



the CMS Tumbler

December
2016

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

*Christmas Party:
December 4, 2016*

**American Legion Hall
25406 97th Pl S
Kent, WA**

The setup can start at 11:00 PM
The eating will start between
12:30 & 1:00 PM

The club will furnish Turkey,
Ham, coffee and juice

Bring a dish or dessert

Bring your own silverware,
cups, plates, etc.

Merry Christmas



*This month remember
to wish a
Happy Birthday to
James Cerenzie on December 4,
Beverley Williams on December 29,
and also remember
to wish a
Happy Anniversary to
Peter & Beverley Williams
on December 29 (34 years)*



This publication is an official bulletin of the Cascade Mineralogical Society Inc. (CMS).

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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.

When on field trips this organization uses CB Channel 7.

CMS Club Address

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Keith Alan Morgan, Editor

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

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Vice President Diana Horsfall
Treasurer Richard Russell
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 Faceting
 Jewelry
 Lapidary Bob Pattie

2017 CMS Dues are \$30. Send or deliver dues to:

Richard Russell
14431 SE 254th St.
Kent, WA 98042

(or pay him at the meeting)

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

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

The CMS external website is <http://www.cascademineralogicalsociety.org>

Our Facebook page is <http://www.facebook.com/pages/Cascade-Mineralogical-Society/194320760605196>



December



SUN	MON	TUE	WED	THUR	FRI	SAT
Merry Christmas & Happy Holidays!				1	2	3
4 Christmas Party	5	6	7	8	9	10 Maplewood Show
11 Maplewood Show	12	13	14	15	16	17
18	19	20	21	22	23	24
25 Christmas	26	27	28	29	30	31 New Year's Eve

Lapidary Class Hours:.....Closed until further notice

Lapidary Shop Hours:.....3rd Tuesday..... 4:00 pm to 8:00 pm

Lapidary Shop Hours:.....4th Saturday..... by appointment (call a few days ahead to set time)

CMS Board Meeting:.....Cancelled this month

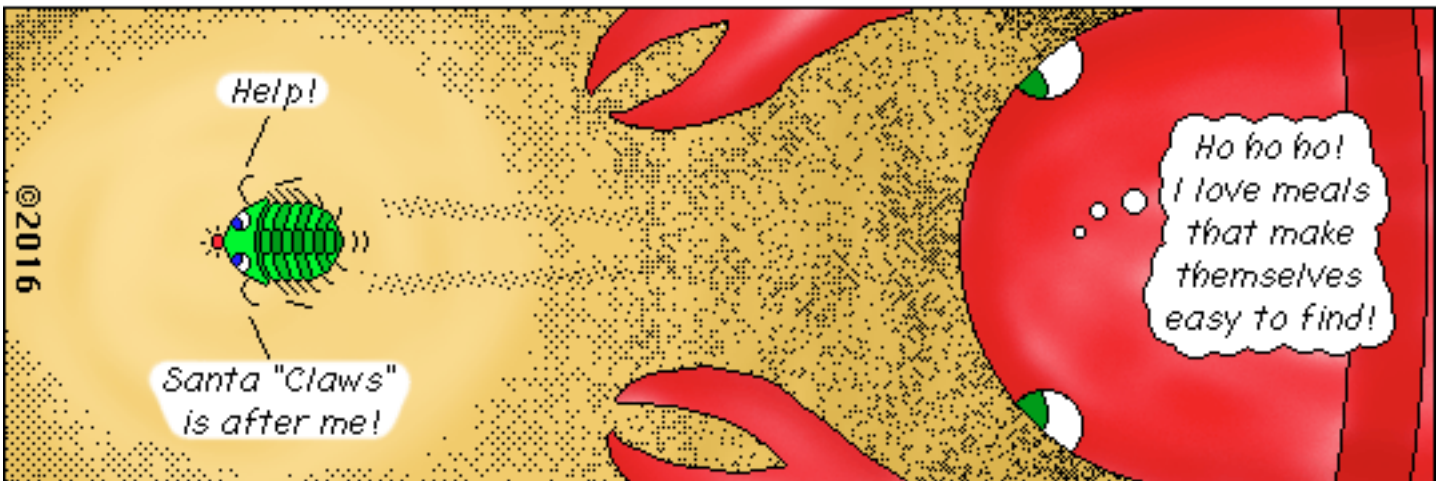
CMS Christmas Party:.....Sunday December 4.....Set-up 11:00 pm, Eating between 12:30 - 1:00 pm

More Field Trip info can be found on Page 9

More Show info can be found on Page 10

Rudolph, the Red-Nose Trilobite

by KAM



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

CMS Board Meeting Minutes November 7, 2016 

Whoever took the Board Meeting minutes had not gotten them to me by press time.

Emerald Hills Science Night by Dick Morgan

Went to Science Night at Emerald Hills Elementary School on October 28, 2016, to give a presentation on rocks, minerals, and fossils. Setup at 5:00 PM, talked with children and adults about the specimens displayed and questions from those at the table. Evening was an enjoyable time and appeared that visitors to the display were satisfied with the information given. Seeing the smiles on the faces of the children as they left with their polished rock made us feel good also. Packed up after 7:30 and returned home.

Emerald Hills The Out Of This World Science Extravaganza by Keith Alan Morgan

October 28, 2016, I helped my dad out at Emerald Hills' Science Extravaganza. It was fun.

It amuses me that no matter how bored some kid looks when they see the rock display, when you tell them that they can have a free rock, their eyes light up and they're digging around the rock tray trying to find just the right rock.

There are also the kids, and a few parents, who just love looking at all the variety of rocks and minerals on display. When most people pick up my dad's 3-inch cube of iron pyrite they're shocked at how heavy it is, at which point I tell them, "Well, it's metal."

Because this event was so close to Halloween, kids and school figures were dressed up as famous and fictional scientists, like Einstein and Mr. Spock. Don Pruitt, the science teacher who invited my dad to display, was telling me that as little as school's teach geology he was amazed at the girls who came in dressed as people like the first woman geologist.

Kids have a lot of interest in rocks and minerals and displays at school fairs and answering their questions about rocks and minerals helps keep that interest going.

Gem Faire Duty by Dick Morgan

Saturday, November 12, 2016, Pat and I went to the Gem Faire at the Puyallup Fair Grounds to support our club effort to interest new members in our club. Arrived shortly after 2:00 PM, sat down at the table shortly afterwards. Talked with several people about the club and its location and activities. Spent time talking with other people about rocks and rockhounding. Left at 6:00 PM when the show closed.

Brrr, It's Cold

For many, the fury of winter is upon us. Thermographs working outdoors in cold climates can face serious safety challenges due to frostbite and hypothermia. Knowing the symptoms of these conditions and proper treatment is imperative for worker safety.

Frostbite is a severe reaction to cold exposure that can permanently damage its victims. A loss of feeling and a white or pale appearance in fingers, toes, or nose and ear lobes are symptoms of frostbite.

Hypothermia is a condition brought on when the body temperature drops to less than 90 degrees Fahrenheit. Symptoms of hypothermia include uncontrollable shivering, slow speech, memory lapses, frequent stumbling, drowsiness, and exhaustion.

If frostbite or hypothermia is suspected, begin warming the person slowly and seek immediate medical assistance. Warm the person's trunk first. Use your own body heat to help. Arms and legs should be warmed last because stimulation of the limbs can drive cold blood toward the heart and lead to heart failure. If the person is wet, put them in dry clothing and wrap their entire body in a blanket.

Never give a frostbite or hypothermia victim beverages containing caffeine or alcohol. Caffeine, a stimulant, can cause the heart to beat faster and hasten the effects the cold has on the body. Alcohol, a depressant, can slow the heart and also hasten the ill effects of cold body temperatures.

When working outdoors this winter, be sure to dress appropriately and work safely!

via Gem & Mineral Journal, 2/15; via Lodestar, 1/15; from Introspection Institute newsletter.

Is it a Cubic Zirconia or a diamond? If the stone is loose, turn it upside down on its table and slide it over a black line printed on a piece of paper. When looking straight down through a CZ, you will see a dot in the center of the stone. A diamond won't do this.

via Gem & Mineral Journal, 2/16; from The Quarry, 2/16

"Better a diamond with a flaw than a pebble without." - Confucius

CMS General Meeting Minutes November 10, 2016



by Pete Williams, 2016 Secretary

Meeting called to order at 7:17. Three guests were in attendance.

Minutes were approved as written.

Tumbler Editor's Report: Pictures of items for the Christmas party auction need to be sent by November 20.

Treasurer's Report: Dues for 2017 are now being accepted. The Christmas party will be on December 4 at the current meeting location. It will be a potluck with ham and turkey provided. Set up will be at 11:00 with eating at 12:30. There will be an auction of good material.

Field Trip Report: The next club field trip is tentatively scheduled for Nov 19 to Greenwater. Information can be found on the website. The Mineral Council also has a field trip that day.

Federation Report: The NFMS show will be in Hamilton, Montana next May. Hotel reservations should be made by January. The American Federation meeting will be in June in Ventura, CA.

Mineral Council: There was supposed to be an announcement at the end of October on the Greenwater road closures. There were some protests on the closures, but no other updates. Only 7 people attended the last meeting in Ellensburg. They are still working 2017 field trips with a preliminary schedule due out in January.

Show Committee: The Board is planning a show in 2018 with Green River CC or Kent Commons as potential sites. Any suggestions of potential venues of around 10K sq. ft. should be provided to Kat.

Old Business: There was only 1 nomination for the open director seat. Mark Hohn was unanimously elected to a 2-year term. Two more volunteers were needed to work the Gem Faire.

Program: Video on a fluorescent rock quarry in CA

Meeting Adjourned: 8:13 followed by the raffle.

Working With Faulty Electrical Equipment Can Make You Become A Real Live Wire! by Mark Nelson

One of the great things about the lapidary hobby is that most of the powered equipment that we use is simple, reliable and serviceable. Saws, polishers, grinders and such are often passed down through various users to clubs and from clubs to individuals. With just basic maintenance a piece of equipment that is 40 years old can perform as well as it did when it was new!

One of the hazards we face when we work with older electrical equipment is in the electrical service. Extension cords and connections are not meant to last forever and must be inspected and serviced or replaced as needed. Here are some of the common conditions found on lapidary equipment that must be corrected:

Grounding. Grounding is the process used to safely eliminate unwanted voltage by directing that voltage to a safe connection to the earth. Electrical equipment must be properly grounded. At one time buildings were constructed without integral grounding (that round hole in a plug outlet connected to a little green grounding wire). When electrical devices, such as polishers, were manufactured with internal grounding their power cords had two flat prongs and a round ground prong. When the new three-prong cords would not connect to the old two-prong outlets, users simply cut off the round ground prong. Now the equipment could be used, but there was no longer protection from electrocution! If your equipment has a cord with the grounding prong removed it must be fixed. Buy a grounded plug and replace the hazardous one. It is easy to do with a screwdriver, snips and a pocket knife.

Frayed Connections. With time and use the point at which a power cord connects with a piece of electrical equipment can become frayed. This will eventually lead to either the equipment shorting out, a fire, injury or all of the above. When you find this condition you may be able to re-insert the cord into the device's connection box and tighten the clamping screws. Otherwise, an electrical appliance shop can replace the cord at a small charge.

Exposed electrical openings, wires or terminals. Electrical hazards exist when wires or other electrical parts are exposed. Wires and parts can be exposed if a cover is removed from an electrical connection, outlet or breaker box. Electrical terminals in motors, appliances, and electronic equipment may be exposed. Older equipment may have exposed electrical parts. If you contact exposed live electrical parts, you will be shocked. You need to recognize that an exposed electrical component is a hazard. Replacement covers for holes and motors are available at your local hardware store and typically need only a screwdriver to make them safe.

Extension Cords: Defective or inadequate insulation is a hazard. Insulation prevents the electrical conductors from contacting each other or you. A split or cut extension cord that exposes the internal wires is a sign that there may be more severe damage that you cannot see. Replace damaged cords. Never attempt to repair a damaged cord with tape. Never hang extension cords from nails or sharp objects. Do not run extension cords through doors or windows.

Ground Fault Circuit Interruptors: Many industrial plants and construction sites are using 2-foot extension cords equipped with a 3-way plug fitting and a built in GFCI. These devices interrupt the electrical circuit to a load when a fault circuit of 6mA or more is detected. It has to be manually reset after a trip incident, an important feature that prevents equipment from restarting without correcting the problem. Cost: between \$19 and \$59.

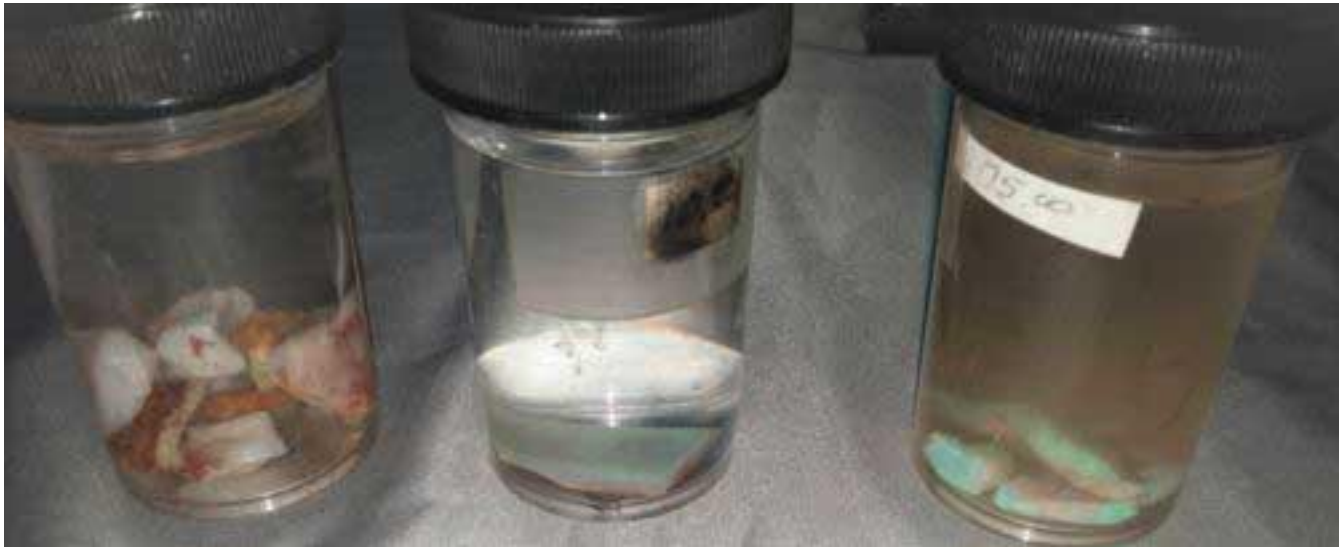
Of course, always disconnect the power to the cord or equipment before performing service or repairs. Be safe out there!

via Rock Chips, 5/15; from CFMS Newsletter, 5/15

Auction Item Pictures Photos by Bob Pattie

There will be an auction of items at the Club Christmas Party and here are pictures of some of the items.





What Is Turquoise? by Bea Dietz

The most simple way to explain would be - volcanoes erupted, mountains collapsed and wind, rain and air pulverized rocks to make dust. That dust settled in protected areas and created layers. Rain washed iron or copper particles over the dust and infused the dust with metals. These layers became Turquoise.

Is Turquoise really a rock? To me it is. The reality is that Turquoise is very soft when in the ground and breaks very easy during a mining process To mine very large pieces is a dream and does not happen very often. The largest piece ever mined weight 180 pounds, the largest piece I ever saw weight 5.5 pound.

The color of Turquoise depends on the metal content of the host rock and the surrounding rock. Generally speaking, the higher the amount of cooper in the host rock the bluer the Turquoise. As more iron is in the host rock, the greener the Turquoise. The colors can be deep sea blue known as "Persian Blue" found in Iran or the lighter blue like "Baby Blue" from Turkey. The USA produces a light blue Turquoise in Arizona out of the "Sleeping Beauty Mine" and we also have the "Fox Mine" in Nevada with a black Matrix and "Bad Boys of Cripple Creek" with a green Turquoise and it is the hardest Turquoise in the USA. It measures 6.7 to 7.7 on the Mohs scale.

How can you tell where the Turquoise is mined from? The matrix will tell you. The fine lines or deposits in the Turquoise will tell you.

Coarse black lines - China, Africa.

Finer black lines - Colorado, Nevada, South America.

Brown Lines or brown mass - Nevada, Colorado.

White or silver lines - Iran, Turkey (Silver Lace).

"White Lace" is very rare in Colorado, but it has been found.

When shopping for Turquoise you will have different price brackets to shop from. Untreated, natural Turquoise is the most expensive Turquoise. Only 10% of all jewelry is made with untreated Turquoise. Enhanced Turquoise is infused with liquid quartz. Stabilized Turquoise is covered with epoxy, heated with high temperatures and covered with wax. Reconstructed Turquoise is pulverized and mixed with other stones, than made into a paste. Heated and dyed into the color of Turquoise and sold as the real thing.

via The Quarry, 1/16; from Canaveral Moonstone, 1/16



Show



December 10 & 11: Saturday 9 am - 6 pm; Sunday 10 am - 6 pm

Maplewood Rock and Gem Club, 5th Annual Winter Bazaar

Maplewood Rock and Gem Clubhouse

8802 196th ST SW

Edmonds WA



Citrine Or Topaz?

Clean the stone then, using a toothpick, put a drop of water on the table of the stone. The water will form a high bubble on real topaz. On quartz the water flattens out.

via Gem & Mineral Journal, 2/16; from The Quarry, 2/16

So What Do You Give a Rockhound Golfer for Christmas? A Wyoming Jade Putter! by Mary Loose DeViney

For Christmas, my husband surprised me with a gift that included both of my hobbies.

Wyoming nephrite jade took millions of years of extremely high pressure and temperatures to develop the micro-crystalline molecular structure and that is what gives the putters such a unique feel.

The putters are “flat lapped” on polishing machines to produce a mirror flat face. The weight of the head, the angle of the shaft and the loft of the face are all within the “standards” of typical putter’s designs approved by USGA. This is a great way to enjoy being a rockhound and a golfer.

from Gem & Mineral Journal, 3/15

The Night Before Christmas

by Edna F. Pauli

’Twas the night before Christmas and all through the house
Not a creature was stirring, there wasn’t room for a mouse.

With geodes and nodules under table and chair,
A wee little mouse can’t squeeze in anywhere.

The children were nestles all snug in their beds
As visions of fossil fish swam through their heads,
And Mother, dreams of opals and me of a lap,
Had just settles down for a long winter’s nap.

When out in the street there ‘rose such a clatter,
I jumped out of bed as mad as a hatter,
Stumbled down stair, two at a time,
Just as our clock tolled its 3 a.m. chime.

I opened the door and took a long look,
The sight that I saw there would make quite a book.

For parking in front with a roar and a squeak,
Was dear old St. Nick in a well-loaded jeep.

He paused just a moment to check his long list
And made doubly certain no one would be missed.

There’s agate, onyx, turquoise, and rhodonite,
Carnelian, crystal, sapphire and malachite.

He names every stone I ever had heard,
And my heart was so happy it sang like a bird.

For rocks to a rockhound are really a must
Right next to that stuff labeled, “In God We Trust.”

It took quite a while to do this little chore,
But as soon as he’d finished, he came straight for the door
And I can’t understand, though I’ve honestly tried,
But before I could turn, he was right there inside.

He spoke not a word but went straight to his work
And I stood there and watched through I felt like a “jerk,”

For he knew what I wanted more than I did myself
And was wise beyond reason, this right jolly old elf.

The gifts he had brought were trips for the next year,
And the making of new friends from far and near,
The singing of old songs around campfires bright,
And being with the gang every rock meeting night

He picked up his pack and prepared to depart
And I gave him my thanks from the bottom of my heart.

For friendship we know is a wonderful gem,
And the principal key to Peace Among Men.

He sprang to his jeep, and stepped on the gas
And left ‘mid the snowflakes which sparkled like glass,

But I heard exclaim as he drove out of sight,
“Merry Christmas Rockhounds and to all a good night.”

via Golden Spike News, 12/14; from Golden Spike News, 12/54

