

The CMS Tumbler

**October
2019**

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

**Next Meeting:
October 10, 2019
7:00 p.m.**

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

Mark will be giving a recap of our show.

Joan from Jerry's Rock and Shop
will be our speaker.

The Show & Tell Theme is
what did you get at our show?
Or show us a recent purchase you made.

This month remember to wish a Happy Birthday to
Jaymin Shaffer on October 1,
Kat Koch on October 4,
Charles Benedict on October 6,
Marlene Frost on October 9,
Keith Alan Morgan on October 11,
Lillia Agadjanyan on October 11,
Jordan Cameron on October 22,
Hailie Epley on October 26,
Jessica Stuart on October 28,
Fred Thompson on October 30,
and also remember to wish a Happy Anniversary to
Marlene & Mr. Frost on October 6 (12 years),
Alex & Page Lane on October 8,
Anders & Edie Black on October 10,
Joyce Gjerde & Robert Hagstrom on October 16

Connect with us!

Website: cascademineralogicalsociety.org

Club Facebook: facebook.com/CasMinSoc/

Show Facebook:

facebook.com/cascadegemandmineralshow

Instagram: instagram.com/cascadegemandmineralshow/

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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.

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

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

2019 Elected Officers

Title	Name	Phone	E-mail
President	Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
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Director	Roger Pullen	206-387-3214	june.d.murff@boeing.com
Director	Roger Danneman	425-228-8781	roger.danneman@q.com
Director	Richard Russell	253-736-3693	richru1@yahoo.com
Past President	Bob Pattie	425-226-3154	bobpattie@comcast.net
Show Chairman	Mark Hohn	253-332-3736	showchair@cascademineralogicalsociety.org
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Federation Representative	Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Mineral Council	Bob Pattie	425-226-3154	bobpattie@comcast.net
Mineral Council	Jacquie Pattie	425-226-3154	dianahorsfall@comcast.net

2019 Show Committee Chairs

Cascade Show	Mark Hohn	253-332-3736	showchair@cascademineralogicalsociety.org
Cascade Show Co-Chair	Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Cascade Show Treasurer	Pete Williams	425-228-5063	petewill02@gmail.com
Cascade Show Silent Auction	Michael Blanton	425-271-8757	mblanton41@hotmail.com
Cascade Show Raffle Donations	Michael Blanton	425-271-8757	mblanton41@hotmail.com
Cascade Show Demonstrators	Richard Russell	253-736-3693	richru1@yahoo.com

2019 Committee Chairs

Club Historian

Donations	Kat Koch	425-765-5408	president@cascademineralogicalsociety.org
Field Trip	Roger Danneman	425-228-8781	roger.danneman@q.com
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Library	Bob Pattie	425-226-3154	bobpattie@comcast.net
Meeting Programs	Miriann Fu	253-236-5593	merriannf@gmail.com
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Open Shop Instructors	Bob Pattie	425-226-3154	bobpattie@comcast.net
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Refreshment	Angie Bayer	253-631-3840	angiemc61@msn.net
Raffle/Display	Roger Pullen	206-387-3214	june.d.murff@boeing.com
Shop Operations	Bob Pattie	425-226-3154	bobpattie@comcast.net
Show & Tell	Michael Blanton	425-271-8757	mblanton41@hotmail.com
Webmaster	Mark Hohn	253-332-3736	showchair@cascademineralogicalsociety.org

2019 CMS Dues are \$25 per year per family

Pay online, by mail, or at our meetings.

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

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

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

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

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



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

To get information to the Tumbler via the Internet send it to greenrockdraggin@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: <https://www.facebook.com/CasMinSoc/>

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

October

Sun	Mon	Tue	Wed	Thur	Fri	Sat
		1	2	3	4	5 Marysville Show
6 Marysville Show	7 Show Meeting 6:30 pm Board 7:00 pm	8	9	10 General Meeting 7:00 pm	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26 Bellevue Show
27 Bellevue Show	28	29	30	31	Happy Halloween!	

CMS Show Committee Meeting:....Monday, September 9.....6:30 pm to 7:00 pm

CMS Board Meeting:.....Monday, September 9.....7:00 pm to 8:00 pm

CMS General Meeting:.....2nd Thursday, September 12.....7:00 pm to 9:00 pm

Lapidary Class Hours:.....By appointment, call to set a time & day for your lesson (425) 226-3154

Lapidary Shop Hours:.....Most Tuesdays..... 2:00 pm to 5:00 p, call ahead (425) 226-3154

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

More Field Trip info can be found on Page 11

More Show info can be found on Page 12



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

CMS Board Meeting Minutes September 9, 2019

by Pete Williams, 2019 Secretary

Attendance:

President Kat Koch	Vice President Merriann Fu	
Treasurer Charles Benedict	Secretary Pete Williams	
Federation Mike Blanton	Mineral Council Jackie Pattie	
Past President Bob Pattie	Show Chair Mark Hohn	
Director Roger Pullen	Director Roger Danneman	Director Rich Russell

CMS Show Committee – Meeting called to order 6:30

There were 3 vendor cancellation, but Mark was able to re-sell all of them. There are 32 vendors. Facebook and Instagram advertising is continuing. There was a commitment from a food truck selling hotdogs and roast beef sandwiches.

The raffle will have 50 items with major donations from Thumler's Tumbler, Jerry's Rock Shop, Tumble Bee, and Kingsley North. More volunteers and rocks are needed for the Show.

Mark will not be continuing in his position as show chairman after this show.

Board Meeting: Meeting called to order at 7:07

Mark requested that club equipment stored on his property be removed. Without disposing of any property, we would need a 10 by 20 foot space. Several items, however, can be sold.

The club field trip will be to Little Naches on Saturday September 14. A motion was made and approved to donate \$50 to the Lake Washington Arboretum where we held the summer picnic. They did not charge us anything for using their facility. Election of officers for 2-year terms will take place by year end. All current officers express a willingness to run for another term.

The government is looking at introducing grizzly bears from Canada into Washington from the Canadian border down to Snoqualmie pass. The state department of natural resources geology department will be having an auction in October of material they collected over the years.

The next Show and Board meeting will be held on October 7.

Meeting adjourned at 7:47

Young Richard's Almanac by Dick Morgan

All the integrity, idiosyncrasies, mannerisms, and all the stuff you have in your personality are you, whether you were born with it or acquired along your life's travels. It's your "face" that you show the world and how people judge you.

Early Native Americans Collected Fossils by Jennifer Haley-AFMS Historian

Have you ever wondered if the early Native American Indians not only found but treasured fossilized dinosaur bones before the early settlers arrived? I was curious and looked for information about that subject to add to what we know about early paleontology. I found a gem of a thick book called, FOSSIL LEGENDS of the FIRST AMERICANS, by Adrienne Mayor. The information in the book is sourced from paleontologists, archaeologists, artifacts, pictographs and oral histories. The book includes some photographs.

There is evidence the early Native Americans were familiar with finding large dinosaur fossil tracks. Often smaller fossils such as mammoth teeth and other types of bones were used in medicine pouches, and a range of various fossils was used by Medicine Men and Medicine Women.

There were great stories and myths about the creatures belonging to the larger fossils which became legends in their culture, full of rich imagination and surprisingly close in some instances to what paleontologists now know about some of the "giant lizards" who long ago roamed our earth.

There is wonderful information in the book to share around the campfire and for articles in your newsletters. Juniors have great imaginations and would love to hear about this fascinating period in paleontology history. FOSSIL LEGENDS OF THE FIRST AMERICANS, by Adrien Mayer, would be a great addition to your society libraries, too.

from AFMS Newsletter, 4-5/19

Asterism by Duane Flackus

Some quality minerals such as rubies and sapphires demonstrate a double, triple, or even a six-pointed star-shaped pattern when cut and polished into a domed cabochon. The star moves around as the specimen is tilted into the light.

This visual phenomenon is called "Asterism".

from The Clackamette Gem, 7/19

CMS General Meeting Minutes September 12, 2019

by Pete Williams, 2019 Secretary

Meeting called to order at 7:15

Minutes were approved as written.

Treasurer's Report: The club is in the black now YTD. This is separate from the show account.

Tumbler Editor: Continue to check if your anniversary or birth dates are incorrect in the Tumbler and let Mark know if they are.

President's Report: Kat thanked everyone for making donations to the show silent auction.

Shop Reports: The established days for using the equipment at Bob's place have not been working well. He prefers if you call to arrange a time to use the equipment.

Field Trip Report: The next field trip is to Little Naches on Saturday for thundereggs, lilly pad jasper, and leaf fossils. Details are on the website.

Mineral Council: The state department of natural resources will be having an auction on October 16 from 9-3 in Olympia. State geologists have provided the material. Proceeds will be for their library. There is expected to be good material in the auction. Call Bob for more details.

Grizzly bears are being introduced into the Pacific Northwest from Canada from the North Cascades to Snoqualmie pass. There are 4 options in the environmental impact statement. Eventually they expect to have 200 bears in this area. Some roads are expected to be closed to protect the bears.

Program: Mark reviewed status for our upcoming show. Merriann gave a presentation on buying and selling on ebay.

Meeting adjourned at 8:48.

President's Message

by Kat Koch, 2019 President

Thank you Mark for another great show! Outstanding!!

I am so proud of what Mark has accomplished these past 2 years in getting our show back up and running. He has exceeded all my expectations and wishes.

I also want to thank all the CMS members, family members and volunteers from other clubs that helped out at the show. Couldn't have done it without your help.

Mark has been a valuable member of the Board of Directors for several years now. I would also like to note that Mark is the person that rewrote and maintains our website and organized and maintains our membership roster. A man of many talents.

Mt. St. Helens Stories Wanted

The Washington State Parks are looking for stories of people who experienced the Mt. St. Helens eruption of May 18, 1980 for the 40th anniversary of the eruption.

You can write a journal entry or share your contact information at the sharing corner, located inside the Mount St. Helens Visitor Center in Castle Rock.

Send a synopsis of your story, via email, to Silver.Lake@parks.wa.gov

Or call 360-274-0962 and schedule an interview.

Laws Of The Natural Universe

Law of the Workshop: Any tool, when dropped, will roll to the least accessible corner .

Law of Mechanical Repair: After your hands become coated with grease, your nose will begin to itch.

Law of the Telephone: When you dial a wrong number , you never get a busy signal.

Law of an Alibi: If you tell your boss you were late for work because you had a flat tire, the very next morning you will have a flat tire.

Law of Variation: If you change lines or traffic lanes, the one you were in will start moving faster than the one you are in now.

Law of Close Encounters: The probability of meeting someone you know increases when you are with someone you don't want to be seen with.

Law of Results: When you try to prove to someone that a machine won't work, it will.

via Golden Spike News, 8/19; via Golden Spike News, 8/10; via Petrograph, 8/06; from Napa Gems, 6/06

Editor's Note: Filler by Keith Alan Morgan

The filler most needed by newsletter editors is inversely proportion. Large filler (most of a page or more) is nice, but rarely needed. Medium filler (a paragraph to half a page) is okay and helpful, but Small filler (one, two, or three sentences long) is the hardest to come by and gets used the fastest.

Flexible Rocks by Kat Koch

Itacolumite or Flexible Sandstone - Is a naturally occurring porous, yellow sandstone that is flexible when cut into thin strips. It occurs in great numbers at Itacolumi, in the southern Minas Gerais, Brazil. It is the best and most widely known example of a flexible sandstone and is a source of diamonds found in the Minas Gerais area. It is also found in Charkhi Dadri district, Haryana, India; Georgia; and Stokes and McDowell Counties North Carolina, USA.

If a piece which is a foot or two long and half an inch thick is supported at its ends it will gradually bend by its own weight. If it is then turned over it will straighten and bend in the opposite direction. Flakes a millimeter or two thick can be bent between the fingers and are said to give out a creaking sound, but specimens showing this property form only a small part of the whole mass of the rock.

Mountain Leather or Leatherstone - An early popular name for the leather-like varieties of asbestos. It can be found in New Brunswick, New Jersey; Swanton, Vermont; Malpaso Quarry, Dumesnil, Cordoba, Argentina; Seaton, Devon, England.

Similar material has been called mountain paper, mountain wood or mountain cork. Minerals known to form "mountain leather" include actinolite, chrysotile, palygorskite, saponite, sepiolite, tremolite, pilolite or zeolite.

Muscovite - Muscovite is easily identified because its perfect cleavage allows it to be split into thin, flexible, elastic, colorless, transparent sheets with a pearly to vitreous luster. It is the only common mineral with these properties.

It can be found all over the world. In the United States, it is produced in Arizona, North Carolina, South Dakota, Georgia, New Mexico, and South Carolina.



But It's OK Because I Got It from the Internet! by Sue Webb, BEAC Chair

When Doug True asked me to serve as the AFMS Bulletin Editors Aids Chair, I was a little reluctant. After all, even though I'm retired, I'm busy, and, like so many of my retired friends, I wonder how I got it all done when I was working. I didn't know what I really could contribute to the job. But friends encouraged me by reminding me that I had spent my entire professional career teaching writing and rhetorical theory to college instructors-in-training and editing 6 editions of what was in those days the best-selling college writing handbook. How could this be that different? I've also already served a couple of years as the BEAC for the California Federation, so I know the ropes at least a little. I understand that in addition to overseeing the AFMS bulletin contest, part of my duties will be to write an article for the AFMS newsletter, most months. For future topics, I'll rely at least in part on the questions and suggestions about editing, writing, designing and producing a bulletin, or the bulletin contest that you send to me at rgms.bulletin@gmail.com. For this first article, I'll address making sure the articles we publish in our newsletters give proper credit to their sources.

It's not only a matter of ethics to acknowledge a debt to the words or ideas of another. It may also be a legal matter. Of course, information that comes from our personal or professional experience doesn't usually require citation. But, any time we look something up before we write about it, any time we find a particularly apt way of saying something, we need to state our source. There's also a murky area called general information which is that information

the average person may be expected to know such as the name of the President of the US, or this year's date for Thanksgiving, or what a leap year is. General information need not be cited unless we use the actual words another person has used to express it. That's one of the times we need to use quotation marks. Actually, we need to use them any time we use combinations of words from other sources. And our use of sources, today, goes well beyond books, periodicals and newspapers. I've also heard people say that if they found it on the Internet, they don't have to cite it. Wrong. We do—the web site and the date we found it. What do we do about images we find—photos, charts, graphs, drawings? We have to state where we got the image and who owns it. The crediting of images is even stricter than is the crediting of text. Well, what if we change the words around and write the ideas up that way? Do we still have to say what the source is? You bet we do! That's called "paraphrase," and the source must always be acknowledged.

So what, as an editor, do we do when one of our society members sends us an article that we want to publish but that clearly contains information derived from sources? When I get those articles, I really do want to print them in our newsletter, but my job is to work with the writers to give proper credit to the sources. I might respond something like this: "Hi, Elswyth, thanks so much for your very interesting article on plate tectonics. I think our members will value the information you've provided there. However, we have to take an additional step before your work can become public. Can you provide me with a list of sources you used to gather all this information? The easiest way is just to insert at the relevant location information about author, title, date and page numbers of the books and periodicals you used, and the location and date of access for web sites consulted. If you got the information by a conversation with someone or from an email, you need to acknowledge that, too. And please, can you help me out by putting quotation marks around the words you used directly from those sources? Thanks. I'm looking forward to hearing from you soon so we can meet our deadline."

But maybe Elswyth doesn't remember where she got everything. Then I can't put her article in our newsletter. It's as simple as that. Now, if you're like me, you would really like to publish the article. It's tempting, but resist. While it is unlikely that an author or publisher would pursue such a case of unwitting plagiarism, it isn't worth the risk either legally or to the reputation of your newsletter and your society. (And just to set your minds at ease, the information in this article came from my personal and professional experience.)

from AFMS Newsletter, 12/18 - 1/19

A copy Ed Lehman's letter with thoughts on the reintroduction of Grizzly Bears to the North Cascades

Re: North Cascades Ecosystem Grizzly Bear Restoration Plan/Environmental Impact Statement, Washington Superintendent,

I am writing in objection of the North Cascades Grizzly Bear Restoration plan. As an avid user of the North Cascades for over 60 years and as a fourth generation Western Washingtonian, I have failed to find evidence that grizzlies were part of the recent ecosystem.

I prefer tent camping for fishing, hunting, hiking, rock collecting, photography and other forms of recreation. I've hosted a week long "Grandpa Summer Camp" for my 12 grandchildren for fun and educational purposes for many years. I have also been a Geology Guide (unpaid) for 45 years all in the North Cascades. As someone who has extensive knowledge and experience in the area I can say that I would not feel safe nor secure doing so in an area with grizzly bears, re-stored or otherwise. Re-introducing the grizzlies this area will also displace and intimidate our native black bears.

Two years ago I attended the Darrington Bear info meeting and the objectors filled the room. At that meeting, I didn't hear one favor for the plan from someone other than North Park Rangers. The Park Rangers insisted there would be no road closures however I was able to clearly identify closures on the poster for Plan A. There are rules governing wilderness that say there must have never been a road within it, with a one mile buffer to detour people interacting with, in this case, the bears.

Two years ago I attended the Darrington Bear info meeting and the objectors filled the room. At that meeting, I didn't hear one favor for the plan from someone other than North Park Rangers. The Park Rangers insisted there would be no road closures however I was able to clearly identify closures on the poster for Plan A. There are rules governing wilderness that say there must have never been a road within it, with a one mile buffer to detour people interacting with, in this case, the bears.

The communities of Winthrop, Concrete, Darrington, Marblemount and many others depend on the income from recreation in the area which would be devastated by this restoration plan. I will lobby against this actively appealing to organized groups of forest users and posting fliers at campsites with your contact information. I am sending this letter to the newsletters for forest users with the request that they also formally object to the North Cascades Grizzly Bear Restoration plan.

Sincerely,
Edward L. Lehman

Ed and Bob suggest that we each write letters to express our opinions on the proposed grizzly bear re-introduction.

*Superintendent
North Cascades National Park Service Complex
810 State Route 20
Sedro Woolley, WA 98284*

You can also comment online until October 24, 2019 at:
<https://parkplanning.nps.gov/document.cfm?parkID=327&projectID=44144&documentID=77025>

from The Council Reporter, 9/19

Help Your Club Kids Find Fun in Communicating! by Jim Brace-Thompson, Juniors Program Chair

I never thought I'd be one of those stodgy old-timers who proclaims, "I remember when!" I cringed and rolled my eyes whenever I heard them. "I remember when we had 200 exhibitors scrambling to enter competition. We had to beat 'em away with sticks!" "I remember when so many people wanted to join our club, we had to beat 'em away with sticks!" "I remember when 500 people showed up at a field trip! Why, we had to beat 'em away with sticks!" I may have rolled my eyes and thought to myself, "Yeah, right," but alas, my rolling eyes have opened, and that is what I have become. To explain...

I've just finished the always enjoyable opportunity of judging junior articles for the annual AFMS Bulletin Contest. This year, the task was pretty easy given that we saw entries from just 3 of the 7 regional federations, with a grand total of only 5 junior articles. After mailing in this year's results, I was conducting some good old fashioned Swedish death cleaning and came across a binder I used in judging articles back in 2007. After blowing away the dust and creaking open the binder, I found an eye-opening number: we had 25 junior articles entered a dozen years ago! Ah yes, I remember when...

To all regional federation newsletter editors: please share this article and encourage all local clubs and societies within your federation to offer carrots (not sticks) to pebble pups and junior members to write a brief article or even a paragraph telling about a recent rock- or fossil-related field trip or experience, a museum visit, a favorite fossil or mineral (for instance, the child's birthstone), or anything rock related. CFMS President Tony Fender has declared 2019 to be "The Year of Communication" as his presidential theme. It's a good theme that we all should pursue each and every day of each and every year.

When kids do write articles, each one should be sent in to the annual bulletin contests. Even if kids don't win,

the very process of writing will help them learn while stimulating their active participation as club members, giving them pride as they see their words printed in their local newsletter. Plus, they can earn a Communications badge via the AFMS/FRA Badge Program regardless of how they do in competition. Don't beat 'em away with sticks! Encourage kids along and help them learn by writing and communicating. Who knows? They just might have fun!

from AFMS Newsletter, 2-3/19

Spotlighting Your Best & Brightest Kids in Rock & Gem by Jim Brace-Thompson, Juniors Program Chair

As many of you know, I write articles for the Kids' Page of Rock & Gem magazine. Within this section, I have occasionally run articles about outstanding juniors in an informal series called "Spotlight on Juniors." For instance, watch for the May issue of Rock & Gem for the latest in this series with an article honoring junior rockhound Lucia Hetrick of the Ventura Gem & Mineral Society. In addition to Lucia, for the past few years I have spotlighted seven other kids, but I—and Rock & Gem Managing Editor Toni Rahn—would like to spotlight many, many more. For this, Toni and I need your help!

The intent of our "Spotlight on Juniors" series is to highlight interests and accomplishments of especially outstanding kids, both to honor those who deserve special recognition and to provide role models for other kids. The junior rockhound of today goes on to be the professional of tomorrow. For instance, a young boy who called himself "Dino Bob" when I joined my very first rock club (the Carmel Valley Gem & Mineral Society) some 28 years ago wrote a monthly dinosaur column for the society newsletter. Well, Dino Bob is now a full-fledged paleontologist whose work was featured in no less than the pages of the journal *Science* not so very long ago.

Do you have a pebble pup or junior member (up to age 18) in your society who is completely "rock crazy" and gung ho for our hobby and who may be primed to be the next Dino Bob? If so, please contact me with names and details about kids whom you believe deserve special recognition, along with a photo or two. I'll be happy to do a write-up on them for Rock & Gem Kids. I kindly ask all regional newsletter editors who receive the AFMS Newsletter—along with any local society officers who also receive this—to reprint this article and to promote this within your regional and local society newsletters and during your monthly club meetings.

As a start, you might consider kids that your society has nominated in the past for Junior Rockhound of the Year recognition. I know that many such kids have been honored in this way over the years. Please contact me (jbraceth@roadrunner.com, 805-659-3577) and we'll get the ball rolling on an article within the pages of our national hobby magazine, Rock & Gem, honoring and sharing the unique and individual perspective, fun and joy that each and every child brings to our hobby!

from AFMS Newsletter, 4-5/19

Where You Least Expect Them: Mineral Crystals in Cheese by Ed Clopton

Washed-rind cheeses—which are bathed in brine during aging to encourage the bacterial growth that gives each variety its distinctive aroma, flavor, and texture—are well known to cheese lovers everywhere. Their rinds often have a subtle grittiness that has only recently been studied. Food scientists at the University of Vermont have identified crystals of two rare minerals, ikaite and struvite, in cheese rinds.

Ikaite, $\text{CaCO}_3 \cdot 6\text{H}_2\text{O}$, has previously been identified only in freezing underwater environments and is familiar to mineral collectors as "glendonites", calcite pseudomorphs after ikaite. Ikaite was a surprising find since the cheeses in which it was found had never been below 0°C . Its formation there is unexplained. Struvite, $\text{NH}_4\text{MgPO}_4 \cdot 6\text{H}_2\text{O}$, is a mineral frequently associated with bacterial activity but has only rarely been identified in foods. The authors of this study, published in *Canadian Mineralogist* (January 1, 2017), suggest that cheeses may provide a useful model for studying biomineralization.

from Rockin' Around, 9/19

Young Tumblers News

Young Tumblers Show Display Cases by Kat Koch

I want to congratulate our Young Tumbler's on their display case entries. They did a great job again this year!

Alex Danneman, and Isaiah Fu won 1st Place ribbons. Alex showed off his large fossil collection and Isaiah displayed his collection of rocks, minerals and fossils. It was a first time display case for Isabel and Alexa Viejo who each won 2nd place ribbons. Isabel's case tied her rocks and homemade crystals to the solar system. Alexa had a rainbow themed case with her rocks and homemade crystals. Each of them really did a good job of tagging, arranging and using their imagination in creating their cases.

Thank you for taking part in our show and helping to create a great show.

Each of the Young Tumblers earned badges for their display cases. Those attending the October meeting will be presented their badges. So please plan on being there.

Halloween Coloring Page by Keith Alan Morgan

Kids who color the picture and bring it to the next meeting will get two rock bucks.



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 (<http://www.mineralcouncil.org>).

- October 12** Marysville Rock Club - Money Creek – Meet at the Money Creek Campground before 9:00 am - Picture Jasper - Bring digging & R. Bar pick
Ed Lehman wsmced@hotmail.com h# (425) 334-6282 c# (425) 760-2786
- October 19** Cascade Mineralogical Society - Red Top Mountain - Meet in the Cle Elum Safeway parking lot 9:30 am
Roger Danneman cell 425-757-3506

Field Trip Report by Roger Danneman

On Saturday September 14th we went over Chinook Pass to Little Naches for Thunder Eggs, Lily Pad Jasper and Leaf Fossils. We had 16 folks altogether in 6 vehicles. Weather was great. No rain. Lots of fun. I managed to load up a bucket from the thunder egg site, where we spent 3 hours. Then we moved to the lily pad site where I loaded up another bucket of material. And then on to the fossils for a short time. The mudstone where the carbonized leaf fossils are found is estimated to be about 35 MYA according to the state geology maps.

Next scheduled field trip is Saturday October 19th to the main dig site at Red Top Mountain near the lookout tower. There is a hike involved of about 1 mile. If there are some folks who don't want the mile hike, but still able to go up a steep hillside, the 2nd option would be to drive around on the west side where we've been going the last 3 years. We'll meet in the Cle Elum Safeway parking lot near the gas pumps at 9:30 am and depart at 9:45.

The CMS Web page and Facebook Group page will be kept up to date on bonus trips. The snow level is dropping and this will probably be our last trip in the high country for 2019.

Stones Of The Zodiac

Aquarius (Jan 20 - Feb 18) Garnet
 Pisces (Feb 19 - Mar 20) Amethyst
 Aries (Mar 21 - Apr 19) Bloodstone
 Taurus (Apr 20 - May 20) Sapphire
 Gemini (May 21 - June 20) Agate
 Cancer (June 21 - July 22) Emerald
 Leo (July 23 - Aug 22) Onyx
 Virgo (Aug 23 - Sept 22) Carnelian
 Libra (Sept 23 - Oct 22) Chrysolite
 Scorpio (Oct 23 - Nov 22) Beryl
 Sagittarius (Nov 23 - Dec 21) Topaz
 Capricorn (Dec 22 - Jan 19) Ruby

from Golden Spike News, 8/19

Need some ideas for back to school activities? Check out our wildlife coloring sheets!

<http://ow.ly/Q8X350vCfZY>

from USGS Twitter, 9/4/19

Shows

October 5 & 6: Saturday & Sunday 10 am – 5 pm
Marysville Rock and Gem Club, 45th Rocktoberfest
Totem Middle School Cafeteria
605 7th Street NE, Marysville WA

October 11-13: Friday & Saturday 10 am – 6 pm; Sunday 10 am - 5 pm
Portland Regional, 39th Annual Rock and Gem Show
Jackson Army National Guard
6255 NE Cornfoot Rd, Portland Oregon

October 26 & 27: Saturday 10 am – 6 pm; Sunday 10 am – 5 pm
Bellevue Octoberfest of Gems Vasa Park
3560 W. Lake Sammamish Pkwy SE, Bellevue WA

October 26 & 27: Saturday 9 am – 6 pm; Sunday 10 am – 5 pm
Clackamette Mineral & Gem Club, 55th Annual Show
Clackamas County Fairgrounds
694 NE 4th Ave, Canby, Oregon

Internet Addresses

The Interactive Geology Project has produced the video, A Brief History of Colorado Through Time. This 25 minute movie illustrates the geologic evolution of Colorado through time and can be watched at <http://igp.colorado.edu/library/video/143654356>.

from Flatirons Facets, 1-2/19

Rock Jokes On The Web!

<https://www.jokesbykids.com/rock/>
<https://thoughtcatalog.com/januarynelson/2018/06/rock-puns/>
<http://www.sciencekids.co.nz/jokes/earth.html>

from Crack 'n Cab, 4/19

Rockhound Gear on Youtube

Canadian collector Phil Belley has posted a good Youtube video of “must-have” gear for field collecting. Not everything Phil recommends is required for everyone or for every field trip, depending on how far afield you intend to go, but his video is a good starting point for assembling or reviewing your field gear. Check out Phil’s video at www.youtube.com/watch?v=B4EwdG2KPMA.

from Rockin' Around, 9/19

Galena Collector’s Tip

The Minerals.net website offers a collector’s tip for improving the looks of tarnished galena specimens: using water and mild soap. However, galena specimens can be brittle or have begun to corrode, so they should be handled with care. Another source indicates that hot water can crack specimens (due to expansion and contraction during heating and cooling), so wash gently.

from The Mineral Newsletter, 9/19