

# the CMS Tumbler

March 2018

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

Next Meeting: March 8, 2018 7:00 p.m.

American Legion Hall 25406 97th Pl S Kent, WA

The Program will be Joan, Co-Owner of Jerry's Rock Shop, speaking on everything from rocks and minerals in general to being aware of fakes and not getting scammed.

The Show & Tell Theme is an item from your collection that is not from the northwest.

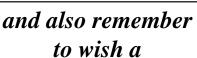






\*

This month remember to wish a Happy Birthday to Jacqueline Pattie on March 31,





Happy Anniversary to

<u>John & Brenda Haworth</u>

<u>on March 28 (54 years)</u>









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

### **2018 Elected Officers**

Title & Name	Home Phone	Email Address
President Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Vice President Diana Horsfall	206-818-9507	dianahorsfall@comcast.net
Treasurer Richard Russell	253-736-3693	richru1@yahoo.com
Secretary Pete Williams	425-228-5063	petewill02@gmail.com
Director Roger Pullen	206-387-3214	june.d.muff@boeing.com
Director Roger Danneman	425-228-8781	roger.danneman@q.com
Past President Bob Pattie	425-226-3154	bobpattie@comcast.net
Show Chairman Mark Hohn	253-332-3736	showchair@cascademineralogicalsociety.org
Federation Representative Michael Blanton	425-271-8757	mblanton41@hotmail.com
Federation Representative Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Mineral Council Bob Pattie	425-226-3154	bobpattie@comcast.net
Mineral Council Jacquie Pattie	425-226-3154	dianahorsfall@comcast.net

### 2018 Show Committee Chairs

Cascade Show Mark Hohn	253-332-3736	showchair@cascademineralogicalsociety.org
Cascade Show Co-Chair Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Cascade Show Treasurer Pete Williams	425-228-5063	petewill02@gmail.com
Cascade Show Silent Auction Michael Blanton	425-271-8757	mblanton41@hotmail.com
Cascade Show Raffle Donations Michael Blanton	425-271-8757	mblanton41@hotmail.com
Cascade Show Demonstrators Richard Russell	253-736-3693	richru1@yahoo.com

### 2018 Committee Chairs

Club Historian		
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Field Trip Roger Danneman	425-228-8781	roger.danneman@q.com
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Refreshment Angie Bayer	253-631-3840	angiemc61@msn.net
Raffle/Display Roger Pullen	206-387-3214	june.d.muff@boeing.com
Shop Operations Bob Pattie	425-226-3154	bobpattie@comcast.net
Show & Tell Michael Blanton	425-271-8757	mblanton41@hotmail.com
Webmaster Mark Hohn	253-332-3736	showchair@cascademineralogicalsociety.org

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 <a href="http://www.cascademineralogicalsociety.org">http://www.cascademineralogicalsociety.org</a>

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 in person or by telephone at (425) 271-8757 or by computer at **mblanton41@hotmail.com** 

To get information to the Tumbler via the Internet send it to **greenrockdraggin@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/







# March







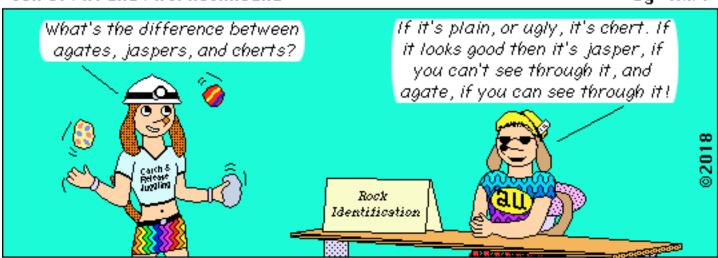
SUN	MON	TUE	WED	THUR	FRI	SAT
At the end of the rainbow you can find a pot o'gold		M 👸	which seems like a big flaw in Leprechaun security!	1	2	3 East KingCo Show
4 East KingCo Show	Show Meeting 6:30 PM Board 7 PM	6	7	General Meeting 7 PM	9	10 North Seattle Show
North Seattle Show	12	13	14	15	16	17 <u>Baker Lake</u> <u>Trip</u>
18	19	20	21	22	23 Spokane Show	24 Spokane Show
25 Spokane Show	26	27	28	29	30	31

CMC Doord Mostings Monday Morch 5 7,00 pm to 9,00 pm

More <u>Field Trip</u> 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 February 5, 2018



by Pete Williams, 2018 Secretary

Members Attending

Vice President Diana Horsfall
Secretary Pete Williams
Past President Bob Pattie
Director Roger Pullen
Treasurer Rich Russell
Mineral Council Jackie Pattie
Show Chair Mark Hohn
Director Roger Daneman

Meeting called to order at 7:23

Program for the General Meeting will be map reading by Bob Pattie with maps available for viewing. Bob suggested changes to the order in how officers are listed in the Tumbler. He will make a recommendation.

Possible uses of income from the show would include building up the savings for a future permanent club location, providing a scholarship to GRCC, or making a donation to the Boy Scouts if they participate.

There will be a Mineral Council meeting on March 18 for club field trip chairs to plan the yearly field trips. The CMS program for May will be rocks collected from WA state field trips. A potential future program could be what are the responsibilities and accomplishments of the Mineral Council. A faceting demo in the Fall is another possibility.

The next show committee meeting will be at 7:00 on March 5 at Green River Community College followed by the Board meeting.

Meeting adjourned at 8:28

# CMS Show Meeting Minutes February 5, 2018

by Pete Williams, 2018 Secretary

Meeting called to order at 6:33

All but one of the large interior booths has been sold. The college has been asked about getting more space. So far, we have 11 vendors. Mark did a test promotion on Facebook for \$20. That generated 100 likes. He is drafting thank you letters and sending flyers to all the vendors.

One demonstrator has committed to show wire wrapping and do gem ID. One other demonstrator is currently a maybe. Ideas for other demonstrators were a geologist to do mineral ID and getting the author of the new "Roadside Geology of Washington" book to do a book signing.

The Boy Scouts have been contacted to support for volunteer hours. Girls Scouts were mentioned as a possibility also. Roger D. will coordinate the display cases and create a sign-up sheet.

#### **Lapidary Shop & Classes** by Bob Pattie

Lapidary Classes - by appointment, usually the classes will be one or two people at a time and will depend on other users of the equipment. Days available will be flexible, so call to set a time/day for your lesson. (425-226-3154)

Lapidary shop usage - Most Tuesdays, 2 pm to 5 pm, I would suggest that you call to be sure it is open that Tuesday. (425-226-3154)

Other days are also available, so call to check.

The third Saturday of each month, I will try to be available, I would suggest you call a couple days in advance to be sure to reserve a spot and to be sure the shop will be open. (425-226-3154)

# Young Richard's Almanac by Dick Morgan

In everyone's life comes a time when you want to tell the story of your life. Hopefully you've lived a life where you can tell the truth.

The most common reason to write your life story is to leave your footprint in history to show others your impact on life.

Irish legend tells of little people who can change a person's life for good or ill, which is symbolic of the effects one person can have on others.

# The "Morphs" by Bob Rush

A Pseudomorph occurs when an original mineral such as aragonite or barite dissolves and is replaced by another mineral such as quartz. If a mineral such as aragonite or barite that has grown in a cavity or fracture is coated by a new mineral such as agate or quartz as a film, preserving the shape of the original mineral it is called an Encrustation Epimorph (meaning "outer form"). The coated mineral (aragonite or barite) is called an Endomorph (meaning "inner form"). If the endomorph later dissolves away leaving hollow cavities they are known as Perimorphs.

via Golden Spike News, 1/18; from Ghost Sheet, 9/16

## CMS General Meeting Minutes February 8, 2018



by Pete Williams, 2018 Secretary

Meeting called to order at 7:09

Minutes were approved as written.

**Treasurer's Report:** Doing well financially. There is enough reserve to put on the show.

**Tumbler Editor:** Accepting more articles.

**Webmaster's Report:** We are getting about 500 views per month

**Shop Reports:** Both saws are now operational. Be sure to call for an appointment to use the equipment.

Field Trip Report: A list is being worked on for this year. The next trip is February 17 at Walker Valley.

<u>Mineral Council:</u> A reminder was provided to always call ahead of time for any trip to ensure the sites are open. There are several bills in the legislature regarding changing boundaries for recreational areas. Some are reducing and some are expanding. There is also a bill to expand access to the disabled in wilderness areas.

**Show Committee:** The first committee meeting was on Monday. All large interior booths have been sold. Roger D. will coordinate the display cases. Angie will coordinate obtaining rocks for the kid's area, raffles, etc. There are still 6 outdoor and 3 smaller indoor booths available and we are asking for additional space. The committee will be meeting next month at GRCC.

**New Business:** A certificate of appreciation for volunteer of the quarter was provided to Stan Loreen for his work in managing the monthly raffle.

**Program:** Maps and map reading by Bob Pattie.

Meeting adjourned at 8:14 followed by the show and tell and the raffle.

Displays:

Leonard Bahr - Faceted gems.

Roger Pullen - Opal.

Rich Morgan - Copal, selenite, opal, and meteorites.

Roger Danneman - Mineraloids, petrified wood, amber, pumice, opal, obsidian, mookeite, chrysacola, and coal.

Isaiah Fu - Rocks he had found on trips, and some he bought.

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

By Kat Koch, 2018 CMS President

Mike and I just returned from a 3 week trip to the Tucson Gem and Mineral Show. It was quite an experience and nothing of what I had expected. I am quite excited that I was able to buy several mineral specimens (that we don't usually find here in the Northwest) for the raffle at our Rock and Gem Show. In addition, courtesy of Herbert Shepard, I was able to obtain an Amethyst Cathedral for the drawing.

We really need volunteers for the Show so please contact Mark and commit to filling a position. It's 6 months away and we need volunteers now, not a few weeks before the show.

Our website, news bulletin, Keith's monthly cartoons and an original article were submitted to the NFMS/AFMS contests. We will find out how well we did at the regional federation show in Yakima, April 27 - 29, 2018. If we place anywhere in the northwest federation contest then we will be in the running at the AFMS contest. The AFMS results are revealed at the AFMS show in North Carolina. It would be such a feather-in-our-club-hat if we were place in any of these regional contests. To place nationally is beyond words.

Remember to volunteer for our show!!!!!

### Next Month Is Rock Bingo by Kat Koch

April is our Rock Bingo night meeting. Start gathering slabs, rocks, crystals, fossils, etc. to bring to Bingo night as prizes. Everyone needs to bring at least 4 or more wrapped items per person.

Did you know that in Pre-Columbian times, indigenous people in North America mined turquoise, jet, opal, copper, silver, coal, obsidian and other igneous rocks, asbestos, salt, and sodium sulfate, as well as other minerals? Turquoise, jet, opal, copper, and silver were mined mostly for decorative use. Coal was mined for fuel. Obsidian and other igneous rocks were mined to make projectile points, mortars and pestles, grinding stones, stone axes, and other tools. Clay and asbestos were mined to make pottery; salt was used as a preservative and for flavoring; and sodium sulfate was used as a purgative.

Did you know that many of the clear juices, such as apple juice, and the wines that you may drink are filtered through skeletons? The skeletons of diatoms, microscopic single-celled plants that live in fresh or sea water, are extremely intricate and are made of silica. When large numbers of these skeletons are gathered, cleaned, and packed together to form a filter, their intricate geometry will trap the very small particles that make juices or wines look cloudy.

## 2018 Cascade Gem and Mineral Show - March Update by Mark Hohn, Show Chair

Our next show committee meeting will be before the board meeting on March 5th 2018. We are working on having our next meeting and board meeting at Green River College so everyone can view and walk the venue. Show committee meeting starts at 6:30 with the board meeting after, you are welcome to attend one or both meetings. If you are interested in helping organize and plan the show please attend.

As of today, we have had 13 vendors register and purchase a total of 27 booths. We have sold all but one of our inside booths. We have one 6 x 10 space available. We still have 7 outdoor booths under a covered area that are still available. I have started discussions with the college about acquiring additional space indoors to add a few more booths. If you know of a vendor that might be interested in space have them send me an email and we will include them in our communications if we rent additional space.

Committed Vendors for our show:

Maple Tree Lapidary The Worlds Fossils and Minerals R&T Crystals Addis-sea Gemsparkley

Grand Products Co., Ltd. Tipps Gems Rare Earth Studios Candi's Jewelry and Gifts

Chiming Rock Gem Nest Turquois Jim Stone Styles Bohemian Minerals

We still need volunteers. Below is a list of volunteers that have agreed to assist and I really appreciate their support. I have also listed several areas we still could use some help in organizing and pulling the show together.

SHOW CHAIRMAN Co-Chairs: Mark Hohn & Kat Koch

SHOW COMMITTEE SECRETARY/TREASURER Pete Williams

SHOW SET-UP AND DISMANTLE MANAGER Need Help

FACILITIES Manager Mark Hohn

VENDOR MANAGER Kat Koch

DISPLAY CASES & VISUAL MANAGER Roger Danneman

**DEMONSTRATOR MANAGER Rich Russell** 

SILENT AUCTION & CLUB SALES MANAGER Mike Blanton

YOUTH AREA COMMITTEE MANAGER Roger Pullen / June Murff

WEBSITE/PROMOTIONS MANAGER Mark Hohn

DOOR PRIZE AND SCHOLARSHIP RAFFLE MANAGER Need Help

ELECTRICAL, LIGHTS & SOUND MANAGER Need Help

PARKING & SIGNAGE MANAGER Need Help

COMMUNITY OUT-REACH MANAGER Mark Hohn

**ROCK WRANGLER Angie Bayer** 

We cannot have too many volunteers! If you want to assist in any area above reach out to myself, Kat or the person listed above for the area you're interested in. As we get closer to the show we will schedule the actual positions and help needed during the show.

The current Show page can be found at: https://www.cascademineralogicalsociety.org/cascade-gem-mineral-show/ If you know of potential vendors you can direct them to our show page for detail an registration information.

The Show page is updated as vendors register so you can see the location of vendors in the facility. Vendors are announced on the show Facebook page https://www.facebook.com/cascadegemandmineralshow/ The Facebook page is a good place to keep updated with news and vendor announcements prior to the show. Please like so you can stay informed.

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 September 21, 2018.

Venue: Green River College Student Union Building.

The facility is a new building with huge windows and plenty of light.

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.

Demonstrations: We are reserving space for demonstration during the show. I you or someone you know might be interested in doing a demonstration session please contact Rich. richru1@yahoo.com

Kids area: Rodger and June have volunteered to work on the kids program area for the show. If you want to help with this task please reach out to Roger or June. June.d.murff@boeing.com

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

Kat Koch CMS Co-Chair President@cascademineralogicalsociety.org

# **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).

March 17 Marysville Rock Club - Baker Lake - Meet at Forest Service at 9:00 Sedro-Woolley - <u>Jasper, Agate, Jade, Thundereggs</u> - Bring digging & hard rock tools

Ed Lehman wsmced@hotmail.com h# (425) 334-6282 c# (425) 760-2786

## Chrysanthemum Stone by Kat Koch

I just returned from the Tucson Gem and Mineral Show with a lot of questions about one of my most favorite stones: The Chrysanthemum Stone. None of the large show venues had any Chrysanthemum Stone. I found varied samples only at very small vendors in roadside tents or storage unit vendors. I came home with a lot of questions about the stones I found and why so little was available.

Why does the look of the stone vary so much? The main source of this stone is Yonghe Sepiolite Mine, Liuyang Co., Changsha Prefecture, Hunan Province, China. The look of the stones and mineral composition varies depending on the strata location they are found.

Classic Chrysanthemum Stone: Celestine and Calcite. This stone looks like a painted flower on a black rock.

The Chrysanthemum stone was formed millions of years ago when a deposition of a thick strata of mud that was rich in organic materials occurred at the bottom of a sea. Calcium Carbonate (Calcite) and abundant Strontium Sulphate (Celestine) precipitated in the ooze at the bottom. As the layers were compressed, these sediments were buried by continuous deposition of more mud. At these lower depths it allowed the spectacular radial growth of celestite formations, that remain as the flower patterns, against a base of black limestone.

The crystals probably grew on larger limestone surfaces as a consequence of flowing water. A small crystal could nucleate at the center of the crystal (flower). Under pressure the crystal then grows outwards from the center point creating the flower pattern.

They are considered to be of the Permian age - approx. 250 million years old.









Variation Samples of Chrysanthemum Stone: Calcite, Chalcedony and minor Dolomite which replace earlier Celestine. These stones are from different strata layers of the same mine.

Flower Stone or Stone from Vancouver Island, Canada: Gabbro Porphyry of Feldspar Crystals usually in Basalt Japanese Chrysanthemum Stone: Aragonite (or Calcite Pseudomorphs after Aragonite) in Schalstein Matrix Why does Classic Chrysanthemum Stone often look fake?

Retail specimens are often highlighted by painting of the crystal pattern with a dye to emphasize the petal pattern, which in the process obliterates some original crystal. I often saw pieces that I felt were 100% fake. To me it looked like a crystal pattern had been etched/drawn or carved out and then painted.

Why did I find so little Classic Chrysanthemum Stone available?

I was told by a vendor at the Tucson Gem and Mineral Show that the mine for Classic Chrysanthemum Stone was flooded in 2015, henceforth, very little of the Classic Chrysanthemum Stone is being mined. I have not been able to verify this though.

Bibliography: mindat.org, Fire Mountain Gems, Crystal Caves, Carina Rossner Organics, The Earth Story





# **Shows**

March 3 & 4: Saturday 10 am - 6 pm; Sunday 10 am - 5 pm

East KingCo Club, Annual Rock and Gem Show

Pickering Barn

1730 10th Ave NW

Issaquah, WA

March 10 & 11: Saturday & Sunday 10 am - 5 pm

North Seattle Lapidary & Mineral Club, 64th Annual Rock and Gem Show

Crown Hill Center

9250 14th Ave NW

Seattle, WA 98117

March 23 - 25: Friday & Saturday 10 am - 6 pm; Sunday 10 am - 4 pm

Rock Rollers Club of Spokane, 59th Annual Gem, Jewelry and Mineral Show

Spokane County Fair & Expo Center

N. 604 Havana

Spokane WA

March 31 & April 1: Saturday 10 am - 6 pm; Sunday 10 am - 5 pm Sweet Home Rock & Mineral Society, 70th Annual Rock & Mineral Show Sweet Home HS Activity Gym 1641 Long St. Sweet Home, Oregon





#### **Barite** by Dave Jacobson

The mineral we are featuring this month is barite, barium sulfate, BaSO<sub>4</sub>. Barite is an anhydrous sulfate mineral. Other anhydrous sulfate minerals are celestite (strontium sulfate) and anglesite (lead sulfate). Barite is a common gangue mineral in low to medium temperature hydrothermal veins. It is often associated with lead, silver and antimony sulfides. It is also found in cavities and pockets in sedimentary limestone's and dolomites. Barite ore is the main source of barium. Some of the main uses for barium are in radiography and oil drilling. Barium is one of the main ingredients in the drilling "mud" which is used to lubricate the bit during the drilling process.

Barite is in the orthorhombic crystal system. Colors can range from colorless, white, and variations of blue, green, yellow and red. It usually has thin to thick tabular crystals. The crystals can occur as square tablets, beveled edge tablets and prisms with a chisel tip. A "desert Rose" is a rosette of barite plates with an aggregate of sand and earth inclusions. Barite can be transparent to translucent. It is often colorless, but can be pale blue, yellow, brown and grayish. I have a yellow crystallized specimen in my collection from Elk Creek, Mead County, South Dakota. Barite "desert roses" are found in Oklahoma. Barite is a common mineral and found in many locations in the world. Barite has a hardness of 3 to 3.5 with a specific gravity of 4.3 to 4.6. Streak is white. Fracture is concoidal. One way to test for barite is the flame test. Powdered barite will burn light green in a gas flame. Celestite, strontium sulfate, burns red in the flame test. Barite gets its name from the Greek, barys, meaning "heavy". This is due to the high specific gravity of the mineral.

The following reference materials were used in preparing this article:

A Field Guide to Rocks And Minerals by Frederick H. Pough.

Mineralogy For Amateurs by John Sinkankus.

Simon & Schusters Guide to Rocks And Minerals.

The Audubon Society Field Guide to North American Rocks And Minerals

Amethyst Galleries Mineral Gallery on the Internet at http://mineral.galleries.com

via The Quarry, 5/12; from Canaveral Moonstone, 5/12

#### Burmese Amber Provides Still More Windows into the Past by Jim Brace-Thompson

Amber windows continue to surprise. Earlier this year, we saw news reports of a snippet of dinosaur tail with feathers caught in Burmese amber. The latest is a baby bird! As reported in the journal "Science", an ancient bird has been found in Burmese amber in the form of a tiny hatchling some 99 million years old from the Cretaceous Period. Remains of the little critter included a skull and neck, part of a wing, a hind limb, and soft tissue surrounding the tail.

from Rockhound Rambling, 7/17