

# THE CMS TUMBLER



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

## Connect with us!

Website: <https://www.cascademineralogicalsociety.org>

Club Facebook: <https://www.facebook.com/CasMinSoc/>

Show Facebook: <https://www.facebook.com/cascadegemandmineralshow>

Instagram: <https://www.instagram.com/cascadegemandmineralshow/>

Next Online Meeting:  
April 8, 2021  
7:00 p.m.



This month remember  
to wish a  
Happy Birthday to  
**Trent Burroughs on April 5**  
**Penny Hohn on April 7**  
**Kathy Hartzell on April 13**  
**Vicki Stearns on April 15**  
**Mark Hohn on April 17**  
**Majorie Medlin on April 17**  
**Dexter Dillon on April 25**  
**Lillian Oliver on April 25**  
**Lori Pederson on April 29**  
**Zachary Martin on April 30**

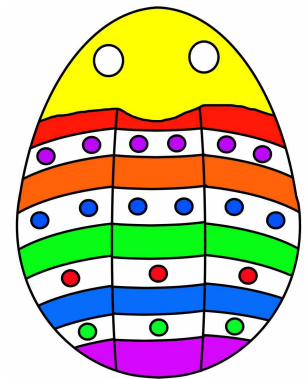
and also remember  
to wish a

Happy Anniversary to

**Richard & Jennifer Russell on April 23 (27 years)**

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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.

CMS Club Address  
25838 W LK Wilderness Dr. SE.  
Maple Valley, WA. 98038

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](mailto:greenrockdraggin@yahoo.com)

**2021 Elected Officers**

<i>Title</i>	<i>Name</i>	<i>Phone</i>	<i>E-mail</i>
President	Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Vice President	Merriann Fu	253-236-5593	merriannf@gmail.com
Treasurer	Charles Benedict	425-306-0465	charlesbenedict@comcast.net
Secretary	Pete Williams	425-228-5063	petewill02@gmail.com
Director	Roger Pullen	206-387-3214	None
Director	Roger Danneman	425-228-8781	roger.danneman@q.com
Director	Richard Russell	253-736-3693	richru1@yahoo.com
Past President	Bob Pattie	425-226-3154	bobpattie@comcast.net
Show Chairman	Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Federation Representative	Michael Blanton	425-271-8757	mblanton41@hotmail.com
Federation Representative	Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Mineral Council	Bob Pattie	425-226-3154	bobpattie@comcast.net
Mineral Council	Jacquie Pattie	425-226-3154	dianahorsfall@comcast.net

**2021 Show Committee Chairs**

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

**2021 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	Bob Pattie	425-226-3154	bobpattie@comcast.net
Meeting Programs	Miriann Fu	253-236-5593	merriannf@gmail.com
Membership	Mark Hohn	253-332-3736	showchair@cascademineralogicalsociety.org
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Open Shop	Instructors Bob Pattie	425-226-3154	bobpattie@comcast.net
Public Relations	Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Refreshment	Angie Bayer	253-631-3840	angiemc61@msn.net
Raffle/Display	Roger Pullen	206-387-3214	None
Shop Operations	Bob Pattie	425-226-3154	bobpattie@comcast.net
Show & Tell	Michael Blanton	425-271-8757	mblanton41@hotmail.com
Social Media	Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Webmaster	Mark Hohn	253-332-3736	showchair@cascademineralogicalsociety.org

2021 CMS Dues are \$15 per year per family

Pay online, by mail, or at our meetings.

Mailing Address: Charles Benedict, 25838 W Lk Wilderness Dr SE, Maple Valley WA 98038

You can pay your dues via credit card!! We now accept all cards through our website or at the meeting.

You can renew your membership or enroll as a new member and pay your dues all in one shot online. You will find it under the "Membership" tab on our website. <http://www.cascademineralogicalsociety.org>



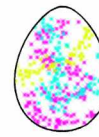


The object of the Society shall be to stimulate interest in the study of the earth sciences, lapidary arts and related subjects.

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

Every member of the club should be receiving a copy of the Northwest Newsletter. If you are not receiving a copy contact Mike Blanton in person or by telephone at (425) 271 -8757 or by computer at [mblanton41@hotmail.com](mailto:mblanton41@hotmail.com)

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

# APRIL

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

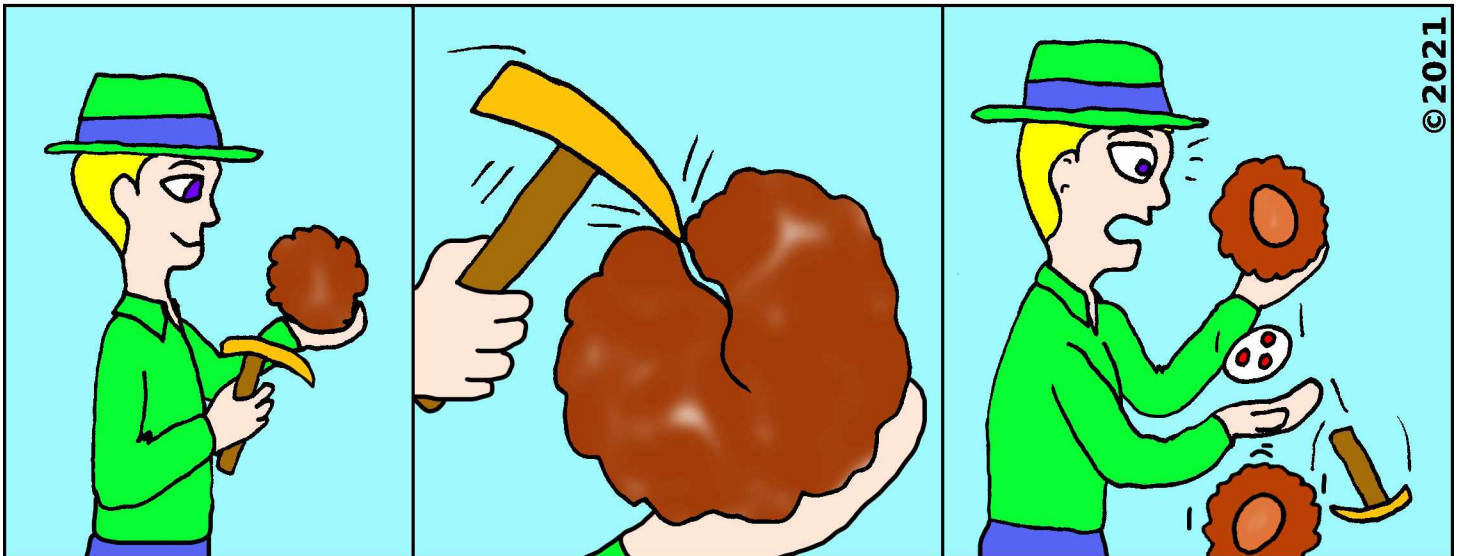
CMS Board Meeting:.....Monday, April 5 (on Zoom).....7:00 pm to 8:00 pm  
 CMS General Meeting:.....2nd Thursday, April 8 (on Zoom).....7:00 pm to 9:00 pm

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 11

## Thunderegg Surprise

by KAM



© 2021

## 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 purpose of the association 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 a database of local rock and gems shows and field trips. It's a great resource if you want to plan on 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 details for 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

## 10 of the World's Most Unusual Volcanoes

[https://www.youtube.com/watch?v=tmDEhNe-\\_l](https://www.youtube.com/watch?v=tmDEhNe-_l)

**CMS Board Meeting Minutes March 8, 2021**

by Pete Williams, 2021 Secretary

*Attendance:*

*President Kat Koch*                      *Vice President Merriann Fu*  
*Treasurer Charles Benedict*        *Secretary Pete Williams*  
*Past President Bob Pattie*            *Director Rich Russell*  
*Webmaster Mark Hohn*                *Guest Diana Horsfall*

Meeting called to order 7:06.

The club did ok financially last year in spite of the pandemic. Getting membership back up could be a problem this year, but we are still doing ok.

Kat discussed offering to the membership sending text messages to remind people of meetings, field trips, and other events. The best rate so far is one company that can provide up to 500 text per month at a cost of \$19/month. Members would have to opt in. The Board voted to approve moving forward.

Green River College informed Kat that they will not be renting out their facilities to us this year to hold our annual show. A discussion was held on the possibility of having an outdoor show this year perhaps in a large parking lot. The Board decided to focus on having a great indoor show next year. This could be at Green River College or potentially at another venue.

The program this week will be Roger discussing club field trips and Terri is presenting her sphere collection. Merriann had the Board play a game of Kahoots as a potential for a future program.

Meeting adjourned at 7:57.

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**CMS General Meeting Minutes March 11, 2021**

by Pete Williams, 2021 Secretary

Meeting called to order at 7:08.

Bob reported on land access status involving the nomination of the new Secretary of the Interior. Topics covered were potentially providing grizzly bears with permanent protection under the endangered species act and prohibiting fracking on public lands.

Charley provided the treasurers report that showed the club doing reasonably well. This is despite the pandemic and the shutdown of most activities.

Kat mentioned that the Board approved the capability of sending text message reminders to club members of meetings and other activities. To opt in members need to go to the web page and sign up.

The program consisted of Terri giving a presentation on some of the spheres in her collection. Roger also discussed the club field trips for 2020. Videos of prior field trips are available on YouTube.

Meeting adjourned at 7:52.

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**Lower Dues for 2021**

2021 club membership dues is \$15 for a family or individual!

The Board has approved a temporary reduction in our dues for 2021 only to \$15 per family or individual.

Even though we are not presently holding in-person general meetings we are now having our monthly general meetings via Zoom. Our general meeting day is the 2nd Thursdays of each month at 7 pm.

Please mark your calendars once again for our meetings and then check your email the 1st week of the month for the Zoom meeting link.

From our website you can use a credit card to renew your membership. You can also mail a check to CMS, c/o Charles Benedict, 25838 W. Lake Wilderness Dr. SE, Maple Valley WA 98038.

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**April 2021 Meetings**

The General Meeting for April will be an online Zoom meeting on April 8th at 7 pm.

Check our website for up dates on the topic or speaker for this meeting.

The Board decided to hold our first in-person meeting in May or June. The exact date will depend on Gov. Inslee mandate and how comfortable the members feel about meeting in-person again.

When we do resume our in-person meetings the club has obtained sanitizers to sanitize the tables, chairs and hands. Everyone will be required to wear a mask until the Governor says otherwise.

---

**New for Members Only – New Texting Service**

You can now sign up for club text reminders for our upcoming meetings and events.

We are all busy and often times forget CMS has an upcoming meeting or event.

Go to our website and in the lower right corner you can register for this service. If you are unable to go to our website you can send a text to the number 21000 and in the body put the word rocks.

So be sure to take advantage of this service. The only stipulation is that you must be a club member. There will be a random drawing for a nice prize after 30 members have registered for the text messaging reminders. So register now and get in the drawing!

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

March's Zoom General Meeting went well. We saw some of Terri Gerard's sphere collection, Bob gave a lands' access report plus a brief report from Roger, our Field Trip Guide. You can always check our website for the next planned field trip plus the details on where to meetup.

We also saw some new faces at the March meeting. Hopefully more of you will decide to attend our April Zoom meeting. You can join via your smart phone, laptop, tablet or desk top computer. If you don't have a smart phone you can dial in and attend via voice only.

*Now let's all jump in with both feet and attend our Zoom April general meeting!*

We will be resuming in-person general meetings in May or June. So stayed tuned for more information.

I would like to remind everyone that the AFMS is holding their annual meeting fairly close to us this year.

*Sublette County Rock Hounds' Annual Gem & Mineral Show*

*Rock & Roll with Wyoming Rocks*

*AFMS and RMFMS Annual Conventions*

*June 18-20, 2021*

*Sublette County Fairgrounds' Event Center*

*10937 Hwy 189, Big Piney, Wyoming*

Going to shows out of our area is always interesting (and hard on the pocketbook) because you see a lot of material we don't see at our local shows. It should be an exceptionally good show since it's both a national and local federation show. These regional and national shows always have great free lecture series plus field trips to the local collecting areas.

We continue to get new members every month via our website. I want to welcome each of you to our great rock club. I hope we get to meet each other in a Zoom meetings.

Anyone that joined our club from September 11, 2020 thru December 31, 2020 (last year) your membership is good for all of 2021.

Stay home, always wear a mask if you have to go out, and be sure to sanitize your hands constantly. I hope everyone stays safe and healthy as we all want to see each other this year.



Welcome  
New Members



I would like to remind everyone that we are hobby club.

As per by bylaws Article II, Section 1:

*"The objective of the club shall be to stimulate interest in the study of the earth sciences, lapidary arts and related subjects. This is accomplished through presentations and demonstrations at club meetings and educational institutions. The club also provides opportunities for field trips, rock collecting, social gatherings at picnics, parties, and regular meetings."*

So please remember to keep everything informative and non-biased as we want all our members to feel inclusive no matter their political or religious views. To do anything other than this we could lose our 501(c)4 tax status.

## Young Richard's Almanac by Dick Morgan

The vast value of a hug ranges from a greeting, or a friendly farewell, to giving solace in a time of grief, and is a non-verbal way of saying, "You are one of us."

## One Way to Engage Juniors at a Distance during the Pandemic by Jim Brace-Thomson

These times are no ordinary times. Near-and-dear, far-and-wide, we all have been impacted by the COVID-19 pandemic. For instance, my own mother was laid low for some five weeks in COVID isolation wards after nearly dying, and we have since moved her from Nebraska to live with us in California, where we are all still adjusting to a whole new and unexpected life situation. Few clubs, including my own, are enjoying in-person meetings. What with vaccine roll-outs now in progress and "herd immunity" a true possibility before this year is out, may we all once again join together and have fun together.

Meanwhile, most of us are still forced to gather virtually online rather than in-person. One local juniors leader has come up with a terrific activity to keep kids engaged, even if at a distance. Dennis Gertenbach of the Flatirons Mineral Club in Colorado alerted me to his fun online activity with "Rocks & Mineral Jeopardy," which he conducted via the free online service JeopardyLabs.com. As with the TV Jeopardy! show, this website enables to you set up jeopardy games, and you can devise and upload your own questions and answers directly related to our rockhounding hobby.

As an example, Dennis shared one that he put together for the kids in his club. Check it out at <https://jeopardylabs.com/play/rock-and-mineral-jeopardy-7>. Thank you, Dennis! This looks like one terrific way to keep kids connected while, as always, having fun!

from AFMS Newsletter, 3/21

## Erupting Fagradalsfjall Volcano, Iceland by Kat Koch

Fagradalsfjall Volcano, Reykjanes Peninsula, Iceland on March 19, 2021 at 8:45 pm local time. The eruption is about 20 miles southwest of the capital, Reykjavik.

The eruption took place about three miles inland from the coast and poses little threat to residents that live in the capitol. Also the area is remote and there are no villages or residents in the area to be threatened.

The last eruption on the peninsula was 781 years ago. The last time Mount Fagradalsfjall erupted was about 6,000+ years ago!

It is a tuya volcano. A type of distinctive, flat-topped, steep-sided volcano formed when lava erupts through a thick glacier or ice sheet. They are rare worldwide, being confined to regions which were covered by glaciers and had active volcanism during the same period.

The volcano is presently not spewing an ash cloud/plume or a lot of airborne pyroclastic material. It seems to be a relatively slow moving ground lava flow. The eruption is not expected to spew out much ash, so aviation should not suffer disruption.

Bibliography: US News, Wikipedia, Volcano Discovery, BBC, Google Maps



## The Wave, North Coyote Butte, Utah by Kat Koch

The "Wave" is in the Coyote Buttes North area of the Arizona Strip. It boasts some of the most fantastic and colorful geology of Navajo Sandstone from the Jurassic area ever seen. Imagine hiking across what looks like once moving currents of now frozen rock, halted in pre-historic time just as the universe's Great Painter was standing there with a bold palette of reds, oranges, tawny dark yellow sand and brilliant gold. It is a site beyond



comparison and deserves its well vaunted reputation.

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The Wave are stripes of lithified eolian laminae, but that just means rock layers made of windblown sand. As Jurassic wind patterns changed, different sand dunes blew across the southwest desert, cementing into the striations that now look like a large topographic map. The water drainage that carved the two main chutes dried up a long time ago, so now wind is the Wave's primary erosional force.

The Wave is located in the Paria Canyon, Vermillion Cliffs Wilderness, border of Utah and Arizona. This wilderness is administered by the Bureau of Land Management (BLM), A day-use permit from BLM is required to visit the Wave.

You must obtain a permit if you wish make the 2.6 mile hike to visit the Wave. In Kanab, Utah, every morning at 8:30 a.m you will find a crowd waiting for the drawing. Normally there are 30 to 130 people not only from the United States but from around the world - Germany, China, France, Italy, America, Canada - anxiously filling out their applications and hoping for the best. Everyone is crowded into a gymnasium at the Kanab Center in downtown Kanab, waiting for the lottery balls to fall. As of Feb. 1, 2021, up to 64 permits are available each day, so while chances of getting a permit are limited, the odds are better than previous years when 20 permits were given out.

Bibliography: Utah National Park Trips – myutahparks.com, Utah.com, Wikipedia

### Some Ways to Spot Fake Minerals and Rocks by Kat Koch

Now days as you roam through rock and gem shows, watch TV jewelry shows or search eBay you see a lot of fake material being sold as "natural stone" or "natural coming from the earth" or some newly discovered stone like Zandrite followed with an © or ®. The © or ® is a dead giveaway that it is a created or synthetic stone.

Then there is also the cost. If the price is too good to be true for an actual stone then most likely it's not a natural occurring stone. Such as paying \$300 a carat for a clear faceted emerald. If it were a true clear faceted emerald most people would go broke paying for.

Real gemstones are going to have flaws, while synthetic gems will look more perfect. Also, fake gemstones tend to sparkle and shine better than real gemstones



If it matters to you, make sure you know what you are buying. So following are a few things to look for when purchasing rocks or minerals.

Andesine: The vast majority of the andesine stones on the market now been proven and admitted as being "Enhanced" and "Diffused". The major TV marketers after settling many law suits out of court have now labeled their material as "Enhanced".



Any stone that has “dragon vein” in its description is a man-made plastic stone from Asia.

**Amethyst:** Check the color. Is it a purple or violet shade. Some gems may have a slightly reddish undertone, but should still remain primarily purple.

- Brightness varies. Some amethyst gems may be so light there is only a light purple glimmer. Some may be so dark that, under light, they appear blackish.
- Color will not be entirely consistent in authentic amethyst. Your gem should have different hues of purple throughout and color may change slightly in response to different lighting.

- Color zoning is the uneven distribution of color in a gemstone. This may occur in amethyst gems. Authentic amethyst may have some color zoning, which can lessen its value, that's typically visible when the gem is laid flat on a white surface.

- Clarity can also help clue you in as to whether an amethyst gem is authentic.

Amethyst is generally eye-clean. This is a term that means the product is free of inclusions, which are materials trapped in a gem during its formation, visible with the naked eye. An authentic amethyst is likely to be mostly clear in appearance. Bubbles and discolorations are unlikely.

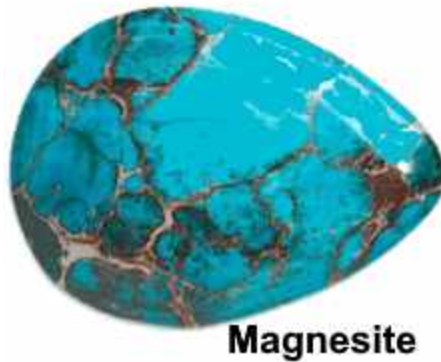
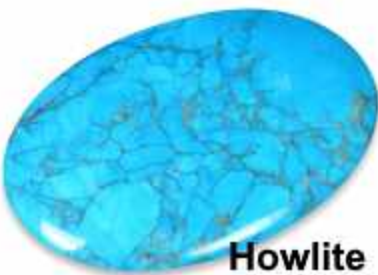
- Amethyst crystal plates have the purple color on the points. It is rare for natural occurring points to be solid purple all the way to the matrix.



**Diamonds:** HPHT stands for a high-pressure, high-temperature. This treatment is an effective tool for changing the color of certain diamonds, making them colorless, pink, blue, green, yellowish green, or yellow. Outside of a well-equipped grading laboratory, this form of diamond treatment is virtually undetectable.

While diamond treatments can increase a stone's color and clarity, the presence of such enhancements may affect the diamond's value – particularly if the price reflects its appearance after treatment. Treated diamonds cost less than naturally occurring colored stones. So again price is an indicator.

**Turquoise:** The majority of turquoise coming from Asian countries is really dyed howlite or magnesite. You will also find plastic created ones using the same method as dragon vein stones. Again, cost if is big factor in determining real or fake turquoise.



Howlite nuggets and tumbled stones that have been dyed a turquoise color. They look like turquoise - but they are not.

**Tanzanite:** When viewed with the naked eye, a tanzanite will most likely appear to have no visible flaws, but with a 10X loupe the natural inclusions will be visible. If a tanzanite appears without any inclusions underneath the scope, chances the gemstone is fake.

A tanzanite will display the same intensity of color when viewed from the side or from the top. A gemstone that looks similar to a tanzanite, such as an iolite will appear slightly yellowish or clear from different angles, compared to the top.

Additional Reading About Other Fake Stones: <https://www.rockhoundtimes.com/fake-minerals.html>

NOTE: Zandrite® is a stunning, man-made glass that is specially formulated by combining rare earth elements such as neodymium, lanthanum and cerium to create its dramatic color change and color shift properties.

Bibliography: Min.dat, Wikihow, International Gem Society (GIA), RockTumbler.com, Tanzanite International, Wikipedia, Rockhound Times



Humans can detect sounds in the frequency range 20-20,000 Hertz. Most earthquake waves have a frequency of less than 20 Hz, so the waves themselves are usually not heard. Most of the rumbling noise heard during an earthquake are buildings and their contents moving.  
from USGS Earthquakes Twitter feed, 3/26/21

# YOUNG TUMBLER NEWS

## Essential Elements by Keith Alan Morgan

There are 11 elements in the human body that are considered essential for survival. Can you find them in the word search? Look up, down, left, right, and diagonal.

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

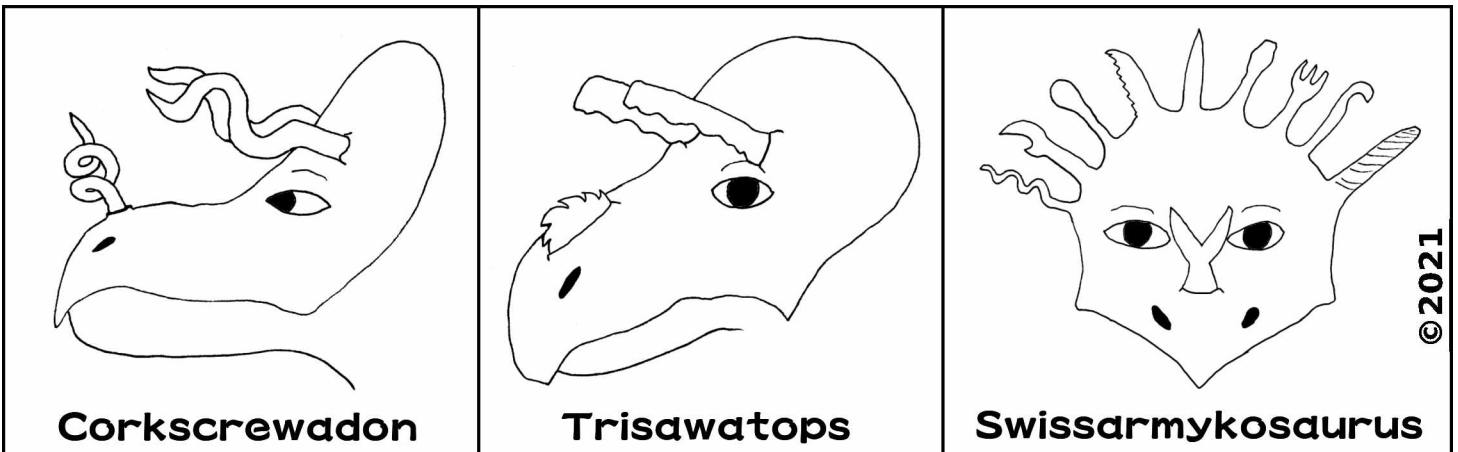
Calcium  
Carbon  
Chlorine  
Hydrogen

Magnesium  
Nitrogen  
Oxygen  
Phosphorus

Potassium  
Sodium  
Sulfur

## Undiscovered Dinosaurs

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.

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

- April 4*** *Darrington Rock Club - Racehorse Creek* – Meet at Hwy 542 at Round About 10 m I-5 before 9 am - Fossils & Morell mushrooms – Bring digging and light hard rock tools  
*Ed Lehman wsmced@hotmail.com h# (425) 334-6282 c# (425) 760-2786*
- April 18-19*** *All Rockhounds Pow Wow - Saddle Mountain* – Meet at Mattawa Boat Launch before 8 am – Petrified Wood - Bring digging and hard rock tools  
*Larry Vess vessel3755@gmail.com or (253) 473-3908*
- April 24*** *Cascade Mineralogical Society - Saddle Mountain - petrified wood*  
*Roger Danneman roger.danneman@gmail.com; 425-228-8781 hm or 425-757-3506 cell*



from Facebook, Idaho Gem Club, Boise, Idaho

When cutting petrified wood, cut across the grain for beauty. Sanding should always go with the grain to avoid tearing. If the grain is badly mixed, it is necessary to hand rub to polish. You can produce an excellent finish with dry crocus cloth and about an hour of hard rubbing before polishing.  
via Breccia, 8/20; from The Diggers Digest

## Covid Thoughts

The dumbest thing I ever bought was a 2020 planner.

The world has turned upside down. Old folks are sneaking out of the house and their kids are yelling at them to stay in the house!

This virus has done what no woman has been able to do – cancel sports, shut down all bars and keep men at home!

Never in a million years could I have imagined I would go up to a bank teller wearing a mask and ask for money. I was so bored I called Jake from State Farm just to ask what he was wearing.

from the Bonney Lake Senior Center Newsletter, 4/21

## You Might Be A Rockhound If:

- If you consider personalizing your license plates with "I GOT ROCKS!"
  - If you have been told not to wash rocks in the Motel bathroom.
  - If when checking into a motel they point at you and tell you not to get that clay on their white towels.
  - You park on the gravel even though it is a longer walk to the store so you can check it out the gravel for stones to polish.
  - You fake talking on your cell phone and walking around that gravel lot so people don't think you're crazy.
  - Every time you go to the grocery store you take 300 of their free circulars to wrap your finds in for the next weekend.
  - You only bought a pickup truck because you can rinse off your specimens in the car wash.
  - You've ever been asked to leave the car wash, because you're getting it too dirty.
  - You were the only kid in the sandbox who ever dug through the bottom.
- You know you're a rockhound if you read this list and realize, 'how did they know what I did?'

from Boulder Buster, 7/20

## A Wealth Of Difference

Gold Filled: A layer of gold backed with another metal such as chrome, nickel, copper or silver.

Gold Plate: The process of placing a base metal, such as copper, in a bath and sealing the two metals through electroplating.

Gold Leaf: A sheet of gold varying from four to five millionths of an inch in thickness used for gilding and other purposes.

Liquid Gold: Finely divided gold suspended in a vegetable oil and used for gilding ceramics.

Vermeil: 14-Karat gold overlaid on sterling silver.

Sterling Silver: Silver of a purity of 925 parts per 1,000. The content is 92.5 percent silver and 7.5 percent of another metal, usually copper.

Silver Plate: silver that has been coated over a base metal such as copper, nickel-silver, or brass in a dipping process that included sealing the two metals through electroplating.

via West Seattle Petroglyphs, 3/08; via Snoopy Gems, 1/08; via Hound's Howl, 12/07; from The Mountain Gem, 11/97

Occasionally someone will itemize the approximate value of the minerals in the human body and it is a ridiculously low amount of money, which is a good thing. Who wants their body mined?

## Terpsichorichnus

by KAM

