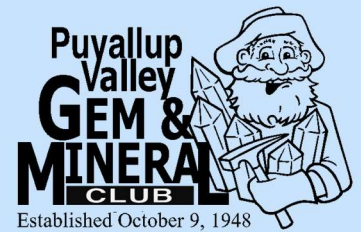


ROCK-A-TEER



Newsletter of the Puyallup Valley Gem & Mineral Club

Jillian Higgins

Issue 36

Volume 89

January

2021

THIS ISSUE

President's Perspective P.2
Field Trip Report P.2
Tentative Club House Schedule P.3
Association Directors Report P.4-6
Club House Report P.6
New Club House Rules P.6
Article: Toxic Crystal and Stone List P.7-9
Community Supporters P.9
From the Bench P.10
Sunshine Report P.10
Mineral of the Month P.10
2020 Show and Tell P.11
2020 Officers and Chairs P.12
Word Search P.13
Happy Birthdays P.13

President's Perspective

Tony Johnson

I would like to start by saying I hope everyone had a Great Christmas, and I hope you have an equally wonderful New Years.

We are working on installing new carpet at the club house and getting a new saw up and running, so there should be some new goodies for people to enjoy when we are able to open the club house back up.

I am hoping we will be able to get together soon and will be able to get back to our kind of normal.

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

January 16 – No Field Trip

No Field Trip Due to weather and access

February 20 – No Field Trip

No Field Trip Due to weather and access

Please remember that even though we love to meet new people, fieldtrips are a member benefit and part of your membership dues covers you for injury liability. Though injuries are rare, and we do everything we can to avoid them, we are going out into nature, and uncontrollable environment.

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

Field Trip Recap

Dennis Batchelor

Nothing to Report, field trips cancelled by mandate.

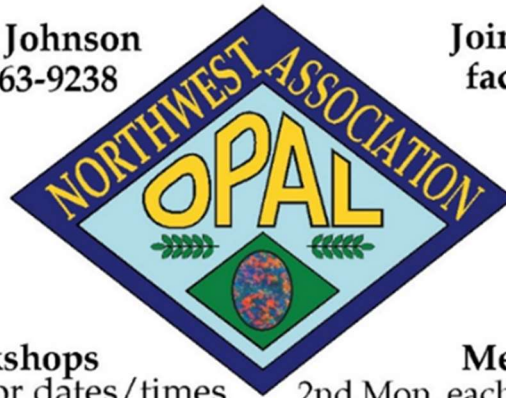
TENTATIVE JANUARY 2021 CLUB HOUSE SCHEDULE

DATE	DAY	TIME	ACTIVITY	LOCATION	INSTRUCTOR
1	Friday	CLOSED DUE TO GUBERNATORIAL PROCLAMATION			
2	Saturday		Holiday - New Years		
3	Sunday		Holiday - New Years		
4	Monday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
5	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	Jim Christian
		7:00PM	Club Board Meeting	Fruitland Grange	Jim Christian
6	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
7	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
8	Friday	7:30PM	Club Business Meeting	Fruitland Grange	Tony Johnson
9	Saturday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
10	Sunday				
11	Monday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		7:00PM-8:00PM	Opal Club Business Meet.	Club House	Tony Johnson
12	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	Jim Christian
13	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
14	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
15	Friday				
16	Saturday	No Field Trip	No Field Trip	Field Trip	Dennis Batchelor
		10:00AM-2:00PM	Silversmithing Beginner Part II	Club House	Jillian Higgins
17	Sunday				
18	Monday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
19	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	Jim Christian
20	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
21	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
22	Friday	7:30PM	Club Program Night	Fruitland Grange	Tony Johnson
23	Saturday	10:00AM-2:00PM	Gem Trees	Club House	Teresa Rodrick
24	Sunday				
25	Monday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
26	Tuesday	4:00PM-8:00PM	Members Workshop	Club House	Jim Christian
27	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
28	Thursday	4:00PM-8:00PM	Members Workshop	Club House	Tony Johnson
29	Friday				
30	Saturday	10:00AM-2:00PM	Opal Cutting	Club House	Tony Johnson
31	Sunday				
Tony Johnson (253) 863-9238			Jillian Higgins (253)355-3146	Dennis Batchelor (360) 870-8741	
Jim Christian (253) 720-9502				Glen Ripper (253) 508-7545	

As of the publication of this schedule Pierce County is still in Phase 2 and is open on an appointment basis only. As soon as we enter into Phase 3 the club house will be allowed to open with limited conditions.

Tony Johnson
253-863-9238

Join us on
facebook



Workshops
call for dates/times

Meetings
2nd Mon. each month

ASSOCIATIONS DIRECTOR'S REPORT FOR JANUARY 2021

WA STATE MINERAL COUNCIL (WSMC): <https://mineralcouncil.wordpress.com/>

This is the link to the website which contains the latest/December Newsletter. No notices requiring heightened awareness or responsive action(s) to be taken by Puyallup Valley Gem & Mineral Club at this time.

The last newsletter was in December (Quarterly). The next meeting will be January 19, 2021?



WSMC 1220.pdf

Bob Pattie, WSMC Trustee, sent out the following information:

What to expect in 2021 regarding usage of our public government land?

A recent article by Lynda V. Mapes in the Sunday Times (11/22/2020) discussed the following topics.

From reintroduction of the grizzly bear to its wild North Cascades redoubt to attacking climate change, a wide range of environmental policies could see a new direction in the Pacific Northwest under a Biden administration.

This article included the below item and went into more detail in other areas, at this time I am going to discuss the grizzly bears. The parts of this report that is a direct extraction from the article in the paper it is italicized.

Endangered species: The Biden administration could reverse the withdrawal of federal Endangered Species Act protection for the gray wolf; reconsider listing for the wolverine; restart reintroduction of the grizzly bear to the North Cascades region; and restore effects due to climate change as criteria for listing and critical habitat designation. Robb Krehbiel, Northwest representative for the nonprofit Defenders of Wildlife, said the Trump administration's on-again, off-again stance on grizzly reintroduction exemplified policymaking that was not based in science.

"This is the last native carnivore still missing from the Cascades," Krehbiel said. "Bringing the grizzly back home would just be huge to restoring this ecosystem." The bears help maintain open, alpine meadows surely as a rototiller, as they dig in the ground with their big claws and muscular backs for insects, roots and small mammals, such as marmots and ground squirrels, said Bill Gaines, an independent biologist based in Leavenworth, who has worked on grizzly recovery since the 1980s. Grizzly reintroduction also would restore the natural balance of animal life in the North Cascades with likely cascading effects, Gaines said in Yellowstone National Park, for instance, reintroduction of grizzly bears and wolves resulted in a redistribution of elk from riverbanks, allowing vegetation and birds to come back to those areas. Similar effects could happen if the grizzly were recovered in one of the few areas suited to them in the Lower 48: the more than 6.5 million acres of wild, open area comprised of the North Cascades National Park and parts of several national forests, Gaines said.

Just like the last time we studied the grizzly bear situation; I see very little science to base the reintroduction of Grizzly Bears in Washington State. The last one seen was what was thought to have been in Washington was on the Canadian-U.S. border and that was in 1996. The supporter of this project seen to be the people that are tour guides and photographers hoping to see a grizzly (1 of the 2 planted the first year) and still be far enough to be safe. Also they seem to be opening the area for the bears to include the land between the Canadian border and Snoqualmie Pass (I-90) that in a National Forest (an area where a lot of people live and work. We need to be ready to comment if and/or when this comes up.

AMERICAN LAND ACCESS ASSOCIATION (ALAA):

<http://amlands.org/>

This is the link to the website and an attachment which contains the latest 4th Quarter Newsletter. No notices requiring heightened awareness or responsive action(s) to be taken by Puyallup Valley Gem & Mineral Club at this time



ALAA Newsletter 4th
Qtr 2020 ALAA Email.

American Lands Access Association

30 Years of Helping Recreational Rockhounding
1991-2021

ALAA - WHO ARE THEY AND WHAT IS THEIR PURPOSE?

The American Lands Access Association, Inc. represents the rockhounding interests of 325 gem & mineral clubs/societies in 47 States and the District of Columbia.

In 1991, the President of the American Federation of Mineralogical Societies (AFMS) appointed a select committee to recommend ways to make the Federation more effectively responsive to the political challenges of increasing regulation and decreasing access to public lands that state and federal land management agencies were imposing on amateur fossil and mineral collectors. The committee recommended that the AFMS form a separate 501(c)(4) organization whose primary purpose would be to promote the amateur collectors' interests in present and proposed policies, rules, regulations and legislation with State and Federal land managers, elected officials and legislators. In compliance with that recommendation, the AFMS directors voted to establish the American Lands Access Association (ALAA) in July 1992 at their convention in Brunswick, Ohio. The association is a 501 (c)(4) (non-profit) organization which means that all moneys raised by the association can go toward lobbying activity. Donations and memberships to ALAA are not tax-deductible.

The purpose of the association is to promote and ensure the rights of amateur fossil and mineral collecting, recreational prospecting and mining, and the use of public and private lands for educational and recreational purposes; and to carry the voice of all amateur collectors and hobbyists to our elected officials, government regulators and public land managers. Their work began immediately! Within days of the July meeting, Senator Max Baucus (D-MT) introduced the Vertebrate Paleontological Resources Protection Act of 1992 into the U.S. Senate. If enacted, the legislation would have ended amateur fossil collecting on all public lands managed by the Federal government except under supervision of certain degreed paleontologists in "acceptable institutions." ALAA has become an organization that is present wherever there are hobbyist and recreational users of our public lands whose interests and concerns are not being heard or are being jeopardized by proposed policy, regulation or legislation at the local, state and federal level. From defeating the Baucus Bill in 1992 to coordinating massive public protest to the proposed US Forest Service rules (withdrawn) and the Bureau of Land Management's RS (Revised Statutes) 2477 Rights-of-Way (rewritten), the ALAA has earned the respect of public officials from Washington, DC to state capitols across the country as the voice of the amateur and recreational users of public lands. The association has also formed working relationships with many other organizations fighting for private property rights and multiple use of public lands including the Blue Ribbon Coalition as well as treasure hunters, metal detectorists, fishing and hunting enthusiasts, and mining and timber interests. With this

network of contacts, the Association reaches into every State and into every Congressional District in the country on a national level. That network provides a swift and effective response to issues brought to our attention. On another level, many officers, directors and members of the association have developed ongoing working relationships with local, state and federal officials and legislators. This other network provides us with immediate access to and an impact on many proposals for changing regulations, policy or legislation before they become set in the concrete of implementation.

ALAA is also there when there are confrontations in the field and when proposals are made for expanding federal ownership of land such as publicizing and fighting the Heritage Corridor Act, and other attempts to establish additional wilderness areas under federal control.

-Bill Clark, PVGMC Associations Director 2020+

Clubhouse report

Tony Johnson

The new heater is installed and is putting out so much heat it will blow your mind. Thank you Jayden Schilling for his masterful installation, he angled it just right, and made sure it is wired up to code. You will be surprised at how quickly you start sheading layers.

New floor is will be done by the beginning of the new year. Thank you to Jim Christian and Dennis Batchelor for helping to install the new floor. To be honest, taking out the old flooring was the hardest part since the carpet didn't want to come up, haha.

New Club House Rules

When the clubhouse reopens it will be on a trial basis with specific requirements and conditions which are subject to change and because this is a trial, the clubhouse may again close until future notice.

Requirements and conditions:

- Members must already be qualified to use clubhouse equipment.
- Workshops & classes are limited to 4 members plus the instructor.
- Reservations must be made by using the reservation process.
- Each member is limited to one workshop or class per week.
- Each member must follow the usual sign in and payment process AND sign a Release of Liability and Hold Harmless Agreement EACH TIME the member comes to a workshop or class.
- Face coverings and social distancing are required.
- One person at a time in the saw room(s).

Other than making reservations, all comments, concerns, etc. are to be directed to Tony John, phone (253) 863-9238 or email at ynotopals@outlook.net

Crystal Healing: Toxic Crystals and Stones List

FEBRUARY 21, 2016
REIKI AND CRYSTAL HEALING

Toxic Crystal List

Some crystals may contain toxic or harmful ingredients. So please handle gently and remember to wash your hands after use. If you are creating a gem elixir please be sure to use the indirect method.

Actinolite – May contain asbestos. Not recommended for elixirs

Adamite – Contains arsenic and some copper

Ajoite – Contains aluminum and copper

Alexandrite – Contains aluminum

Amazonite – Contains copper

Atacamite – Contains copper

Aquamarine – Contains aluminum

Auricalcite – Contains zinc and copper

Azurite – Contains copper

Beryl Group – These crystals contain aluminum

Bixbite

Emerald

Aquamarine

Goshenite

Heliodor

Morganite

Black Tourmaline – Contains aluminum

Boji-stones (aka Moqui Balls, Shaman Stone, Shamanic Star Stone) – Contains some sulphur, **Pyrite** and/or **marcasite**

Bronchantite – Contains copper

Cavansite – Contains copper

Celestite – Contains strontium

Chalcantite – Contains copper

Chalcopyrite (peacock stone) – Contains copper and sulphur

Chrysocolla – Contains copper

Cinnabar – Contains mercury

Conicalcite – Contains copper

Copper – Poisonous

Covellite – Contains copper and sulphur

Cuprite – Contains copper

Dioptase – Contains copper

Dumortierite – Contains aluminum

Emerald – Contains aluminum

Fluorite – Contains fluorine

Garnet (Spessartine, Almandine, Uvarovite, Rhodolite, Hessonite) – Contains aluminum

Gem Silica – Contains copper

Galena – Contains lead

Garnierite (aka Falcondoite) – Contains nickel

Hematite – Will rust, but not toxic
lolite – Contains aluminum
Kunzite – Contains aluminum
Labradorite – Contains aluminum
Lapis Lazuli – Contains pyrite
Lepidolite – Contains aluminum
Magnetite – Will rust, but not toxic
Malachite – Contains copper
Markasite – Contains sulphur
Mohawkite – Contains copper and Arsenic
Moldavite – Contains aluminum oxide
Moonstone – Contains aluminum
Morganite – Contains aluminum
Pietersite – Fibrous form contains asbestos
Prehnite – Contains aluminum
Psionmelan – Contains barium
Pyrite – Contains sulphur
Realgar – Contains sulphur and arsenic
Ruby – Contains aluminum
Sapphire – Contains aluminum
Selenite – Although not toxic, friable; tiny shards may break o in water
Serpentine – Fibrous form contains asbestos
Smithsonite – May contain copper
Sodalite – Contains aluminum
Spinel – Contains aluminum
Spodumene (aka Kunzite) – Contains aluminum
Staurolite – Contains aluminum
Stibnite – Contains lead and antimony
Stilbite – Contains aluminum
Sugilite – Contains aluminum
Sulfur – Poisonous
Sunstone – Contains aluminum
Tanzanite – Gem variety of Zoisite. – Contains aluminum
Tiger Eye – Fibrous form contains asbestos
Topaz – Contains aluminum
Torbenite – Radioactive
Tourmaline – Contains aluminum
Tremolite – May contain asbestos
Turquoise – Contains copper and aluminum
Vanadinite – Contains vanadium
Variscite – Contains aluminum
Vesuvianite – Contains aluminum
Wavellite – Contains aluminum
Wulfenite – Contains lead and molybdenum
Zircon – Contains zirconium, radioactive
Zoisite – Contains aluminum

Radioactivity Concerns

Some forms of granite emit radon from the decay of Uranium. This is low risk.

Radioactive Gems. Artificially irradiated crystals, gems or stones may be radioactive.

Try to steer clear of the following:

Very deeply pigmented topaz

Artificially dark (almost black) smokey quartz – not Morion Quartz

Deeply colored crystals

Colored diamonds

Treated kunzite

Cultured pearls

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>

FROM THE BENCH

This is going to be a 5 part series. If you wanted to print and tape them together, I bet they would look really good on the wall of your shop!

LAPS USED TO POLISH GEMS

Hardness 6 to 7 $\frac{1}{2}$ up to, not including 8.. (The usual group for faceters)

Prepare surface on 1200 or 3000 lap (3000 excellent!)

Polish laps: lucite, Pol-A-Gem cerium oxide & alumina,
tin/lead, tin, Fast Lap, Last Lap.

Agent; cerium oxide, alumina, diamond.

Mineral examples; andalusite, beryl, danburite, iolite,
Quartz, feldspar, tourmaline, topaz, zircon, garnet.

Synthetics; titania, alexandrium, glass, GGG, others.

Next months segment: Hardness 8 to 9, to be continued...

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.

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 (253) 863-9238 or

Jillian Higgins at J.Y.Higgins@gmail.com (253) 355-3146

MINERAL OF THE MONTH



For those of you who are listed on page 13, you know better than anyone what the minerals pictured here are. For those of us who do not have a birthday in Janury, these gemstones are Garnets. Garnets come in so many colors, way more than just the beautiful blood red, of which I am a fan.

Garnets are a relatively hard silicate minerals, rating between 6.0 – 7.5 on the Mohs scale. The most common color is Red with Blue being the least common and hardest to find. There are between 6-7 types of garnets depending on where you look. They are split into two categories based on their internal structure as either a Y shape Pyralspite garnets (Almandine, Pyrope, Spessartine, & Pyrope-Spessartine combo) or X shape Ugrandite garnets (Andradite, Grossular, & Uvarovite). There are also synthetic varieties of Garnet but they are only used in a Gemstone application instead of an industrial form.

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: mineralcouncil@zoho.com

**HAPPY
BIRTHDAY**

January 2021

THE RARE, THE UNUSUAL, THE EXOTIC II

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

- | | | |
|-------------------|-----------------|----------------|
| 1. ANHYDRITE | 10. DATOLITE | 19. PHOSGENITE |
| 2. APOPHYLLITE | 11. DOLOMITE | 20. RUTILE |
| 3. BARYITE | 12. GAHNITE | 21. SANIDINE |
| 4. CELESTITE | 13. GAYLUSSITE | 22. SIDERITE |
| 5. CERUSSITE | 14. HYPERSTHENE | 23. SPHALERITE |
| 6. COBALTOCALCITE | 15. KORNERUPINE | 24. TANTALITE |
| 7. COLEMANITE | 16. LEUCITE | 25. WILLEMITE |
| 8. CROCOITE | 17. NATROLITE | 26. WITHERITE |
| 9. CUPRITE | 18. PERICLASE | |



ROCK-A-TEER

Newsletter of Puyallup Valley Gem & Mineral Club

P.O. Box 134

Puyallup, WA 98371

<http://puyallupvalleygemandmineralclub.com>