



The CMS Tumbler

**June
2016**

This publication is an official bulletin of the Cascade Mineralogical Society Inc. (CMS).
(Previously known as the Boeing Employees' Mineralogical Society (BEMS))

Next Meeting:
June 9, 2016
7:00 p.m.

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

The Program is Blue Forest
Wyoming Petrified Wood

The Show & Tell Theme is different types of
Petrified Wood from around the USA. Bring
pieces that show the difference between
petrified woods from various locations.

This month remember
to wish a
***Happy Birthday to
Leonard Bahr on June 7
Carolyn Mackey on June 24
Margaret Squires on June 27
Brenda Haworth on June 29
Dick Morgan on June 29
Lloyd "JR" Ruegg on June 29***

Information for the June field trip was not ready
at press time check the website
(<http://www.cascademineralsociety.org>)
for date and location.
It will also be announced at the meeting.

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

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

Tips, suggestions, recipes and experiments printed in this newsletter are the experiences and/or opinions of the individuals submitting them. We are not responsible for their authenticity, safety, or reliability. Caution and safety should always be practiced when trying out any new idea.

When on field trips this organization uses CB Channel 7.

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

CMS Club Address
Rich Russell
1 4431 SE 254th St.
Kent, WA 98042

Keith Alan Morgan, Editor

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

Officers & Directors 2016

President Kat Koch
Vice President Diana Horsfall
Treasurer Richard Russell
Secretary Pete Williams
Director Roger Pullen
Director Mark Hohn
Past President Bob Pattie
Federation Representative Michael Blanton
Federation Representative Kat Koch
Mineral Council Bob Pattie
Mineral Council Jacquie Pattie
Refreshment Diana Horsfall
Membership
Health & Welfare Bev Williams
Library Bob Pattie
Video Library
Raffle/Display Stanley Loreen
Show & Tell Michael Blanton
Field Trip Tony Johnson
Tumbler Editor Keith Alan Morgan
Webmaster Keith Alan Morgan
South Sound Show
Events Coordinator
Public Relations Kat Koch
Club Historian
Donations Kat Koch
Shop Operations Bob Pattie
Open Shop
Shop Instructors:
Faceting
Jewelry
Lapidary Bob Pattie

2016 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>

June

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

Lapidary Shop Hours:.....3rd Tuesday..... 10:30 am to 4:00 pm

Lapidary Shop Hours:.....4th Saturday..... 11:00 am to 5:00 pm

CMS Board Meeting:.....Monday before the General Meeting.....7:00 pm to 8:00 pm

CMS General Meeting:.....2nd Thursday.....7:00 pm to 9:00 pm



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

CMS Board Meeting Minutes May 9, 2016

by Pete Williams, 2016 Secretary

Members Attending

President Kat Koch

Treasurer Rich Russell

Federation Mike Blanton

Past President Bob Pattie

Vice President Diana Horsfall

Secretary Pete Williams

Mineral Council Jackie Pattie

Director Mark Hohn

Meeting called to order at 7:10

The CMS Christmas party will be held on Sunday December 4. Rich has paid for use of the American Legion hall and also equipment storage through June. A date for the August picnic is still in the works.

The Spring Valley Montessori school made a request for a presentation from CMS. Bob arranged one for June 1. Bob will also present to Honeydew Elementary school on May 19. Their school provides a donation to the club from the PTA.

The club field trip to Saddle Mountain had 5 participants. They also had a side trip to the Diatom pits. The May club program will be a video on the White Sands National Monument. The theme for May is material from field trips.

The club is looking for a backup field trip leader. Potentially we will join together with the West Seattle club for field trips and they can provide a backup leader.

There is a meeting on Wednesday night regarding the Snoqualmie/Greenwater recreational area and options for road closures. The options to be presented are: 1. No change, 2. Significant road closures, 3. Partial road closures. Bob Pattie, Ed Lehman and others will attend.

Mike and Kat brought up a concern that since CMS club members pay per family that some members are not registered by the Federation. This means that they can't enter competitive displays at Federation show, junior are not eligible for awards, or the newsletter can't enter competitions. One idea was to have those family members pay a fee to cover Federation and Mineral Council dues only or about \$5. Any decision was delayed to the next meeting.

There was a request to obtain copies of the documents used in the club display case regarding petrified wood as the state rock. The person was directed to the Mineral Council. Bob's neighbor donated a steel frame to the club that can be used to hang the tarps covering club rocks.

The next meeting will be June 6 at Panera Bread in Kent.

Meeting adjourned at 8:06

Young Richard's Almanac by Dick Morgan

The nice things about growing old are fond memories, grandkids and great-grandkids.

Federation Endowment Fund Tickets Now Available

Mike Blanton is selling tickets for the Federation Endowment Fund. He is a member of the Cascade Mineralogical Society, West Seattle Rock Club, Puyallup Valley Gem Club and the Kitsap Mineral & Gem Club. They are available by contacting him directly or looking for him at the various Club meetings. He is selling the tickets from now through the first week of July. Tickets are \$5 each or 5 for \$20.

To view some of the prizes go to: http://www.amfed.org/2016_AFMS_Endowment_Fund_Drawing.pdf

Graben, German for ditch, is a piece of Earth's crust thrust downward between faults.

Club Display Cases

Our Club's display case, on the signing of the Washington State legislature's bill that designated the Petrified Rock as Washington state's rock, at the Bedrock Prospector's Show in Lacey on April 2 & 3 and at the West Seattle Rock & Gem Show on April 23 & 24 were a big hit!

Both shows were well attended. The West Seattle Show had a little over 200 children/juniors attend with a total attendance of 3,000+ people in the 2 days. I also had several inquires about our club and information on our monthly meetings.

Below are a few pictures of the Club case from the West Seattle Show.



CMS General Meeting Minutes May 12, 2016

by Pete Williams, 2016 Secretary

Meeting called to order at 7:12. Minutes were approved. Door prizes were won by Pat and Jim.

Tumbler Editor and Webmaster's Report: Thanks to all those submitting articles recently.

Treasurer's Report: Still taking 2016 dues. Club business cards are available to anyone who would like to advertise the club.

Shop Reports: The entrance to the shop has been cleared. A steel frame has been donated to the club and will be used to shore up the existing tarps.

Field Trip Report: The next club field trip is on May 21 for red and black agate in Greenwater.

Federation Report: The Yakima club agreed to hold the show in next year in April. This year's show will be at the end of July in Albany.

Library: The books are stored at Bob's house. Members can call him to borrow.

Mineral Council: The Forest Service is planning on closing roads in Greenwater due to lower funding. They do not have the funding to maintain all the roads per government requirements. Currently there are 260 miles of roads. There are 3 options being proposed: 1) No change, 2) Close 77% of roads, 3) Close about 30% of roads. Option 3 is favored by the Indians and those interested in picking fruit. Bob provided copies of information related to the environmental impact statement and information on how to mail or email your comments to the Forest Service by May 27.

The colored collecting site maps have nearly sold out. More are being printed.

Health & Welfare: Jerry Chilson's wife passed away. Tony Johnson's twin sister also passed away recently.

Old Business: There has been good responses to the new web site. There were requests by 2 schools for presentations.

New Business: The June meet program will be a video on Blue Forest Wyoming Petrified Wood. The theme will be petrified wood from around the USA. Kat is contacting the Burke Museum to provide a future program on the geology of Washington.

Program: A video on White Sands National Monument in New Mexico.

Meeting Adjourned: 8:50 followed by the raffle.

Displays:

Kat Koch and Mike Blanton - Common opal and petrified wood found on April's field trip to Saddle Mountain and George.

Dick Morgan - Many pieces of rough material as found, some tumbled material, and some sliced material with a few polished pieces.

Bob Pattie - Greenwater area agates and jaspers.

A Note From The President's Desk

by Kat Koch, 2016 President

I feel people are starting to notice that CMS is alive and well. Our membership is growing!

Just a reminder: If you have not paid your 2016 dues you can send Rich a check or pay at the next meeting. You can find the mailing address for membership checks in the newsletter or on the website. Please remember to keep your membership current.

Now that summer is here it's a good time to take advantage of our lapidary shop. You can contact Bob Pattie and arrange a convenient time to use the shop. Bob is very accommodating and easy to work with so take advantage of our equipment. The only requirement is your dues must be paid for 2016.

Thanks to Tony Johnson we have a monthly field trip. With summer here it's a good time to take advantage of the field trips to our local mountains as the Forest Service is soon going to close from 40% to 60% of the access roads throughout Western Washington. A lot of our good long-time sites are going to disappear for good or only be accessible by hiking in. It is going to make it more difficult for people with young children, physical limitations or that can't hike any distance. You will have to hike in carrying tools and tools and rocks back out in order to do any rock hounding. Parking will also be more difficult to find.

The last date for giving ones opinion on the road closures was April 27th. The final decision is now in the process of being made by the Forest Service.

Just a reminder that CMS has a booth at the Puyallup Gem & Rock Show at Swiss Park, Bonney Lake on June 3rd thru 5th. Rich is going to need help transporting rock buckets to the Show plus he will also need help manning the booth. Please contact Rich to confirm when you can help him.

Mark your calendars now for our June 9th meeting. It's about the Blue Forest of Wyoming. Show 'n Tell is all different types of petrified wood from around the US. There is a big difference between petrified wood and where it is found. So collect all your petrified wood samples and bring them to the meeting. Tell us, if you know, where it was found and type of tree it came from. This should be a very interesting meeting.

Saddle Mountain Field Trip Report April 30 2016 by Kat Koch

5 people, all CMS Members, turned out for our trip to Saddle Mountain on Saturday.

We met at the Shell Station in Mattawa and Mike led us to the first stop at Picture Wood area of the Mountain. We couldn't have had better field guides than Mike and Tony as they knew every nook-and-cranny of the mountain.

The weather was beautiful, clear, sunny, shirt sleeve comfortable with a very light breeze. The scenery was stunning.



At the Picture Wood area we found a few small pieces of petrified wood and bog.

There we met a father-daughter, from the Snohomish area, doing some rock hunting and they joined our group for awhile. They had a four-wheel drive truck and soon they left us and continued down the steep side of the Picture Wood area. They found some nice medium size pieces of wood. We poked around there for awhile. All of us found some more small to medium size pieces of petrified bog and wood.

Our group headed on over to the microwave towers to hunt for red rind petrified wood. There we met a family of 4 digging at a huge pit. They were from a remote area upper Skagit River. The Mom was the big rockhounder and polisher in their family. Her husband and kids were helping her find tumbling material. We hung around this spot for awhile and dug around another pit someone else had worked on. Again finding small to medium size pieces of petrified wood and bog.

Mike and I said goodbye to everyone and we moved up to the mountain ridge. There we met a father and 2 sons (4 and 6 years) from the Tri-Cities area. Mike gave them tips on finding petrified wood and also gave the young boys each a piece of polished petrified wood. The boys were so very cute and excited with the polished piece. We again found a few smaller pieces of Petrified wood.

Tony headed down to the Rock Shop in Vantage. Mike and I then headed to the Diatomaceous Earth Mines in George (they were on the way home off I-90) to hunt for opal.

Boy did we make a haul! Below is a picture of some of the pieces we found.

This was my first trip to Saddle Mountain and I sure enjoyed it. The side trip to the Diatomaceous Earth Mines was a cherry on top of a great day!



Some Pictures From The Enumclaw/Greenwater Trip On May 21, 2016

The report appears to have gone missing during emailing, but this is what the trip looked like.



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 trips have fees to non club members, so they can be a day member, and be covered under club insurance. The usual fee is \$.50 a day.

Information from the Washington State Mineral Council webpage (<http://www.mineralcouncil.org>).

- June 10-14** *Spokane Rock Rollers - Succor Creek & McD* - Call Host for Information - Thundereggs & Agate – Bring digging & hard rock tools
Mike Shaw—mikeshawmoose@yahoo.com (509) 244-8542
- June 18** *Darrington Rock Club - FR 17 & 18* – Leave at 9:00 am at Darrington IGA - Jade, Serpentine, Hematite - Bring digging tools
Ed Lehman—wsmced@hotmail.com (425) 334-6282 (425) 760-2786
- June 23-26** *Northwest Opal Society - Madras, Oregon* – Leave at 8:00 am at County Fair Grounds - Agate, Thundereggs, Petrified wood – Bring digging & hard rock tools
Tony Johnson— (253) 863-9238

Honey Dew Elementary School Demonstration by Bob Pattie

Our annual trip on May 19th to the Honey Dew Elementary School, in Renton, this year was very successful as it has been for the past five plus years. We had three classes of third grade students, about 90 students. The students as usual, had many questions about the rocks on display and also about their own rocks. The floating rocks (pumice) is always a high point as well as the polished faces on the cut stones. Bob, Jackie Pattie with Diana Horsfall spent the afternoon in enjoying their enthusiasms and energy about rocks.



Shows

June 3 – 5: 10 am – 5 pm
Puyallup Valley Gem and Mineral Club
Swiss Park
9205 198th Avenue East
Bonney Lake, WA

June 25 & 26: Saturday 10am – 6pm; Sunday 10am - 4pm
Oregon Coast Agate Club, 53rd Annual Gem & Mineral Show
National Guard Armory
541 SW Coast Hwy
Hwy 101
Newport Oregon

Enhanced, Treated, Heated, Dyed, Stabilized, Created, Irradiated, Fake? by Deborah Phianz

Gemstones and semiprecious stones have been fiddled with for centuries to make them "more" colorful, more eye-catching, and easier to work. This does not make them "fake". Know what these terms and treatments mean.

Heat Treated: This is the most common treatment and is as old as fire. Humans heated agate and jasper so as to be able to knap the stones for tools. Humans also heat gem material to enhance, clarify or create color in a stone. Amethyst is heated for citrine and ametrine. Zircon is heated to clarify the stone to clear white. Sapphires are heated to get the most amazing pinks and blues. Tigereye turns blue or red: carnelian agate turns orange-red. Aquamarine may go from green-blue to blue. Rubies may lose a purplish tint. Iolite may be turned to a deep blue.

Dyed: this is also a common practice. Agate is dyed to fancy pinks, purples, oranges and blues--eye catching and very saleable. Chalcedony is often dyed; black is old as onyx and green is sold as chrysoprase. Howlite is often dyed to look like turquoise, lapis, sodalite and charite. Turquoise and Jadeite are often dyed to enhance the natural color. Alabaster, coral banded calcite, and marble are dyed to enhance their color or to imitate other semiprecious stones.

Irradiation: while topaz is currently the most commonly irradiated gemstone (to get various shades and tones of blue) this is also how one gets those fabulously colored diamonds. In fact, diamond was the first gemstone color treated with radiation.

Stabilized: opals are often stabilized--either by filling such as with opticon resin (similar agent) or by capping with as a doublet or triplet. Emerald has a long history of fracture filling due to its popularity and its tendency to be highly included and fractured. While natural oils have traditionally been used for filling and stabilization, modern synthetic resins are now being used, such as Opticon, which are more permanent than the natural oils. Turquoise and coral are also stabilized in such a manner so as to make them a bit more durable.

Created: This is a touchy subject for some folks. Much like farmed pearls are real with a center of plastic or mother of pearl rather than sand. Still real, still a pearl, just helped to grow by human hand. Laboratory grown crystals of ruby, sapphire, diamond, emerald and star sapphire are real semiprecious stones... just not grown by Mother Nature.

So, Real Or Fake??: This "real vs fake" can be argued with all sides being technically correct. That is not the most important information one can have. The really important bit about this from a lapidary or jeweler's point of view is disclosure. Does one know up front that the stone you are getting has been "helped along" by human touch? Do you as a lapidary artist, gemsmith, jeweler, or craftsman know what you are using?