

# WASHINGTON AGATE & MINERAL SOCIETY NEWSLETTER

Volume XVI ISSUE 12

DECEMBER

2013

OLYMPIA WA

WEBSITE: [HTTP://WWW.WAMSOLYMPIA.WORDPRESS.COM](http://www.wamsolympia.wordpress.com)

## REFRESHMENT LIST:

**DECEMBER - CHRISTMAS PARTY (BYOT) Bring your favorite holiday treat. We're talking finger food. The club will supply drinks.**

**As is our custom, please bring one gift--doesn't have to be rock related--to our Christmas meeting. You can wrap it nicely or just put it in a sealed paper bag. If it's specifically for a man, a young girl, etc, please write that on the outside. Like our silent auction, each person will write their name under one present. When the bell goes off, you get the present that has your name under it.**

**Of course, the most fun of the evening is not having any business to discuss.**

### BUY...SELL...TRADE

*This column is offered free to WAMS members to buy, sell or trade equipment or material related to rocks or minerals.*

## TREASURY REPORT:

*The checking stands at \$4180.30. We own 20 tables and literally 1-2 tons of rock. Running tally of rock sold vs \$3000 investment. Sold to date: \$794.*

*Bills coming up: Insurance \$375, 2014 rent \$350, Federation and Mineral Council dues for 2014.*

### LAST CALL FOR DUES...IF YOU HAVEN'T PAID:

Dues haven't changed--\$10 per household if the newsletter is mailed or \$5 per household if sent by email. You'll have the November, and December meetings to pay. Those who don't will be taken off the mailing list December 15th. Your dues also entitled you to receive the Northwest Federation Newsletter.

## THE ANCIENT EYE

Trilobites are among the oldest of the meazoans (multi-cellular animals with differential tissues and organs.) They are incredibly complex, especially for being the earliest with a brain, nervous system, digestive tract, muscular system and compound eye. The puzzle of their complexity was emphasized by the lack of evolutionary predecessors.

Trilobites were strictly marine animals that first occurred at the base of the Cambrian. It was thought they were among the first fossils since no undisputed form was known in the Precambrian. There are a wide variety of fossils of simple plants and animals among the late Precambrian rocks, but nothing as complex as the trilobite. When soft-bodied trilobites were discovered in the Vendian (late Precambrian) period, it is probable that the trilobite's predecessors were often not fossilized because of their lack of hard parts.

Hard shells were primarily a Cambrian development. The evidence is that non-shelled trilobites lived in the Precambrian and developed hard shells of elegant and beautifully simple structure in the Cambrian, after which growing competition caused them to develop increasingly specialized and bizarre forms with complex spines, antlers and other armor probably meant for defense.

The trilobite's inevitable decline was prolonged during the Carboniferous period, their antlers and spines disappearing, the specialization preventing them from adapting. Declining in numbers and in function, plain, small and defensive, the entire class of animals in the largest phylum of animals on earth, the arthropods, became extinct by the end of the Permian. They had wandered the earth for 300 million years and had developed 1,500 genera and over 10,000 species. Edited from Larry Solomon in FOSSIL NEWS

Calgary Lapidary Journal March-April 2007

## LOCAL FIELD TRIPS (PUB. WSMC)

CMS, WMSC = Cascade Mineral Society. Brian Williams (206) 290-2312 email [bwaters2011@gmail.com](mailto:bwaters2011@gmail.com)  
Ed L = Ed Lehman (425) 334-6282 [wsmced@hotmail.com](mailto:wsmced@hotmail.com)  
WSMC = Washington State Mineral Council, use Ed above.  
BC Wagon masters: Clair Belzer 604-946-8656  
Kit = Kitsap Rock club: Tony Schackmann 360-372-2777  
LkSd = Lakeside Gem & Mineral club. Andy Johnson 509-546-1950  
Maple = Maplewood club: Don Furey 425-348-4827  
Msvl = Marysville club: Ed Lehman 425-334-6282  
Mt. Baker club: Kris Menger 360-927-0994  
[kmenter@comcast.net](mailto:kmenter@comcast.net)  
East King = East King Co, Norma Kicket, 206-612-3113  
N.W.R. = NW Rockies & MT Baker clubs: Kathy Earnst 360-856-0588 or Ed Lehman 425-334-6282  
Pvym = Puyallup Rock Club Mark Bauman 253-756-8636  
Bellv = Bellevue, Bruce Himko, 425-957-1284  
Skagit = Skagit Rock Club: Vi Jones 360-424-8340  
Pebb = Whidbey Pebble Pushers: Dick Edwards 360-579-2807  
Pow Wow club = Cliff Matteson (253) 475-8433  
[cliff.conniematteson@gmail.com](mailto:cliff.conniematteson@gmail.com)  
Longview = Longview club Emmett Johnson 360-636-3491  
Ashwood Oregon Darrell Friend 541-489-3252, web page [www.ashwoodrockstock.com](http://www.ashwoodrockstock.com)  
Eking = East King Norma Kicket, [kev1123@hotmail.com](mailto:kev1123@hotmail.com)  
WAC - Washington Agate Club  
Yak = Yakima Rock Club Jerry Wichstrom 509-653-2787  
[jewtmew@aol.com](mailto:jewtmew@aol.com)  
Whidb = Whidbey Rock Clubs Dick Edwards 360-579-2807  
BELL = Bellingham Rock Club Brian Hughes 360-671-7330  
EVR = Everett Rock Club Brad Johnson 206-403-3073  
NID = North Idaho Diane Rose 208-667-8591  
Elb = Ellensburg Rock Dave Master (509) 925-3827  
WAMS = Wa Agate & Mineral Club.  
Boe = Boeing Rock club Erik Chilson 360-825-3138  
Swms = SWest WA Mineral Society Dave Roth 360-295-3567  
W Sea = West Seattle Rock Club Brian Waters 206-290-2312  
Always call the club rep to confirm all trip data. 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. Pow Wow requires membership \$3 each a year. WSMC 6100 Road trip rider fee is \$8 to help offset the \$65 vehicle access permit we must purchase. Some trips have no charge.

## Baby Diamond

The youngest known diamond--a spring chicken of just 628 million years--has been unearthed in Zaire, according to a report in SCIENCE NEWS. Typically, diamonds range in age from 2.4 billion to 3.2 billion years old. The gem's age was determined by a study of its mineral inclusions. This find suggests that diamonds have formed throughout geologic time, and not just during early periods of earth's history. Diamonds are likely still forming in the earth's mantle. Diamonds develop at depths of 200 kilometers under stable continental regions, where temperature and pressure conditions combine to transform carbon into its densest form. After resting there for eons, the gems are brought to the surface by volcanic blasts called kimberlite eruptions. LAPIDARY JOURNAL January 1995

## WHY DO ROCKS FLUORESCENCE?

The word takes its name from fluorite and was first discovered by Vincenzo Cascariolo, cobbler and part-time alchemist. In 1602, he tried to smelt a heavy white metal he thought was gold. He was very disappointed, and at one point he put it into bright sunlight. It seemed to drink in the warm light and afterwards it would glow in the dark (it was calcined barite.)

It was two centuries before the significance was noted by Sir George Stokes. With the mineral fluorite, he recognized the principle of fluorescence. He set it apart from other known forms of fluorescence, such as "thermoluminescence," the beautiful flow radiated by many minerals when heated gently, from "chemiluminescence," the cold light produced by some chemical reactions, from "bioluminescence," as seen in decaying wood, and from "triboluminescence," the sparks of light seen in the dark when struck or scratched with a sharp object.

At that time the only known source of ultraviolet light was sunlight. Then in 1867, a Frenchman by the name of Becquerel, using a new "phosphorescope" detected a delicate red fluorescence in calcite and timed its phosphorescence at one-half second. *Rockhound Special June 2002*

## UPCOMING SHOWS: 2013

## FIELD TRIPS: Mineral Council.

## INTERNET ROCK SITES

1. [www.orerockon.com](http://www.orerockon.com) - Pacific NW field trips, equip buy/sell, misc.
2. [www.wrightsrockshop.com](http://www.wrightsrockshop.com) Has everything.
3. [www.agateswithinclusions.com](http://www.agateswithinclusions.com). The name sums it up.
4. [www.geocities.com/Yosemite/Forest/2031/](http://www.geocities.com/Yosemite/Forest/2031/) . Terry's Oregon Rock Page has info on Oregon collecting.
5. Information on collecting in Eastern Oregon during the Madras Pow Wow: Write Eula Dillard, 145 E. 179th, Spanaway WA 98387 or call 253-847-2755.
6. [www.wyodonor.org](http://www.wyodonor.org) and [www.thermopywy.net/bhbf](http://www.thermopywy.net/bhbf) for dinosaur excavation trips.
7. <http://mineral.galleries.com/minerals/byname.htm>  
Part of Amethyst Galleries, Inc.'s web site, this is a listing of all the minerals in that company's (extremely extensive) database. More than a mere list, however, each entry is linked to its own page, giving info. such as the mineral's chemical composition, history, physical characteristics, and so on.
8. <http://www.goodearth.com/virtcave.html> The virtual cave site offers a directory of all caves in the US that are open to the public.
9. <http://www.luckystrickemine.com> Info from Prineville, OR rock dig site.
10. <http://www.the.gemshop.com>. The Gem Shop in Cedarburg, Wisconsin hold claims to central Oregon rock sites.
11. [www.rockhounds.com](http://www.rockhounds.com) This is a great site! Every aspect of rockhounding is addressed or it gives you a link.
12. [www.stonetrails.com/ORlocs/ORlocs.htm](http://www.stonetrails.com/ORlocs/ORlocs.htm) Oregon rock sites Replace OR with WA...you'll get Washington sites.
13. <http://www.kinglseynorth.com>. **Buy grit in bulk.**
14. [www.fs.fed.us/](http://www.fs.fed.us/) - Fees and required permits for access to Federal lands.
15. General interest sites: [www.rockhounds.com](http://www.rockhounds.com), [www.fireagate.com](http://www.fireagate.com), [www.awesomegems.com](http://www.awesomegems.com)
16. Be sure to go to our website (See top of Page 1). There are numerous links to other sites.
17. WEBSITES FOR DINO LOVERS  
<http://dsc.discovery.com> Look for games and videos  
<http://www.paleoportal.org>  
<http://www.msnbc.msn.com> Look for technology and science.  
<http://www.geo.ucalgary.ca>  
<http://www.scienceschoolhouse.com>
18. <http://www.jescoproducts.com> **Buy grit in bulk**

### OFFICIAL BLM REGULATIONS REGARDING COLLECTING:

You can collect a reasonable amount of rocks and minerals from BLM lands, but a permit or fee may be needed if you exceed certain amounts as described below. Note that the collecting limits for petrified wood are slightly different.

#### A REASONABLE DAILY COLLECTING AMOUNT

*No BLM permit or fee required.*

- fits in a car trunk or is a partial pickup truck load and,
- weighs less than 250 pounds

- and the material is not for commercial use.

(For petrified wood see below)

#### MORE THAN A REASONABLE DAILY AMOUNT

*Requires a permit and fee from BLM.*

- is a full pickup truck load or,
- involves more than one trip (or partial load) and,
- weighs more than 250 pounds
- or the material is for commercial use,
- or explosives or power equipment is used.

#### PETRIFIED WOOD:

Collecting petrified wood is free up to 25 pounds per day, plus one piece, but no more than 250 pounds per year. Pooling of quotas among two or more people to obtain pieces over 250 pounds is prohibited. A permit is needed for amounts over these limits.

### AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES

#### 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 and rules governing collection on private 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 materials in collection areas.

I will cause no willful damage to property of any kind, such as fences, signs, building, etc.

I will leave all gates as found.

I will build fires only in designated or safe places. I make sure they are completely extinguished before leaving the area.

I will discard no burning materials--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 damage to collecting material and will take home only what I can reasonably use.

I will support the Rockhound Project H.E.L.P. (Help Eliminate Litter Please) and will leave all collecting areas devoid of litter, regardless or how found.

I will cooperate with Field Trip Leaders and those in designated authority in all collection areas.

**WASHINGTON AGATE & MINERAL SOCIETY**

**WAMS meets the first Tuesday of each month, 7:00 p.m., at the First Baptist Church of Lacey, 4702 22nd (corner of College St. and 22nd)**

**Officers:**

PRES Charlie Price  
VICE-PRES. Bob Hansson  
ACT SEC: M. J. Huetter 459-8121  
TREASURER: M. J. Huetter 459-8121  
NW FED REP: Jim Thomas  
MINRL CNCL : Jim Thomas

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The Washington Agate & Mineral Society Newsletter is printed and distributed monthly. Material may be reprinted if properly credited. Deadline is the 20th of each month.

**RETURN ADDRESS:**

**WASHINGTON AGATE & MINERAL SOCIETY  
P O BOX 2553  
OLYMPIA WA 98507**

**MINUTES NOVEMBER 5, 2013**

Box score: Adults 17; Juniors 7

Show and Tell:

Keith: Jade collection.

Jaeden: Jade & serpentine.

Zoe: From Wyoming, fluorite, granite.

Bob: Petrified twigs.

Kathleen: Quartz crystals, amethyst, smoking quartz , citrine.

Evan: New Jersey, Cape May crystals, polished quartz

Nora: Aquamarine, rough emerald, beryl, birth stone.

Lisa: Citrine, amethyst.

Becky/Chuck: Central Oregon, **BIG**  
**AGATE/JASPER**

(required world war font).

Erin/Brent: Clear quartz, cut thunder-eggs

Jeremy: Zeolites from Robinson Pit, double twin quartz from Hansen Creek.

Johnny: Hemitite, zeolites with colors.

Winners: Adult-Chuck/Becky (apropos), Junior-Nora.

Old Business: Bob reported that the garage sale was attended by the wrong clientele for what we were selling. Mineral Council is updating maps and adding GPS coordinates. For trips, check out the Wagon master website.

Zoe presented a lecture on saws.

Submitted by Secretary M J Huetter.

**MAIL TO:**