST AND LAST NAME: _____ DATE OF BIRTH: ____/____/____

NOTE ANY CHANGES OF ADDRESS, PHONE, EMAIL, ETC, BELOW. IF SAME AS LAST YEAR, JUST CIRCLE "SAME"
IF YOU CIRCLE "NEW", PLEASE ENTER THE NEW INFORMATION BELOW.

ADDRESS: (CIRCLE ONE) **SAME OR NEW**: _____

PHONE: (CIRCLE ONE) **SAME OR NEW**: _____

EMAIL: (CIRCLE ONE) **SAME OR NEW**: _____

OTHER: (CIRCLE ONE) **SAME OR NEW**: _____

FOR FAMILY MEMBERSHIP, CONFIRM/NAME OTHER FAMILY MEMBERS BELOW AND CIRCLE 'ADULT' OR 'CHILD' (under 18)

(Circle one) **Adult OR Child** _____ DATE OF BIRTH: ____/____/____

(Circle one) **Adult OR Child** _____ DATE OF BIRTH: ____/____/____

(Circle one) **Adult OR Child** _____ DATE OF BIRTH: ____/____/____

Please let the Membership Chairperson know as soon as any changes occur in the above information!

Names, addresses and phone numbers are provided to the Club Treasurer, Membership Chairperson and Board Members.

>>OTHER THAN THE ABOVE, PVG&MC DOES NOT SHARE YOUR PERSONAL INFORMATION<<

Give this completed form and your payment to the Treasurer or mail to: **PVG&MC, P.O. Box 134, Puyallup, WA 98371**

For Expedited processing mail to: **Jillian Higgins c/o PVG&MC, 22509 120th St. Ct. E. Bonney Lake, WA 98391**

*** NEVER SEND CASH THROUGH THE MAIL *** Make checks payable to: **PVG&MC** ***

[Upon receipt of this form with payment, a membership card will be created for you and be available by email, or mailed upon request.]

As a member of the Puyallup Valley Gem & Mineral Club, I agree to abide by the rules of the Rock Hounding Code of Ethics and the BY-LAWS of the Puyallup Valley Gem & Mineral Club.

Member's Signature: _____ Date: _____

Official Use Only:	Membership #: _____	Card Issue Date: ____/____/____	Roster Entry Date: ____/____/____
Amount: \$ _____	<input type="checkbox"/> Cash <input type="checkbox"/> Check [# _____]	<input type="checkbox"/> Credit Card	Receiver's Initials: _____ Email Date: ____/____/____

Created by Universal Document Converter

Revised September 4, 2021

Puyallup Valley Gem & Mineral Club

Membership Application

*** PLEASE PRINT LEGIBLY ***

Web Site: <http://puyallupvalleygemandmineralclub.com>

ANNUAL MEMBERSHIP DUES: ▶ Single - \$20.00 ▶ Family (2 or more) - \$26.00
 [Dues are due October 1st for the next calendar year and half price beginning July 1st for the current year]

YEAR: 2022

FOR FAMILY MEMBERSHIPS, ALL INDIVIDUALS MUST LIVE AT THE SAME RESIDENCE

1) (Circle one) **Adult** OR **Child**

Name: First Name ->
 Last Name ->

DATE OF BIRTH: / /

2) (Circle one) **Adult** OR **Child**

Name: First Name ->
 Last Name ->

DATE OF BIRTH: / /

3) (Circle one) **Adult** OR **Child**

Name: First Name ->
 Last Name ->

DATE OF BIRTH: / /

4) (Circle one) **Adult** OR **Child**

Name: First Name ->
 Last Name ->

DATE OF BIRTH: / /

Additional Family members? Check here --> and use an additional Application to add more family members.

Address:

City: State: Zip: -

Primary Email:

Primary Phone: - - Cell Phone: - -

Please let the Membership Chairperson know as soon as any changes occur in the above information!

Names, addresses and phone numbers are provided to the Club Treasurer, Membership Chairperson and Board Members.

>>OTHER THAN THE ABOVE, PVG&MC DOES NOT SHARE YOUR PERSONAL INFORMATION<<

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As a member of the Puyallup Valley Gem & Mineral Club, I agree to abide by the rules of the Rock Hounding Code of Ethics and the BY-LAWS of the Puyallup Valley Gem & Mineral Club.

How did you hear about our Club?

Member's Signature: Date:

Official Use Only:	Membership #: <input type="text"/>	Card Issue Date: <input type="text"/>	Roster Entry Date: <input type="text"/>
Amount: \$ <input type="text"/>	<input type="checkbox"/> Cash <input type="checkbox"/> Check [# <input type="text"/>	<input type="checkbox"/> Credit Card	Receiver's Initials: <input type="text"/> Email Date: <input type="text"/>

Clubhouse report

Tony Johnson

The clubhouse will be closed for half the month of December. Our instructors will get a nice break and we will be able to do some necessary repairs to the facility and the equipment, as well as the grounds. If you are available to help with the work, please let Tony Johnson know by email ynotopals@outlook.com or by phone (253) 863-9238.

A big **THANK YOU** to all the instructors who have helped teach classes this last year. The club would not be able to work as well as it does without you.

Holiday Party Lapidary Competition Announcement

Our holiday potluck and gift exchange / party is approaching !

Saturday, December 11th 2021

All things Lapidary made in the last year, by you! There are three categories that you can enter.

- Jewelry: Silversmithing, Wire Wrap, Beading (around cabs), etc.
- Lapidary: Intarsia, Polished Cabs, Polished Slabs, etc.
- Misc. Ornaments, Gem Tree's, Carved Stone, etc.

There will be a sign in sheet and designated area for you to place your anonymous work for judging by the Club Members present that night. Please remember: Only one entry per category. Do not put your name on the entry.

Prizes are Certificates that can be used dollar for dollar at the April 2022 Auction or to purchase Raffle tickets at the 2022 Club Show. Prize amounts are as follows for each category;

- 3-First place prizes @ \$10.00 each
- 3-Second place prizes @ \$5.00 each
- 3-Third place prizes @ \$1.00 each

If you win first prize in all three categories you would walk away with \$ 30.00 to spend at the April Auction or on Raffle Tickets at the Club Show next June.

Start working on your entries for the contest now or submit something you made in the last year. Please bring items to the Grange around 5:00pm so we can get the items marked and out for display.

Field Trip Recap

Dennis Batchelor

The Field Trip to Joyce was cancelled so there is no recap to report.

December's field trip to the Rice Museum is well worth the drive if you have not been there before. Very easy access to the building and the displays are the best you will see on the West Coast.

Diopside

A pyroxene mineral found in igneous and metamorphic rocks. A minor gemstone.

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



Chromium Diopside: A gemmy green specimen of chromium diopside from the the Outokumpu copper-zinc in Finland. This specimen measures 6.5 x 6.2 x 2.9 centimeters in size. Specimen and photo by Arkenstone / www.iRocks.com.

What is Diopside?

Diopside is a [rock-forming pyroxene mineral](#) with a chemical composition of $MgCaSi_2O_6$. It occurs in [igneous](#) and [metamorphic rocks](#) at many locations around the world.

Gem-quality crystals of diopside are faceted into attractive [gemstones](#) that are occasionally seen in commercial jewelry. Granular diopside can be easily cut and polished. When it has an attractive color, it is sometimes used as an ornamental stone.

Perhaps the most important use of diopside is its value as an indicator mineral in the search for [diamonds](#). Trail-to-lode prospecting using diopside and other indicator minerals has found [diamond deposits in Canada](#), the [United States](#), Africa, and other locations.

Diopside has potential uses in the glass and ceramics industries, but the mineral usually occurs in accumulations that are too small or impure for effective mining.

Physical Properties of Diopside

Chemical Classification	Silicate.
Color	Grayish white, light blue to purple, light green to vivid green, brown, black.
Streak	White to light green.
Luster	Vitreous, sugary, earthy.
Diaphaneity	Opaque, translucent, transparent.
Cleavage	Two distinct directions, at 87 and 93 degrees; imperfect; prismatic.
Mohs Hardness	5.5 to 6.5
Specific Gravity	3.2 to 3.5
Diagnostic Properties	Cleavage, monoclinic crystal form.
Chemical Composition	$MgCaSi_2O_6$
Crystal System	Monoclinic.
Uses	Gemstone, diamond indicator mineral, potential industrial use in ceramics.

Geologic Occurrence of Diopside

The most common occurrence of diopside at Earth's surface is as a primary mineral in [olivine-rich basalts](#) and [andesites](#). In these rocks it can be present in quantities of a few weight percent.

Diopside also forms during contact metamorphism of [limestones](#) and [dolomites](#). Most of the crystalline diopside used to cut faceted [gems](#) and the granular diopside used as ornamental stone occurs in these carbonate deposits.

Diopside is much more abundant in Earth's mantle than at the surface. Evidence for this is diopside as a common mineral in ophiolites, and diopside as a common mineral in kimberlites and [peridotites](#) that were formed during deep-source [volcanic eruptions](#).

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](#).

Diopside as a Diamond Indicator Mineral

Most diamonds found at or near Earth's surface were delivered from the mantle during deep-source volcanic eruptions. These diamonds occur in vertical igneous structures known as pipes, which are often composed of kimberlite or peridotite.

These pipes are difficult to locate. Their surface exposure is usually covered with soil and vegetation, and it might be only a few acres in size. The pipes are often found by searching soils and sediments for mineral grains that are characteristic of the pipe but absent in local surface materials. Small particles of chromium-rich diopside are bright green in color, are often abundant in the pipes, and are easy to recognize in surface materials.

Geologists use these green diopside fragments to locate the pipes. They know that the fragments are liberated as the pipe weathers, then scattered by the actions of [mass wasting](#), streams, and [glaciers](#). When diopside fragments are discovered, the geologist knows that they originated up-slope, up-stream, or up-ice from the location in which they were found.

A trail of diopside fragments can lead the geologist to the pipe from which they were weathered. This activity, known as "trail-to-lode" prospecting, finds many diamond pipes and an even larger number of pipes without diamonds.

Note: It would be almost impossible to locate pipes by looking for diamonds. Diamonds make up such a small fraction of the overall rock in the pipe, and weathering debris from the pipe is then mixed into local rock debris. An exceptional pipe might contain a couple carats of diamond per ton!





Chrome Diopside Gem: A faceted stone cut from chrome diopside mined in Russia. This gem is approximately 1.2 carats in weight and about 7 millimeters by 5 millimeters in size.

Chrome Diopside Beads: Rondelle-shaped beads cut from bright green chrome diopside mined in Russia. The beads range in size between 3 and 5 millimeters in diameter.

Chrome Diopside

Some crystals of diopside contain enough [chromium](#) to give them a rich green color. These can be cut into beautiful faceted stones, beads, and cabochons. The appearance of these stones is best when they are under two carats because the material is often dark or strongly saturated.

Chrome diopside is occasionally seen in commercial jewelry. It has a rich green color that enables it to serve as an alternative gem for [emerald](#) at a significantly lower price. Diopside is rarely treated, unlike emerald which is often treated with various materials to seal and hide fractures.



One problem with chrome diopside is its durability. It has two directions of perfect cleavage and a [Mohs hardness](#) of only 5.5 to 6.5. This gives it a risk of being scratched or broken. The gem is best used in earrings, necklaces, brooches, and other items that will not be subjected to abrasion or impact.



Even though chrome diopside is very attractive, there are barriers to it becoming a popular gem that is widely seen in jewelry. First are the durability concerns described above; second is that the jewelry-buying public is not familiar with diopside; and, third is the fact that a reliable supply of commercial stones in calibrated sizes has not been developed.

Star Diopside: A black star diopside cabochons exhibiting four-ray stars. They are slightly magnetic, indicating that the silk is probably magnetite crystals. These cabochons are approximately 8 millimeters across, and we paid less than \$30 for the pair.

Star Diopside

Some diopside crystals are filled with microscopic needle-shaped inclusions that occur in a parallel alignment through crystal structure of the mineral. This network of parallel inclusions is known as a "silk." When this diopside is cut en cabochon, the parallel needles of the silk can reflect light much like how light is reflected from a spool of silk thread.

A silk with one direction of needle alignment will produce [chatoyance](#), also known as a cat's eye. Silk with two or three directions of needle alignment will produce asterism. Two directions produces a four-ray star, and three directions produces a six-ray star.

In star diopside there are two directions of needle alignment, producing a four-ray star. The star is often strong and straight in one direction and weaker and slightly wavy in the second. A thin white or silver star on a jet black cabochon is characteristic of star diopside.

For the star phenomena to appear, the rough must be oriented so both silk directions and the flat bottom of the cabochon are all aligned in the same plane. In addition, the top of the cabochon must be symmetrically cut. Without this precise cutting, the star will be off-center. If the directions of the star do not intersect at 90 degrees, it is not a result of poor orientation of the rough during cutting. The directions of the silk do not intersect at precisely 90 degrees.

The mineral needles that form the silk are known in some instances to be [magnetite](#). They are sometimes abundant enough to make the cut gems slightly magnetic. If you approach them slowly with a magnet, the gems will move before the magnet touches them. The needles in some non-magnetic gems can be [rutile](#) or [ilmenite](#). A silk made up of heavy mineral crystals gives star diopside a higher specific gravity than other specimens of diopside.

Star diopside is one of the least expensive gems with obvious asterism. Small cabochons (6 or 8 millimeters) with a clear star can often be purchased for under \$30. Larger stones or those with exceptional stars will sell for a lot more. They are a nice way to obtain a star gem without paying the high cost of star sapphire.

Star diopside has a hardness of just 5 1/2. This makes it easy to scratch if used in a ring, bracelet, or cufflinks. Small stones are best used as earrings. Rare large stones can make nice pendants.



Violane: A rarely-seen variety of diopside is violane. It is usually a blue to purple material that is cut into beads and cabochons. The photo shows a cabochon and a piece of rough from the Khakassia area of Russia. This cabochon is approximately 38 x 28 millimeters in size.

Violane

Some diopside formed during the contact metamorphism of dolomite or limestone has a granular texture similar to [marble](#). This material is known as "violane." It is often white, gray, light blue, lilac, or purple in color. Violane accepts a bright polish and is sometimes used to make

cabochons, beads, and ornamental items. Violane is a rare material in nature and almost never seen in commerce.

Diopside as an Industrial Mineral

Diopside has potential uses in ceramics, glass-making, biomaterials, nuclear waste immobilization, and fuel cell technology. Unfortunately, natural diopside is rarely found in deposits that simultaneously have a size, purity, and location that allows economic mining. This makes synthetic diopside cost-competitive with diopside produced by mining.

Geographic Distribution of Diopside

Gem-quality chrome diopside and violane are mined in limited amounts in Siberia, Russia. Most of the chrome diopside used in jewelry today comes from a few locations in Siberia. Small occurrences of chrome diopside are also known in Austria, Brazil, Burma, Canada (Ontario and Quebec), Finland, India, Italy, Madagascar, Pakistan, South Africa, Sri Lanka, and the United States (New York), but none of them produce regularly or in significant quantities.

COMMUNITY SUPPORTERS

 <p>SOUTH HILL RV SALES <i>Family Owned & Operated</i></p>	<p>South Hill RV Sales</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 www.southhillrv.com</p>
 <p>RICE MUSEUM OF ROCKS & MINERALS</p>	<p>Rice Museum of Rocks & Minerals</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 Info@ricenorthwestmuseum.org www.ricenorthwestmuseum.org</p>
<p>H & I Lapidary</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 99th Street, Tacoma, WA 98446 Yankees_Diesel@comcast.net</p>

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

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 or the WA Mineral Council at:

HAPPY BIRTHDAY

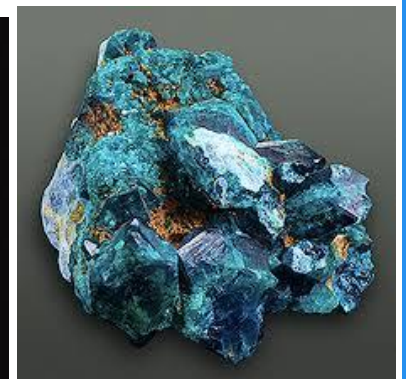
December 2021

Madeline Bills – 1st
 Janessa Spicer – 1st
 Luca Bonifacio – 2nd
 Leroy Keener – 2nd
 Jeff Holman – 2nd
 Kasen Yeaman – 3rd
 Paulette Garibaldi – 4th
 Judy Urschel – 5th
 Amy Coubertier – 6th
 Sandra Sakura – 8th
 Mischka Sakura – 10th
 Aniylan Fluker – 11th
 Cisco Gonzalez – 13th
 John Cornell – 14th
 Don Coats – 17th
 Debbie Schmidt – 19th
 Mike Wendt – 19th
 Dick Diedrich – 20th
 Michael Otis – 20th
 Jason Buddle – 21st
 Kaylin Vrieze – 21st
 Chris McCann – 22nd
 Renera Barnes – 24th
 Leisa Strickland – 26th
 Ashley Gonzalez – 27th
 Allen E. Dobson – 28th
 Ariana Butin – 28th
 Austin Pleas – 28th

MINES AROUND THE WORLD

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

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|--------------------|----------------------|-------------------|
| 1. ALIABAD | 11. CULLINAN DIAMOND | 21. PAPACHACRA |
| 2. ANAHI | 12. ELIZABETH BAY | 22. PATANINO |
| 3. ANDAMOOKA | 13. ITABIRA | 23. RONDU |
| 4. ANTONIO PEREIRA | 14. JAGDALEK | 24. SAKAVALANA |
| 5. BAKHI | 15. KORAT | 25. SALINAS |
| 6. BEDFORD | 16. LEMSHUKA | 26. SAN MIGUEL |
| 7. CARMELITA | 17. LINYAUNG | 27. TANZANITE ONE |
| 8. CHIVOR | 18. MARRUA | 28. TSAVO |
| 9. COOPER PEDY | 19. MUZO | 29. WESSELS |
| 10. COSCUEZ | 20. NARSIPATNAM | 30. WONDER WELL |



ROCK-A-TEER

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Gem & Mineral Club

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