

The CMS Tumbler

August
2022

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

Next Meeting:
August 11, 2022
7:00 p.m.

American Legion Hall
25406 97th PI S
Kent, WA

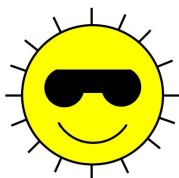
The Program is Jim & Adian
Cerenzie of Vug Meister

The Show & Tell
Theme is something you
found rockhounding

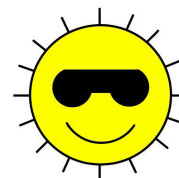
Club Show August 20 & 21
at Green River College

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*This month remember
to wish a
Happy Birthday to
Jennifer Gust on August 8
James A. Berg-Bradley on August 11
Travis King on August 11
Terri Cornell on August 13
John Wright on August 14
Erica Petty on August 16
Megan Petty on August 16
Cortney Donovan on August 18
Michael Stevenson on August 22
Luke Balcom on August 25
and also remember
to wish a
Happy Anniversary to
Jonathan & Tami Fraser on August 8
Isaac & Merriann Fu on August 9
Scott & Lauri Miles on August 12
Robert Merriman & Nan Li on August 25 (12 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.

New Club Mailing Address:
Cascade Mineralogical Soc.
c/o 25838 W. Lake 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

2022 Elected Officers

President Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Vice President Linda Jorza	206-478-1642	ljorza@gmail.com
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Secretary Pete Williams	425-228-5063	petewill02@gmail.com
Director 1 – At Large Kathy Hartzell	253-277-0329	k.hartzell@yahoo.com
(Shared Position) Garry Hartzell	253-277-0329	santacruz1@yahoo.com
Director 2 - Field Trips Roger Danneman	425-228-8781	roger.danneman@gmail.com
Director 3 – Programs Paul Ahnberg	941-704-2063	runhikebird@icloud.com
Director 4- At Large Richard Russell	253-736-3693	richru1@yahoo.com
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Mineral Council Diana Horsfall	425-226-3154	dianahorsfall@comcast.net
Mineral Council Jacquie Pattie	425-226-3154	dianahorsfall@comcast.net

2022 Show Committee Chairs

Cascade Show Chairman Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Show Treasurer Pete Williams	425-228-5063	petewill02@gmail.com
Show Silent Auction Michael Blanton	425-271-8757	mblanton41@hotmail.com
Pre-Show Raffle Case & Donation Requests Zach Pratt	253-600-8520	zachpratt25@gmail.com
Show Raffle Case Display Terri Gerard	206-437-0240	eyeballgraphics2002@yahoo.com
Raffle Prize Distribution Need Volunteer		
Show Demonstrators Richard Russell	253-736-3693	richru1@yahoo.com
Show Load In/Out Zach Pratt	253-600-8520	zachpratt25@gmail.com
Show Display Case Presenters Garry & Kathy Hartzell	253-277-0329	k.hartzell@yahoo.com ; santacruz1@yahoo.com
Show Road Signs		
Show Event Volunteer Recruit Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Show Refreshments for Vendors & Volunteers		
Spinning Wheel Angie & Brian Bayer	253-569-0245	Text to her number (no email)

2022 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 Diana Horsfall	425-226-3154	dianahorsfall@comcast.net
Meeting Greeters Angie & Brian Bayer	253-569-0245	Text to her number (no email)
Meeting Programs Paul Ahnberg	941-704-2063	runhikebird@icloud.com
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Public Relations Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Refreshment Angie & Brian Bayer	253-569-0245	Text to her number (no email)
Raffle Master Roger Pullen	206-387-3214	Phone calls only. No email or texting.
Show & Tell Michael Blanton	425-271-8757	mblanton41@hotmail.com
Webmaster Gina Manso	425-281-3502	ginamanso51@gmail.com
Facebook Groups 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
West Seattle Timebank Volunteers Linda Jorza	206-478-1642	ljorza@gmail.com

2022 CMS Dues are \$25 per year per family

Pay online, by mail, or at our meetings.

New Mailing Address: Cascade Mineralogical Soc., c/o 25838 W. Lake 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

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.

August

Sun	Mon	Tue	Wed	Thur	Fri	Sat
	1	2	3	4	5	6
7	8 Board Meeting 7:00 pm	9	10	11 General Meeting 7:00 pm	12	13
14	15	16	17	18 Show Set-up	19 Show Set-up	20 Club Show
21 Club Show	22	23	24	25	26	27
28	29	30	31	Club Show at Green River College August 20 & 21		

CMS Show Committee Meeting:.....Monday, August ?.....6:30 pm to 7:00 pm

CMS Board Meeting:.....Monday, August ?.....7:00 pm to 8:00 pm

CMS General Meeting:.....2nd Thursday, August ?.....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

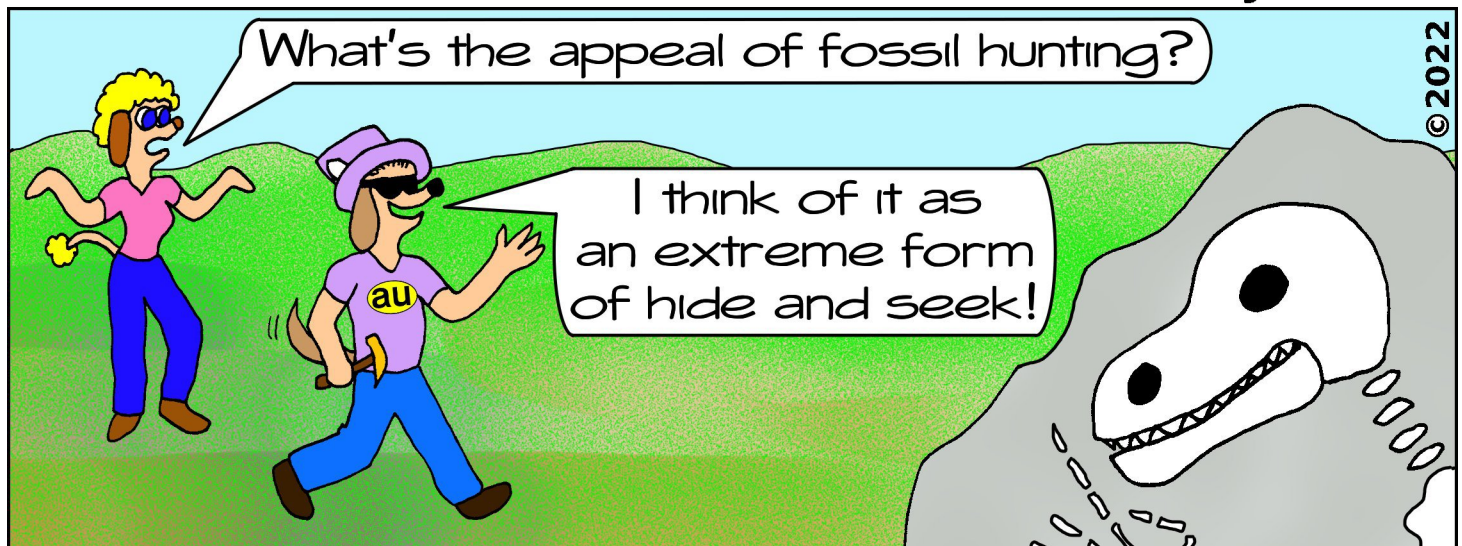
Lapidary Shop Hours:.....3rd Saturday..... by appointment only (call a few days ahead to set time)

More Field Trip info can be found on Page 10

More Show info can be found on Page 12

Son of Mr. & Mrs. Rockhound

by KAM



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

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

Our meetings are now on YouTube. The meeting will be available, at the latest, on Sunday night following the meeting. Don't forget to "Like" and "Subscribe"! [YouTube Link](#)



CMS Board Meeting Minutes July 11, 2022

Canceled.

CMS Picnic July 16, 2022

by Keith Alan Morgan

The picnic was held on Saturday, July 16 at the Lake Wilderness Arboretum. It was bright and sunny, 32 members showed up. Good food, good company, the auction featured screaming deals. A good day all around.





Previous page:

1. A shot of the picnic area & members.
2. Sign-up sheets for the show.

This page:

1. Food table.
2. Members looking at the items up for auction.
3. Shot from behind at the auction.
4. Shot of auctioneer, Rich Russell.
5. Pete and Beverly Williams adding up the auction sales.

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

Our Cascade Gem & Mineral Show is coming up. We will be about 2 weeks from show time when you read this!

Our August meeting will be a recap of what's going on at our Cascade Gem Show. It will also be our last call for volunteers. Then Jim Cerenzie and his Aidan will tell us about their rockhounding adventures around the northwest. They have a YouTube channel called "Vug Meister."

I want to note that over half of the volunteers listed below are members who volunteer for everything, plus 4 are not club members! **We can still use additional volunteers on Thursday late afternoon/early evening to mark off the booth spaces, on Friday to help set up, and on Saturday for various tasks during the show.**

If you have time to help, it would be greatly appreciated. Just email me that you are available on which days and times. president@cascademineralogicalsociety.org. You can also call or text me. My phone number is on page 2 of this issue. Please let me know if you intend to show up to help so that I know we have all the bases covered.

I want to acknowledge and thank everyone that has offered to volunteer to date. I greatly appreciate your offer to help with our gem show. The show would have fallen apart without your volunteering. People like you are more valuable than diamonds. Thank you in advance for your time and hard work.



Paul Ahnberg
Noelle Barnes
Angie Bayer
Brian Bayer
Charley Benedict
Caly Bird
Mike Blanton
Van Cleland (non-member)
Ananda Cool
Dave Cornell
John Cornell
Alex Danneman

Roger Danneman
Aaron DeSelma
Sue Fox (WSC member)
Fred Funk
Julie Galliani-Manso
Terri Gerard
Garry Hartzell
Kathy Hartzell
Diana Horsfall
Linda Jorza
Kat Koch
Gina Manso

Zach Pratt
Jennifer Russell
Rich Russell
Peggy Shashy
Larry Smith (non-member)
Randi Smith (non-member)
James Starke
Mike Stearns
Vicki Stearns
Christina Vitellaro
Bev Williams
Pete Williams

Our annual club picnic went very well. We had 32 people join us at the Lake Wilderness Arboretum for a potluck lunch and then the club auction. It was good seeing everyone and visiting with each other. Thank you to everyone that purchased items at the auction. The auction brought in \$515 for the club treasury.

I also want to give a big thanks to Rich Russell for his donation to the auction. Rich creates such outstanding faceted stones. His donation to the auction this time was a beautiful faceted 6.62-carat Citrine stone set in sterling silver. Rich does such incredible work!!

We continue to get many new members every month. So if you are a new member, please be sure to come up and introduce yourself at our meeting. That way, I can tie your name to your face. I hope to see all of you at our August meeting.

Welcome
New Members

General Meeting – August 11th – Thursday @ 7 pm

Topic: Our Cascade Gem and Mineral Show will be in 1 week. Kat Koch, Show Chairman, will speak on the plans for the show. It will also be the last call for volunteers.

Then Jim Cerenzie and his son Adian will tell us about their rockhounding adventures around the northwest and their YouTube channel Vug Meister.

Show 'n Tell - Something you found rockhounding.

**General Meeting - September 8th – Thursday @ 7 pm**

Topic: A recap on how our Cascade Gem and Mineral Show went. Financial analysis and a critique of the show. What went great, and where do we need to improve next year.

Then we will try something new—a sticky note timeline chart.



We are going to have a yearly timeline chart from 1935 to 2022. We would like everyone to put 3 sticky notes on the timeline with your name on each and then on the

- ✓ 1st Note first time you went rockhounding and your age
- ✓ 2nd Note the most memorable rock hobby event in your life and your age
- ✓ 3rd Note another unique rock hobby event in your life and your age

Then place each of your sticky notes on the timeline. Just before Show 'N Tell, we will take a look at the chart. Then during Show 'N Tell, you can come up and look at the chart and discuss it with each other.

Show 'N Tell - A rock, mineral, or fossil that means a lot to you.

General Meeting – October 13th, 2022 – Thursday @ 7 pm

Topic: Earthquakes of the Pacific Northwest. The University of Washington Department of Earth and Space Sciences has an outreach program called Rockin' Out. Our speaker will be Madeleine Lucas, Seismologist, UW Ph.D. Graduate Student.

Show 'n Tell - A rock, mineral, or fossil from the western states.



Update on Mark Hohn

Mark Hohn, for newer members, is a member of our club. In 2018 he was our gem show chairman and got our annual show back up and running. He was on our Board of Directors for several years, membership chairman, greeted everyone at the front entry table at our general meetings, webmaster, and helped out in so many areas of the club.

Mark has been battling Myelodysplastic Syndrome (blood cancer). On July 22nd, he marked the 50th day since he received a bone marrow transplant from his brother. The transplant has been successful to date. The process takes 100 days, so the 50th day marks the halfway point.

I know we are all praying that his medical journey continues to be a complete success.

The best to Mark, his wife Penny, and his family as this is a all-encompassing medical journey that they each take in different ways.

Mark, our club members miss seeing you at our meetings and look forward to seeing you again.



Looking For Volunteers

Cascade Gem & Mineral Show. We still need volunteers for the show on **August 18th, 19th, 20th, and 21st**. You can find the list of tasks on our website.

The club has a courtesy booth at the **Maple Valley Arboretum Plant Sale** on **Saturday, September 10th**. It just requires handing out club information and telling them about our club. There will be some yard rock for sale, but all you need to do is write a sales ticket. The Arboretum handles all cash and credit cards.

Time slot - need 2 people: Saturday 9:45 am to 2:00 pm.

Photographer: Need at our general meetings: A volunteer to take pictures (with your cellphone is fine) during the Show 'n Tell portion. Then write a short article on Show 'n Tell with photos for our Tumbler each month. If you are hesitant about your writing abilities, Kat would be more than happy to proofread your article before submitting it to Keith, our Tumbler editor. The publication deadline is the 18th of each month. **Need one member or a couple.**

Historian: Copies of the Tumbler, pictures from club events, record of club officer's with pictures, and other memorabilia that comes up from the club. Put everything except Tumbler issues in a scrap book. Club will reimburse you for any expenses in order to preserve our history. Various members can help provide older content we want to keep.

If you can help out, contact Kat at president@cascademineralogicalsociety.org, or you can text or call her. Her contact info is on page 2 of this Tumbler issue.



Field Trip Report for July 17 at Greenwater by Roger Danneman Field Trip Guide

It was a great day for a dig. Cool and cloudy. 15 vehicles, 27 people, and 1 sweet dog went to the black agate site off FR7222. We dug there for about 4 hours. Black agate, tan jasper, and tan opal was what we were digging up. Our guests from Centralia dug deep (6 feet) and uncovered some large chunks of the agate/jasper. About half the group pursued other sites while I took the remaining half to show them the FR72 rockslide area. I don't like taking groups there

because it's very steep and difficult and dangerous to work. But it's a good site to go back to after a hard rain cleans off the loose rock. Some nice green jaspers and agate there. We then went further up FR72 to a quarry. There were hints of calcite and crystal veins in the host rock, but not much worth keeping. About 4:00 we called it quits. I stopped at the rockslide on the way down and found a few nice pieces for the tumbler. And then went back to the black agate site where Dan from Fife had taken over the Centralia pit. He had dug a bunch more out and I joined in. I was fortunate enough to fill up my bucket. If anyone on the trip didn't get any of the black agate, let me know. I'll see that you get some.

Attendees: Peggy S and guest Kalun, Kate T.s family, Becky P. and guests, Gina M., Julie M., Ann S. and dog Tess, Loren M., Christina and Russell L., John and Dave C., Teri G., Nik B., new member Chris W. from Spokane, guests Dave and Dick from Centralia and the Lewis County Rock Club, Ananda C., and of course me.

I have not scheduled a field trip for August. We are busy with the Aug. 20-21 Rock and Gem Show at Green River College. Should be an awesome weekend. I will have 2 display cases highlighting material collected on field trips.



How I Became A Rockhound by Dick Morgan

It happened when I attended night school at Pacific Lutheran University to advance my position at work, and I was nearing graduation time (it took 6 years to complete). As I spent so many evenings away from the family, I asked the kids what we should do together when I had my evenings free. Keith wanted to learn about rocks, and Karen was more interested in horses which she could ride when she went to her grandmother's. So the next day at work, I asked some people I worked with if anyone knew where I could find information on "Rocks." I was told to talk to one of the bosses as she was an officer in the "Boeing Employees' Mineralogical Society," and she invited us to a meeting that week. (General meetings then were held in the south cafeteria of Plant 2 in south Seattle, and board meetings were held at different board members' homes.) So we went to the meeting and joined the club that night, February 1974. I have remained a member to this day.

Interested in the workings of the club, I started the club's classes right away but found out that I was already familiar with the equipment. I just had to use different cutting blades and wheels than I used in my job as an experimental electronic technician (built and tested prototype antennas) using different types of metals. Within a few months, I was opening the shop on Tuesday for open shop nights. I started showing newcomers easier ways to use the equipment and ended up helping them to do better and quicker ways to complete their tasks. We would have whole families come in to learn to cut and polish rocks. The youngest person I taught was five years old and enjoyed cutting freeform cabochons better than the ovals.

Then we would go on field trips around the local area collecting material, in which Pat (my wife) would wander and collect rocks, and I would dig. Then we started going on enjoyable summer two-week field trips while traversing the western states. Not only did we learn about rocks and how they were formed in the geological strata, but it was also like a trip in the history of the movement of America going west. Camping in vans and travel trailers was much more comfortable than in an open wagon.

As with belonging to any group came the choice to do your share of supporting the club, so I started volunteering, ran for elective office, and won at least a term for every position except vice-president.

The most important thing about belonging to a group like this is the comradeship of like-minded members, a chance to learn from experienced rockhounds, to see other's finds and finished pieces. Also, on field trips met people and made friends from other rock clubs.



When I retired from Boeing, I started volunteering at the area schools helping children to do math the easy way. I also gave talks on how rocks were formed and, of course, showed the rocks resulting from that action. For good levels of learning, I would give polished hearts or other shapes as inducements to continue their progress.

Making a Covered Display Case for Your Minerals and/or Jewelry by Jo Borucki

In 1998, I decided to remodel my kitchen, doing all the work myself; cabinet construction, laminating counter tops, all of it. It took me a year. In a printer stand that I made as a gift for my husband, I have also hand dove tailed a drawer where I learned to keep my fingers out of reach of sharp chisels, and I have built several bookcases and cabinets. Nothing I have done though has been more rewarding and easier to do than making my display case. The amount of reward completely outweighs the amount of effort required. I can display my minerals and jewelry to view and enjoy at will in a dust free environment, and it only took me a couple of hours. You too can create this simple case with minimum effort and simple tools.

My case is 2 feet by 4 feet by 1 1/2 inches deep. It hangs on brackets on the wall under the window in my study. I chose to hang it on the wall, but could have chosen instead, to attach legs and make a display table.

Materials (Sizes assume a 4 foot by 2 foot case. Adjust your material measurements to whatever size case that you choose to make.)

- One 2 foot by 4 foot piece of 1/2 inch or 3/4 inch plywood
- One 2 foot by 4 foot piece of 1/8 inch thick piece of clear acrylic. You can buy and get this cut to size at

Tap Plastics

inches)

- Two 1 by 2 inch pieces of wood 4 feet long (Actually a 1 by 2 inch piece is really one about 3/4 by 1 1/2 inches)
- Two 1 by 2 inch pieces of wood 2 feet long
- Brackets with diagonal bracing or table legs with metal plates
- Screws

Fasten the 1 by 2s to the plywood to form a frame around the edge of the plywood. To do this, clamp the pieces in place, drill holes in bottom side of plywood making them slightly smaller than the screws and countersink the holes and then screw plywood and frame together.

If you plan to hang your case use 3 heavy duty brackets with diagonal bracing because the case will be heavy. The wall framing studs are usually 16 inches apart so locate where they are under your dry wall or wood paneling. We have wood paneling, and I find the studs by rapping on the wall listening for a solid rather than a hollow sound, but there are stud finders that can be purchased and used and will find studs accurately. Once located, screw your brackets to the places where the studs are. If instead you plan to put legs on your display box, you don't need the brackets. You can buy legs of several heights, depending on the height that you want, at any hardware store. They come with metal plates that can be screwed into the bottom of the plywood sheet base of you table and then the legs are screwed into the plates.

Your box structure is finished unless you wish to dress it up a bit with mitered corners, trim, or varnish. Place the acrylic sheet on top of the box to cover your treasures inside the box, keeping them safe and dust-free.

from Breccia, 11/20

A Pilot's Life & Mission During WWII—Dependent Upon the Gem Cutter by Jennifer Haley, AFMS Historian

I am finding really wonderful stories in old copies of The Mineralogist for future articles for you. The magazine was publishing long before the AFMS was founded. What is so special about the old publications are the stories about federation news and news of mineralogy at the time. Once I find an interesting history topic, I then go looking for more information on the subject, if there is any to find. As Rockhounds and Mineralogists, we have quite a remarkable history that we can feel very proud to be a part of.

During WWII, there were hundreds of experienced mineral collectors who, although too old to qualify for military service, played a highly important role for the security of our country. They cut quartz crystals for frequency control in communication instruments and radar.

Sapphires were cut to make precision instruments used in airplanes, bombers and battleships. A pilots lives and the success of their missions depended upon the lapidary skills of the gem cutter. Quartz and sapphires were essential to the war effort.

In a bomber, there were about one-hundred sapphires in the plane's instruments. In a battleship, there were about four thousand sapphire bearings.

In 1940, America was completely dependent on Europe for sapphires. When the war came, an American company, Linde Air Products, created the synthetic sapphire. The creation of synthetic sapphires was vital to the war effort. The stones were only used for the war effort and not for jewelry. Quartz crystal was used for frequency control in radio transmission, radar and other precision devices. The quality of the quartz crystal mines in Arkansas was considered finer than Brazil's, and the mines in Arkansas came under federal control during the war.

Gemstones, minerals, and the gem cutter have always played important roles throughout history, all around the world. No wonder mankind holds cutters and their stones in admiration.

from AFMS Newsletter, 2/22

Young Richard's Almanac by Dick Morgan

When evil is allowed to go unpunished, then the hate element gets into power and subverts the laws of a country.

If at first you don't succeed, try blaming the real reason for the failure.

Young Tumblers News

State Minerals

Twenty-three states have a State Mineral (official designation, like State Rock which was the subject of an earlier puzzle). Some names have been simplified for this puzzle.

Words can be found forwards, backwards, up, down, and diagonal. Good luck!

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

Agate – Louisiana & Tennessee

Copper – Utah

Quartz – Arkansas & South Dakota

Babingtonite – Massachusetts

Fluorite – Illinois

Rhodochrosite - Colorado

Beryl - New Hampshire

Galena – Missouri & Wisconsin

Sillimanite - Delaware

Bowenite - Rhode Island

Garnet – Connecticut

Staurolite - Georgia

Coal – Kentucky

Gold – Alaska, California & North Carolina

Talc - Vermont

Coral - Hawaii

Hematite – Alabama

Tourmaline - Maine

Young Tumblers News



What minerals produce the colors in fireworks?

Mineral elements provide the color in fireworks. Barium produces bright greens; strontium yields deep reds; copper produces blues; and sodium yields yellow. Other colors can be made by mixing elements: strontium and sodium produce brilliant orange; titanium, zirconium, and magnesium alloys make silvery white; copper and strontium make lavender. Gold sparks are produced by iron filings and small pieces of charcoal. Bright flashes and loud bangs come from aluminum powder.



Only the second known preserved baby woolly mammoth, and the first in North America, has been found in Eureka Creek, Canada. The 30,000 year old mammoth has been given the name Nun cho ga which translates to “big baby animal”.

Ten Things I Want In My Life

1. Rocks
2. More rocks
3. Friends with rocks
4. A big house for all of my rocks
5. Money for rocks
6. Rocks
7. A partner who is okay with rocks
8. A big car to fit my rocks
9. A "rock room" for my rocks
10. Rocks

via Rockhound Rambling, 4/22; from Geology World Facebook page

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>).

August 6 & 7 *Puyallup Valley Gem & Mineral Club* – Greenwater – Meet at Forest S Station Enumclaw - Agate, Jasper, Petrified Wood & Opal – Bring all tools
Dennis Bachchelor (360) 870-8741

Kid Safety by Ellery Borow, AFMS Safety Chair

Kid safety begins with adult safety. Adults learn in multiple ways. Some read the directions and instantly understand the material and get the nuances. Some read the material, work with instructors, see demonstrations, ask questions and need all those aspects to get it. Some rarely read the book, don't ask questions, and somehow manage with the trial and error approach. They are all genuine and useful approaches to learning, but each has various pros and cons.

Kid safety is different. Most kids do not have the background to read a manual and then understand all the material. For kids (and adults) the trial and error approach to learning safety is a non-starter. The middle option is usually the best for safety—read the material, work with instructors, see demonstrations and ask questions. Many kids are not all that interested in reading safety manuals, or being lectured by adults. So here we are with what is left - part instruction, part demonstration, and part asking questions.

Many safety matters require a measure of judgement. Adults may have had sufficient experience with safety to make good judgements. Kids do not usually have as much experience. Keep that in mind so that more complete explanations of safety matters can be offered to kids when presenting demonstrations and discussions.

Safety requires a good measure of effort. We want our kids to be safe, want our kids to share in the family hobby we love, and have fun in the process. Putting all that together, we adults need to make a concerted effort to devise safety plans to engage, teach, ensure understanding, and make the learning as fun as possible for kids. The thing that makes this easier is that kids are like sponges—they soak up all they see, hear, touch, taste and smell. To grow and become a part of the world, kids will absorb all that interests them and that which might not yet be so interesting—but it is still taken inside for future reference.

Kids watch one another and they watch adults. One of adults' greatest teaching aids is to be a role model of good safety practices. Take the guy who is walking across a pile of loose rock and slip sliding along the way. Kids will look at that and think, ok, it's being done by an adult and is ok to do. And yet, it is so very easy to lose one's footing and fall down the slope if they try such a traverse. If kids see an adult chipping a rock with a rock pick while not wearing safety goggles, the kid might think that it is safe for them to do so as well. Yes, kids watch their parents set good examples; however, they also watch all adults. Adults, ALL adults, should model good safety practices.

Kids may see and hear a demonstration on the importance of wearing gloves. They may be told how sharp quartz shards can be after hammering. What might some kids do with a sharp shard? Some might be curious as to what they can cut with it—so they might try cutting the draw string on their hoodie, cutting their new shirt's sleeve, or their shoe laces. Kids learn by doing. What better way to judge sharpness than by cutting something? So, give kids some corrugated cardboard to cut. Give kids a direction or opportunity to utilize their energy safely.

Face it, some kids in the family will be interested in rocks and some may not be so enamored. To keep less interested kids busy, try and perhaps find interesting rock things—colors, patterns, and shapes. Then ask them to describe or draw what they saw. Encourage them to come up with interesting ideas of how the colors, patterns, and shapes formed. Other kids may be more happy exploring rock history or identification or use. There will be kids who are more interested in reading a mystery novel. That too is cool, so long as they don't start exploring away from the dig site. Even if kids are not interested in rocks, sometimes they will watch other kids and begin participating in discovery. Sometimes those kids will share in the excitement of other kids as they discover their treasures. They may even enjoy a new friendship in the process.

Make demonstrations of safety easier for kids to accept. Have adults describe and put on goggles or safety glasses first. Kids will then see it is ok for adults and, therefore, okay for them to do so. There are decorative and festive elastics that can be used with goggles to dress them up for kids (and some adults as well).

Most OSHA-, MSHA-, NISC-, NIOSH-approved hard hat suspension systems will fit young adults. One can make hard hats fun with name personalization, rock stickers, and other decorations. Please be aware though that some companies have policies disallowing such adornment. Kid's gloves have some festive styles, although most of them are the garden-style glove, not the heavy work glove. Some small, leather gloves in ladies styles will fit on junior size hands.

Working with kids can be a rewarding, frustrating, cooperative, enlightening and otherwise challenging enterprise, but it is worth the effort to keep kids safe. Always remember that everyone's safety matters—short or tall, big or small.

from the AFMS Newsletter, 4/22

Naming

By definition, rubies are red corundum, while other colors of corundum are sapphires.

Editor's Note by Keith Alan Morgan

Sometimes the hardest filler for an editor to find are those elusive one, or two, line tidbits.

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 \$6,000.

On letters that you receive, tear the corner with the stamp off. 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**

The following businesses are loyal supporters of our rock club.

Show your membership card at the following stores and get a 10% discount on most purchases.

Jerry's Rock Shop – 804 W Valley Hwy, Kent, WA 98032

Minerals, rough or polished rocks, lapidary machines, lapidary supplies, polishing grit, fossils, rock hounding tools, beautiful display specimens, jewelry, and much more. *Please be aware there are a few items they can't offer the 10% discount on.*

Jerry is a great supporter of our club. They make it possible to have nice door prizes at our meetings.

Blackjack Metal Detectors and Mining Equipment – 101 Park Ave N, Renton, WA 98057

They sell beautiful mineral specimens, fossils, books, metal detecting and gold panning equipment and supplies. Chris Holden is a CMS member!

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.

Scan Me

For quick access, you can scan the following codes.



Access CMS Club Instagram page



Access our CMS YouTube channel



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



Access CMS Facebook Groups

Livingstonite From New Mexico by Johnie Pitman

I have a small chunk of a fairly rare mineral called Livingstonite it's a sulfide of mercury and antimony. Its appearance is metallic, hardness of 2, Specific Gravity 4.88, its crystal system is monoclinic, and it streaks red. Its chemical formula is $\text{HgSb}_4\text{S}_6(\text{S}_2)$.

The interesting part is where it came from. The Spanish Conquistadors explored the southwest in the early 1600s and visited or conquered several of the Native American Pueblos. For the next 150+ years Spanish and Mexican settlers came north to settle and occupy the area, mostly raising cattle and sheep. This caused some problems with the Native Americans.

Spain ruled the area from 1769- 1829 when Mexico gained it freedom from Spain, then it was under the Mexican Government. Spain had started issuing Land Grants to individuals and communal groups including Pueblo Tribes and small Spanish or Mexican settlements. Some of these were large, the Alameda Land Grant was 89,000 acres it is now the northern part of Albuquerque, the Maxwell Land Grant was 1,714,765 acres. When the Mexicans took over the area, they also issued land grants as a way to keep the peace between the different groups.

The Americans were also infiltrating the area by the 1840s and wanted protection for the settlers, thus the Mexican-American War 1846-1848. On Feb. 2nd , 1848, the Treaty of Guadalupe Hidalgo was signed ending the war and establishing the boundary between Mexico and the United States. The treaty also gave property rights, (including land grants), and civil rights to the Spanish and Mexican people who now lived in the United States.

By now you are wondering what this has to do with my Livingstonite. When I worked at a uranium mill north of Grants, N.M., in the laboratory we had an X-ray fluorescence spectrometer which could help identify minerals. You pulverized a small sample, placed it in the X-ray and scan it. This gives you the chemical composition of the sample.

One day one of the lab technicians brought in a rock he had found when he had moved his cattle to the summer range on the southeast side of Mount Taylor just east of Grants, N.M. He was a Spanish man and a member of a land grant association. He saw, these almost round rocks while on horseback and decided to break one open, it was metallic inside and heavy. He couldn't carry much on his horse, and it was a very remote area so only a small amount was brought back in his lunch sack.

We were all excited when it turned out to contain mercury, we didn't know much about antimony. We asked if he was going to pursue staking a claim or not, he decided not to because any profit that would be made would be split among all the land grant members, I don't remember how many families were in the association, I think between 39 and 50. So Mr. Chaves let us keep most of his samples.

from Panorama Gem & Mineral Club News, 2/22

Shows

August 5 - 7: Friday & Saturday 10 am - 5 pm; Sunday 10 am - 4 pm
Far West Lapidary & Gem Society
The Mill Casino
3201 Tremont St, North Bend, Oregon

August 20 & 21: Saturday 10 am – 6 pm; Sunday 10 am – 4 pm
Cascade Mineralogical Society
Green River College
Phys. Ed. Facility
12401 SE 320th Street, Auburn WA

August 26 & 27: Saturday 10 am – 5 pm; Sunday 10 am – 5 pm
Southern Washington Mineralogical Society
Silver Lake Grange
4200 Spirit Lake Hwy, Silverlake WA

Sale

August 5 & 6: Friday & Saturday 9:00 am – 3:00 pm
Rockhound Pre-Estate Blowout Sale
12224 42nd Ave NE, Marysville WA

Upcoming NFMS Show

September 30, October 1 & 2: Friday & Saturday 10 am – 6 pm; Sunday 10 am – 5 pm
NFMS & Portland Regional Gem & Mineral, 41st Show
Wingspan Event and Conference Center
At the Westside Commons
801 NE 34th Avenue, Hillsboro, Oregon