

The CMS Tumbler



April 2023

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

Next Meeting:
April 13, 2023
7:00 p.m.

American Legion Hall
25406 97th PI S
Kent, WA

The Program is
Fluorescent Follies!

The Show & Tell
Theme is bring rocks to
see if they fluoresce!

Table of Contents

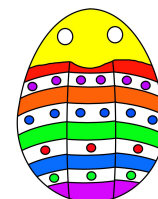
Calendar.....	5
Cartoon.....	5
Board Minutes.....	6
General Minutes.....	6
Young Richard's Almanac.....	8
Coquina.....	9
How I Became a Rockhound.....	9
Show Banner Contest.....	11
Young Tumblers News.....	13 & 14
Field Trips.....	15
March Field Trip Report.....	15
Shows.....	16



Connect with us!

Website: <https://www.cascademineralsociety.org>
Club Facebook: <https://www.facebook.com/CasMinSoc/>
Facebook Groups: <https://www.facebook.com/groups/1168207926650075>
Show Facebook: <https://www.facebook.com/cascadegemandmineralshow>
Instagram: <https://www.instagram.com/cascaderockclub/>
YouTube Channel (Please like and subscribe):
https://www.youtube.com/channel/UCaGIJxaWFatV_JjgZRm9ESA

This month remember
to wish a
Happy Birthday to
Brenda Praggastis on April 4
Megan Johnson on April 4
Penny Hohn on April 7
Riley Elliott on April 9
Kelsea Wester on April 11
Chris Norris on April 12
Kathy Hartzel on April 13
Mark Hohn on April 17
Majorie Medlin on April 17
Heidi Hermetet on April 21
Lillian Oliver on April 25
Judy Bridges on April 29



and also remember
to wish a

Happy Anniversary to
Richard & Jennifer Russell on April 23 (29 years)
John Buck & Cara Fisher on April 26



Except where otherwise noted, material from The Tumbler may be reprinted for non-commercial purposes, provided that the author(s) and source are acknowledged.

For commercial use, the author(s) must be contacted for permission; if no contact information is given, contact them via the editor.

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.

Membership Mailing Address:
c/o Ananda Cooley
1909 11th Ave. W
Seattle, WA 98119

Keith Alan Morgan, Editor
3802 W Tapps Dr. E
Lake Tapps, WA 98391

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

2023 Elected Officers

President Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Vice President Linda Jorza	206-478-1642	ljorza@gmail.com
Treasurer Ananda Cooley	206-683-7787	cascademstreasurer@gmail.com
Secretary Pete Williams	425-228-5063	petewill02@gmail.com
Director 1 – At Large Kathy Hartzell	253-277-0329	k.hartzell@yahoo.com
(Shared Position) Garry Hartzell	253-277-0329	santacruz1@yahoo.com
Director 2 - Field Trips Roger Danneman	425-228-8781	roger.danneman@gmail.com
Director 3 – Programs Paul Ahnberg	941-704-2063	runhikebird@icloud.com
Director 4- At Large Richard Russell	253-736-3693	richru1@yahoo.com
Past President Malcolm Wheeler Sr.	253-569-5185	facetguru@aol.com
Show Coordinator Christina Vitellaro	425-351-4737	bluefirtree@comcast.net
Federation Representative Michael Blanton	425-271-8757	mblanton41@hotmail.com
Federation Representative Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Mineral Council Diana Horsfall	425-226-3154	dianahorsfall@comcast.net

2023 Show Committee Chairs

Cascade Coordinator Christina Vitellaro	425-351-4737	bluefirtree@comcast.net
Cascade Co #2 Peggy Shashy	904-655-3241	14thebirds@bellsouth.net
Cascade Co #3	Vacant	
Book Display Cases Peggy Shashy	904-655-3241	14thebirds@bellsouth.net
Show Display Cases Refurbish Roger Danneman	425-228-8781	Roger.Danneman@gmail.com
Mail Flyers Ananda Cooley	206-683-7787	cascademstreasurer@gmail.com
Show Treasurer Pete Williams	425-228-5063	petewill02@gmail.com
Show Silent Auction (shared) Richard Russell	253-736-3693	richru1@yahoo.com
Show Silent Auction (shared) Noelle Barnes	206-914-0514	noelleb@outlook.com
Pre-Show Raffle Case & Donation Requests Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Show Raffle Case Display Terri Gerard	206-437-0240	eyeballgraphics2002@yahoo.com
Raffle Prize Distribution		
Show Demonstrators Richard Russell	253-736-3693	richru1@yahoo.com
Show Load In/Out		
Show Display Case Presenters Peggy Shashy	904-655-3241	14thebirds@bellsouth.net
Show Road Signs		
Show Event Volunteer Recruiter		
Show Refreshments Angie & Brian Bayer	253-569-0245	Text to her number (no email)
Spinning Wheel Angie & Brian Bayer	253-569-0245	Text to her number (no email)
Show Website Kat Koch	425-765-5408	vendorchair@cascademineralogicalsociety.org
Show Vendor Chairman Kat Koch	425-765-5408	vendorchair@cascademineralogicalsociety.org
Show Food Trucks Paul Arhnberg	941-704-2063	runhikebird@icloud.com

2023 Committee Chairs

Club Historian		
Donations Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Field Trip Roger Danneman	425-228-8781	Roger.Danneman@gmail.com
Health & Welfare Bev Williams	425-228-5063	britbev1957@outlook.com
Library Diana Horsfall	425-226-3154	dianahorsfall@comcast.net
Meeting Greeters Angie & Brian Bayer	253-569-0245	Text to her number (no email)
Meeting Programs Paul Arhnberg	941-704-2063	runhikebird@icloud.com
Membership Ananda Cooley	206-683-7787	cascademstreasurer@gmail.com
Newsletter - Tumbler Editor Keith Alan Morgan	253-316-9935	greenrockdraggin@yahoo.com
Shop Instructors (Temp) Roger Danneman	425-228-8781	roger.danneman@gmail.com
Shop Reservations Diana Horsfall	425-226-3154	dianahorsfall@comcast.net
Public Relations Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Refreshment Angie & Brian Bayer	253-569-0245	Text to her number (no email)
Raffle Master Roger Pullen	206-387-3214	Phone calls only. No email or texting.
Show & Tell Michael Blanton	425-271-8757	mblanton41@hotmail.com
Webmaster Gina Manso	425-281-3502	ginamanso51@gmail.com
Facebook Group Roger Danneman	425-228-8781	Roger.Danneman@gmail.com
Facebook Club Page Gina Manso	425-281-3502	ginamanso51@gmail.com
Instagram Gina Manso	425-281-3502	ginamanso51@gmail.com
All Other Social Media Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
West Seattle Timebank Volunteers Linda Jorza	206-478-1642	ljorza@gmail.com
Videographer – YouTube Channel	Vacant	

2023 CMS Dues are \$30 per year per family

Pay online, by mail, or at our meetings.

New mailing address: Cascade Mineralogical Society, c/o Ananda Cooley, 300 Lenora St. - PMB 6145, Seattle, WA 98121

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.

Our Club is a Member of these Federations and Associations

AFMS: The AFMS governs our Northwest Federation. <http://amfed.org/index.html>

The bulletins are published quarterly. You can find the news bulletins at <http://amfed.org/news/default.htm>



NFMS: The Northwest Federation is our home federation. To keep up on the goings-on in our own backyard. <http://northwestfederation.org/>

The link for the news bulletins is <http://northwestfederation.org/Newsletters.asp>



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

The association's purpose is to promote and ensure the rights of amateur fossil and mineral collecting, recreational prospecting, and mining. The use of public and private lands for educational and recreational purposes. They also carry the voice of all amateur collectors and hobbyists to our elected officials, government regulators, and public land managers. <http://amlands.org>

The front page also has a lot of current news, rockhounding restrictions or lack of, etc. <http://amlands.org>

ALAA also publishes a quarterly newsletter. To keep up on the news and lobby efforts on our behalf, check out <http://amlands.org/>



Washington State Mineral Council: The Washington State Mineral Council is dedicated to the location and conservation of rock and mineral sites of interest to the rockhounds of Washington state. <https://mineralcouncil.wordpress.com/>

You can find local rock and gems shows and planned field trips. It's a great resource if you want to plan on an outing.

Also check out "Misc. News" for all the latest updates on collecting sites around Washington.

<https://mineralcouncil.wordpress.com/news-updates/>

When the weather is good, they have regular monthly field trips. So take advantage of these great outdoor rockhounding adventures! The field trip details are under "Field Trips" on the left side of the site. Check out the link for additional information for the time and place to meet and the field trip leader.

You can find all this information and a whole lot more about what is happening in our state at <https://mineralcouncil.wordpress.com/>



Rockhounding Code of Ethics

I will respect both private and public property and will do no collecting on privately owned land without permission from the owner.

I will keep informed on all laws, regulations or rules governing collecting on public lands and will observe them.

I will, to the best of my ability, ascertain the boundary lines of property on which I plan to collect.

I will use no firearms or blasting material in collecting areas.

I will cause no willful damage to property of any kind such as fences, signs, buildings, etc.

I will leave all gates as found.

I will build fires only in designated or safe places and will be certain they are completely extinguished before leaving the area.

I will discard no burning material - matches, cigarettes, etc.

I will fill all excavation holes which may be dangerous to livestock.

I will not contaminate wells, creeks, or other water supplies.

I will cause no willful damage to collecting material and will take home only what I can reasonably use.

I will practice conservation and undertake to utilize fully and well the materials I have collected and will recycle my surplus for the pleasure and benefit of others.

I will support the rockhound project H.E.L.P. (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless of how found.

I will cooperate with field-trip leaders and those in designated authority in all collecting areas.

I will report to my club or federation officers, Bureau of Land Management or other authorities, any deposit of petrified wood or other materials on public lands which should be protected for the enjoyment of future generations for public educational and scientific purposes.

I will appreciate and protect our heritage of natural resources.

I will observe the "Golden Rule", will use Good Outdoor Manners and will at all times conduct myself in a manner which will add to the stature and Public Image of Rockhounds everywhere.

from the AFMS website

Our meetings are now on YouTube. The meeting will be available, at the latest, on Sunday night following the meeting. Don't forget to "Like" and "Subscribe"! [YouTube Link](#)



To get information to the Tumbler via the Internet send it to greenrockdraggin@yahoo.com Please put the word "Tumbler" and subject in the Subject Line. The deadline is the 20th of each month.

NFMS Needs Your Canceled Postage Stamps

Every year the NFMS collects postage stamps from its member clubs. They have a stamp company that buys them, and in turn, these funds are donated to cancer research. Every year NFMS donates around \$5,000.

On letters that you receive, tear the corner with the stamp off. Try to leave about 1/4" of the envelope around the stamp. Be careful not to damage the stamp. Place the stamps in a plastic baggie and bring them to the meeting. Our member, Mike Blanton, collects the stamps and turns them over to the NFMS at the regional rock and gem show. You can give them to Mike as often as you want throughout the year.

Collecting the stamps is another way we rockhounds give back to our community.



Don't Forget To Show Your Membership Card At These Retailers

The following businesses are loyal supporters of our rock club. Show your membership card at the following stores and get a 10% discount on most purchases.

Jerry's Rock Shop – 804 W Valley Hwy, Kent, WA 98032

Minerals, rough or polished rocks, lapidary machines, lapidary supplies, polishing grit, fossils, rock hounding tools, beautiful display specimens, jewelry, and much more. *Please be aware there are a few items they can't offer the 10% discount on.*

Jerry is a great supporter of our club. They make it possible to have nice door prizes at our meetings.

Blackjack Metal Detectors and Mining Equipment – 101 Park Ave N, Renton, WA 98057

They sell beautiful mineral specimens, fossils, books, metal detecting and gold panning equipment and supplies. Chris Holden is a CMS member!

New for Members Only – New Texting Service

We are busy and often forget that CMS has an upcoming meeting or event. Therefore, we have a texting service to remind members of CMS meetings and events.

Everyone is automatically entered into this service. You can opt out anytime by responding with STOP.



For quick access, you can scan the following codes.



Access CMS Club Instagram page







Access our CMS YouTube channel



Access our CMSclub website for the latest on meetings and club events



Access CMS Facebook Groups

Sun	Mon	Tue	Wed	Thur	Fri	Sat
tap tap tap		Crack!				All Fools Or April Fools Day
2	3	4	5	6	7	8
Geologist's Day						
9	10	11	12	13	14	15
	Board Meeting 7:00 pm			General Meeting 7:00 pm		Club Trip Biggs, Oregon
16	17	18	19	20	21	22
Club Trip Saddle Mtn						Planet Appreciation Day
23	24	25	26	27	28	29
30						

CMS Show Committee Meeting:....Monday, April 10.....6:30 pm to 7:00 pm
 CMS Board Meeting:.....Monday, April 10.....7:00 pm to 8:00 pm
 CMS General Meeting:.....2nd Thursday, April 13.....7:00 pm to 9:00 pm

Lapidary Class Hours:.....By appointment, call to set a time & day for your lesson (425) 226-3154
 Lapidary Shop Hours:.....Most Tuesdays..... 2:00 pm to 5:00 p, call ahead (425) 226-3154
 Lapidary Shop Hours:.....3rd Saturday..... by appointment only (call a few days ahead to set time)

More Field Trip info can be found on Page 15
 More Show info can be found on Page 16



CMS Board Meeting Minutes March 6, 2023

by Pete Williams, 2023 Secretary

Attendees: Kat Koch; Linda Jorza; Pete Williams; Rich Russell; Paul Ahnberg; Mike Blanton; Ananda Cooley; Diana Horsfall; Chris Vitellaro; Roger Danneman; Noelle Barnes; Peggy Shashy

Show Committee 6:36

Chris led a discussion on the goals of our upcoming show. The main goals are to increase attendance (goal set at 5000-7000), and increase revenue. Need to increase advertising to increase attendance. Peggy mentioned success with setting up displays in libraries and leaving flyers. Any ideas for advertising should be added to the spreadsheet. For local advertising, members can leave flyers or posters at libraries, stores, etc.

For revenue increases, the committee agreed to sell grab bags with polished rocks. Another decision is to have a table set up outside for panning for gems. This was successful at other shows. Peggy will lead this. We could also have a page on our website for vendors to advertise if they donate material for the show.

The committee agreed to have a contest with an award to whichever club member designs the winning design for a 75th anniversary club banner. This banner will be available for everyone to sign.

Board Meeting 7:52

The club now has 99 family memberships. Our current liability Insurance company will no longer cover us due to having field trips and a show. We are looking at getting quotes from other companies. Mike made a motion to donate a club item of at least a \$75 value to be in the NFMS scholarship raffle. Linda seconded the motion. Motion carried.

The city of Kent responded that they do not have any space available for our club. King County does not either, but recommended we look at Renton or Covington, or look at getting grants. Attendance at Mineral Council (MC) meetings has been very low. They are asking clubs to send representatives. The MC works to keep lands available for collecting. Mike is buying replacement lamps for the silent auction table to replace the aging Boeing lamps. Kat is looking at purchasing a table runner that would have the club logo. She also wants to have a unique club display such as the space needle made of rocks one club has. Any ideas are welcome.

Meeting adjourned at 8:42

CMS General Meeting Minutes March 9, 2023

by Pete Williams, 2023 Secretary

We now have a new director on the Board, Lee Oliver, as Gary and Kathy Hartzell had to resign due to personal reasons. This summer will be the 75th anniversary of our club. There is a contest to design the 75th anniversary banner. Anyone can enter. The banner will be available for everyone to sign.

The show is 60% sold out now which is ahead of last year at this time. The main goal will be to increase attendance. Members are needed to print out a form letter and send to stores asking for donations for the raffle.

The April meeting program will be on Fluorescent rocks. This will be especially interesting for kids. Bring the kids out!

Program: Roger Danneman made a presentation on Rock Identification.

Meeting Adjourned: 8:28 followed by show and tell and the raffle.

No president's message this month as Kat was on vacation.

General Meeting – Thursday, April 13th

The following meeting has been planned for April because the Kent, Renton, and Covington School Districts are on spring break, so all our Young Tumblers plan on attending this fun meeting as there is no school the next day. Bring your friends too.



Topic: Fluorescent Follies!!

Not all rocks are what they seem. We have all heard about shape shifters in sci-fi movies. Some rocks and minerals are real life color shifters?

The club will have a collection of fluorescent rocks for everyone to see. It is interesting to see the different colors rocks become under short or long-wave UV lights.

We will then examine members' rocks and see what happens under UV light.

Show 'n Tell: This is a fun meeting for everyone. Gather up your rocks and bring them to the meeting. Lets see if they are fluorescent!!

General Meeting – Thursday, May 11th

Topic: Metaphysical Minerals with Kim Villines of Earthlight Gems (Tentative)

It has been sometime since we have had a meeting on this topic. We are aware a lot of our members are interested in the metaphysical properties of minerals and also the seven chakras.

Paul, CMS Board Director of Programs, is working with Kim to be a presenter at this meeting.

Show 'n Tell: Bring to the meeting what you consider your lucky rock, mineral or piece of jewelry.



Looking For Volunteers

Videographer: Needed at our general meetings: A volunteer to videotape our meetings. Up to you if you want to edit the video or not. We have free editing software to post the video to our YouTube club channel. We meet on Thursday, and the video needs to be uploaded by the following Sunday.

Historian: Copies of the Tumbler, pictures from club events and club officers, and other memorabilia from the club. Put everything including the Tumbler issues in a scrapbook. I would also like issues

of the Tumbler, going back as far as we can, saved on a CD. Various members have older content they can provide you. The club will reimburse you for any expenses to preserve our history.

If you decide you can help out, text or call Kat Koch. president@cascademineralogicalsociety.org or 425-765-5408.



CMS is Celebrating 75th Years in 2023!

Happy Birthday CMS

75 years is such a milestone for our club.

In the summer on 1948 three Boeing employees starting laying the ground work for CMS.

By the time they obtained their IRS tax number there were 14 members.

When Boeing divested itself of their employee clubs in 2010, CMS didn't know for a few years if we would survive.

Would they be surprised and proud to know their idea for a rock and gem club now the end of January our membership of 100 families or 222 individuals.

We have thrived and grown with a lot of work from the Board and our membership.

I want to thank all the volunteers that help run the club.

We would not be such a successful club without you!!

Thank you to each and every one of you for making CMS a success!



We Need Volunteers! by Chris Vitellaro, Show Chair

Did you know that all the revenue from our annual Gem and Mineral Show goes towards our savings fund for a club lapidary shop? With a dedicated shop, members could have access to club lapidary equipment and a variety of classes for all ages on a regular basis. Our timeline for making this endeavor successful is primarily dependent on our show revenue, so increasing show revenue is a top priority.

As our current venue space is limited, we can't add more booths this year and many vendors would not be willing to pay higher space fees compared to other shows they attend. That means we need to increase the number of products sold by our club and increase show attendance to increase the revenue for our shop fund. **We need your help to make this happen!**

Our board members have been working tirelessly to organize our yearly show along with running the club, but they're a bit overwhelmed with all that needs to get done. **Please consider volunteering!** It's a great way to get involved and support your club.

Volunteer support in the following roles will make a huge difference in increasing revenue at the show for a club lapidary shop:

- **Local Advertisement Lead:** Update our OneDrive Excel spreadsheet with local businesses where members might hang up or leave a stack of show flyers. Club scouts reach out to you by email with business information to add or you could share the spreadsheet with them.

- **Local Advertisement Scouts:** Find places where we can hang flyers for the show then share the info with the Local Advertisement Lead (or request access to the spreadsheet). This could be a library, grocery store, or some other business. Help drop off flyers when it's time.

- **Online Advertisement Lead:** Update our OneDrive Excel spreadsheet with online sites where we can share a digital version of the show flyer. Scouts reach out to you by email with site info to add or you could share the spreadsheet with them.

- **Online Advertisement Scouts:** Find sites online where we can share flyers for the show then share this info with

the Online Advertisement Lead (or request access to the spreadsheet). Sites could be a Facebook group, community forum, educational email group, local news etc. Help share promotional material as we get closer to the show.

- **Donation Lead:** Update our OneDrive Excel spreadsheet with businesses that might offer a donation related to gems/minerals/crystals/lapidary equipment etc. (for raffle, door prizes or rock bags). Scouts reach out to you by email with information to add or you could share the spreadsheet with them.

- **Donation Scouts:** Find businesses that might donate something related to gems/minerals/crystals/lapidary equipment etc. and share the info to the Donation Lead (or request access to the spreadsheet).

- **Donations of polished rocks:** Do you own a rock polisher? This year we are adding a rock sifting activity for kids at the show where they can purchase and sift bags with polished rocks/gems and fossils. This will require even more polished rocks than we normally sell! If you are willing to polish rocks (2 in size or smaller) that you have or that the club provides, reach out and let us know. We will also happily take any previously polished rocks that you want to donate.

If you can volunteer (even for a small amount of time), please reach out to me. I'll send details on how to get started.

Chris Vitellaro Show Chair 425-351-4737 azureberrypie@gmail.com

Young Richard's Almanac by Dick Morgan

It seems that we don't have to celebrate All Fools Day as there are many fools broadcasting their views in the media. Many are in positions of power such as government, newscasting and union leaders.

All Fools Day is another term for April Fools Day.

Fossils at Fossil (Oregon) by Sharon Borgford

Several areas in east central Oregon contain a large number of scientifically significant fossils. They are protected within what is called John Day Fossil Beds National Monument. Information about this monument can be found at the national park website: <https://www.nps.gov/joda/index.htm>.

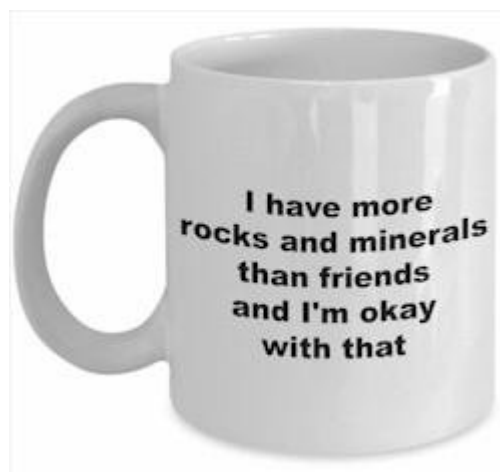
The one place where it is legal to collect fossils from this general formation is in the town of Fossil, Oregon. For several decades they have allowed fossil enthusiasts the chance to find their own at an exposure located adjacent to the Wheeler High School ball field. I had heard of this site for many years, and in June I was able to travel there with family members. We only had a brief time to spend, so we were not sure what was quickly available. We did find parts of leaves and seeds. There is a newer portion of this site located slightly up the hill from the original spot, but we did not go there. It requires some hand tools to dig fresh rocks from small pits. A small digging fee can be paid at the entrance kiosk, and there are some tools usually available to borrow if you didn't bring any.

Their website is: <https://www.oregonpaleolandscenter.com/wheelerhigh-school-fossil-beds>.

Someday I hope to visit the remaining locations of the National Monument, as each part contains slightly different landforms and fossils. The modern museum near Kimberly, east of Fossil, is the headquarters for the research and display of fossils found there. <https://www.nps.gov/joda/planyourvisit/tcpc.htm>

from The Panorama Prospector, 11/22

A common spelling error for fluorite, fluoresce, and fluorescent is to switch the U and O as if it's based on the word flour, but it is not. Fluorite come from the Latin word fluere, which means "to flow", hence the U comes first, not the O. Fluoresce and fluorescent come from fluorite hence the similar spelling.



Coquina by Kat Koch Cascade Mineralogical Society, Kent, WA

I was reading a book the other day and it was talking about the very old churches and cathedrals in Mexico being built from Coquina Stone. I had no idea what Coquina Stone was as I always thought their churches and cathedrals were built out of common limestone.

So what is the difference between limestone and Coquina?

They are both sedimentary rocks.

Common Limestone is composed mostly of aragonite and calcite. They are different very small crystals formed from calcium carbonate from various seashells.

Coquina entirely composed of the transported, abraded, and mechanically-sorted fragments of the fossils of trilobites, mollusks, brachiopods, and other invertebrates. Often includes phosphate from seashells and coral.

Limestone is of medium hardness.

Coquina is soft.

Coquinas developed in ancient lakes, rivers and seas. The water had to be shallow, fast moving and agitated where the waves and currents resulted in vigorous winnowing, fracturing, abrasion, and sorting of the shells and fossils. Coquinas are composed of sediment particles larger than .08 inches and were formed from 420 million years to 11,700 years ago.

Coquina is very soft when first mined. Because of this softness it is easy to quarry and cut into desired shapes, sizes and removed. When first cut and shaped it is too soft to use. In order to use it as a building stone it must be left to dry from one to three years. Once it is completely dried it is still soft but usable. For about 400 years, Coquina Stone was widely used as building stone throughout Australia, Mexico and Florida.

Bibliography: Geology Hub, Compare Nature, Wikipedia, Wikimedia Commons (photos), Columbia University.



How I Became A Rockhound by Kat Koch, Cascade Mineralogical Society

So how did I, Kat Koch, become a rockhound?

When I married in 1970, my husband was interested in rocks and minerals.

Early on, we made a trip to Phoenix, Arizona, and bought a beautiful gypsum desert rose specimen for our house. That was the beginning of my lifelong interest in rocks, minerals, and fossils. I had that desert rose displayed in my house until 1994, when the Northridge, CA earthquake destroyed it.

My husband and I would collect loose gemstones throughout the years. Also, a mineral specimen here and there.

My sister's husband's family owned the international company Craft Stones. From the late 1950s through the 1980s, I often visited her and would go to the factory and drool over the rocks and minerals. They had so many unbelievable specimen's around their home and yard. Then, once in a while, they would give me something.

In 1976 our family moved to a small ranch in Huasna Valley on the central coast of California. We lived near a large river, which became a shallow stream at the end of the summer. At about 7, my daughter came home one day after wandering the hills and riverbed with these fantastic seashell fossils stuffed in her pockets. She also found large chunks of dried mud with loads of embedded fossils. She displayed all her finds in her room and around the house.

Years passed, and we eventually moved to the Seattle area in 2004. In 2012 while playing bridge at the Renton Senior Center, I met Mike Blanton. He is a die-hard rockhound walking encyclopedia on rocks and minerals. He again perked my interest in rocks and minerals. He had to move about this time and "lent" me his dual barrel Lot-O Vibrating Tumbler. Boy, did my interest in the hobby take off!

Our first date was to a gem and bead show at the Tacoma Dome. He also taught me how to polish rocks! I then learned how to wire wrap and began selling my jewelry at craft and street fairs.

I never knew there was such a thing as rock and mineral clubs or even gem shows. Mike took me to the various rock clubs he belonged to, plus numerous gem shows. I was like a kid (Kat) in a candy store. Along the way, I found myself another beautiful gypsum desert rose specimen for my house.

In 2013, Mike took me on my first field trip to Saddle Mountain. Unfortunately, my little Prius couldn't make it very far up the hill, so we stopped at the first opportunity to turn around. I found my first piece of petrified wood at that spot, about 2" square with druzey. Around this time, I bought my first beautiful crystal cluster and a cut and polished Little Naches double thunderegg with blue centers. By now, I am totally hooked.

Mike had always wanted to see the Tucson Gem Show. So in February 2020, we took off on a road trip to see the



small.

via The Quarry, 10/22; ; via MWF Newsletter, 10/22; from EFMLS News, 3/22

Logo Show Banner Contest by Chris Vitellaro, Show Chair

Our Cascade Gem and Mineral Show committee is having a contest to design a 75th anniversary banner to be hung during the show.

The banner must include the show logo and 75th anniversary logo.

We would like enough white space for club members and visitors to sign the banner. The club will then keep the banner as part of its 75th anniversary celebration history.

It would be great if one of our Young Tumblers would draw their idea on a sheet of copy paper. Someone on the show committee will then try to put your idea as close as possible into a graphics program.

So lets see your ideas!



Banner Design Contest

CMS is celebrating it's 75th anniversary and we are adding to the festivities with a special banner for our annual Gem & Mineral show in September.

We need your help designing it!



All ages and artistic levels are invited to submit an entry!

CMS members will vote in June to choose the winning Design.

Design Criteria

- Include our club logo and our 75th Anniversary logo.
- Include space for member signatures.
- You can use an unlimited number of colors.
- Submit it in a PDF file format by **May 20th**.
- As you design, keep in mind that the final printed banner size for the show will be 68.5" wide x 44" tall.

Never used a graphics design program? Try www.Canva.com. It's free! (This announcement was created with Canva)



Ask questions, request logo files and submit designs to cms.banner.contest@gmail.com

Newsletter for Kids By Kids by Cheryl Neary & Dennis Gertenbach, AFMS Juniors Committee Members

The AFMS Juniors Committee has some exciting news for both parents and children!

There will be a newsletter for kids by kids! Yes, your own newsletter, which will be published and sent throughout the country.

The number of articles, photos, artwork, and other items submitted for the new newsletter will determine the frequency of the newsletter – at a minimum every 3 months.

The AFMS Juniors Committee is also sponsoring two exciting competitions for the juniors newsletter:

1. What do you want the name of the newsletter to be?

2. What mascot do you want the newsletter to have?

So, give it some thought — you can enter one or both, and submit through the AFMS Junior website. Yes, you have your own website! Just go to <https://www.juniors.amfed.org/awards-contests-scholarships> and follow the instructions for submitting your entries.

Each competition will have two categories: under 12 and 12-17. Although each competition will have a first-place winner, only one will be selected for the title or mascot of the newsletter.

Oh! Did I mention there are prizes as follows for each category:

- Grand Prize - Rock, mineral or fossil with a \$100.00 value
- Runner-up 1st place - Rock, mineral or fossil with a \$75.00 value
- 2nd place - Rock, mineral or fossil with a \$50.00 value
- 3rd place - Rock, mineral or fossil with a \$25.00 value

Of course, there are some rules that you need to follow.

First, both you and your parents need to sign the form granting permission found on the juniors website. Make sure your parents read the form!

Second, you must be under the age of 18.

Third, the entries need to be an original idea.

Fourth, you should also tell us what rock, mineral, or fossil you would be interested in if you were the winner!

Fifth, please submit an article for the new newsletter!!!

Let's get those brains working!

We also would like to know the name of the school you attend and the location, so that we can inform your classmates of the great work you are doing.

Good Luck – we hope to have many entries for the competitions and even more articles!

from AFMS Newsletter, 4/23

Travertine

It is a form of terrestrial limestone deposited around mineral springs. Often has a fibrous or concentric appearance and exists in white, tan, cream-colored, and even rusty varieties. It is formed by a process of rapid precipitation of calcium carbonate, often at the mouth of a hot spring or in a limestone cave.

It is found in many locations around the world. In the U.S., the most well-known place for travertine formation is Yellowstone National Park. The best representation of Yellowstone's deposits can be seen at Mammoth Hot Springs by the north entrance to the park. Here hot water comes up through a network of fractures and fissures and mixes with the limestone, deposited here millions of years ago when a sea covered the area. The hot water with dissolved carbon dioxide makes a solution of weak carbonic acid. As the solution rises through rock, it dissolves calcium carbonate, the primary compound in limestone. At the surface, the calcium carbonate is deposited in the form of travertine, the rock that forms the terraces of Mammoth Hot Springs.

from The Panorama Prospector, 6/22

Obsidian by Johnie Pitman

Obsidian forms when a silica-rich magma of granitic composition flows onto the earth's surface, where it solidifies before minerals can develop and crystallize. It might flow into or under water which would speed up the cooling process. It is an amorphous solid or glass rather than an aggregate of minerals.

The silica-rich magmas are more viscous or thicker than low-silica magmas that form basalts (approximately 50% SiO₂). The higher viscosity reduces the ability of atoms to migrate through the melt to a growing crystal. This along with a rapid cooling rate prevent crystal growth. Most obsidian, rather than being all glass, contains microlites, or tiny crystals in the glassy matrix. Spherulites of feldspar fibers with crystalline silica are common; they represent very rapid crystallization prior to the chilling of surrounding glass. Lithophysical cavities (stone bubbles) are formed by gases escaping from the obsidian lava flow, with the gases also supplying the chemical constituents for the minerals lining them. This is what defuses light and gives off a sheen or glitter.

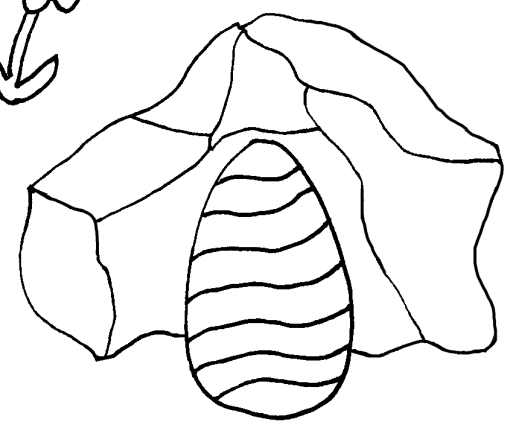
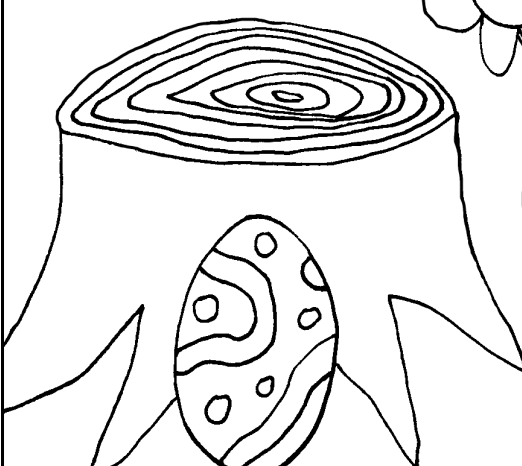
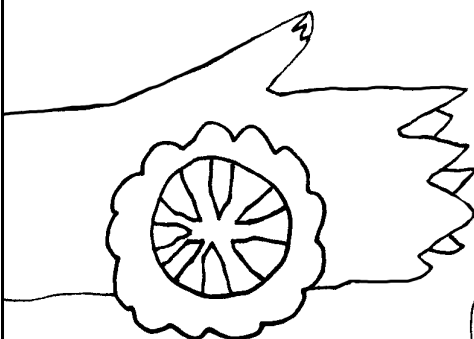
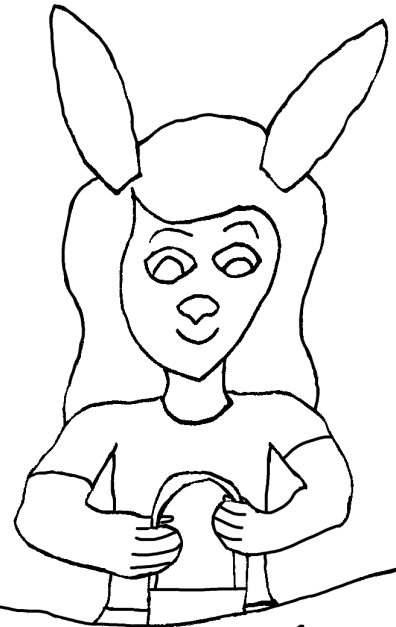
Some types of obsidian are: clear, snowflake, mahogany, rainbow, silver sheen, gold sheen, spider web, and flame.

from The Panorama Prospector, 7/22

A rock rolling down the hill is bad, but when other rocks join in, it becomes an avalanche.

April Egg Hunt Coloring Page

Lines by KAM
Colors by _____
(Your Name)



Young Tumblers News



Just a reminder that all Young Tumblers under 15 can easily earn "Rock Bucks."

Earn \$2 "Rock Bucks" for attending a meeting.

Earn an additional \$3 "Rock Bucks" if you bring something for Show 'n Tell and tell us about your item.

The "Rock Bucks" can be spent like real money at our meetings or club auctions.

You can save your "Rock Bucks" during the year and spend them just like cash on auction items you would like, or you can buy raffle tickets at our monthly meeting.

Join us at our meetings and build your rock-buying piggy bank!

Want To Earn Some Extra Rock Bucks?

Fill out the form below and bring it to a meeting to receive \$5 Rock Bucks!

Your Name _____ Your Age _____ Your Birthday _____

What do you like to collect? _____

How many do you have? Rocks _____ Minerals _____ Fossils _____ Arrowheads _____

Where do you keep your collection? _____

What is your favorite item in your collection? _____

Why is it your favorite? _____

Your favorite item in your collection, did you Find It Buy It Was a Gift Door Prize Win

Do you like Rocks Minerals Fossils or Everything

Does anyone else in your family like rocks? No Yes Who? _____

Have you been on a field trip with the club? Yes No

Besides club field trips, do you go rock hunting with family or friends? Yes No

If the rock club had a program where you could earn various rockhounding badges (similar to the Scout badges) would you be interested? Yes No

At the next meeting you attend, please bring your favorite items and this completed form to Show 'n Tell and receive an additional \$5 Rock Bucks for a total of \$10 Rock Bucks!

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.

Some information from the Washington State Mineral Council webpage (<https://mineralcouncil.wordpress.com>).

- April 15** *Cascade Mineralogical Society - Biggs Junction, Oregon - Biggs Jasper/Agate*
This is a 4-hour drive from Renton/Kent, and is a private claim being led by the landowner. We'll be leaving his shop in Rufus, Oregon at 8:30 AM, so most of us will be staying in The Dalles Friday night. This is the only trip where we need to pay for what we collect. \$2/lb for Beers Mountain jasper/agate and \$5/lb for China Creek jasper/agate.
Roger Danneman 425-228-8781 Roger.Danneman@gmail.com
- April 16** *Cascade Mineralogical Society - Saddle Mountain - Petrified Wood*
Rough road going up the mountain, but once there and parked, the dig site is close to the parking area.
Roger Danneman 425-228-8781 Roger.Danneman@gmail.com
- April 15 & 16** *All Rockhounds Pow-Wow - Saddle Mountain* – Meet before 8 am at Buckshot Boat Launch. Dues required - Petrified Wood
Larry Vess (253)-473-3908 or vessel13755@gmail.com

March 11th Field Trip Report by Roger Danneman, CMS Field Trip Guide

We had a nice outing into the Mt. Baker area for our March Field Trip. The big mountain stayed under cover, but the surrounding hills and trees above 1200' were coated with fresh snow and looked beautiful. Just a few raindrops now and then. 12 other club members joined me. We first met 9:30 AM at Ole One Lane Bridge on the west side of Mt. Baker to collect dunite, quartz, and gneiss on the middle fork of the Nooksack river. Dunite is an igneous rock composed mostly of the olivine mineral. References say it's a rare rock, but a massive deposit exists in the Twin Sisters Mountains west of Mt. Baker. The best way to bring out the nice green color is to cut/slab and then polish. Gneiss is a metamorphic rock that is a product of mountain building. It can either have straight layered banded lines or foliated banded lines. It's hard and dense and will take a nice polish.

At 11:30 we left that area and went over to the east side where Swift Creek enters Baker Lake and collected agate, quartz, and gneiss. Everyone was prepared with waders and the stream was relatively easy to cross. Just 1-2 feet deep. Some nice Baker Blue agates were found among the group. Members that joined me were Kari C., Dave A., Tammy C., Dominique Z., Scott M., Scott M., Kamera M. (and dog Gracie), Brooke P., Nik B., Evan B., Loren M., and Annie S. (and dog Tess).

Next outing is Sat. April 15th for Biggs Jasper/Agate in Oregon and then Sun. April 16th at Saddle Mtn for petrified wood. I sent out the announcement by e-mail with the details.

Note: if you're looking for nice river spots to go for rock when our warm spring weather finally arrives, check out the two places mentioned above plus there's a place on the south fork of the Nooksack River just north of the town of Acme. Best before the spring runoff gets too high though.



What is Crazy-Lace Agate?

Crazy-lace agate is a banded chalcedony (microcrystalline quartz) that's infused with iron and aluminum and is often brightly colored and complexly patterned. This produces the creamy browns, blacks, greys and golds (and occasional pinks or reds) swirled together in this stone.

This stone is found exclusively within the area known as Chihuahua, in Northern Mexico. Crazy lace agate is believed to have been created in the cretaceous period, about 65-90 million years ago.

Agate is the most famous chalcedony variety, recognized by its concentric color bands, formed by the remains of iron and manganese. The chemical composition of agate is the same as quartz, but with a different physical structure.

Instead of forming as large crystals, it is composed of tiny fibers and crystals whose shapes give rise to diagrams or drawings that acquire different names: as in this case "agate crazy". This mineral is formed in rock cavities of different types, especially lava.

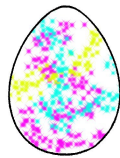
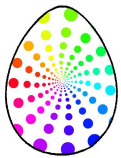
Most agates occur as nodules in volcanic rocks or ancient lavas, in former cavities produced by volatiles in the original molten mass, which were then filled, wholly or partially, by siliceous matter deposited in regular layers upon the walls.

Agate has also been known to fill veins or cracks in volcanic or altered rock underlain by granitic intrusive masses. Such agates, when cut transversely, exhibit a succession of parallel lines, often of extreme tenuity, giving a banded appearance to the section.

The first deposit on the wall of a cavity, forming the "skin" of the agate, is generally a dark greenish mineral substance, like celadonite, delessite or "green earth", which are rich in iron probably derived from the decomposition of the augite in the enclosing volcanic rock.

Agates can also be found in sedimentary rocks. They need a cavity to form, so they are typically seen in limestone, dolomite, and shale which may have shells, tree branches, or roots in them that later decay away.

from The Sierra Pelonagran, 1/22



Shows

April 1 & 2: Saturday 10 am — 6 pm; Sunday 10 am - 5 pm
Sweet Home Rock & Mineral Society, 73rd Annual Rock & Mineral Show
Sweet Home High School Activity Gym
1641 Long St.
Sweet Home, Oregon

April 1 & 2: Saturday & Sunday 10 am — 5 pm
Maplewood Rock and Gem Club, Maplewood Rock and Gem Show
Maplewood Rock and Gem Clubhouse
8802 196th ST SW
Edmonds WA

April 29 & 30: Saturday 10 am – 5 pm; Sunday 10 am – 4 pm
Lakeside Gem & Mineral Club, 26th Annual Rock & Mineral Show
Benton Franklin County Fairgrounds
Building 2, 1500 S. Oak
Kennewick, WA

April 29 & 30: Saturday & Sunday 10 am – 5 pm
West Seattle Rock Club, 55th Annual Rock Show
Alki Masonic Temple
4736 40th Ave. SW.
Seattle, WA

