



# *the CMS Tumbler*

October  
2017

The monthly newsletter of the **Cascade Mineralogical Society, Inc.** Kent, Washington

*Next Meeting:*  
*October 12, 2017*  
*7:00 p.m.*

**American Legion Hall  
25406 97th Pl S  
Kent, WA**

The Program will be Joan of Jerry's Rock Shop giving a talk on "Buyer Be Aware When Buying Rocks and Minerals" and other interesting things.

The Show & Tell Theme is a rock, gem or fossil you are exceptionally proud to own. Also if you entered anything in the 2017 Puyallup Fair bring it and show us what you entered and if you won any ribbons.



*This month remember  
to wish a  
Happy Birthday to  
Keith Alan Morgan on October 11,  
Andrew Lengenfelder on October 14,  
Fred Thompson on October 30,  
and also remember  
to wish a  
Happy Anniversary to  
Andrew & Faye Lengenfelder on October 17*



This publication is an official bulletin of the Cascade Mineralogical Society Inc. (CMS).

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Tips, suggestions, recipes and experiments printed in this newsletter are the experiences and/or opinions of the individuals submitting them. We are not responsible for their authenticity, safety, or reliability. Caution and safety should always be practiced when trying out any new idea.

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Rich Russell  
14431 SE 254th St.  
Kent, WA 98042

*Keith Alan Morgan, Editor*

Postal, or Email, Exchange  
Bulletins are welcome.  
Email preferred.  
morgangraphix@yahoo.com

## 2017 Elected Officers

### Title & Name

President Kat Koch  
Vice President Diana Horsfall  
Treasurer Richard Russell  
Secretary Pete Williams  
Director Roger Pullen  
Director Mark Hohn  
Past President Bob Pattie

### Email Address

president@cascademineralogicalsociety.org  
  
  
  
  
showchair@cascademineralogicalsociety.org

## 2017 Committee Chairs

### Title & Name

Cascade Show Mark Hohn  
Cascade Show Co-Chair Kat Koch  
Club Historian  
Donations Kat Koch  
Federation Representative Michael Blanton  
Federation Representative Kat Koch  
Field Trip Tony Johnson  
Health & Welfare Bev Williams  
Library Bob Pattie  
Membership Mark Hohn  
Mineral Council Bob Pattie  
Mineral Council Jacquie Pattie  
Newsletter - Tumbler Editor Keith Alan Morgan  
Open Shop Instructors Bob Pattie  
Public Relations Kat Koch  
Refreshment Diana Horsfall  
Raffle/Display Stanley Loreen  
Shop Operations Bob Pattie  
Show & Tell Michael Blanton  
Webmaster Mark Hohn

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2018 CMS Dues are \$30 per year per family  
Pay online, by mail, or at our meetings.  
*Mailing Address: Richard Russell*  
*14431 SE 254th St.*  
*Kent, WA 98042*

You can pay your dues via credit card! We now accept all cards through our website, or at the meeting. You can renew your membership, or enroll as a new member, and pay your dues all in one shot online. You will find it under the "Membership" tab on our website <http://www.cascademineralogicalsociety.org>

The object of the Society shall be to stimulate interest in the study of the earth sciences, lapidary arts and related subjects.

This Society is affiliated with the *American Federation of Mineralogical Societies*; the *Northwest Federation of Mineralogical Societies*; and the *Washington State Mineral Council*.

Every member of the club should be receiving a copy of the Northwest Newsletter. If you are not receiving a copy contact Mike Blanton

To get information to the Tumbler via the Internet send it to [morgangraphix@yahoo.com](mailto:morgangraphix@yahoo.com) Please put Tumbler and subject in the Subject Line. The deadline is the 20th of each month.

The Cascade Mineralogical Society Facebook page is <https://www.facebook.com/CasMinSoc/>  
The Cascade Gem & Mineral Show Facebook page is <https://www.facebook.com/cascadegemandmineralshow/>



October



SUN	MON	TUE	WED	THUR	FRI	SAT
1	2	3	4	5	6	7 Marysville Show
8 Marysville Show	9 Board Meeting 7 PM 	10	11	12 General Meeting 7 PM 	13	14
15	16	17 Lapidary Shop	18	19	20	21 Chipper Mine Trip
22	23	24	25	26	27	28 Lapidary Shop Bellevue Show
29 Bellevue Show	30	31	 happy halloween			

Lapidary Class Hours:.....Closed until further notice  
 Lapidary Shop Hours:.....3rd Tuesday..... 4:00 pm to 8:00 pm  
 Lapidary Shop Hours:.....4th Saturday..... by appointment (call a few days ahead to set time)

CMS Board Meeting:.....Monday before the General Meeting.....7:00 pm to 8:00 pm  
 CMS General Meeting:.....2nd Thursday.....7:00 pm to 9:00 pm

More Field Trip info can be found on Page 7  
 More Show info can be found on Page 8

**Son of Mr. and Mrs. Rockhound**

by KAM



**CMS Board Meeting Minutes September 9, 2017** 

by Pete Williams, 2017 Secretary

*Members Attending:**President Kat Koch**Treasurer Rich Russell**Secretary Pete Williams**Federation Mike Blanton**Director Roger Pullen*

Meeting called to order at 7:04

*Members Absent:**Vice President Diana Horsfall**Past President Bob Pattie**Director Mark Hohn*

Kat expressed concern that at the fair the Puyallup Club members were not putting the CMS brochures out on the table as well as the table top sign. This is necessary to advertise our club and we were asked to participate to help fill time slots.

The board agreed on a proposal for bidding increments at all club auctions to help the auctions go faster. They are: Up to \$5 = \$.25; \$5 to \$10 = \$.50; \$20 to \$50 = \$1.00; Over \$50 = \$5.00.

One new member signed up for a total of 46 families. A page for the Cascade Gem and Mineral Show has been started on the website and Facebook. The field trip to Little Naches is likely to be canceled due to the fires.

Set up for the 2018 show will begin at noon on Friday. We will put a \$500 down payment soon. A motion was made and seconded to open a separate show checking account. It passed with unanimous Board approval. \$1000 will be used from savings to sign the venue contract and to open the new checking account. (\$500 to Green River College and \$500 to open account.) Members will need to be cutting slabs for sale at the silent auction. Total cost of the facility for the 2.5 days will be \$2658.

There is a craft show coming in November that we requested having a courtesy table to advertise our club. All Board positions are up for election this year except for 1 Directors' position. Final nominations will be in November with officers voted in December. There has been a good response on lapidary displays at the Washington State Fair. This means those categories will continue to be included in the fair. More help will be needed in 2018 to get good speakers and programs for our monthly meetings.

The next meeting will be October 9 at Panera Bread in Kent.

Meeting adjourned at 8:26

**2018 Cascade Gem and Mineral Show October Update** by Mark Hohn, Show Chair

We have signed a contract with Green River College and paid a deposit for the venue. I have been working on the Show page on the CMS website and have added some new photos of the venue. I am working on adding a show booth selector and ordering shopping cart on the website. Vendors will be able to purchase single or multiple booths on line. We have drafts of the vendor contracts we are finalizing and will be available for download on the website in the next few weeks. Lots of behind the scenes details being discussed and finalized. The Show page can be found at: <https://www.cascademineralogicalsociety.org/cascade-gem-mineral-show/> Check out the show page to see the awesome venue we have reserved. If you know of potential vendors let Kat or I know. We are compiling a mailing list of potential vendors and will add anyone interested in being a vendor. We hope to send out invitations to vendors in the next few weeks.

If you have any questions feel free to contact Kat or I, our contact information is below. Thanks

Date of show: September 22-23, 2018 Setup will be on Friday Sept 21, 2018.

Venue: Green River College Student Union Building.

The facility is a new building with huge windows and plenty of light. Green River is working up a contract for our review, signature and deposit.

Current needs: We are gathering a list for volunteers. You can sign up on the website at: <https://www.cascademineralogicalsociety.org/cascade-gem-mineral-show/> This page also has the show layout floor plan.

I would like to find someone to help with the social media and show promotion. If you have any experience in this area please let me know.

Kat has volunteered to assist with the vendor invitations and recruitment. If you know of a vendor that might be interested please let Kat or I know so we include them in our invitation mailing.

Demonstrations: We are reserving space for demonstration during the show. If you or someone you know might be interested in doing a demonstration session please let me know. I am also looking for someone to coordinate the demonstrations for the show. Kids area: We need someone to help define and setup the events that we will have during the show for children. If you have ideas or suggestions please let me know.

How to keep up to date on our progress.

Facebook: Cascade Gem and Mineral Show page; <https://www.facebook.com/cascadegemandmineralshow/>

CMS Facebook Page: <https://www.facebook.com/CasMinSoc/>

Our Website: <https://www.cascademineralogicalsociety.org/cascade-gem-mineral-show/>

Thanks for reading this far and hope you are as excited as we are for this show. It will be a great way to connect to our community and add new members.

Mark Hohn CMS Show Chair 253-332-3736 [showchair@cascademineralogicalsociety.org](mailto:showchair@cascademineralogicalsociety.org)

Kat Koch CMS Co-Chair President@cascademineralogicalsociety.org

**CMS General Meeting Minutes September 14, 2017** 

by Pete Williams, 2017 Secretary

Meeting called to order at 7:12. 1 new member was in attendance.

Minutes were approved as written.

**Tumbler Editor:** Still looking for articles for the Tumbler.

**Webmasters Report:** A 360 degree view of the Green River CC facility is available on the club website. The website is getting lots of hits recently. There were a total of 228 different people viewing the site.

**Treasurer's Report:** Any dues paid next month will also apply to 2018.

**Shop Reports:** The machines are all up and running. There were some visitors using the shop recently. Some time has been spent cleaning up the library. There are many VHS tapes needing disposition.

**Field Trip Report:** The September trip to Little Naches is canceled due to the fires. The October trip may be to the Clipper mine looking for azurite, chrysacolla, and copper. The November trip could be to the Mayfield dam, a new site, looking for agate. The 3rd Saturday in December will possibly be a field trip to the Rice Museum in Oregon.

**Mineral Council:** Bob met with 2 Mountain to Sound executives to hear the viewpoint of rockhounds. They first explained what their organization is all about including that it is not an additional layer of administration. They have been getting inputs from rockhounds and listened to our input. They will send someone to the next Mineral Council meeting. Their organization covers coordination of many stakeholders from the Puget Sound to highway 97 (Blewitt Pass). Many people have donated to their cause.

**Show Committee:** The date of our show has been changed to September 22-23, 2018 because school starts the following week and we would not be able to setup until after 3:00. Volunteers are needed for public relations and social media. Kat has contacted New Day NW and they showed some interest.

**Old Business:** We enrolled one new member last month for a total of 46 families.

**New Business:** The club may start a capping class. Let Kat know if you are interested. The whole Board with the exception of one director position is up for election. Contact any Board member if you are interested in a position. Nominations will be complete by November with elections held in December.

We will be needing a new field trip chair. Contact Kat if you are interested.

**Program:** Karrissa Smith from the Renton Office of Emergency Management gave a presentation on the Geology of Cascadia.

Meeting adjourned at 8:29 followed by the raffle.

**Displays:**

Bob Pattie - Material of Mountain to Sound Greenway.

Tony Johnson - Red Top Mayfield Dam material.

Michael Blanton - Opal rough.

Leonard Bahr - Faceted corundum.

Scott Thomasson - Agates and crystals from Naches and Wenatche

Rich Morgan - Different quartzes, Ellensburg blue, Holly blue, and a piece of petrified wood.

**Fair Lapidary News** by Kat Koch

The Fair had a large amount of entries for Lapidary this year. Therefore, they have decided to keep the Lapidary category/class, revamp it's categories/classes and give Lapidary more room to display the entries. Thanks to everyone that displayed this year. Now remember we have to do this again next year.

**Show Display vs. Fair Display** by Keith Alan Morgan

You'd think having done 4-H displays many, many years ago I would have remembered how the Fair does things, but I didn't. When it came to figuring out what to display for the Fair I found myself thinking of how we set-up display cases at a show, which is usually grab a bunch of stuff to set up in a case and move it around until it looks good, then close up the case. At the Fair, you bring in stuff to be judged and afterwards, fair officials place it in a display case, so it's best to have it pre-selected and possibly mounted so loose stones won't get lost or misplaced. Something to remember for next year.

**Young Richard's Almanac** by Dick Morgan

History is not only the past, it is our life, and our future, if it is read correctly.



We are saddened to announce the passing of longtime club member Shirley Stewart, wife of Paul Stewart. They both joined back when our club was called the Boeing Employees' Mineralogical Society. She was a very pleasant woman and our condolences go out to her husband Paul.

**A Note From The President's Desk...**

By Kat Koch, 2017 CMS President

Thank you to everyone that helped out at our booth at the Puyallup Fair! We have already received inquiries about our Club and expect to see a few guests and possibly new members attend our October meeting. These PR events are very important as they provide a way to get the word out about our Club. New members keep our Club growing and healthy, provides us with fresh new ideas and interests to pursue and a membership base large enough to have various classes.

At the Fair I have been able to spread the word that our Club does presentations to schools. I have spoken to 3 PTA's and several home school programmers. Hopefully we will hear from some of them this school year.

If I am reelected President this December it's my goal to start a children's program in the near future.

Talking about election of Officer's, our election is coming up this December. President, Vice President, Secretary, Treasurer and one Director are up for election. So your choice of what position you would like to fill is wide open. It only requires you attending one additional meeting each month: a Board meeting on the Monday prior to the General.

We also need 2 non-Board positions filled: Historian and Youth Program Leader.

Nominations are open from now and until our November meeting. The ballot will be presented at our November meeting. Voting will be held at our Holiday dinner in December. So everyone seriously think about throwing your hat in the ring for one of these positions. We are always looking for new volunteers and ideas for our Board. If you are interested let any Board member know, at a meeting or via email, what position you would like to run for.

**12 Interesting Facts About Rocks and Minerals**

by Kat Koch

There are about 4,000 known minerals on the Earth.

All rocks are made of two or more minerals, but minerals are not made of rocks. A mineral is the same all the way through.

Diamonds (a mineral) are the hardest natural substance found on earth.

Rubies (a mineral) are the most popular gemstone today.

Geodes (a rock) are plain balls of igneous or sedimentary rock on the outside, but contains a hollow cavity filled with crystals on the inside.

Thunder eggs (a rock) are plain balls of rhyolitic lava on the outside generally the size of a baseball (although they can be found from very large to very small), but have a solid cavity of various deposited minerals forming unique intricate patterns and colors.

Gold (a mineral) is so soft and easily worked that you could roll an ounce of it into a hair-thin wire 50 miles long. The biggest pure-gold nugget was found in Australia in 1869 and weighed 156 pounds.

Quartz (a mineral) is one of the most common minerals on earth.

Turquoise (a rock) is the first recorded use dates back to 5000 BC in Mesopotamia where people used the gemstone to make beads.

Jade (a rock) because of its toughness has been used for centuries as cultural things like hammers, fish hooks, and stone axes

Pumice (a rock) is the lightest rock. It's so light it can float on water. There is a pumice island or raft floating on the ocean near Tonga. This happened after a volcanic eruption occurred in Tonga in 2006.

Basalt (a rock) can be found on the Moon, Venus, and Mars. It also happens to be the most common rock on the Earth's surface and makes up large parts of the oceans floor.

**Treasure Troves of Dino Footprints Turning up in China** by Jim Brace-Thompson

35-year-old paleontologist Xing Lida (the same guy who reported a fossil bird in amber) is leading a dinosaur renaissance in China focused on dinosaur footprints and trackways. To date, he's mapped more than 100 sites in nearly every province. Per Canadian fossil footprint expert Richard McCrea, Xing "is essentially building the comprehensive framework for fossil track studies for China, where before there were only a few sporadic reports." And he's doing it fast, publishing papers at a rate of once a month or more. Why the hurry? In a country undergoing rapid industrialization, Xing often finds himself moving one step ahead of the bulldozers. When one developer learned of a trackway Xing intended to map and to study, work crews were sent in to break up the entire field to avoid delays in the building schedule. Recent books have come out about Chinese dinosaurs, Chinese fossil birds, and other Chinese fossil and mineral wonders. Watch for a book on Chinese fossil footprints to join the list!

from Rockhound Rambling, 7/17

Most radioactive materials do not glow in the dark. However, some radioactive metals either glow from internal heat or else release radiation that reacts and produces visible light. Examples of radioactive metals that glow include plutonium (red from heat), radon (yellow to orange to red), and actinium (blue).

via Golden Spike News, 7/16; from Petrograph, 6/16

## Field Trips

The club or clubs sponsoring the field trips are shown in italics. When known I have listed a phone number and contact person for each sponsoring club below the listed trips. If you are not a member of the sponsoring club, you should phone and ask permission to go on their field trip.

Information from the Washington State Mineral Council webpage (<http://www.mineralcouncil.org>).

***October 21***     *Marysville Rock Club - Skykomish* - Meet at the Jack in the Box downtown Monroe (not the one West of town) before 9:00 am - Picture Jasper - Bring digging tools. Collecting along bars and in the river.  
*Ed Lehman wsmced@hotmail.com (425) 334-6282 or (425) 760-2786*

### October 21, 2017 CMS Field Trip - Clipper Mine

We will be exploring the tailings pile of the abandoned Clipper Mine out past Carbonado in Pierce County. We will be looking for Copper, Azurite and Chrysacolla.

Meet at the Rosie's IGA Market (closed) behind the Chevron Station, 29393 WA-410, Buckley, WA 98321

Our Field trip guide is Tony Johnson (253-863-9238). The group will leave promptly at 9 am. So don't be late.

You will need hand tools: hand pick, small shovel, scoop, plastic bucket or backpack. Sturdy hiking shoes. It's an easy 1/4 mile hike with slight elevation from the road to the mine.

We will NOT be entering the mine as it's too dangerous. Rock hunting is confined to the tailings pile only as it still has a lot of good stuff in it. The kids will also enjoy climbing up and down the pile looking for rocks.

If it has not been raining it can be a little muddy when hiking to the site as we cross a couple of very small creeks. If it has been raining it will definitely be muddy along the way.

We did this field trip last year and it was so much fun. Everyone went home with something.

A little bit of history on the Clipper Mine:

The Clipper mine is located in the Carbon River Mining District of Pierce County WA at an elevation of 3823 feet. The first discoveries in the district were around 1898. The Clipper was part of the Surprise group of claims dating to around 1901. The Leola Mining Company drove the Clipper tunnel using three shifts of men. They were following a lead copper ore vein that at the opening was a 15 inch width and eventually grew to a 15 foot vein. Assays showed \$43 a ton in copper, silver, and gold after 380 feet of tunnel had been run.

The Clipper mine had also been known by the name Mother's Day mine at some point in it's history as well. The workings of the mine consist of 1200 feet of tunnel with several short crosscuts or horizontal branches.

Here is a link to the website with pictures. <http://www.ghosttownsofWashington.com/clipper-mine.html>



### New Test For Mineral Hardness!!!!

You're out in the mountains, near Tarry-All Creek. You see a sparkly clear crystal in the water and pull it out. How do you tell if it topaz and not quartz? Without using a quartz crystal to test the hardness?

Dry it off, wipe it clean with a cloth to remove all grease, and then drop a drop of water (that's right good H<sub>2</sub>O!) on it from an eyedropper or soda straw.

Watch the water bubble. On stones 7 or less in hardness, the water drop will disperse! On harder stones it will form a globule. The harder the stone, the bigger the globule!

The principle is called "cohesion." The water drop "pulls" together on a hard surface. The greater the difference between the surface tension of the water and the stones, the bigger the water globule.

via The Franklin County Rockhounder, 7-8/17; via 2012 S.C.R.I.B.E.; via The Mountain Gem, 8/11; via Breccia, 6/11; from Gem Cutters News, 3/11

Ever heard of Cactus Quartz, Spirit Quartz, or Pineapple Quartz? Well, all three terms refer to quartz crystals where smaller crystals have grown on the faces of a larger quartz crystal and cause it to resemble a cactus or pineapple.



# Shows



**October 7 & 8:** Saturday & Sunday 10 am - 5 pm  
 Marysville Rock and Gem club, 43rd Rocktoberfest  
 Totem Middle School Cafeteria  
 7th Street and State Avenue  
 Marysville WA

**October 13 - 15:** Friday & Saturday 10 am - 6 pm; Sunday 10 am - 5 pm  
 Portland Regional Rock and Gem Show, 37th Annual  
 Washington County Fair Complex  
 873 NE 34th Ave  
 Hillsboro, Oregon

**October 28 & 29:** Saturday 9 am - 5 pm; Sunday 10 am - 5 pm  
 Clackamette Mineral & Gem Club, 52nd Annual Show  
 Clackamas County Fairgrounds  
 694 NE 4th Ave  
 Canby, Oregon

**October 28 & 29:** Saturday 10 am - 6 pm; Sunday 10 am - 5 pm  
 Bellevue Rock and Gem Club, Octoberfest of Gems Annual Show  
 Vasa Park  
 3560 W Lake Sammamish Pkwy SE  
 Bellevue, WA



## Internet Addresses

Northwest Federation of Mineralogical Societies  
<http://northwestfederation.org>

A free comic about geomagnetism  
<https://geomag.usgs.gov/publications/comicbook/GeomagComic.pdf>

USGS Twitter Account for Mineral News  
<https://twitter.com/USGSNewsMineral>

KAM Books  
<http://www.lulu.com/spotlight/KAMbooks>



### Seven Rocky Planets in One Solar System? by Jim Brace-Thompson

The journal Nature recently reported the discovery of the Trappist-1 System, a solar system 40 light-years from our own that apparently includes seven earth-sized rocky planets orbiting their star within the “Goldilocks zone” that would allow for liquid water and, hence, the possibility of life. This has gotten scientists into all sorts of sputterfilled excitement. Says Boston University professor Philip Muirhead, “Of all the planets we’ve found, this has risen to the top as the most exciting (for) the potential of studying habitability.” But I say, forget water and habitability. The main point of this story is seven ROCKY planets in one solar system! When do we plan the first rock-collecting field trip??

from Rockhound Rambling, 3/17

### One Long Belch for Mars! by Jim Brace-Thompson

I don’t know how they come up with these determinations, but per a report in the journal Science Advances, a 7-ounce meteorite from Mars found five years ago in Algeria has provided evidence that a massive volcano on Mars erupted continuously for no less than 2 billion years. That’s one long belch!

from Rockhound Rambling, 3/17