



THE BEMS TUMBLER

April
2007

The monthly newsletter of the **Boeing Employees' Mineralogical Society, Inc.** Seattle, Washington

Next Meeting:
April 12, 2007
7:30 p.m.

**Boeing Recreation
Activity Center**

Room B at
22649 83rd Avenue S.

Just off the Valley
Freeway (Highway 167)
North edge of Kent

The Program will be a video
on Aquamarine



*This month remember
to wish a
Happy Birthday to
Shirley Houser on April 1,
Debra Jurasek on April 6,
Dennis Swenson on April 9,
Joan Keltgen-Lo on April 13,
Barbara Woodward on April 14,
Thomas Slee on April 17,
David VanDyke on April 28,
Leslie Anderson on April 30,
and also remember
to wish a
Happy Anniversary to
Frederick A. & Delores Geraldson on April 1 (2 years),
Steven & Carolyn Mackey on April 24 (47 years),
John & Tamara Carter on April 26 (2 years)*



This publication is an official bulletin of the Boeing Employees Mineralogical Society Inc. (BEMS) however, news items and editorial comment herein do not necessarily reflect the views or opinions of the BOEING COMPANY.

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

When on field trips this organization uses CB Channel 7.

Keith Alan Morgan, Editor

Postal, or Email, Exchange
Bulletins are welcome.
Email preferred.

morgangraphix@yahoo.com

Officers & Directors 2007

President Malcolm Wheeler, Jr.
Vice President John Carter
Treasurer Richard Russell
Secretary Keith Alan Morgan
Director Dick Morgan
Director Bill Cook
Past President Mike Brimmage
Federation Representative
Mineral Council Bob & Jackie Pattie
Program John Carter
Refreshment Esther McKain
Membership Keith & Dick Morgan
Health & Welfare Steve Mackey
Library Charlotte Churchill
Raffle/Display Keith & Dick Morgan
Field Trip Bill Cook
Tumbler Editor Keith Alan Morgan
Webmaster Keith Alan Morgan
Shop Operations Leslie Brooks
Shop Instructors:
 Casting Joe Poston
 Faceting Dan Clayton
 Faceting Cliff Frome
 Jewelry Joe Poston
 Lapidary Dick Morgan

Club eMail address is
morgangraphix@yahoo.com

2007 BEMS Dues are \$15 flat rate Individual, Family, or Retired.

Send or deliver dues to:

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

M/S 14-AF

(or pay him at the meeting)

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

This Society is affiliated with the *Boeing Company*; 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 Dick Morgan

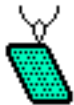
To get information to the Tumbler via the Internet send it to **morgangraphix@yahoo.com** Please put Tumbler and subject in the Subject Line. The deadline is the 20th of each month, (except December which varies).

The BEMS external website is **<http://www.bemswa.org>**

Since WWI, almost all zircons have been heat treated. A whole industry has been built in Bangkok, Thailand, using the process which involves heating the plain, ordinary reddish-brown stones to a temperature between 850°C and 1,000°C. In the presence of air, they turn golden yellow. Without air, when heated, they become a beautiful blue.

via Pegmatite, 4/06; via The Glacial Drifter, 3/99; from Rock-Tok, 9/96

Modern men and ancient Hindus agree on diamond as April's birthstone; the Hebrews, Arabs and Romans selected clear sapphire.
from The Pegmatite, 4/05



April



SUN	MON	TUE	WED	THUR	FRI	SAT
1	2 Lapidary Shop	3 Lapidary Casting Jewelry	4	5	6 Faceting Class	7
8	9 Lapidary Shop	10 Lapidary Casting Jewelry	11	12 General Meeting 	13 Faceting Class	14
15	16 Lapidary Shop	17 Lapidary Casting Jewelry	18	19	20 Faceting Class	21
22	23 Lapidary Shop	24 Lapidary Casting Jewelry	25	26	27 Faceting Class	28
29	30 Lapidary Shop					

Lapidary Class Hours:.....Monday.....7:00 pm to 9:00 pm
 Lapidary Shop Hours:.....Tuesday.....9:00 am to 6:00 pm

More Field Trip info can be found on Page 9
 More Show info can be found on Page 10

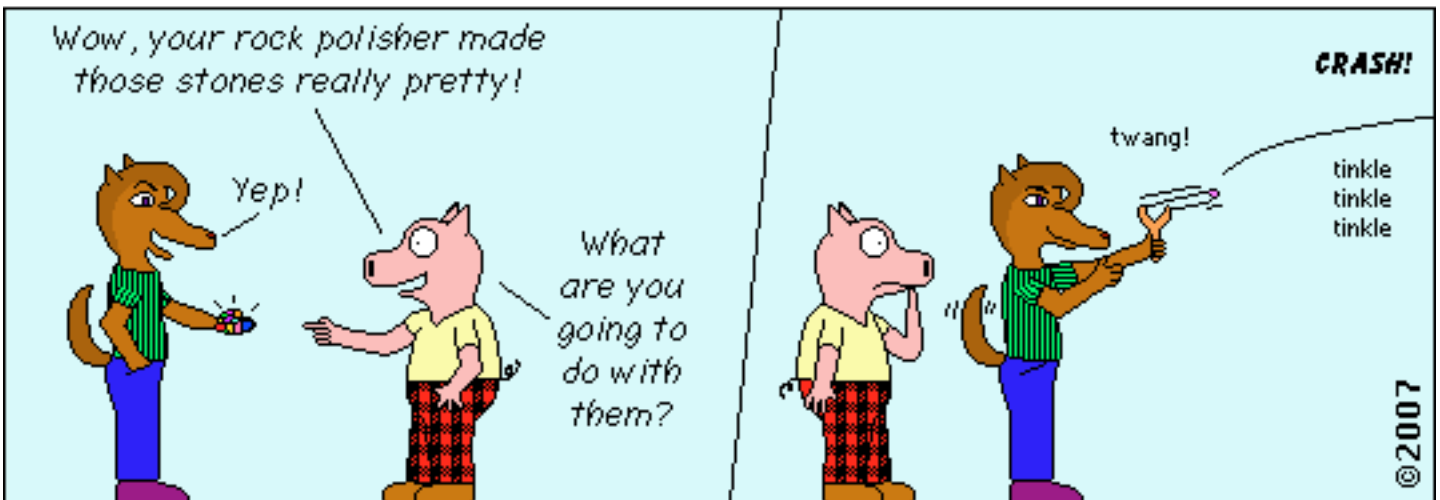
Jewelry Shop Hours:.....Tuesday.....9:00 am to 6:30 pm
 Jewelry Casting Hours:.....Tuesday.....9:00 am to 6:30 pm (Casting Information All Day)

Faceting Shop Hours:.....Wednesday.....9:30 am to 5:00 pm open shop, 5:00 pm to 8:00 pm by appointment
 Faceting Class Hours:.....Friday.....4:30 pm to 8:00 pm

BEMS General Meeting:.....2nd Thursday.....7:30 pm to 10:00 pm

The Big Bad Rockwolf's Younger Days

by KAM



BEMS Board Meeting Minutes February 27, 2007



by Keith Alan Morgan, 2007 Secretary

Members attending

President Malcolm Wheeler

Treasurer Rich Russell

Secretary/Editor Keith Morgan

Refreshment Esther McKain

Shop/Director/Raffle Dick Morgan

Director Bill Cook

Guests Karin Wheeler & Pat Morgan

Meeting began at 9:45 AM.

Editor's Report: The editor now has an email list with just members of the board for information just for board members.

Webmaster: A decision was made to make Keith Morgan the new webmaster for the external club website & keep the information up to date. It was also decided to pay the webmaster \$100 a month.

Old Business: A decision was made that the club constitution will be revised by April.

Recreation needs a count of how many outlets (water, electrical) & plug-ins the shops have.

It was decided that Les Brooks would be appointed the position of Shop Operations.

We will have a demonstrator of glass bead making at the March general meeting and a movie for April.

New nametags were discussed. Rich Russell has been talking to one business that can make badges. It was suggested that he contact former member Elliot Woodward to see if we can get a better deal.

The Mineral Council is looking for clubs to sponsor, or co-sponsor, field trips this summer and we're looking into co-sponsoring a trip.

Bill Cook was appointed the new Field Trip chairman. The club will buy a \$200 license for Weyerhaeuser lands so he can lead trips there.

Shop: We're out of 600 grit.

Also users & instructors should make a list of supplies needed for the shops, and prices for them. A vote on which supplies to buy will be made by the Board at the May Board meeting.

Tod Stevens has declined the offer to continue being the Federation Representative. It was suggested that Mike Blanton might be willing to take the position. Malcolm will talk to him before making a decision.

New Business: Rich Russell reported that Boeing will pay for schooling at the Pratt Institute.

The Tumbler has won an award from the NFMS. The editor wonders if anyone will be able to attend ceremony at the Federation show in Butte, Montana, on August 4th to pick it up?

The meeting adjourned at 11:30 AM.

Editor's Note: Whoops!

Well, I goofed up big time last month with the birthdays & anniversaries. I have all the dates saved in an Excel file in numerical format. I then just sort everything by number and choose those names for that month. The method works fine... if I can remember the right month number. For some reason I selected the birthdays & anniversaries starting with 04, instead of 03. (I've since added a field spelling out the month name so hopefully this won't happen again.)

So belated birthday wishes to

Jeannino Scott (March 1)

Shirley Stewart (March 6)

Joe Poston (March 16)

Delores Geraldson (March 20)

Jacqueline Pattie (March 31)

And a happy belated anniversary to John & Brenda Haworth who celebrated 43 years on March 28.

Sorry for the mix-up.

If you want to have your birthday and/or anniversary listed in the Tumbler give that information to the editor and hope he remembers which month is which.

For Sale

20 acres BLM mining claim for sale for \$4500. If interested call D. Nelson at (253) 549-2381.

Anne Ko has a new 36" diamond saw blade for \$200. For more info call Anne at 206-723-5885.

What family does Maiasaur belong to?
I don't think any families in our neighborhood have one.

BEMS General Meeting Minutes March 8, 2007



by Keith Alan Morgan, 2007 Secretary

Meeting began at 7:32 PM, President Malcolm Wheeler presiding.

49 members were in attendance.

The minutes for the last meeting were approved as printed in the Tumbler.

Editor's Report: The editor goofed up on the birthday & anniversary list last month & printed April's list instead of March's. He read the list of March birthdays & anniversaries.

Also the Tumbler will receive an award from the NFMS & he asked if anyone could pick it up for him at the August NFMS show in Butte, Montana. Someone will.

Webmaster Report: Keith Morgan was appointed the club's new Webmaster. Also the Board had decided to pay him a \$100 a month for keeping the website up to date. Unfortunately there was not much for him to report as his computer had died.

Treasurer's Report: Rich was not able to attend the meeting, but the president reported that we have money.

Users & instructors should make a list of supplies needed for the shops, and prices for them. A vote on which supplies to buy will be made by the Board at the May Board meeting.

Shop Reports: Cliff reported that Friday Night Faceting is doing well. There will be an opening soon, but there are already two people on the waiting list. However if you would like to get on the waiting list contact Cliff Frome.

There is an opening for an instructor on Tuesdays. Contact Malcolm Wheeler if you are interested.

Dick reported that Monday Night Classes are going well, but he needs spare rock for teaching as the supply is getting low & not very good.

Les Brooks has been appointed the position of Shop Operations since he's been keeping our shop equipment repaired & working for all these years.

Field Trips: Bill Cook has been appointed our new Field Trip Chairman.

Bill is considering a trip to the Rice Museum in Oregon and will put out a sign-up sheet to see if there is any interest.

Library: The library has a stack of Council Reporters, the newsletter for the Washington State Mineral Council.

Health & Welfare: Jennifer Russell has back problems.

Dan Clayton has health problems & we'll be looking into whether there is anything the club can do to help him out.

Federation Report: Michael Blanton has been appointed as our new Federation Representative.

Mineral Council: The last west side meeting was mostly people signing up for trips.

There's a trip to Marble Mount for talc that's being looked into.

Ed Lehman is considering putting together a CD-Rom on collecting sites, featuring maps, pictures of the area & examples of what the material looks like.

Picnic: The picnic area has been reserved. August 12, all day in Renton's Liberty Park. The cost was \$80.

South Sound Show Report: The last meeting was Wednesday, March 7, at 11 AM.

Malcolm Wheeler was appointed a co-chairman & put in charge of Security.

Help is needed for the Creative Center & especially with show set-up.

Tumbling material is needed so we can have prizes for the spinning wheel.

It was explained to the new members that the South Sound Gem, Opal & Mineral Show is the show that BEMS & the Northwest Opal Association puts on in November.

New Business: Michael Blanton announced that the Kitsap Club's annual Auction is next month.

Honorary memberships for specialized service to the club were given to Les Brooks, for keeping our shop equipment repaired & running, & Joe Poston, for teaching casting.

Esther McKain needs goodies for next month's meeting.

Program: Our demonstrator, Cheryl Matson, a teacher at the Pratt Institute, showed how to make glass beads & did some glass blowing.

She also explained that Boeing's Quality Through Training Program (QTTP) is willing to pay for tuition at the Pratt Institute, so Boeing employees should look into that if interested.

Meeting was adjourned at 8:46 PM.

Displays:

Carolyn Sealton - Chrysocolla from Tucson & polished river rock from the Colorado River

Bob Wahlberg - Refined silicon

Steve Mackey - Chrysocolla & malachite from the Republic of Congo; realgar/orpiment/quartz from Peru; hematite with rutile from Brazil

Roger Glasscock - 1.52 carat Montana sapphire

Ed Laville - Smack'em Rocks

Cheryl Matson - hand-made glass beads & bead-making equipment

What would you do if you found a Tyrannosaurus rex sleeping in your bed?

Sleep somewhere else!

from Pegmatite, 2/07



Young Richard's Almanac by Dick Morgan

Over the ages many people have predicted the end of the world, but the world is still here while many of those people have disappeared.

South Sound Regional Science Fair by Dick Morgan

On Saturday, March 26, 2007, at the Pacific Lutheran University, the South Sound Regional Science Fair for the students of the local schools was held. The work that was expended on the many and varied projects to vie for the honors shows that many students in our school system are extremely hard working and highly intelligent. The judging was done in sessions, with the youngest presenters starting at 8:00 A.M. followed by the middle school and finally the high school students.

As a member of the Boeing Employees' Mineralogical Society, my wife Pat and I were asked to provide a display of fossils, rocks, and minerals and explain the story of the material. The display consisted of about 20 different fossils on the table and several of the similar types available in the boxes behind the table. About the same number of crystals and minerals out on display with others held in reserve to help explain them. The last part of the display was a number of polished cabochons used to explain the lapidary interest in rocks.

The interest in our display was busiest during the first session as many of the elementary students were accompanied by their whole family and it appeared that a rock display was more interesting their brother or sister's presentation. The most questions were asked about the fossil portion of the display and it had the most adults interest also. Some of the students were familiar to me as they attend the schools or classes in which I volunteer. There was also a free polished rock available for each visitor to the display.

There was some interest in providing more of these scientific type rock and fossil displays for other school and scout functions. I have given my phone information to be contacted for these functions in the future. If there is this much interest in the south sound schools and scouts then maybe some of our members can check with their children, grandchildren or their friends about the interest of children in how rocks and fossils came to be. Most rockhounds have a basic knowledge of this and can explain in words children understand.



End of the day.

Coprolite, Or This Dung Is For You by Brett Whitenack

This article deals with a subject that some people find rather offensive and vulgar. Others find it quite amusing. There are few people who find it extremely fascinating and worthy of study. What could exhibit so many varied reactions? I'm speaking of petrified poop, Dina doo, fossilized er, ah, pardon me. I don't wish to offend anyone reading this article. I'm talking of the much maligned, the lowly, the humble, coprolite.

"What is coprolite?" I'm glad you asked. Coprolites are fossilized feces, dung, scat! Yes, ladies and gentlemen, coprolites are the extruded remains of meals that prehistoric animals deposited.

"But how can these be fossils?" The oldest coprolites date some 400 million years ago from the Silurian Period and are from fish. The most recent coprolites are from Ice Age animals and may still contain much original organic matter—a fact your nose may discover if the coprolite gets wet!

Coprolites form just like any other fossil. They must have been buried rapidly in fine grain sediment and kept away from biological agents that could destroy them, such as scavengers or the environment. Ground water percolating through a potential fossil must be of a correct nature, not too acidic, and full of minerals that can replace the soft materials. Of course, these requirements only pertain to those coprolites that are petrified. Some younger coprolites have been found desiccated in southwest caves and date from the last Ice Age.

Being of a soft nature, dung doesn't preserve as readily as bones, teeth, or scales. However, coprolites aren't exceedingly rare by any means, and you too can easily own a piece of this most interesting geologic wonder. Given its detached nature, a coprolite can't be identified with the exact species of animal that left it. In some instances, coprolites from sharks can be determined from the grooves and markings on them, as sharks have distinctive spiral valves in their intestines.

By studying the makeup of a coprolite, one can tell if the animal was a carnivore (meat eater) or herbivore (plant eater). It is interesting to note that carnivorous coprolites are more readily preserved due to their higher mineral content from the bones the animal ate.

Other things that can be told by studying coprolites are such things as the paleoenvironment where the animal lived, other organisms that were associated with it, and how this animal interacted with its surroundings.

The name coprolite has two sources as to how they were named: one fact, the other fiction. During the great "bone wars" of Professor O.C. Marsh and Professor Edward Drinker Cope during the latter years of the last century, Professor Cope's men apparently stole an allosaur skeleton from a quarry of Professor Marsh's. This incensed Professor Marsh, and to "immortalize" Professor Cope, Professor Marsh named the fossilized fecal remains "coprolites" to get even with his arch enemy, a quaint legend, but entirely untrue.

The name coprolite has more humble and mundane origins. The English geologist, William Buckland, deduced their true nature and named them from the Greek kopros, "dung," and lithos, "stone," literally dungstone. Buckland thought they would be important in agriculture as a source of fertilizer due to their high calcium phosphate content. In addition to the information they can tell us, coprolites have become fashionable as a cutting material. Believe it or not, some coprolites exhibit beautiful colors when cut and polished. It has been said that the reds are from the meat the animal ate, brown from nuts and seeds, green from plant material, and black from the juices of blackberries. Actually, these colors come from the minerals deposited by ground water that percolated through them as they were fossilized.

via West Seattle Petroglyphs, 8/06; via Carny Hound, 3/06; via The Southwest Gem, 2/04; via Stoney Statements, 1/04; from The Stone Chipper, 8/03

A Brief Guide To Geologic Literature by Teddy Adkins, Geologist, Unit Petroleum Company

The following phrases, frequently found in technical writings, are defined below for your enlightenment.

It has been long known: I haven't bothered to check the references.

It is known: I believe.

It is believed: I think.

It is generally believed: My colleagues and I think.

There has been some discussion: Nobody agrees with me.

It can be shown: Take my word for it.

It is proven: It agrees with something mathematical.

Of great theoretical importance: I find it interesting.

Of great practical importance: This justifies my employment.

Of great historical importance: This ought to make me famous.

Some samples were chosen for study: The others didn't make sense.

Typical results are shown: The best results are shown.

Correct within order of magnitude: Wrong.

The values were obtained empirically: The values were obtained by accident.

The results are inconclusive: The results seem to disprove my hypothesis.

Additional work is required: Someone else can work out the details.

Rick's Rock Sauce by Rick Olson

Start with one medium sized Habanero pepper from your favorite grocer. Fresh is preferred, but canned will do. Chop the pepper into small pieces. These are very hot and you might want to consider wearing rubber gloves when you cut them.

Add the above pieces to two cups boiling water and simmer for about 20 minutes. Pour through a strainer or cheese cloth to remove any seeds or pulp. Place this in a jar and allow to cool.

Now take a slab and either dip it in this solution or paint the solution on with a brush and allow to dry. This will work for small pieces of rough as well.

This recipe produces a liquid that, when applied to a slab, helps prevent the habit of rock licking. It will work for children, but for some reason, this nasty habit seems to be much more prevalent in adults. Get me some water—QUICK!

Another variation of this recipe produces a coating that makes a rock more desirable to lick. Instead of using peppers, the rocks are soaked in a bouillon solution. Can you imagine the taste sensation of licking a piece of petrified wood and having it taste like prime rib? YUM!

Next month's flavor.... Fish.

Enjoy.

from Rocky Trails, 4/05

Laws of the Natural Universe

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

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

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

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

Variation Law: If you change lines (or traffic lanes), the one you were in will start to move faster than the one you are in now. (Works every time.)

Bath Theorem: When the body is fully immersed in water, the telephone rings.

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 the Result: When you try to prove to someone that a machine won't work, it will.

Law of Biomechanics: The severity of the itch is inversely proportional to the reach.

via Quarry Quips, 3/06; from T-Town Rockhound, 2/06

What Happens to Club Bulletins?

It is said that of every one hundred people who receive a club bulletin, 3 discard their copy along with other material they regard as junk mail, that leaves 97.

17 have no way to get the staple out, so they just lay it down and forget it, that leaves 80.

17 powerful ones rip the bulletin apart, that leaves it torn and wrinkled, not worth reading, that leaves 63.

13 open it, but don't have their glasses handy, so that ends that, that leaves 50.

12 look at the first page - they aren't mentioned there, so they chuck it, that leaves 38.

9 glance through it, then lay it down where it gets buried in a pile of other papers and magazines, that leaves 29.

10 exchange editors read it to find out something they can use, that leaves 19.

13 members read it because they are interested, that leaves 6.

5 relatives are reading out of loyalty to the editor, that leaves 1.

The editor reads it to admire the work.

via Quarry Quips, 8/06; via Beehive Buzzer, 7/06; original source unknown

Chain Letter

If you are unhappy with your editor, just copy this letter and send it to six (6) other clubs.

Then, bundle up your editor and send him to the club that heads the list and add our club's name and address to the bottom of it.

Within ONE MONTH you will receive 16,436 Editors!

One of them ought to be a dandy!

WARNING - Do Not Break The Chain. One club did and got their old editor back.

via Quarry Quips, 1/07; from Rock Chips, 11/06

Field Trips

The club or clubs sponsoring the field trips are shown in italics. When known I have listed a phone number and contact person for each sponsoring club below the listed trips. If you are not a member of the sponsoring club, you should phone and ask permission to go on their field trip.

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

Information from the Washington State Mineral Council webpage (<http://www.mineralcouncil.org>) & the British Columbia Lapidary Society webpage (<http://www.lapidary.bc.ca/trips.html>).

- April 14 *North West Rockies - Racehorse Creek* - Fossil Leaves & fresh Mushrooms - Meet at 9:00 am at Nugents Corner IGA - Bring shale splitting tools
Ed Lehman (425) 334-6282 or wsmced@hotmail.com
Kathy Ernst (360) 856-0588 or earnstkk@comcast.net
- April 21 & 22 *All-Rockhounds Pow-Wow Club of America - Saddle Mountain - Petrified Wood* - Camping will be at the state boat access near Buckshot Ranch (Department of Wildlife requires an access permit for camping) - Bring a pry bar, shovel, pick & rock hammer - Field Trip participation requires membership (\$5 a person or \$10 a family)
- April 22 *BC Wagonmasters* - The west side of **Harrison Lake** - Clam or Belemnite Fossils - Meet at Sasquatch Inn parking lot at 9:00 AM. The Sasquatch Inn is located on Highway #7 in Harrison Mills. This is also at the turn-off for the Hemlock Valley Ski area. If you don't know where this is, check a map. You may end up being late and miss the group.
Walt Pinder (604) 826-2342

Rockhound Blowout Move-In Sale

March 31st - April 1st: Saturday & Sunday 9 am - 4 pm
 Everett Rock & Gem Club
 12224 42nd Ave NE
 Marysville, WA 98271

From a 50-year rockhound collection
 Hundreds of buckets of rough, boxes of slabs, some lapidary tools & equipment
 Everyone welcome

What has a spiked tail, plates on its back and sixteen wheels?
 A stegosaurus on roller skates.

from Pegmatite, 1/07

Paleontological Resources Act Reintroduced In The House

by John Spunaugle, American Lands Access Association Executive Vice President for Legislation.

On January 18, 2007 a fossil collecting Bill HR 554 "Paleontological Resources Preservation Act" introduced into the U.S. House of Representatives by Congressional Representatives McGovern of Massachusetts and Renzi of Arizona. It was sent to the Committees on Natural Resources and Agriculture for a period of time to be determined by the Speaker of the House. [This means that regardless of what the Committee /Chair people do, the Bill can be brought to the floor of the U.S. House for a vote at any time with or without amendment of Committee recommendation].

Preliminary examination of the actual Bill language suggests that it is very similar to the Bills introduced and passed by the U.S. Senate in past years. Casual collecting would be allowed as seen appropriate by the government land managers. Provisions for civil and criminal penalties remain in the Bill as does a rewards section for information on possible violators and other property confiscation including all paleontology resources.

The bill has also been introduced in the U.S. Senate, as Bill S-320.

You can read the full text of HR 554 or S-320 at <http://thomas.loc.gov/> and then entering the bill number. If you choose to write your Representatives and Senators, please also send a copy to Speaker Pelosi.

Copies of the Bills are found on the internet at <http://thomas.loc.gov> using the Bill numbers.

via Rock Rollers, 2/07; from AFMS Newsletter, 3/07



Shows

March 31st - April 1st: Saturday & Sunday 9 am - 4 pm
Everett Rock & Gem Club,
Rockhound Blowout Move-In Sale
 12224 42nd Ave NE
 Marysville, WA 98271

April 14 & 15: Saturday 10 am - 6 pm; Sunday 10 am - 5 pm
Mt. Baker Rock and Gem Club,
46th Annual Rock and Gem Show
 Bloedel-Donovan Park Community Center
 2214 Electric Ave.
 Bellingham, WA

April 20 - 22: Friday 9 am - 6 pm; Saturday 10 am - 6 pm;
 Sunday 10 am - 4:30 pm
Willamette Agate and Mineral Society,
52nd Annual River of Gems Show
 Polk County Fairgrounds
 Hwy 99 - 10 miles west of Salem
 Rickreall, Oregon

April 21 & 22: Saturday 9 am - 6 pm; Sunday 9 am - 4 pm
Yakima Rock & Mineral Club, Parade of Gems 70 Years
 Central Washington State Fairgrounds, Modern Living Bldg.
 Fair Ave. & E. Nob Hill Blvd.
 Exit #34 off I-82
 Yakima, WA

April 21 & 22: Saturday 10 am - 6 pm; Sunday 10 am - 5 pm
Lakeside Gem & Mineral Club, Annual Show
 Benton-Franklin Fairgrounds, building #1
 10th & Chemical Dr.
 Kennewick, WA

April 28 & 29: 10 am - 5 pm
Grays Harbor Geology & Gem Society, Earth Treasures
 Grays Harbor Fairgrounds
 43 Elma/McCleary Rd.
 Elma, WA



Internet Addresses

Wyoming Dinosaur Center & Dig Sites
http://server1.wyodino.org/index_frames.htm
 from Owyhee Gem, 7/03

Mineral Information Institute
<http://www.mii.org>
 from Coastal Waves, 11-12/06-1/07

<http://www.yuprocks.com>
 from Rocky Trails, 11/06

Ice Age Flood Institute
<http://www.iafi.org>
 from Hy Grader, 1/07

Stonerose Interpretive Center & Eocene Fossil Site
<http://www.stonerosefossil.org>
 from West Seattle Petroglyphs, 8/06

<http://www.rocktumblers.blogspot.com>
 via Breccia, 7/06; from The Rollin Rock, 7/06

<http://www.blackmarketminerals.com>

Beads & Bears
<http://www.cherylmatson.addr.com>
 (website of our March speaker)

