

The CMS Tumbler

November
2024

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

Next Meeting:
November 14, 2024
7:00 p.m.

American Legion Hall
25406 97th PI S
Kent, WA

The Program is Glaciers

The Show & Tell
Theme is White,
Clear, or a Crystal

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

Ellie Brott on November 2
Paul Vitellaro on November 4
Julie Redl on November 13

Malcolm B. Wheeler on November 14

Mrs. Anderson on November 19
Fernando Munoz on November 19

Paul Wasley on November 19
Dave Abergel on November 22
Peggy Shashy on November 23
James Starke on November 23

Fred Funk on November 25

Gina Manso on November 25

Larry Clark on November 27

Dian Davis on November 28

Myles Brott on November 29

Alyssa Hjeltness-Werre on November 30

and also remember
to wish a

Happy Anniversary to

Ariyana Bennett & Fernando Munoz on November 10

Jim & Xuyen Cerenzie on November 14

April & Mark Marter on November 18



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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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Raffle Master Roger Pullen	206-387-3214	Phone calls only. No email or texting.
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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

2024 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

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

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
 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

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



For quick access, you can scan the following codes.

Access our CMS YouTube channel





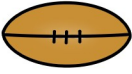



Access our CMSclub website for the latest on meetings and club events



Access CMS Facebook Groups

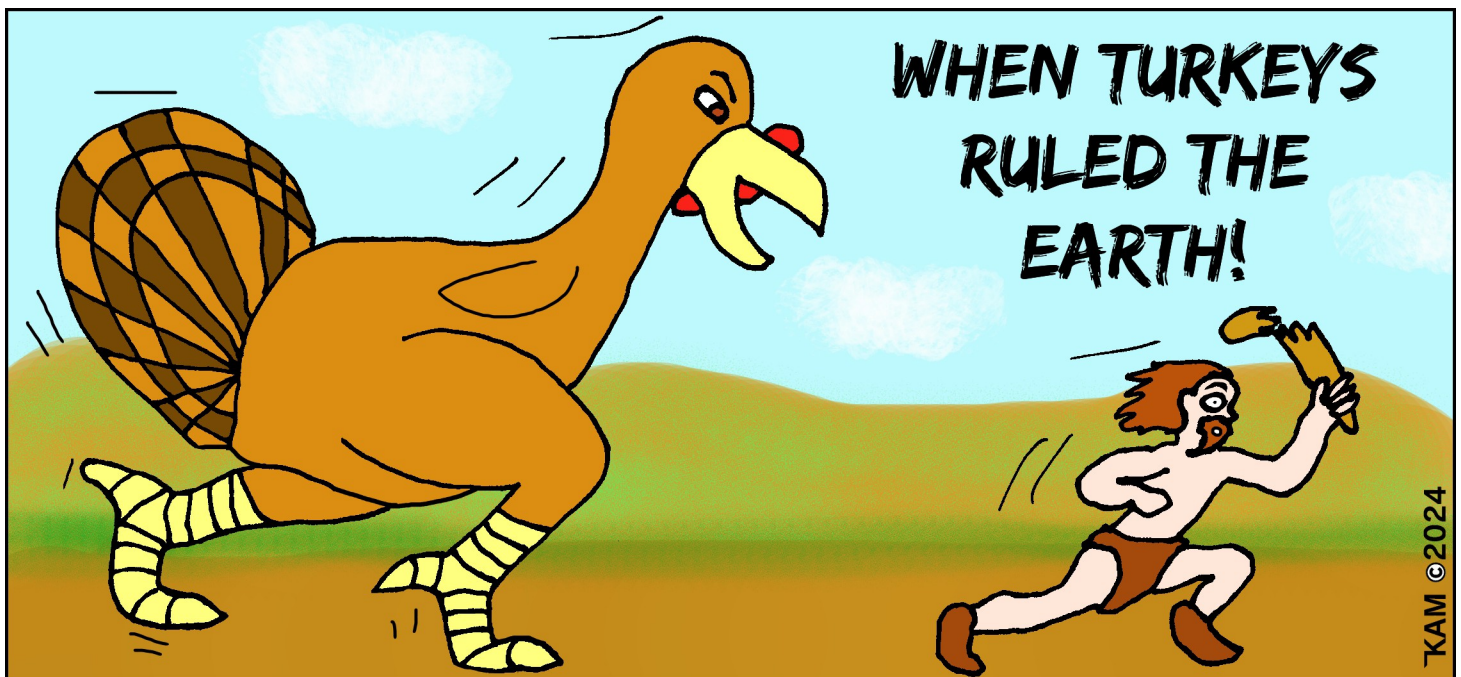


November

Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11 Board Meeting 7:00 pm	12	13	14 General Meeting 7:00 pm	15	16
17	18	19	20	21	22	23
24	25	26	27	28 Thanksgiving 	29	30

CMS Show Committee Meeting:....Monday, November 11.....6:30 pm to 7:00 pm
 CMS Board Meeting:.....Monday, November 11.....7:00 pm to 8:00 pm
 CMS General Meeting:.....2nd Thursday, November 14.....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



The Tumbler has received One-Time Rights to publish this cartoon

CMS Board Meeting Minutes October 7, 2024

by Pete Williams, 2024 Secretary

Attendees: Kat Koch; Linda Jorza; Pete Williams; Rich Russell; Mike Blanton; Paul Arhnberg; Roger Danneman; Noelle Barnes; Diana Horsfall; Ananda Cooley; Michelle Maidman; Lee Oliver

Called to order: 7:05

Our club now has 148 family memberships. The Gem Faire is on November 8-10 and our club will have a booth there. Volunteers are needed. There will be a sign-up sheet at our next meeting. We will have a display case with rocks from field trips and the spinning wheel to give rocks to kids.

The October meeting program will be on opals and the November program will be on glaciers. Due to fire risks some sites for the October field trip may not be available. Roger will provide more information when available.

Lee and Kat are looking into selling hoodies, t-shirts, and license plate holders to club members and at the show. Options will be presented at a future meeting.

Lee Oliver volunteered to be show chair with Michelle Maidman as assistant chair. Kat showed an example of a show flyer that is still in work. Price quotes for the gym and Green River room for the show next year have been requested.

Meeting adjourned at 7:35

CMS General Meeting Minutes October 10, 2024

by Pete Williams, 2024 Secretary

Called to Order: 7:20

Lee Oliver is the new Show Chair with Michelle Maidman as Assistant Chair. The club will need a new treasurer next year. Elections will be held at the December 1 Christmas party.

Sign-up sheets are available to run the club booth at the Gem Faire on November 8-10. Volunteers pass out literature and answer questions about our club.

At a future meeting there will be examples of license plate holders, hoodies, and hats for members to vote on. The November meeting program will be on glaciers. Fires are preventing field trips to several sites. Our next field trip may be to Crystal Mountain on November 2. Roger is still exploring where to go.

Program: Opal Mining by Pete Williams

From the Top of the Rock Pile by Kat Koch, President

Our October club field trip (a camping weekend at Red Top Mountain) just happened to be on my birthday weekend. I told Mike that for a birthday present, I wanted to go Glamping on this field trip. I have always wondered what Red Top looked like, and I would like to meet some of our club members who have never attended meetings.

We were not able to camp outdoors, so we booked a motel room in Cle Elum. We spent Friday at the Teanaway campsite, and it was raining buckets!! We hung around a bit and chatted with everyone. In the late afternoon, we headed back to Cle Elum for dinner and spent the night in a warm and dry room. Unexpectedly, the night was very cold, and the campers really froze. Saturday was an absolutely clear, sunny, and beautiful day.

Levi Dobner spent a lot of time trying to catch a fish in the nearby river. Levi even insisted that put their tent up near the river. Levi was so set on catching a fish, but sadly, they were not biting.

Mike and I were not able to climb the area on Red Top, so we hung out with Scott and Laurie and did some rockhounding along the roadside in various areas. The four of us hit up the nearby rock shop and then came back to camp, where we sat and visited for a couple of hours. We also had a small campfire going. Being able to sit and chat with Scott and Laurie was nice.

Noelle, David (Mr. Noelle), Mike, and I left in the late afternoon to head home. We stopped in Cle Elum at a hamburger joint for dinner. It was enjoyable to eat together and chat up a storm.

My birthday present was great! It was so good to be out among the trees and nature. We saw a large stately buck with a huge rack and a doe. Even though Mike and I can no longer climb or walk into a collecting area, I definitely want to go on one of our field trips again.



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.

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.

I am looking forward to seeing everyone at our November meeting on Glaciers.

Election of Officers at Our Holiday Party

We will be voting on the following four 2-year positions:

Vice President – Noelle Barnes

Treasurer – need volunteer

Director 1 – Lee Oliver

Director 4 – Rich Russell



We are looking for a Treasurer. It is an easy booking job: balancing the checkbook, paying our club bills, sending out membership cards, and ensuring our meeting room is paid for in advance and that we have reserved space for our Holiday Party. We use a simple accounting software program that produces the monthly reports with a click of a button. The software automatically downloads all our banking activity to the software. You must ensure the various deposits and expenses go into the correct account. Other than membership payments, there isn't much activity. Ananda has streamlined things and will be available to train you and answer questions until you feel comfortable handling everything on your own. Kat is also always available.

The Treasurer must attend our Board meetings on the Monday before our monthly meeting. Our Board meetings are held online: Show meetings at 6:30 pm, and we roll into the Board meeting around 7 to 7:15 pm.

* * * * *

Let Pete Williams or Kat Koch know if you want to run for any of the above positions. We can always have more than one person running for a position. Their contact info is elsewhere in this newsletter. Both of them use texting besides email and telephone calls.

November 14th - CMS Food Drive & Glaciers by Paul Arhberg

What are the benefits of glaciers?

Glaciers, slow-moving rivers of ice, have sculpted mountains and carved valleys throughout Earth's history. They continue to flow and shape the landscape in many places today. But glaciers affect much more than the landscape.

Show 'n Tell: Something white, clear, or a crystal.



December 1st – Holiday Potluck Dinner, Election of Officers and Club Auction.

Holiday Potluck Dinner: The club provides ham and turkey. Members fill in with side dishes, rolls, desserts, and drinks. If you cannot bring anything for dinner, please come as we would like your company. We always have loads of food.



After dinner, we have the election of Officers for 2025.

We close out the day with the club auction. The auction is a great time to pick up holiday gifts, birthdays, anniversaries, or whatever. The prices are always a fraction of retail or a gem show.

Encourage your Young Tumblers to save their "Rock Bucks" that they receive for our auctions. They can spend them like real money for items they would like to have.

Mark your calendar now! Let's have a great turnout. Let's enjoy having dinner together, sitting and visiting with one another, and getting some "rock talk" in.



January 9th - Field Trip report of 2024 and what lies ahead for 2025.

Our Field Trip Guide, Roger Danneman, will review our 2024 field trips and what was found, then look ahead to what is planned for 2025.

Show 'n Tell: Something you found on a field trip, your yard, beach, a hike, etc.



Club Red Top Trip by Roger Danneman

On the weekend of October 4-6th 2024 we combined camping and rockhounding at Red Top Mountain north of Cle Elum. Our original site at Crystal Mtn was closed along with the First Creek area due to the Swauk Creek Fire, so this was Plan B. The Teanaway Community Forest has a nice campground next to the Teanaway River with ample parking, vault toilets, and level tent sites which are very nice for group camping.

Friday after setting up camp a light rain moved in. Not a washout rain, but somewhat cool and damp. Fortunately, John brought two canopies that we could cook and eat under. Dinner was grilled chicken (griddle), Greek salad, garlic mashed potatoes, cheese bread, fruit salad, warm blackberry cobbler, and cookies/bars.

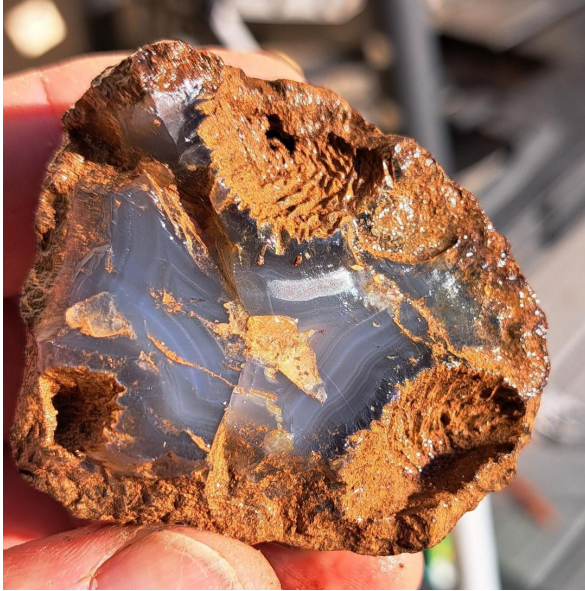
On Saturday morning after Legendary Donuts, muffins, and perked coffee, we left camp about 9:45 AM and headed up the back way to Red Top. We went to two sites. At site #1 we dug for about 3 hours. Nice seam agate in blues, greens, reds, and yellow colors. For site #2 we hiked up Indian Creek Trail 1/2 mile to the meadow which wasn't nearly as productive for us as site 1. The ground was much more difficult to dig in, baked from the summer and fall heat/sun. Beautiful view of Mt. Rainier though and sunny and warm with temps in the low 60s. We didn't come down until about 5:30. Dinner was grilled (griddle) hamburgers, hot dogs, all the fixings, San Francisco beans, corn pudding, fruit salad, cookies, and warm blackberry cobbler.

Special thanks to everyone for the great food. It was quite a memorable weekend. We all agreed that the nights were cold but the campground was great.

Campers: Annie S and dog Tess, Scott & Laurie M., Peggy S., John C. & Teri G., Josh & Eli D., Jeanie L., Michelle M., and me.

Coming up for the day on Sat.: Noelle B. & David, James & Travis, Chris & Raquel, Jarrod D., Kat & Mike all joined us at the campground, and Loren M. met us up at the meadow.

Next trip is to Crystal Mtn north of Ellensburg on October 19th. Yes, FR 3507 was reopened on October 10th. We also have a trip scheduled for November 9th, but it's weather dependent. Keep an eye on e-mail announcements.



Club Crystal Mountain Trip by Roger Danneman

On Saturday October 19th we went rockhounding at Crystal Mountain north of Ellensburg. Loren went up early that morning to check the access road and met us as we were arriving. He deemed the 2 mud holes too risky to attempt to drive through. Even walking it was very sticky and slippery he said. There was a lot of standing water in the potholes from what must have been a heavy downpour the night before, as they had been having good weather there all week. We decided to hike in from the NW direction on another service road. I wasn't sure of the distance. It turned out to be a tough 1/2 mile up hill and another 1/2 mile down hill to get to the site. On the bright side we were finding pieces of agate the whole way and we had nice temperatures (upper 50s to low 60s). The site yielded beautiful multi-colored agate and crystal clusters. We had a great group to be able to flex an impromptu and difficult hike like that. Had it not been for the mud, we



would have driven in right next to the site, but we're in that time of year where the weather is getting more volatile. About 3:30 we were on our way to site #2. We found surface agate there, but no luck with the geodes. I think we were all too tired to do much basalt busting. Although Annie did find a nice big seam agate with a crystal pocket.

The group consisted of Annie S and dog Tess, Noelle B., Loren M., Dan G., Kerri-Lynn D. and John, Kelley G., Michelle M., Jason S. and his two sons, Gina M., Julie M., and me.

Peggy S. & Paul A. were at site 2 all day, but were done before we got there. We could have used their expertise on finding the geodes.

We do have one more field trip on the schedule to First Creek on November 9th, but it's very weather dependent. Keep your eyes on e-mail announcements.





The Colors of Obsidian by Kat Koch

Obsidian is a naturally formed dense volcanic glass. It is mineral-like but isn't considered a mineral because it lacks a crystalline structure. Obsidian forms in lava flows where the lava cools so fast that crystals don't have time to form; therefore, it is classified as a mineraloid.

Obsidian is a volcanic glass that forms when lava cools rapidly. It's known for its conchoidal fracture, breaking with smooth curved surfaces and sharp edges. When obsidian breaks, the edge can be as sharp as a knife or a piece of broken glass. For this reason, you must be very careful when handling obsidian.

The world of obsidian is a diverse one, with the most common types being Black, Mahogany, and Snowflake. However, the obsidian family extends beyond these, encompassing intriguing varieties such as Apache Tears, Fire Obsidian, Mahogany Obsidian, Rainbow Obsidian, and Sheen Obsidian. Each type has its own unique characteristics, waiting to be explored and appreciated.

The geological makeup of various types of obsidian:

Black Obsidian: Obsidian is a naturally occurring volcanic glass formed when lava extruded from a volcano cools rapidly. Obsidian is extremely rich in silica (about 65 to 80 percent), is low in water, and has a chemical composition similar to rhyolite. Obsidian has a glassy luster and is slightly harder than window glass. However, obsidian is typically jet-black in color. Obsidian's mohs is 5 to 5.5. In comparison, quartz is 7, and a diamond is 10.

Apache Tears: Apache tears are small, rounded, irregularly shaped black obsidian nodules found in the American Southwest, typically in Arizona and New Mexico. Apache tears originate from siliceous lava flows, lava domes, or ash-flow tuffs, often in close association with or embedded in gray perlite. The spherules are cores within perlite masses that typically exhibit concentrically curved, onion-skin fractures. Their formation is related to differential cooling and differing alkali and water contents. Once polished, you will see translucent bands if you hold the stone to the light.

Apache tears are said to be the preserved tears of the Apache women who lost their beloved warriors in battle.

Fire Obsidian: Fire obsidian is formed when lava cools very rapidly. This results in a glassy material that is highly reflective. The magnetite layers within the fire obsidian cause light to be reflected differently, creating iridescent colors and patterns. The colors of fire obsidian can vary widely, but they often include red, orange, yellow, green, and blue. The patterns can be concentric circles, bands, or other geometric shapes.

Green Obsidian: Green to dark green obsidian has varying amounts of iron and magnesium—green minerals. The green coloration is from gas bubbles (vesicles) in the lava flow during cooling. Most green obsidian is found in California.

Mahogany, Brown, and Red Obsidians: Mahogany obsidian can be identified by its red and black bands. The color is thought to come from hematite or iron impurities. Most mahogany obsidian comes from Mexico.

Peanut Obsidian: Peanut Obsidian is a unique, naturally occurring crystal with red-orange spheres. These spheres are feldspar crystals that are stained red over time by a coating of Hematite.

Pele's Hair: Pele's hair is a volcanic glass formation made of obsidian, a type of rhyolitic glass with a high silica content. It is formed when gas bubbles near the surface of a lava flow burst, stretching the skin of the molten lava into long threads, usually 2 to 10 inches long, but can also be up to 6.5 feet.

Rainbow Obsidian: The unique colors seen in Rainbow Obsidian result from microscopic mineral inclusions, typically composed of magnetite nanoparticles. These inclusions diffract light, creating a rainbow-like sheen across the stone's surface.

Sheen Obsidian: Sheen obsidian can have a silvery or golden sheen. The iridescent effect in sheen obsidian is

caused by the interaction of light with the parallel layers of minerals, and crystals or bubbles within the obsidian. When light enters the glass and interacts with these layers, it is refracted producing the mesmerizing play of colors that distinguishes sheen obsidian. The exact minerals responsible for the sheen can vary, but they often include magnetite, Hematite, or other iron-rich minerals. Sheen obsidian is used to make jewelry and decorative objects.

Snowflake: Snowflake obsidian is a type of obsidian with small, white spherulites. The white "snowflakes" are clusters of needle-like cristobalite crystals, a high-temperature polymorph of quartz. These crystals form in a radial pattern, resembling delicate snowflakes frozen in time. The formation of these crystalline structures is influenced by the interplay of mineral content, temperature, and cooling rate during the volcanic eruption and subsequent cooling process. Most material is found in Utah or Wyoming.

Where can obsidian be found in the United States and Mexico?

1. Oregon: Varieties of fire, mahogany, and rainbow. The ancient volcanic hills called Glass Buttes hold a dazzling variety of gem-quality obsidian, including mahogany, red, flame, midnight lace, jet black, pumpkin, brown, rainbow, gold sheen, silver sheen, green, lizard skin, snowflake, and more. Fire obsidian is only found in one location in the world: Lake County, Oregon.

2. Wyoming: Black, brown, mahogany, snowflake, and gray. Mainly at Yellowstone National Park.

3. New Mexico: Apache tears.

4. Arizona: Black and dark brown.

5. Colorado: Apache tears.

6. California: All varieties. Most all green obsidian is found in California.

7. Nevada: Black, brown, and mahogany.

8. Utah: Major source of snowflake obsidian.

9. Hawaii: Pele's hair and other varieties.

10. Mexico: Green and mahogany (primary source) obsidian. Peanut obsidian is found only in one location: Alamos, Sonora, Mexico.

Obsidian is used for a variety of purposes, including:

Tools and Weapons: Obsidian was used in ancient times to make blades, arrowheads, spear points, knives, scrapers, and other cutting tools and weapons. Some obsidian blades can be as sharp as surgical steel scalpels.

Ornaments and Jewelry: Obsidian is a semi-precious gemstone and ornamental stone today. Snowflake and rainbow obsidian are examples of obsidian used in jewelry.

Mirrors: Obsidian was polished to create early mirrors.

Art Form: Obsidian knapping (the art of making arrowhead) is a hobby and art form that continues today.

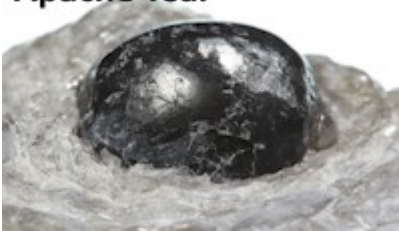
Reconstructive Archeology: Obsidian knapping is used in reconstructive archeology.

Perlite: Hydrated obsidian forms perlite, which is used in construction, insulation, soil conditioning, and more.

Collecting: Museum collections and private collectors.

Bibliography: Wikipedia, Pinterest, AI, World of Stones USA, Science Mail, Mindat, Hawaii National Park Service and USGS

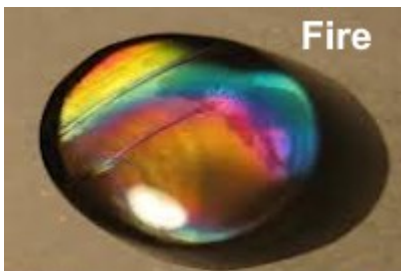
Apache Tear



Black Obsidian



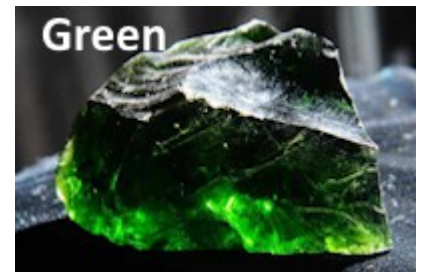
Brown



Fire



Gold Sheen



Green



Mahogany Obsidian



Peanut



Pele's Hair



Rainbow



Silver Sheen



Snowflake Obsidian



Velvet Peacock

Safety in Numbers by Ellery Borow, AFMS Safety Chair

Safety is not just a list of incidents, reports to write, mathematical statistics, or numbers. Safety is not just a list of skill sets we encourage people to learn.

While there are many skill sets in our shared hobby, such as first aid attention, show safety, field trip care, lapidary shop guidelines, safety with driving to our many activities, as well as a myriad of associated safety concerns, one big concern is rarely mentioned, that of our overall health and well-being. Where would we be in our hobby without our overall health and well-being?

A growing body of evidence indicates that just by participating in our hobby we generally experience various combinations of the following:

- Lower levels of stress
- Increased amounts of healthy physical activity
- Improved memory
- Motor skill and eye/hand coordination improvements
- Improvements to our emotional health

All that sounds like a pretty good return just for participating in our hobby.

Other healthful aspects of our hobby include meetings, field trips, picnics, swaps and shows. Why are such activities healthy? Glad you asked. Our in-person activities are vital to the social needs of our being human. We may broaden our horizons and improve our knowledge and understanding of our hobby with great programs, and we may fill our bellies with fine feasts at a great club picnic, but we very much improve our health and well-being when we participate with the social aspects of in-person activity, with our friendships in the hobby.

Far be it for this report to merely be a plea to increase the number of members attending a meeting. It is a plea however, for those who are able, to attend meetings, picnics, shows, and field trips in order that they may benefit from the most human things of sharing smiles, handshakes, warm greetings, and hugs. In the process of that in-person time one experiences the benefit of released feel-good endorphins in the brain, lower cortisol levels (stress associated chemistry), lower blood pressure, and a healthier cardio/vascular system.

Studies indicate our enjoyable hobby time helps with our cognitive abilities, improves our memory, keeps us exercised (with improvement to bone density), and likely improves the quality and longevity of our lives. And, on top of all that, it is likely we also experience better sleep, less depression, lower stress levels, less loneliness (another serious and under-appreciated issue), increased problem solving skills, greater feelings of well-being, and have better opportunities to tell bad jokes. What is not to like about all that?

Attending meetings can be good for one's health.

On the flip side, there are those who say that virtual attendance (such as via Zoom) at club events will be the future of the hobby. Understandably, there are times and places where Zoom meetings are advantageous, although Zoom will not replace a hug, or improve one's bone density.

In-person club activity is no health cure all, but the evidence of in-person health aspects are clear. Hope you can attend an in-person club event soon, for your health safety, because your health safety matters.

from AFMS Newsletter, 10/24

Was Your President A Rockhound?

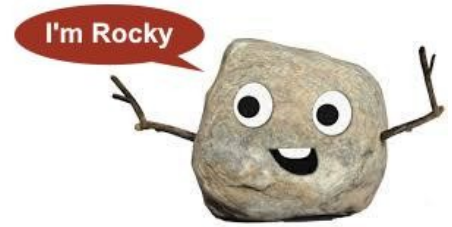
A number of United States presidents had some experience in geological thought and investigations and keen interests in the environment. The first U.S. president, George Washington, was a land surveyor. Thomas Jefferson, the 3rd U.S. president, was a keen supporter of science and maintained an interest in paleontology and played a key role in the development of American paleontology. Theodore Roosevelt, the 26th U.S. president, was a strong supporter of the national park service and was an influential naturalist. Herbert Hoover, the 31st U.S. president, was a Stanford University graduate with a degree in geology and mining – a true geologist/U.S. President. Hoover worked in the mining industry in the western United States, Australia, and China before moving into politics. Hoover lectured on mining at both Columbia and Stanford Universities and his lectures were published in 1909 as Principles of Mining. In 1912, Hoover, with his wife Lou Henry, translated Agricola's De Re Metallica from Latin into English.

<https://digitalcommons.csbsju.edu/compass/vol84/iss2/3/>

from Tulip City Conglomerate, 2/24

Enteroliths are stones that can form inside animals, usually horses, but other animals as well.

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!



Rocks and Minerals by Kat Koch

Find the words in the puzzle. Words can go in any direction. Words can share letters as they cross over each other.

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

- Agates
- Amazonite
- Amber
- Amethyst
- Azurite
- Basalt
- Calcite
- Citrine
- Coal
- Copper
- Crystals

- Fluorite
- Geodes
- Gold
- Iron
- Jade
- Jasper
- Labradorite
- Lead
- Malachite
- Mica
- Obsidian

- Opal
- Peridot
- Polkadot
- Pyrite
- Quartz
- Sandstone
- Silver
- Thunder Egg
- Tiger Eye
- Topaz
- Zinc

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>).

November 9 *Cascade Mineralogical Society – First Creek* maybe, depends on the weather
Roger Danneman 425-228-8781 Roger.Danneman@gmail.com

November 16 *Marysville Rock Club - Blanchard Hill* – Meet before 9 am at the I-5 & Alger Rd Gas & Go –
Dalmation Stone - Bring heavy hard rock tools & safety glasses
Ed Lehman wsmced@hotmail.com h# (425) 334-6282 c# (425) 760-2786
Nique Wicks nwhopyfrog41@gmail.com (509) 670-0630

Young Richard's Almanac by Dick Morgan

The ability to make friends is an international trait that shows people that you are recognized by your actions that lead to making and keeping friends.

Oolites

Composition

Oolite or oölite ('egg stone') is a sedimentary rock formed from ooids, spherical grains composed of concentric layers. The term oolith can refer to oolite or individual ooids.

Ooids are most commonly composed of calcium carbonate (calcite or aragonite), but can be composed of phosphate, clays, chert, dolomite or iron minerals, including hematite. Oolitic hematite occurs at Red Mountain near Birmingham, Alabama.

They are usually formed in warm, shallow, intertidal environments, though some are formed in inland lakes. The mechanism of formation starts with a small fragment of sediment acting as a 'seed', such as a piece of a shell. Strong currents wash the 'seeds' around on the seabed, where they accumulate layers of calcite from the water. The size of the oolites reflect the time that they were exposed to the water before they were covered with later sediment.

Oolites are often used in the home aquarium industry because their small grain size (0.2 to 1.22 mm) is ideal for shallow static beds and bottom covering of up to 1" in depth.

Occurrence

Some oolitic limestone forms the Cotswold Hills in England, as well as the Isle of Portland (famous Portland Stone), and part of the North York Moors.

The Atlantic Coastal Ridge of southeastern Florida, the islands of the Lower Florida Keys, and much of the Everglades, are underlain by Miami Oolite. This limestone was formed by deposition when shallow seas covered the area between periods of glaciation.

Oolites also appear in Indiana, Pennsylvania, Maryland, West Virginia and Virginia.

One of the world's largest freshwater lakebed oolites is the Shoofly Oolite, a section of the Glens Ferry Formation on southwestern Idaho's Snake River Plain. 10 million years ago, the Plain formed the bed of Lake Idaho. Wave action in the lake washed sediments back and forth in the shallows on the southwestern shore, forming ooids. When the lake drained, the oolite was left behind. The other sediments eroded away, while the more resistant oolite weathered into hummocks, small arches and other natural "sculptures". The Shoofly Oolite lies on public land west of Bruneau, Idaho. The physical and chemical properties of the Shoofly Oolite are the setting for a suite of rare plants, which the BLM protects through land use management and on-site interpretation.

There are a couple of websites to visit for the Oolite Interpretive Trail near Grandview:

www.onlyinyourstate.com/idaho/ancient-rocks-id/
www.itstartedoutdoors.com/oolite-interpretive-trail/

from Grindings, 2/24

A Bit of Bling

An American lady entered a jeweler's shop and said, "You sold my husband a diamond ring yesterday but it's the wrong size."

"Not a problem madam, we can adjust the finger size easily."

"Oh, you don't understand, you sold him a five-carat size, and I take a ten-carat size."

from The Panorama Prospector, 5/23

You Know You're a Rockhound if ... you collect interesting specimens, including the brown unknown ones, just in case they might turn out to be something special.

from The Geode, 4/24

Shows

November 9 & 10: Saturday 9 am - 5 pm; Sunday 10 am - 4 pm
Skagit Rock & Gem Club, *Treasures of the Earth*
Sedro Woolley Eagles Hall
1000 Metcalf St.
Sedro-Woolley, WA

November 16 & 17: Saturday & Sunday 10 am – 5 pm
Maplewood Rock and Gem Club, *Annual Demonstration Show*
Maplewood Rock and Gem Clubhouse
8802 196th ST SW
Edmonds WA

November 23 & 24: Saturday & Sunday 10 am – 5 pm
Kitsap Mineral and Gem Society, *Fall Festival of Gems*
The President's Hall
1250 NW Fairgrounds Road
Bremerton, WA

Trilobites were called Dudley Bugs because so many were dug up in the coal town of Dudley, England, during the Industrial Revolution.

Rocky Humor From Various Newsletters

From Jim the Jokester:

Geologists love music, but their playlists get boring — they're only rock and roll.

Beach rocks are so cheap because they're always on shale.

You know the old saying—igneous is bliss.

from The Panorama Prospector, 12/23

Q: Why did the rock start going to the gym?

A: Because it wanted to be bigger and boulder!

from Rockhound Ramblings, 11/23

As a rock salesman, I've had great success with money. Sometimes I take it for granite.

I accidentally rubbed ketchup in my eyes. Now I have Heinzsight.

Singing in the shower is fine until you get soap in your mouth. Then it's a soap opera.

The Black-Eyed Peas can sing us a song but the chick peas can only hummus one.

from Breccia, 6/24

What did the sedimentary rock say to the metamorphic rock?

"You've changed!"

What do you call a rock that's just OK?

Meh-tamorphic.

from Breccia, 4/24

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