

The CMS Tumbler

October
2025

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

Next Meeting:
October 9, 2025
7:00 p.m.

American Legion Hall
25406 97th Pl S
Kent, WA

The Program is the
Geologic History of
Washington State

The Show & Tell
Theme is your favorite
rock from Washington

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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
Mike Ludin on October 3
Morgan Dale on October 3
Katherine Koch on October 4
Sarah Searcy on October 4
Charles Benedict on October 6
Matthew Kalm on October 9
Gregg Harmon on October 10
Keith Alan Morgan on October 11
Brett Petty on October 15
Beth Mason on October 16
Price Post on October 21
Jacqueline Bostow on October 22
Sara Niegowski on October 22
Justin Cerenzie on October 24
Jacquelyn Reinhart on October 25
Adalie Severns on October 29
and also remember
to wish a
Happy Anniversary to
Sarah & Mr. Searcy on October 11
Joshua & Ana Dobner on October 16
Les & Sheri Church on October 20
Dan & Jody Egan on October 24
Gina & Mr. Lisak on October 28



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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.

Membership Mailing Address:
Cascade Mineralogical Society
c/o 4762 Whitworth Pl S #P104
Renton, WA 98055

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

2025 Elected Officers

President Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Vice President Noelle Barnes	206-914-0514	geonoelleb@outlook.com
Treasurer Ananda Cooley	206-683-7787	cascademstreasurer@gmail.com
Secretary Pete Williams	425-228-5063	petewill02@gmail.com
Director 1 – At Large Lee Oliver	253-878-2151	loliver4252000@gmail.com
Director 2 - Field Trips Roger Danneman	425-228-8781	roger.danneman@gmail.com
Director 3 – At Large Paul Ahnberg	941-704-2063	runhikebird@icloud.com
Director 4 - At Large Richard Russell	253-736-3693	richru1@yahoo.com
Director 5 - At Large Linda Jorza	206-478-1642	ljorza@gmail.com
Past President Malcolm Wheeler Sr.	253-569-5185	facetguru@aol.com
Postage Stamps Michael Blanton	425-271-8757	mblanton41@hotmail.com
Mineral Council Ananda Cooley	206-683-7787	cascademstreasurer@gmail.com

2026 Show Committees

Book Display Cases Roger Danneman	425-228-8781	Roger.Danneman@gmail.com
Display Cases Roger Danneman	425-228-8781	Roger.Danneman@gmail.com
Mail Flyers		
Treasurer Pete Williams	425-228-5063	petewill02@gmail.com
Silent Auction Richard Russell	253-736-3693	richru1@yahoo.com
Show & Raffle Donations Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Volunteer Recruiter Roger Danneman	425-228-8781	Roger.Danneman@gmail.com
Website Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Vendor Chairman Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Supplies & Food Angie Bayer	253-569-0245	Text to her number (no email)

2025 Committee Chairs

Club Historian Jim Cerenzie	253-638-1478	jcerenzie@yahoo.com
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
Meeting Greeters Angie & Brian Bayer	253-569-0245	angiemc61@msn.com
Meeting Programs Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Membership Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
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 – <i>Shop is closed as we are building an indoor shop</i>		
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 Jarrod Da	425-306-2501	jarrod.da@comcast.net
Show & Tell John Cornell	253-335-3617	outhouse2hole@gmail.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

2025 CMS Dues are \$30 per year per family

Pay online, by mail, or at our meetings.

New mailing address:

*Cascade Mineralogical Society
c/o 4762 Whitworth Pl S #P104
Renton, WA 98055*

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 Lands Access Association; and the Washington State Mineral Council.

Our Club is a Member of these Federations and Associations

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

CONTENT DISCLAIMER

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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.

We Need Your Canceled Postage Stamps

Our club is going to continue to collect canceled postage stamps. Even though we are no longer members of the NFMS, we will continue to collect them and turn them over to the NFMS. They have a stamp company that buys them, and these funds are donated to cancer research. Every year NFMS donates around \$2,500.

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 will turn them over to the NFMS.

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

JERRYS ROCK AND GEM
 804 WEST VALLEY HWY. KENT, WA. 98032
jerrysrockandgem.com jerrysrockandgem@msn.com
 Follow us on Facebook **253-852-0539**

Black Jack's Metal Detectors
 AND MINING EQUIPMENT!

Black Jack's Metal Detectors
 Mining Equipment, Low Pressure Dive, & Rock Shop!
www.BlackJacksMetalDetectors.com
 Your place for Metal Detecting & Mining Equipment

101 Park Ave N,
 Renton, WA. 98057
 Store # 425-430-0290
 Direct # 253-961-3095



SoDo Rocks

Friday thru Sunday
 10 am to 4 pm

2700 4th Ave S, Seattle, WA 98121

These three retailers are huge supporters of our club. Please seek them out when looking for lapidary items and supplies.

Don't forget to show your membership card and receive a 10% discount on most items!

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.



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



October

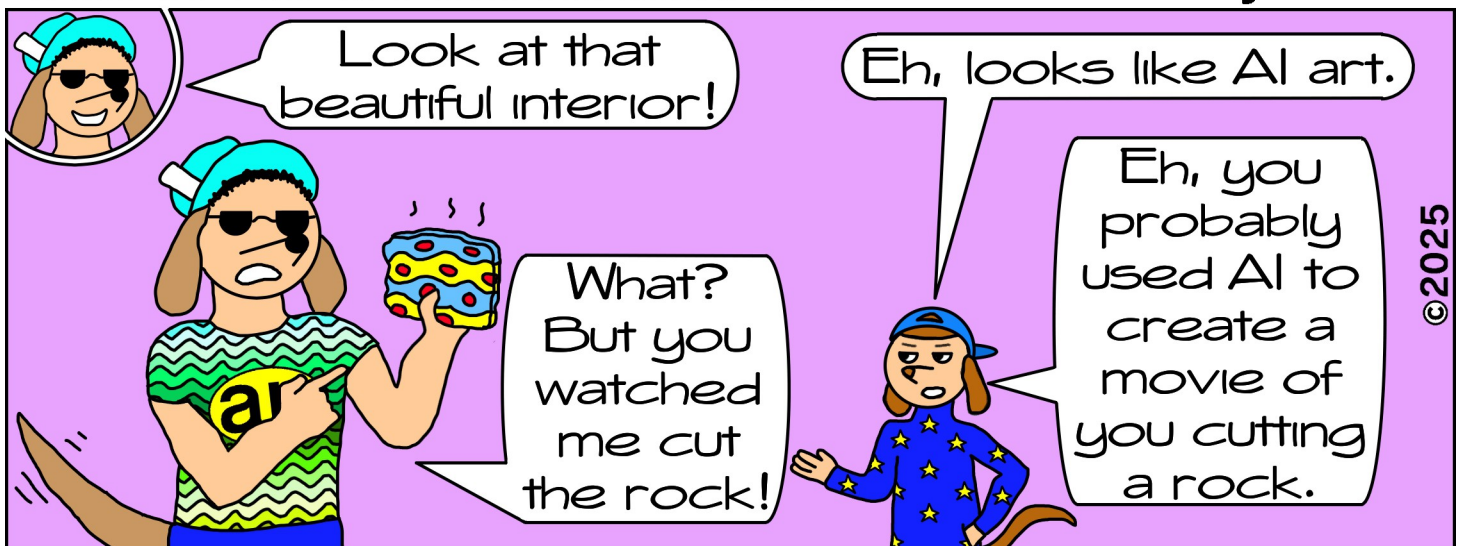
Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2	3 Portland Show	4 Portland Show Marysville Show
5 Portland Show Marysville Show	6 Board Meeting 7:00 pm	7	8	9 General Meeting 7:00 pm	10	11
12	13	14	15	16	17	18 Crystal Mtn Trip
19	20	21	22	23	24	25 Baker Lake Trip Springfield Show
26 Springfield Show	27	28	29	30	31 Halloween	

CMS Board Meeting:.....Monday, October 6.....7:00 pm to 8:00 pm
 CMS General Meeting:.....2nd Thursday, October 9.....7:00 pm to 9:00 pm

More Field Trip info can be found on Page 11
 More Show info can be found on Page 12

Son of Mr. & Mrs. Rockhound

by KAM



CMS Board Meeting Minutes September 8, 2025

by Pete Williams, 2025 Secretary

*Attendees: Kat Koch; Pete Williams; Ananda Cooley; Paul Arhnberg; Diane Horsfall; Linda Jorza; Roger**Danneman*

Meeting Called to order: 7:05

Kat is working on flyers for the show next June. No one has volunteered yet to be show chair. If that remains the case, the show will have to be run by a committee from the Board.

There are now 141 family memberships with 291 members. Completion of the shop at Roger's house is proceeding. Progress on electrical issues with PSE has been slow and will be very costly. An alternative being looked at would be to run a line from the house to the shop. A work party is necessary to complete the shop. Roger will send out an email requesting help. Some equipment has been moved from Diane's house. All equipment needs to be moved by the end of October. We are looking into purchasing new cabbng equipment for the shop.

The speaker on fossils for the October meeting has had to cancel. The Board will be looking for a replacement.

Anyone needing to send a check to the club should send to CMS and use the membership mailing address in the bulletin.

Meeting adjourned at 7:47

CMS General Meeting Minutes September 11, 2025

by Pete Williams, 2025 Secretary

Called to Order: 7:26

Members can get a copy of the club financials from Ananda if they are interested. Note the club address in the Tumbler should be to CMS and not Ananda as indicated. Members are encouraged to continue to collect used stamps, and provide them to Mike, who will have them sent to the NFMS for cancer research.

No one has stepped up yet to be show chair for next year's show in the last weekend of June. With no one volunteering, the show will have to be run by committee. Assignments will be broken down and provided to each member of the committee. Anyone interested in being on the committee should contact Kat.

The last club field trip was to Frost Mountain. The next field trip will be to Teanaway/Red Top depending on the fire situation. There will be some trip in October as well.

The club Christmas dinner will be on December 7. There will be election of officers as well as an auction. We need a VP and Treasurer in particular.

Program: Unusual things found in Amber.

Meeting adjourned at 8:35 Followed by the raffle.

From Atop the Rock Pile

by Kat Koch, 2025 President

Since it is so challenging to find a Show Chair and fill other club positions, the board has voted to eliminate the Show Chair position and instead run the show through a committee.

At our holiday dinner, we will hold an election for board officers. The following positions are up for election this year. They are 2-year positions. We can have more than one person running for a position. So if you are interested in one of the positions, throw your hat in the ring.

*President – Noelle Barnes**Vice President – Michele Maidman**Treasurer – OPEN – NEED A VOLUNTEER**Director – Rich Russell**Director – Lee Oliver*

The 2026 Show Committee: Kat Koch, Michelle Maidman, Noelle Barnes, Rich Russell, Roger Danneman, Angie Bayer.

As our club continues to grow, we always welcome new volunteers with fresh ideas. If you would like to run for any of the board positions or be on the show committee, please get in touch with Kat or Pete.

If you're a new member, we're thrilled to have you join our fantastic rock club! Your presence at our monthly meetings is highly valued, and we encourage you to take the opportunity to introduce yourself. I look forward to meeting you.



Welcome
New Members

Since our membership continues to grow weekly, I hope more members will attend our monthly meetings. The larger our meeting attendance is each month, the easier it will be to book quality speakers.

When planning your estate, we invite you to consider donating to our club. We accept various types of gifts, including cash, stocks, real estate, and other assets. All property and monetary donations will be held in our savings account to help us acquire and operate an indoor shop, as well as a space for monthly club meetings. I appreciate your support!

2025 Meetings

October 9th - Geology History of Washington - Maureen Carlisle, former Docent for the Burke Museum

This meeting will cover the "Geologic History of Washington State." The meeting will be an interactive program designed to tell the story of the complex geologic history of our state. It works for kids as well as adults, with families working together to assemble the state.

Show 'n Tell: Favorite rock or mineral from Washington.



November 13th - Glen Ripper on Obsidian

Glen is a leading authority on Obsidian. He is a walking encyclopedia, which should make this an enjoyable and educational meeting.

Show 'n Tell: Obsidian - let's see your colors.



California Rainbow Obsidian

December 7th – CMS Food Drive, Holiday Potluck Party, and Club Auction

We start the day off with a potluck holiday meal. The club provides roasted turkey and ham. Members fill in with their favorite holiday potluck dish.

We follow our meal with the election of officers for the coming year.

Our final activity is our club auction. It is a great time to pick up great bargains on rough rocks, polished rocks, slabs, fossils, opal, etc. Our Young Tumblers can use their Rock Bucks to purchase auction items.

Donations to the auction are always welcomed.



This meeting is also our semi-annual food drive for the Kent Food Bank. Please remember to bring something. The Food Bank has informed us that they need feminine hygiene products and grape or strawberry jelly. People donate loads of peanut butter but never jelly. They also receive very few donations of feminine hygiene products.



December Election Of Officers

The following positions are up for election this year. They are 2-year positions. We can have more than one person running for a position. So if you are interested in one of the positions, throw your hat in the ring.

President – Noelle Barnes

Vice President – Michele Maidman

Treasurer – OPEN – NEED A VOLUNTEER

Director – Rich Russell Director – Lee Oliver

The 2026 Show Committee: Kat Koch, Michelle Maidman, Noelle Barnes, Rich Russell, Roger Danneman, Angie Bayer.

As our club continues to grow, we always welcome new volunteers with fresh ideas. If you would like to run for any of the board positions or be on the show committee, please get in touch with Kat or Pete.

Pyrite by Jessica Himple

Pyrite, often mistaken for gold due to its metallic luster and golden hue, has earned the nickname "fool's gold." This iron sulfide mineral (FeS_2) has a rich history, dating back to ancient times when it was valued for its ability to create sparks when struck against steel. This property made pyrite an essential tool for starting fires before modern ignition methods were developed. The mineral's name is derived from the Greek word *pyr*, meaning fire, reflecting its historical use in early civilizations.

Although pyrite is not a precious metal, it has had its share of economic importance. During the 19th and early 20th centuries, pyrite was mined extensively as a source of sulfur for sulfuric acid production, which is essential in various industrial processes. Its cubic crystal formations and dazzling appearance have also made pyrite a favorite among mineral collectors. Notably, large and impressive specimens have been discovered in locations such as Spain's Rio Tinto mines.

and Peru's Huanzala mine, celebrated for producing some of the world's finest pyrite crystals.

Beyond its industrial and historical significance, pyrite has a fascinating set of characteristics. For example, pyrite is prone to oxidation when exposed to air and moisture, which can result in the formation of sulfuric acid—a process known as acid mine drainage. Interestingly, some pyrite deposits contain traces of gold, making it a valuable resource in gold extraction. With its rich golden sparkle and intriguing properties, pyrite continues to captivate both geologists and the general public, standing out as a mineral of both beauty and utility.

from Northwest Newsletter, 1/25

Columbus Day: A holiday solely devoted to a man's inability to ask for directions.

via CMS Tumbler, 10/15; from Beehive Buzzer, 9/15

Field Trip Report for September 6th at Frost Mountain by Roger Danneman

On Saturday, September 6th, we went to Frost Mountain south of Cle Elum for jasper/agate/chert and crystal. The material from here has some unique patterns and colors not found at any of our other sites. This is a long drive to get into, but still one of my favorite areas. We had a small group of 7 of us in 6 vehicles (more rocks for me). The morning started with a light rain at our meeting spot but it really turned out to be a decent day with temps in the low 70's. The air was a little smoky from the Wildcat fire burning south of us by Bumping Lake. We hiked in with carts and wagons 3/4 mile to a rocky outcrop ridge and surface collected eroded material and chiseled out material from the relatively soft basalt. The rock pics show some of the material I collected with the last pic showing rocks I've collected and polished from last year's trip. Some of the rocks look a bit junky on the outside, but cut pieces can reveal beautiful patterns inside and is generally nice and solid and takes a great polish.

Attendees: Chris V., Ben & Alyssa K., Kayci E., Jarrod D., guest Courtney Z., and me.

Our next scheduled outing is a weekend campout to Teanaway and Redtop September 26-28. Watching the fire situation closely. Looking at alternative sites like Yellowhill and Crystal Mountain.





Fluorite by Jessica Himple

Fluorite, also known as fluorspar, is a mineral composed of calcium fluoride (CaF_2). It has been known and used by humans for centuries. The name "fluorite" is derived from the Latin word "fluere," which means "to flow," because fluorite was used as a flux in smelting processes. The use of fluorite dates back to at least the 16th century, and it was crucial in the study of crystallography and the understanding of crystal symmetry. Fluorite was very popular amongst ancient civilizations, likely due to its impressive color range and its ability to be carved. The Egyptians carved it into statues, while the Romans used it to make vases and other decorative items. In the 18th century, it became a significant industrial mineral used in steelmaking, aluminum production, and the manufacturing of hydrofluoric acid.

Fun Fluorite Facts:

- Fluorite's vast range of colors has been a contributing factor in its popularity throughout the ages. One can find fluorite in pink, blue, purple, yellow, green, and colorless, along with many variations in between, with some crystals presenting multiple colors. These color variations come from impurities and radiation.
- Some of fluorite's many uses include the production of products we regularly use, such as toothpaste and Teflon (fluorine) and optical lenses for telescopes and microscopes,
- One of the most intriguing properties of fluorite is its fluorescence. When under ultraviolet light, many fluorite specimens glow with various colors, usually blue or purple and sometimes red. This property is where the term "fluorescence" came from.

Young Tumblers News

Rock Bucks

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

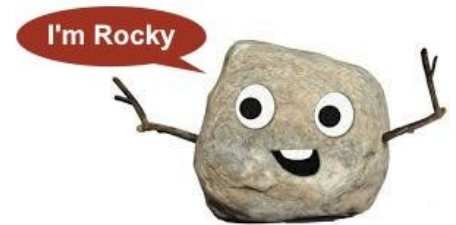
Earn \$3 "Rock Bucks" to attend a meeting.

You can earn an additional \$5 in "Rock Bucks" if you bring something for Show 'n Tell and tell us about your item.

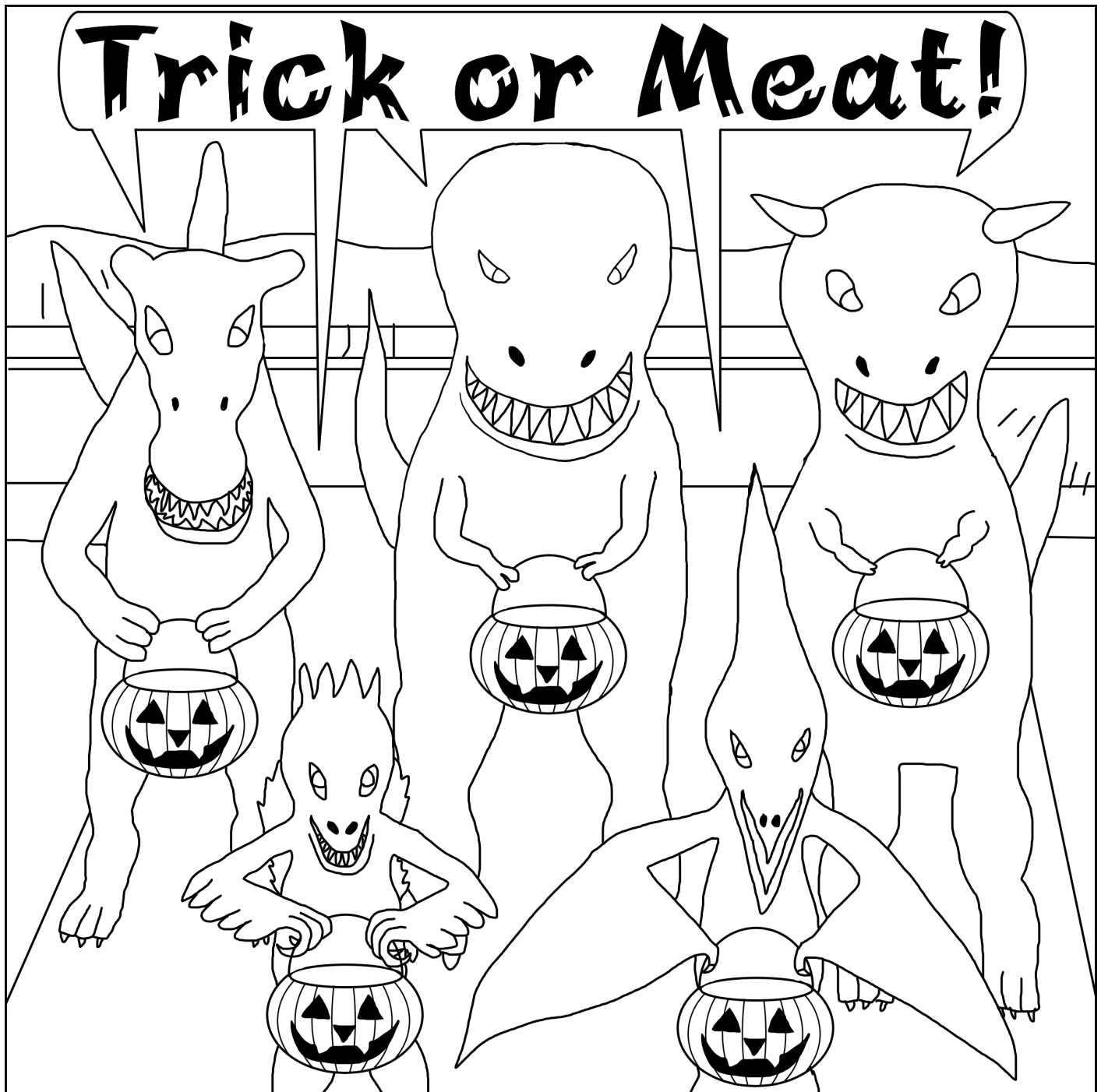
The "Rock Bucks" can be spent like real money at our meetings or club auctions.

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!



Halloween Coloring Page by KAM



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>).

- October 1** *Marysville Rock Club - Index* - Meet before 9 am at Index - Picture jasper - Bring Rock hammer
Nique Wicks nwhoppyfrog41@gmail.com Or (509) 670-0630
- October 18** *Cascade Mineralogical Society - Crystal Mountain* north of Ellensburg - agate, jasper, crystal, geodes.
Difficulty Rating 3. Multiple areas here for collecting, but one primary dig site. Rough road.
Roger Danneman roger.danneman@gmail.com; 425-757-3506 (texts ok)
- October 25** *Cascade Mineralogical Society - Baker Lake / Swift Creek* - Agate, Gneiss, Jasper
Difficulty Rating 3. Steep trail down to river. Need waders to collect in stream and to cross stream. Agates are found in gravel deposits where stream is flowing. 1/2 mile walk down to Baker Lake gravel beds where agates are found.
Roger Danneman roger.danneman@gmail.com; 425-757-3506 (texts ok)

Is It A Mexican Fire Opal or A Mexican Cantera Opal? by Kat Koch

Opal is a hydrated amorphous (chemical) form of silica; its water content may range from 3% to 21% by weight, but is usually between 6% and 10%. Due to the amorphous physical structure, it is classified as a mineraloid, unlike crystalline forms of silica, which are considered minerals. It is deposited at a relatively low temperature. It may occur in the fissures of almost any kind of rock, being most commonly found with limonite, sandstone, rhyolite, marl, and basalt.

The name opal is believed to be derived from the Sanskrit word "upala", which means 'jewel', and later the Greek derivative "opállios."

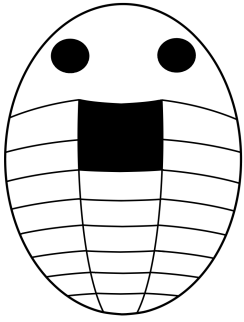
Mexican Fire Opal glows with the fire of the sun: hot honey yellows, oranges, and reds so bright they look as though they might glow in the dark. Fire opals are transparent to translucent opals with warm body colors of yellow to orange to red. Although fire opals don't usually show any play of color, they occasionally exhibit bright green flashes. The most famous source of fire opals is the state of Querétaro in Mexico; these opals are commonly called Mexican Fire Opals. Fire Opals that do not show a play of color are sometimes referred to as jelly opals.

Mexican Cantera (meaning Quarry) Opals are found in rhyolitic. They are cut in their host material if it is hard enough to allow cutting and polishing. Unlike other opals, Cantera fire opals are challenging to separate from their host rock without damaging the delicate gem. To preserve the opal, skilled gem cutters often fashion a cabochon that includes both the rhyolite and the opal, producing a visually captivating effect.

Therefore, all Cantera Opals are Mexican Fire Opals, but not all Mexican Fire Opals are Cantera Opals. The key difference lies in the inclusion of the rhyolite host rock in the finished gemstone. If either type shows a varied play of color, they are called Precious.

Bibliography: Wikipedia, Geologyin.com, GEMIC Institute, Gem Agency.





Shows

October 3 - 5: Friday & Saturday 10 am - 6 pm; Sunday 10 am - 5 pm

Portland Regional Rock and Gem Show *44th Annual Show*

Wingspan Event Center

801 NE 34th Ave

Hillsboro, Oregon

October 4 & 5: Saturday & Sunday 10 am - 5 pm

Marysville Rock and Gem Club, *49th Annual Rocktoberfest*

Evergreen State Fairgrounds

Display Bldg #500

14405 179th Ave SE

Monroe, WA

October 25 & 26: Saturday 10 am - 5 pm; Sunday 10 am - 3 pm

Springfield Thunderegg Rock Club, *67th Annual Rock and Mineral Show*

Willamalane Adult Activity Center

215 W C Street

Springfield Oregon

November 1 & 2: Saturday and Sunday 10 am - 5 pm

Maplewood Rock and Gem Club, *Community Outreach And Demonstration Show*

Maplewood Clubhouse

8802 196th St SW

Edmonds, WA