



# *the CMS Tumbler*

January  
2018

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

***Next Meeting:  
January 11, 2018  
7:00 p.m.***

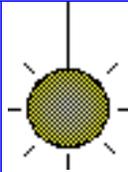
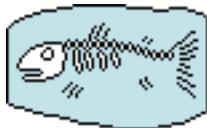
**American Legion Hall  
25406 97th Pl S  
Kent, WA**

The Program is Maps and Map Reading  
by Bob Pattie

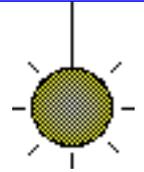
It will include a discussion on types of maps  
such as Township, Quadrangle grid, GPS  
readings, also maps on land ownership,  
informational, and recreational, with the  
emphasis on rock collecting. I will have  
sample maps to review.

This information should help you be better  
prepare for field trips and maybe help you find  
the collecting sites easier.

The Show & Tell Theme is a  
Fossil or Concretion.



***This month remember  
to wish a  
Happy Birthday to  
John Haworth on January 13,  
and also remember  
to wish a  
Happy Anniversary to  
Cascade Mineralogical Society  
on January 13 (69 years)***



On January 13, 1949, our club first met as the *Sebac Mineralogical Society*. For most of our club's life we were known as the *Boeing Employees' Mineralogical Society*. In 2010 we renamed ourselves the *Cascade Mineralogical Society*.

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.

CMS Club Address  
Rich Russell  
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Kent, WA 98042

Keith Alan Morgan, Editor

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

**2018 Elected Officers**

Title & Name

**President Kat Koch**  
**Vice President Diana Horsfall**  
**Treasurer Richard Russell**  
**Secretary Pete Williams**  
**Director Roger Pullen**  
**Director Roger Danneman**  
**Past President Bob Pattie**  
**Show Chairman Mark Hohn**

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**2018 Committee Chairs**

Title & Name

**Cascade Show Mark Hohn**  
**Cascade Show Co-Chair Kat Koch**  
**Cascade Show Treasurer Pete Williams**  
**Club Historian**  
**Donations Kat Koch**  
**Federation Representative Michael Blanton**  
**Federation Representative Kat Koch**  
**Field Trip**  
**Health & Welfare Bev Williams**  
**Library Bob Pattie**  
**Membership Mark Hohn**  
**Mineral Council Bob Pattie**  
**Mineral Council Jacquie Pattie**  
**Newsletter - Tumbler Editor Keith Alan Morgan**  
**Open Shop Instructors Bob Pattie**  
**Public Relations Kat Koch**  
**Refreshment Angie Bayer**  
**Raffle/Display Roger Pullen**  
**Shop Operations Bob Pattie**  
**Show & Tell Michael Blanton**  
**Webmaster Mark Hohn**

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2018 CMS Dues are \$30 per year per family  
Pay online, by mail, or at our meetings.  
*Mailing Address: Richard Russell*  
*14431 SE 254th St.*  
*Kent, WA 98042*

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.cascaedmineralogicalsociety.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

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

The Cascade Mineralogical Society Facebook page is <https://www.facebook.com/CasMinSoc/>

The Cascade Gem & Mineral Show Facebook page is <https://www.facebook.com/cascaedgemandmineralshow/>



# January



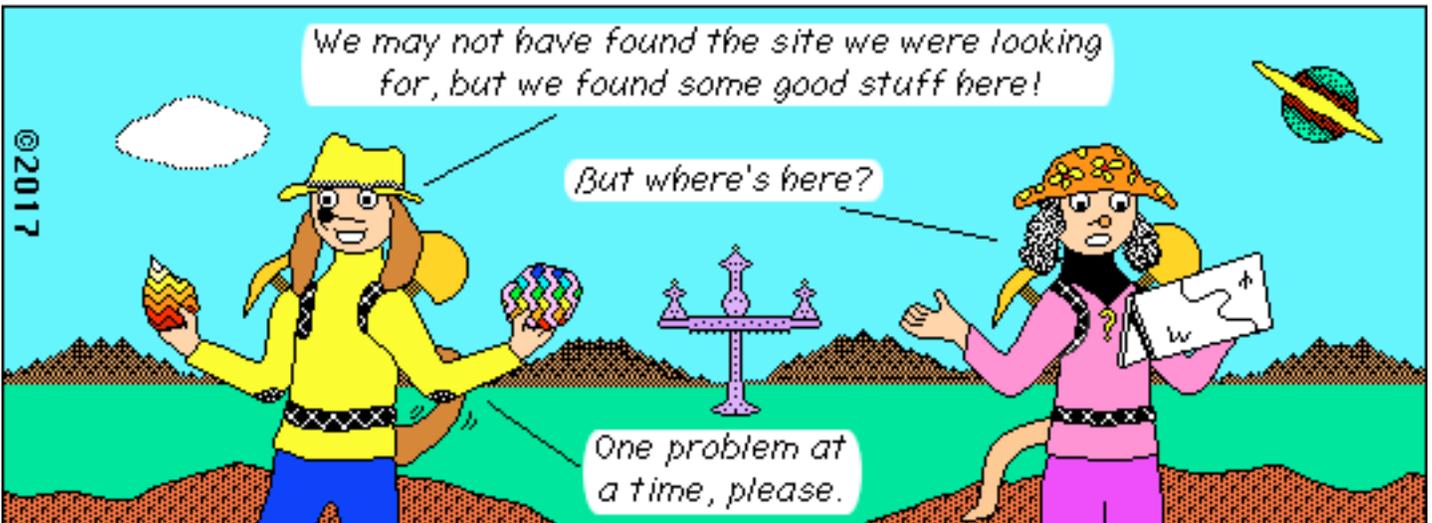
SUN	MON	TUE	WED	THUR	FRI	SAT
	1	2	3	4	5	6
7	8 Board Meeting 7 PM 	9	10	11 General Meeting 7 PM 	12	13
14	15	16	17	18	19	20
21	22	23 Lapidary Shop	24	25	26	27 Lapidary Shop
28	29	30	31	<b>Hope you have a happy 2018!</b>		

Lapidary Class Hours:.....Closed until further notice  
 Lapidary Shop Hours:.....3rd Tuesday..... 4:00 pm to 8:00 pm or by appointment  
 Lapidary Shop Hours:.....4th Saturday..... by appointment only (call a few days ahead to set time)

CMS Board Meeting:.....Monday, January 8.....7:00 pm to 8:00 pm  
 CMS General Meeting:.....2nd Thursday.....7:00 pm to 9:00 pm

## Mr. and Mrs. Rockhound

by KAM



## CMS Board Meeting Minutes



The December Board Meeting was cancelled. The January Board meeting is at the Wendy's where it was in November.

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### A Note From The President's Desk...

By Kat Koch, 2018 CMS President

We had 30 members and their families attend our holiday dinner this year. This was the largest turnout we have had in several years. It was so nice to visit with everyone and to enjoy the good food everyone brought.

Thank you for reelecting me to the Presidency and to the other Board members that are continuing to serve another term on the Board. I also want to welcome our newbie Roger Danneman (Director) to the Board.

I have been passing out show fliers and club fliers at various functions: Kitsap Holiday Dinner and craft shows Mike and I have done this season. While at Kitsap Club dinner I found out at their November rock show they enrolled 60+ new memberships. I sure hope we do as well at our show.

Everyone that is interested in volunteering to help at our Cascade Rock and Gem Show, now is the time to talk to Mark and commit to a spot. We need a PR person (you can do this from home via email and phone) and someone to work with the Boy Scouts, Girls Scouts and Campfire in order to get them to attend and use our event to earn their badges (other than possibly initial contact, this can be coordinated from home via email and phone). We have a huge project ahead of us and we need all hands-on-deck in order to accomplish it. We can not leave the burden to put our show together to 8 or 10 members. Don't procrastinate call or email Mark now!

Our auction at the holiday dinner was a success. We made a deposit to our checking account of \$855. In case you have ever wondered where our money goes. Our rock auction income plus membership fees go towards the monthly meeting room rental, our annual dues to the Northwest Federation, American Federation, WA Mineral Council and misc expenses throughout the year. Thanks to Rich and Mark's hard work we have been able to get rid of our storage unit as of the end of this past December. The storage unit was a huge drain on our annual budget. With the income from our Gem Show in 2018 and no storage unit fees we should once again be in very good fiscal shape. After the 2018 rock show, I am hoping we can once again resume an annual scholarship award to a couple of deserving college students studying geology and related sciences.

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### Refreshment Volunteer Found!

Angie is our new Refreshment Chairman as of our January 2018 meeting.

You can help her out by bringing something to snack on or drink to the meetings.

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### Editor's Note by Keith Alan Morgan

Officers, board members, committee chairs, please check page 2 to see if I have the correct contact information for you.

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### Need Rocks And Slabs Cut For Our Show

When the weather permits our Lapidary Shop is open. The big saws will be up and working plus all the various bench machines.

Between now and our show in September 2018 you can come in and use the shop for free if you will oversee the saws while they are cutting slabs or rocks for our show. While the saw(s) is busy you can work on your own items. There will be no shop or supply fees for your personal work.

We will need a lot of slabs and rocks cut and some polished for the silent auction at our show. We are also looking for donations from your own shop too.

Mike Blanton, Silent Auction Chairman contact info: at the meetings or via email at [mblanton41@hotmail.com](mailto:mblanton41@hotmail.com)

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### Young Richard's Almanac by Dick Morgan

Many elderly people that have trouble getting around, don't need your pity, but a little help, patience, and someone to talk to.

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### Thunder from Down Under by Jim Brace-Thompson

I opened a recent issue of Time magazine to learn that we now have a new record for world's largest dinosaur footprints, with some of the individual impressions measuring nearly six feet in length. These were discovered in Cretaceous deposits in northwestern Australia, proving that even 115 million years ago young ladies enjoyed thunder from down under.

from Rockhound Rambling, 4/17

## CMS Christmas Party Minutes December 3, 2017



by Pete Williams, 2017 Secretary

The December meeting, Christmas party, and auction was a huge success. The attendance was the largest in many years. The meeting started off with the election of officers who will serve 2-year terms followed by the Christmas potluck and then by the auction. Once again auction items went for prices significantly below retail.

CMS officers for 2018-2019 are: President - Kat Koch; Vice President - Diana Horsfall; Treasurer - Rich Russell; Secretary - Pete Williams; Directors - Roger Dannerman and Roger Pullen; Show Chair - Mark Hohn; Mineral Council Representatives - Bob Pattie and Jackie Pattie; and Federation Representatives - Mike Blanton and Kat Koch.

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## 2018 Cascade Gem and Mineral Show Newsletter Update by Mark Hohn, 2018 Show Chair

We have opened the online registration for vendors and sponsors!

We opened the registration system and sent invitations out to our potential vendor list.

As of today we have had 4 vendors register and purchase a total of 10 booths.

Committed Vendors for our show:

*Maple Tree Lapidary*

*The Worlds Fossils and Minerals*

*R&T Crystals*

*Addis-sea Gemsparkley*

The current Show page can be found at: <https://www.cascademineralogicalsociety.org/cascade-gem-mineral-show/>

If you know of potential vendors you can direct them to our show page for detail an registration information.

The Show page is updated as vendors register so you can see the location of vendors in the facility. Vendors are announced on the show Facebook page <https://www.facebook.com/cascadegemandmineralshow/> The Facebook page is a good place to keep updated with news and vendor announcements prior to the show. Please like so you can stay informed.

If you have any questions feel free to contact Kat or I, our contact information is below.

Thanks

Date of show: September 22-23, 2018

Setup will be on Friday September 21, 2018.

Venue: Green River College Student Union Building.

The facility is a new building with huge windows and plenty of light.

Current needs:

We are gathering a list for volunteers. You can sign up on the website at:

<https://www.cascademineralogicalsociety.org/cascade-gem-mineral-show/>

This page also has the show layout floor plan.

I would like to find someone to help with the social media and show promotion. If you have any experience in this area please let me know.

Kat has volunteered to assist with the vendor invitations and recruitment. If you know of a vendor that might be interested please let Kat or I know so we include them in our invitation mailing.

Demonstrations: We are reserving space for demonstration during the show. If you or someone you know might be interested in doing a demonstration session please let me know. I am also looking for someone to coordinate the demonstrations for the show.

Kids area: We need someone to help define and setup the events that we will have during the show for children. If you have ideas or suggestions please let me know.

How to keep up to date on our progress.

Facebook:

Cascade Gem and Mineral Show page: <https://www.facebook.com/cascadegemandmineralshow/>

CMS Facebook Page: <https://www.facebook.com/CasMinSoc/>

Our Website: <https://www.cascademineralogicalsociety.org/cascade-gem-mineral-show/>

Thanks for reading this far and hope you are as excited as we are for this show. It will be a great way to connect to our community and add new members.

Mark Hohn CMS Show Chair 253-332-3736 [showchair@cascademineralogicalsociety.org](mailto:showchair@cascademineralogicalsociety.org)

Kat Koch CMS Co-Chair President [KatKoch@cascademineralogicalsociety.org](mailto:KatKoch@cascademineralogicalsociety.org)

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## Bling for the Ages by Jim Brace-Thompson

The journal "Proceedings of the National Academy of Sciences" recently reported that modern-day Hong Kong jewelers aren't the only ones who appreciate the finer things in life. Working in a cave on the Indonesian island of Sulawesi, archaeologists unearthed 30,000-year-old jewelry including a pendant crafted from the finger bone of a bear cuscus and beads from the teeth of a babirusa, or deer-pig. Not quite on par with a 59.60-carat pink diamond, perhaps, but for Wilma Flintstone, stylin' none-the-less!

from Rockhound Rambling, 4/17

**Not Lost, Not Misplaced, Just Not Found!** by Kat Koch

I was reading the January 2018 issue of Rock and Gem Magazine when I saw an advertisement by The Deep Carbon Observatory titled The Carbon Mineral Challenge. It stated MISSING 135 carbon minerals of various sizes, types, shapes and colors. Commonly seen bonding with oxygen, hydrogen, calcium, uranium, aluminum and others. Located somewhere on Earth. Likely hangouts include mines, quarries and coal beds.

The Mineral Challenge website states: The Carbon Mineral Challenge sets the stage for both professional and amateur mineral collectors to make their mark by discovering never before described minerals. Researchers predict at least 135 of Earth's carbon-bearing minerals remain undiscovered. How many can collectors find by September 2019?

This really piqued my interest so I decided to do further research.

This worldwide search started as the brainchild of Robert Hazen, a scientist at the Carnegie Institution and executive director of the Deep Carbon Observatory. The challenge was issued in the Fall 2015 and ends September 2019. How many can s find by 2019?

As of December 2015, there were 405 known carbon-bearing minerals. The researchers noted the minimum estimate is 145 undiscovered carbon-bearing minerals. To register a new carbon mineral with the project, mineralogists are asked to adhere to the protocol outlined by the International Mineralogical Association Commission on New Minerals, Nomenclature and Classification. Once a carbon mineral is approved by that body, the team responsible for the mineral's discovery submits their finding via a form on the project's website.

Since December 2015 through March 2017, 12 new minerals have been verified. I have not been able to find an update on confirmed new carbon-bearing minerals since Mach 2017. If you are interested in the new minerals you can periodically check the Mineral Challenge website.

1. *Abellaite*: January 2016. Location: Eureka Mine, Catalonia, Spain. On Display: Natural History Museum of Barcelona, Barcelona, Spain

2. *Tinnunculite*: January 2016. Location: Mt. Rasvumchorr, Kola Peninsula, Russia. Named after the Eurasian Kestrel (*Falco tinnunculus*) since the mineral formed as a product of hot gases from burning carbon reacting with excrement from *Falco tinnunculus*. On Display: Fersman Mineralogical Museum of the Russian Academy of Sciences, Moscow, Russia.

3. *Marklite*: February 2016. Location: Friedrich-Christian Mine, Baden-Württemberg, Germany. Found in the mine dumps. On Display: Collection of the Eberhard Karls University, Tübingen, Germany and the Natural History Museum of Los Angeles County, Los Angeles, USA

4. *Middlebackite*: April 2016. Location: Iron Monarch Quarry, South Australia, Australia. Found on a single one meter sized boulder in June 1990. The single boulder contained 50 other mineral species. On Display: South Australian Museum, Adelaide, Australia.

5. *Leoszilardite*: June 2016. Location: Markey Mine, Utah, USA. Found in a single area of the mine, on a seam of C-rich material deposited by an ancient stream. After mining ceased, ground water ate away at the raninite ore within this seam and produced abundant U-carbonate secondaries like andersonite, bayleyite, and cejkaite, with very minor leószilárdite. On Display: Natural History Museum of Los Angeles County, Los Angeles, CA, USA

6. *Ewingite*: June 2016. Location: Plavno Mine, Jáchymov Ore District, Western Bohemia, Czech Republic. Ewingite is currently the most structurally complex mineral known using the information content method given by Krivovichev 20121, at 12230 bits per unit cell. On Display: Natural History Museum of Los Angeles County, Los Angeles, CA, USA

7. *Braunerite*: June 2016. Location: Svornost Mine, Jáchymov Ore District, Western Bohemia, Czech Republic. On Display: Department of Mineralogy and Petrology, National Museum, Prague, Czech Republic and Natural History Museum of Los Angeles County, Los Angeles, CA, USA

8. *Parisite-(La)*: August 2016. Location: Mula Mine, Tapera village, Novo Horizonte, Bahia, Brazil. On Display: Museu de Ciencia e Técnica, Escola de Minas, Universidade Federal de Ouro Preto, Praca Tiradentes, Centro, Brazil and University of Arizona Mineral Museum, Tucson, AZ, USA.

9. *Markeyite*: February 2017. Location: Markey mine, Red Canyon, White Canyon District, San Juan Co., Utah, USA. On Display: Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia

10. *Stracherite*: March 2017. Location: Hatrurim Formation, Negev, Israel, near Arad City. Stracherite is the first carbonate-bearing member of the very rare nabimusaite group. This mineral boasts a unique and surprising structure that scientists behind the Carbon Mineral Challenge did not predict. On Display: Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia

11. *Triazolite*: August 2017. Location: Pabellón de Pica, Chanabaya, Iquique Province, Tarapacá Region, Chile. Crystals of triazolite overgrow surfaces of hard rock (gabbro) or occur in cavities in aggregates of salammoniac. On Display: Fersman Mineralogical Museum, Russian Academy of Sciences, Moscow, Russia

12. *Somersetite*: September 2017. Location: Torr Works Quarry (Merehead Quarry), Cranmore, Somerset, England, UK. On Display: Department of Mineralogy, St Petersburg State University, St Petersburg, Russia.

There are no CMS field trips in January due to the weather. They will resume as soon as the snow/ice clear.

Also check the WA Mineral Council [http://www.mineralcouncil.org/FieldTrips\\_2017.pdf](http://www.mineralcouncil.org/FieldTrips_2017.pdf)

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### **How Rock Collecting Helps Kids: Our Responsibility** by Dr. Gary Lohman, Juniors Chair

Nearly every rockhound I meet is eager to explain how their interest in rocks, minerals, or fossils started when they were young. In fact, prior to the development of an increasingly media-driven society, hobbies like rock collecting were an important part of both personal and social development.

With all the time spent watching television, playing video games, and tethered to social media, the sad reality is that many of today's children have never experienced the rewards of a hobby. To be clear, a hobby is not the same as organized, adult-directed, after-school activities such as Little League.

Hobbies are an important means of self-discovery and expressions of personal accomplishment that help build self-esteem and resilience. Working on hobbies teaches children how to learn about things, how to set goals, make decisions, and develop a variety of problem-solving skills. Hobbies often mature into lifelong interests and sometimes even careers.

Consider how thirty-plus years ago almost every kid in your neighborhood had some sort of hobby, whether it was trading baseball cards, mounting butterflies, or collecting things like stamps, or rocks. A young colleague recently expressed the financial motivation behind his degree in electrical engineering and his current interest in pursuing a master's degree in business to make him more promotable.

This was in stark contrast to an older colleague, also with a degree in electrical engineering, who expressed his start in "building radios" as a child and now dissatisfied with a career that increasingly pulls him away from his technical "roots." Similar to the way trees need solid roots to grow tall and stand strong, kids need hobbies to help them develop life-long "roots" as well.

As rockhounds, we already recognize the value of our hobby, so how do we help children today develop and sustain hobbies.

Having participated in events with a variety of displays and demonstrations at a number of venues with children over past years, I am repeatedly reassured that kids still have innate curiosities for which hobbies form a way of tapping into. The child-like curiosity that is still awakened in us as adults through the pursuit of our hobbies is a necessary ingredient. Fortunately, geology remains fashionable among kids. Collecting rocks is interesting and learning how those rocks are geological windows into our own past is even better. Kids love to recognize patterns in nature.

Cultivating a hobby takes "spare time," which is arguably the first casualty of media-driven distractions and tightly packed schedules of organized activities in today's world. Consider that by age 15, the average child has spent more time watching television than sitting in a classroom. Add to that the addictive-like effects of video games and the tether-like effect of social media and texting, and one quickly recognizes that potential "spare time" is rapidly consumed by a craving for stimulation even to a point of over-stimulation. Childhood is followed by the adult pressures of making a living with increasingly demanding schedules. If one never learned how to appreciate and make use of "spare time" with hobbies as a child, it's not likely to be an integral part of adult life either. Hence, the first challenge is making room for "spare time".

Untethering the child, even for a little while, from his or her media-fed environment does not have to involve draconian parental controls accompanied by screaming and door slamming. The key is to (1) set an example by making time ourselves as adults and (2) taking advantage of that time to tap into a shared child-like curiosity. This is where family-oriented events like rock shows, county fairs, STEM expos, etc. can be very important venues to help explore interests together. This is also where it is important for our clubs and their memberships to continue hosting and participating in such events. In today's financially-obsessed world, it is easy to forget that the real "value" of these events is not measured by their profitability in a purely monetary sense. The last STEM expo in which I participated with a 10x10 blackout tent filled with UV lights and fluorescent minerals captivated the interest of children and their parent's innate curiosity alike! Asking questions together, many became interested in the glowing rocks and how they could get involved also. By setting the example as role models and being prepared to provide encouragement and guidance, there is still room for hobbies in today's world. The good news is that activities like this psychologically free kids from being merely glued to computers and cell phones all day! When given the chance, children embrace the opportunity to get back to those interests we used to call "hobbies!"

For want of spare time, a hobby may never develop. It takes a village as helping to make that "spare time" reality involves the time and effort of our clubs and its members supporting each other, parents, and children. The reward is that by helping a child to find a hobby, a talent may be born and a life enriched.

from The Franklin County Rockhouser, 7-8/16

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### **Fossil Humans: It's Not Just Bones Anymore!** by Jim Brace-Thompson

With ever-sophisticated advances in DNA analysis, anthropology isn't just about stone tools and bones anymore! Per a recent report in the journal *Science*, "paleogenomics" is finding evidence of human ancestors in cave sites courtesy of the urine and feces they left behind. Scientists have discovered mitochondrial DNA from Neanderthal and Denisovan individuals totally in absence of any bony remains.

from Rockhound Rambling, 6/17

## The AFMS 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.

Revised July 7, 1999 at the AFMS Annual Meeting

## Rockhounds

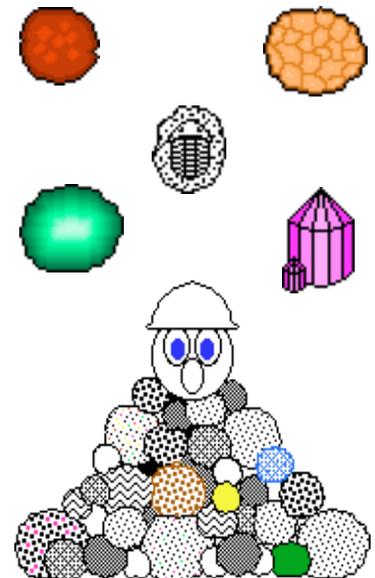
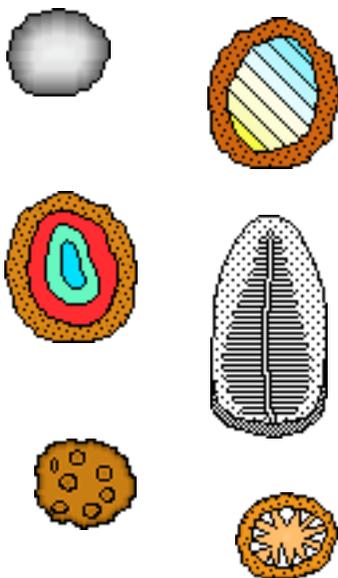
by Paul Graupner, Broadus, Montana

There are hounds, you know, that hunt the fox.  
Now, we are the hounds that hunt the rocks.  
We have rocks in the car; rocks in the shed;  
Some even say we have rocks in the head!

But we love to hunt them on river and hill  
And to cut one in two is always a thrill.  
Although you may travel far from your home  
You'll find nothing as grand as a good agate stone.

God hid them in his mysterious way  
That they may be found in our time and day  
So we might dig and hunt and hike  
Each one is different, no two are alike.

To be out there in your walking shoes  
Is always the cure for the worst of the blues.  
So come with us, have a good look around.  
And you may become an avid rock hound.



via The Franklin County Rockhounder, 10/16; from "Meanderings of a Montana Rockhound" Tidewater Gem & Mineral Society webpage

## Vocabulary For Geologists

A miogeocline is an area of sedimentation which occurs along the passive margin of a continent. The deposits occur as typically shallow water clastic sediments which thicken seaward to form a clastic wedge parallel to a tectonically quiescent coast. Modern examples include the continental shelf of the northern Gulf of Mexico and the Atlantic coast of North and South America. The ancient miogeoclinal sediments become attached to or accreted onto the adjacent continent following later continental collisions or orogenies. Thus the sediments of the Appalachian miogeocline became part of the Appalachian Mountains during the Appalachian orogeny.

from Golden Spike News, 5/15