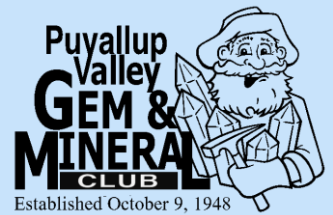


# ROCK-A-TEER



## Newsletter of the Puyallup Valley Gem & Mineral Club

Jillian Higgins

Issue 12

Volume 65

January

2019

### **This Issue**

What's Happening @ Club House P.2  
Field Trip Report P.2  
Club House Schedule P.3  
Club Show Update P.4  
Mystery Rock P.4  
Article: Stabilizing Procedure P.5-6  
2019 Membership Application P.7  
2019 Membership Renewal P.8  
2019 Show and Tell P.9  
2019 Officers and Chairs P.10  
Word Search P.11

P.O. Box 134, PUYALLUP, WA 98371

PVGAMC@GMAIL.COM

PUYALLUPVALLEYGEMANDMINERALCLUB.COM

(253) 987-6751

## WHAT'S HAPPENING AT THE CLUBHOUSE?

BY JIM CHRISTIAN

A couple more pieces of equipment were added to the club inventory in December. We now have another polishing wheel for cabs and such, and a 10' trim saw that needs a bit of cleaning before it can be put into use. Also, we may soon have another slab saw available, all we have to do is find a place to put it.

There are a number of things that happen around the club house that tend to go unnoticed and 2 of those things are washing towels and vacuuming. Very shortly after **Kryste Kubik** joined the club she volunteered to take on those tasks, so, Kryste, on behalf of all of those who use the club house -- thanks you so very much!

A final note. We discovered that some people responding to club house information on the web tended to be a bit confused about the phrase "open house" used in the monthly club activities schedule. So, as you can see on the January schedule, the term "open house" has been replaced with "members workshop". Only the name has changed not any of the activities.

# Field Trip Report

### January 2019

No Field Trips this Month Due to Weather.

### February 2019

No Field Trips this Month 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.

Thou 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.

Please see the membership section of the website if you want an application beforehand.

## JANUARY 2019 CLUB HOUSE SCHEDULE

DATE	DAY	TIME	ACTIVITY	LOCATION	INSTRUCTOR
1	Tuesday		Club House Closed		
2	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
3	Thursday	4:00PM-8:00PM	Cabbing	Club House	Renera Barnes
4	Friday				
5	Saturday	10:00AM-2:00PM	Members Workshop	Club House	Glen Ripper
6	Sunday				
7	Monday	10:00AM-2:00PM	Members Workshop	Club House	Bill Clark
8	Tuesday	4:00PM-8:00PM	Cabbing	Club House	Ed Knoll
		7:00PM	Club Board Meeting	Fruitland Grange	Nichole Davis
9	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
10	Thursday	4:00PM-8:00PM	Cabbing	Club House	Renera Barnes
11	Friday	7:30PM	Club Business Meeting	Fruitland Grange	Glen Ripper
12	Saturday	10:00AM-2:00PM	Silversmithing	Club House	Dave Sanderson
13	Sunday				
14	Monday	10:00AM-2:00PM	Members Workshop	Club House	Bill Clark
		7:00PM-8:00PM	Opal Club Business Meeting	Club House	Tony Johnson
15	Tuesday	4:00PM-8:00PM	Cabbing	Club House	Ed Knoll
16	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
17	Thursday	4:00PM-8:00PM	Cabbing	Club House	Renera Barnes
18	Friday				
19	Saturday	10:00AM-2:00PM	Members Workshop	Club House	Jim Christian
20	Sunday				
21	Monday	10:00AM-2:00PM	Members Workshop	Club House	Bill Clark
		7:00PM-9:00PM	Club House Committee Mtg	Club House	Jim Christian
22	Tuesday	4:00PM-8:00PM	Cabbing	Club House	Ed Knoll
23	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Wire Wrapping	Club House	Tony Johnson
24	Thursday	4:00PM-8:00PM	Cabbing	Club House	Renera Barnes
25	Friday	7:30PM	Club Program Night	Fruitland Grange	Glen Ripper
26	Saturday	10:00AM-3:00PM	Viking Weave Knitting	Club House	Renera Barnes
27	Sunday				
28	Monday	10:00AM-2:00PM	Members Workshop	Club House	Bill Clark
		7:00PM-9:00PM	Club Show Committee Mtg	Club House	Jim Christian
29	Tuesday	4:00PM-8:00PM	Cabbing	Club House	Ed Knoll
30	Wednesday	10:00AM-2:00PM	Members Workshop	Club House	Dennis Batchelor
		4:00PM-8:00PM	Opal Cutting	Club House	Tony Johnson
31	Thursday	4:00PM-8:00PM	Cabbing	Club House	Renera Barnes

**For questions about a specific class or event, contact the instructor**

Jim Christian (253) 720-9502

Ed Knoll (253) 651-7453

Dennis Batchelor (360) 870-8741

Tony Johnson (253) 863-9328

Bill Clark (360) 893-6919

Dave Sanderson (253) 572-8109

Renera Barnes rsb1224@netscape.com

Glen Ripper (253) 508-7545

# Puyallup Valley Gem & Mineral Club **CLUB SHOW**

May 31<sup>st</sup> and June 1-2<sup>nd</sup>, 2019

The Puyallup Valley Gem & Mineral Club is gearing up for the 2019 Club Show. As always, we are looking forward to an awesome turnout, wonderful vendors, and of course, our incredibly helpful club members. We will be having a Club Show committee this month and will start to ask for help with specific items. If you have helped out in a specific capacity in the past, we might be asking you to help again. Additionally, if you have anything you would specifically like to do or if you have any questions, please contact Jim Christian (253) 720-9502 or [Jimchristian\\_205@hotmail.com](mailto:Jimchristian_205@hotmail.com).

## **Can you guess what this is?**

This rock belongs to a club member, but we are not telling. Pretty cool piece.



## **Gem rough is expensive... Why? Is it really? How about some perspective.**

By Jeff R. Graham

International Gem Society Article

The correct answer is that it depends on what part of the equation you are looking at and your perspective.

Here is a story (true) that illustrates what I am talking about. I know a guy that has told me (many times, while complaining about the current cost of faceting rough, and how dealers and miners are gouging poor faceters) that in the "good old days" he bought Pariba Tourmaline for \$5/gram. This would be in the early 70's, when the mine was first producing and they were getting some nice material to market. I told him that was nice (wish I had, had the chance to buy some at that price), and asked him. "How many pieces did you buy?" "Well" he said "I only bought one or two pieces..." "Oh really?" I said "Why didn't you buy a bunch more, after all it was only \$5/gram?" He replied... "Well it was expensive. That was when five dollars was worth something, it was a lot of money." Yes. Right guys, that is my point. The price of almost anything including gemstones is relative to when you buy it. Gas was \$0.21 a gallon or less in those days and so on.

Here are a couple of observations I would make. First off this guy screwed up in a major way. He should have bought all he could afford. In fact he should have considered borrowing a little and buying all the top rough he could at the time. Of course it is too late now. Hind sight is 20/20 but it would have been a heck of an investment. My second observation is. What would he have made on this material now if he had been smart enough to buy? A killing is the answer. Pariba is selling now (2004-2005) for \$10,000.00 a carat for quality stones.

Remember he thought it was expensive then in the early 1970's at \$5/gram. Unless of course he only wanted a small profit (which he claims is only fair, after all people are gouging others on the prices of rough) in which case he could sell it for \$10/gram and double his money today. Sound fair? I am willing to buy every piece of Pariba he has to sell at \$10/gram sight unseen at that price. Uh huh, what do you think? Pariba is selling for \$3,000 to \$10,000 per carat cut, in today's market and it sells fast if it is quality material. If this guy, who could have bought Pariba at \$5/gram had some to sell now. What price would he be wanting for it??? Do you think that maybe he would want more than \$10/gram? Would he be gouging or just making the fair market price? I bet he would not sell it for \$10/gram, and I would not expect him too.

By the way this same guy cuts a lot of CZ and told me not too long ago that he was selling his cut CZ at \$80 to \$150 per stone. Well I personally think that is a fair price knowing how much work cutting a stone is. But if he wants to not "gouge" his customers. Then why is he charging \$100 for a piece of cut CZ that he only paid \$.05/carats for? Sounds like price gouging by his definition to me. People can buy commercial cut CZ for \$.20/ct easily.

Perspective. In reality. There is labor in cutting, but also mining and cleaning, grading, and selling rough too. It all takes time and money. Not counting investment of capitals and lots of other costs I will not go into. What is the perspective? Like I said it depends on where you are standing. When the shoe is on the other foot I doubt that this guy above would be willing to sell Pariba Tourmaline for \$10/gram with a \$5/gram profit margin (100% by the way) when he could get up to \$10,000.00/ct in today's market.



That is assuming he was smart enough to buy some then for investment. He was not, by the way.

Here is another example. Recently I saw a post where a guy was complaining about the cost of a rough blue Sapphire, \$600 for a piece of rough that was 6.5 carats or so. This person thought that the price was high, (gouging was their word for it) and really expensive. Well maybe, and then again maybe not. If you thought it was expensive, read on there are a few questions that you should have asked instead of assuming that it was price gouging. Of course if the rough was not good quality, then yes it was too expensive. But this is true on any rough. I have not seen this particular piece of rough so this is just a hypothetical situation I am writing about. I am not implying anything about anybody or thing.

Questions. What color blue, Ceylon? Top quality blue? Is it clean? Is it well shaped? How many carats will it cut? Here is the most important question. Can I make money on it? You should be asking yourself all of these questions first. Not is it too expensive. If the answer to most of these questions was yes. Then you should buy it quick and say thank you to the nice guy that is selling it to you. Remember he could cut it easily and sell it for more money if it is good rough. In most cases that is what happens to the good rough. That is why it is hard to get.

Here is a reality check, the wholesale price of quality blue Sapphire is \$400.00 to \$1800.00 per carat (or more depending on the locality and size of the stone). That is the going rate at the AGTA (I was just there checking the prices). That is wholesale, usually a jeweler will double that cost (yes it is common, and if you knew what a jeweler's overhead was, you would wonder how they can make money just doing that). So if that piece of Sapphire rough was \$600.00 and you could cut 2 carats out of it, then conservatively you could make \$800.00, a \$200.00 profit. Odds are you would do a whole lot better. What if you got \$600.00 per carat for it? You would make \$600.00 on the stone, unless of course you do not want to gouge and sell it for less. What do you think? Sound like a good deal? So was that price gouging? Like I said perspective... and of course depending on the quality of the rough.

Here are a few of my personal observations. You may or may not agree with me, but these are my opinions. Top quality rough is always expensive, or seems so at the time you buy it anyway. I think that all the time when I buy it, and I buy a lot. But down the road you will say "man I used to buy Pariba for \$5/gram..." Think about that the next time you look at some top rough and think it is expensive. My advice is, do not be a cheap skate and just buy one piece. How embarrassing to admit later that you could have bought all that Pariba for \$5/gram and did not do it. I would hate to admit it and still be kicking myself for being stupid. The serious guys/faceters are buying rough not griping and complaining. Especially about the "good old days". As my father used to say the "good old days" were not always that good and they are gone. Serious cutters are asking themselves the questions I listed above and if they come out with enough "yes" answers they are buying all the rough they can get. If you snooze you lose. Good rough is hard to come by if you think about it too long you will miss the opportunity, especially if the price is reasonable.

# 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 1<sup>st</sup> for the next calendar year and half price beginning July 1<sup>st</sup> for the current year]

**YEAR:** **2019**

**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:  -  -

Names, addresses and phone numbers are provided to the Northwest Federation of Mineralogical Societies (NFMS) for membership as well as the Club Treasurer, Membership Chairperson, and Newsletter Editor.

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

How do you want to receive the Club's monthly newsletter? Website:  US Mail:   
 How do you want to receive the NW Federation newsletter? Website:  US Mail:

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

Give this completed form and your payment to the Treasurer or mail to: PVG&MC, P.O. Box 134, Puyallup, WA 98371  
 \*\*\* 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 at the next meeting, or mailed upon request.]

As a member of the Puyallup Valley Gem & Mineral Club, I agree to abide by the rules of the American Federation of Mineralogical Societies (AFMS) Code of Ethics and the BY-LAWS of the Puyallup Valley Gem & Mineral Club.

How did you hear about our Club?

I have read, understand, and will abide by the *Conditions of Membership* as stated in the new member information packet.

Member's Signature:  Date:

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

# Puyallup Valley Gem & Mineral Club

## Membership Renewal

\*\*\* PLEASE PRINT LEGIBLY \*\*\*

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

<b>ANNUAL MEMBERSHIP DUES:</b> ▶ Single - \$20.00   ▶ Family (2 or more) - \$26.00 <small>[Dues are due October 1<sup>st</sup> for the next calendar year and half price beginning July 1<sup>st</sup> for the current year]</small>	<b>YEAR:</b> <span style="border: 1px solid black; padding: 2px 10px;"><b>2019</b></span>
---	---

**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:  /  /

**Names, addresses and phone numbers are provided to the Northwest Federation of Mineralogical Societies (NFMS) for Membership as well as the Club Treasurer, Membership Chairperson, and Newsletter Editor.**

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

How do you want to receive the Club's monthly newsletter?      Website:       US Mail:

How to you want to receive the NW Federation newsletter?      Website:       US Mail:

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

**Give this completed form and your payment to the Treasurer or mail to: PVG&MC, P.O. Box 134, Puyallup, WA 98371**  
\*\*\* 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 at the next meeting, or mailed upon request.]

**As a member of the Puyallup Valley Gem & Mineral Club, I agree to abide by the rules of the American Federation of Mineralogical Societies (AFMS) 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:

Office Use Only:	Membership #: <input style="width: 100px;" type="text"/>	Roster Entry Date: <input style="width: 50px;" type="text"/> / <input style="width: 50px;" type="text"/> / <input style="width: 50px;" type="text"/>
Amount: \$ <input style="width: 100px;" type="text"/>	<input type="checkbox"/> Cash <input type="checkbox"/> Check [# <input style="width: 50px;" type="text"/>	Treasurer's Initials: <input style="width: 100px;" type="text"/> Card Issue Date: <input style="width: 50px;" type="text"/> / <input style="width: 50px;" type="text"/> / <input style="width: 50px;" type="text"/>



## 2019 SHOW & TELL THEMES and PROGRAM NIGHT EVENTS

MEETING	DATE	SHOW & TELL THEME	PROGRAM NIGHT EVENT
January – 1 <sup>st</sup> Meeting	January 11, 2019	Fortification Agates + any field trip finds	
January – 2 <sup>nd</sup> Meeting	January 25, 2019	Thundereggs, Geodes, & Nodules + any field trip finds	Carlson Jewelry Store, Carl Carlson
February – 1 <sup>st</sup> Meeting	February 8, 2019	Heart-Shaped & Red Material + any field trip finds	
February – 2 <sup>nd</sup> Meeting	February 22, 2019	Pink and Lace + any field trip finds	To Be Determined
March – 1 <sup>st</sup> Meeting	March 8, 2019	Green Minerals + any field trip finds	
March – 2 <sup>nd</sup> Meeting	March 22, 2019	<b>No Show &amp; Tell</b>	Jerry's Rock & Gem Shop
April – 1 <sup>st</sup> Meeting	April 12, 2019	Creaks & River Materials + any field trip finds	
April – 2 <sup>nd</sup> Meeting	April 26, 2019	<b>No Show &amp; Tell</b>	Auction/Potluck
May – 1 <sup>st</sup> Meeting	May 10, 2019	Rocks only a Mother Could Love + any field trip finds	
May – 2 <sup>nd</sup> Meeting	May 24, 2019	Fossils, Meteorites, & Pocket Rocks + any field trip finds	To Be Determined
June – 1 <sup>st</sup> Meeting	June 14, 2019	Club Show Purchases + any field trip finds	
June – 2 <sup>nd</sup> Meeting	June 28, 2019	Petrified Wood + any field trip finds	Jerry's Rock & Gem Shop
July – 1 <sup>st</sup> Meeting	July 12, 2019	Crystals & Silversmithing + any field trip finds	
July – 2 <sup>nd</sup> Meeting	July 26, 2019	<b>No Show &amp; Tell</b>	Tailgate Party @ Grange Parking Lot
August – 1 <sup>st</sup> Meeting	August 9, 2019	Fair Entries and Wire Wrapped Items + any field trip finds	
August – 2 <sup>nd</sup> Meeting	August 23, 2019	<b>No Show &amp; Tell</b>	Picnic & Tailgate Party at Swiss Park on Saturday
September-1 <sup>st</sup> Meeting	September 13, 2019	Polished Slabs + Field Trip Finds	
September-2 <sup>nd</sup> Meeting	September 27, 2019	No Show & Tell	Mini Lapidary Demonstrations
October-1 <sup>st</sup> Meeting	October 11, 2019	Obsidian & Opals + any field trip finds	
October-2 <sup>nd</sup> Meeting	October 25, 2019	<b>No Show &amp; Tell</b>	Auction/Potluck
November-1 <sup>st</sup> Meeting	November 8, 2019	Fall Colors & Faceted Stones + any field trip finds	
November-2 <sup>nd</sup> Meeting	November 22, 2019	<b>No Show &amp; Tell</b>	BINGO Night
December – 1 <sup>st</sup> Meeting	December 14, 2019	<b>No Show &amp; Tell</b>	Holiday Banquet/Officer Installation on Saturday
December – 2 <sup>nd</sup> Meeting	<b>No Meeting</b>	<b>No Show &amp; Tell</b>	

## 2019 Elected Officers

Title	Name	Phone	Email
President:	Glen Ripper	(253)508-7545	glen311944@yahoo.com
Vice President:	Nichole Davis	(253)466-7090	ayckb0urn@yahoo.com
Secretary:	Teresa Rodrick	(253)531-4062	gtrodi@comcast.net
Treasurer:	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Federation Director:	Bill Clark	(360)893-6919	clarkwa@comcast.net
1 Year Director:	Paul Giese	(253)219-6168	steelhdfsh@yahoo.com
2 Year Director:	Karen Lebeter	(253)983-9093	lebeterk@gmail.com
1 Year Trustee:	Glenn Rodrick	(253)531-4062	gtrodi@comcast.net
2 Year Trustee:	Tony Johnson	(253)863-9238	

## 2019 Committee Chairs

Title	Name	Phone	Email
Club House Coordinator	Jim Christian	(253)720-9502	Jimchristian_205@hotmail.com
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	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Library	Vacant		
Membership	Larry Hoffman	(253)922-9182	lhoffman1@comcast.net
Sunshine	Vacant		
Newsletter	Jillian Higgins	(253)355-3146	J.Y.Higgins@gmail.com
Mineral Council	Tony Johnson	(253)863-9238	

The Puyallup Valley Gem & Mineral  
 Club is a member of the Northwest  
 Federation of Mineralogical Societies  
 and affiliated with the American  
 Federation of Mineralogical Societies.  
[www.amfed.org/nfms](http://www.amfed.org/nfms)



## ANOTHER BLING THING

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

- |                 |                |               |
|-----------------|----------------|---------------|
| 1. ATTRACTIVE   | 13. GEMSTONE   | 24. SCATTER   |
| 2. AURA         | 14. GLITTER    | 25. SETTING   |
| 3. BEAUTY       | 15. HUE        | 26. SHEEN     |
| 4. BLING        | 16. INCLUDED   | 27. SHIFT     |
| 5. BRILLIANT    | 17. LUSTER     | 28. SPARKLE   |
| 6. CLEAR        | 18. MYSTIQUE   | 29. SYNTHETIC |
| 7. COLOR CHANGE | 19. NATURAL    | 30. TINT      |
| 8. ENHANCE      | 20. PLEOCHROIC | 31. TONE      |
| 9. FACET        | 21. RARITY     | 32. UNIQUE    |
| 10. FIRE        | 22. REFLECT    | 33. WARMTH    |
| 11. FISSURE     | 23. SATURATION | 34. ZONING    |
| 12. FLAWS       |                |               |

Do you or someone you know have a collection of rocks and/or equipment and you don't know what to do with it??? Puyallup Valley Gem and Mineral Club can help. Contact Tony Johnson (253) 863-9238 or Jim Christian (253) 720-9502 for information or advice.

HAPPY  
 BIRTHDAY!

### January 2019

Edward Knoll 1<sup>st</sup>  
 Mark Baumann 4<sup>th</sup>  
 Kathy Dirks 7<sup>th</sup>  
 Jonathan Fraser 10<sup>th</sup>  
 Dora Poehler 12<sup>th</sup>  
 Robert Sandefur 14<sup>th</sup>  
 Mich Dezanowski 18<sup>th</sup>