

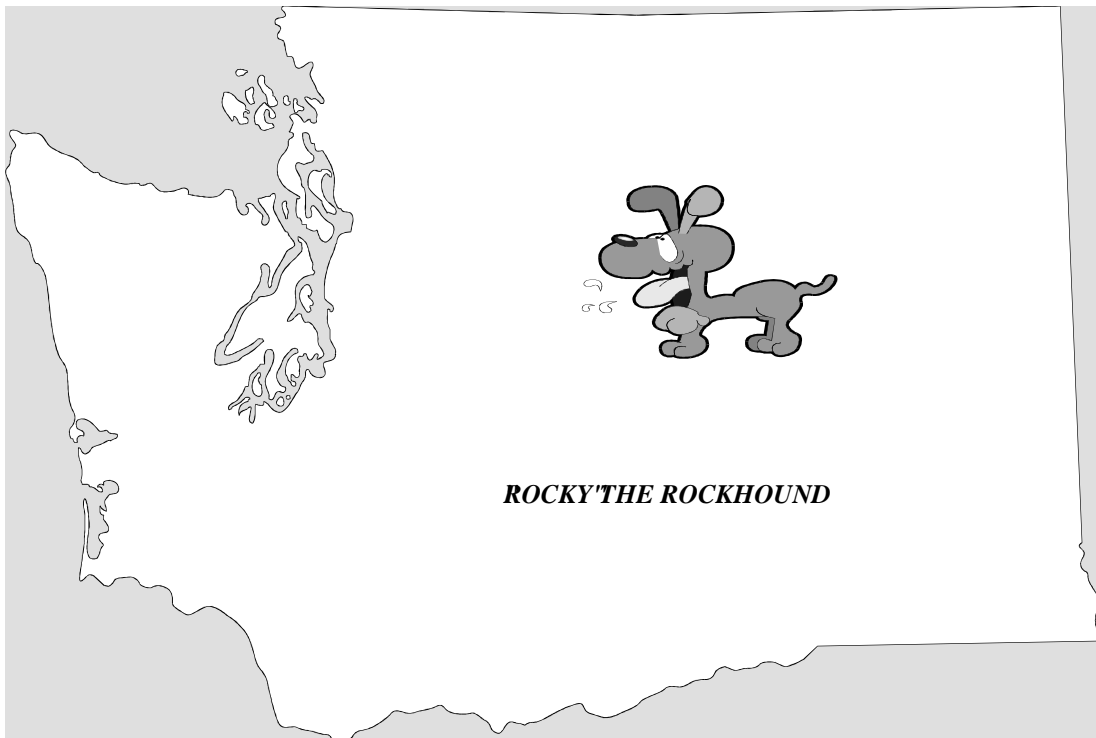


The Council Reporter



Volume 33, Issue 8

November 2013



**Official Publication of the
Washington State Mineral Council**

**WASHINGTON STATE MINERAL COUNCIL
2013 OFFICERS**

OFFICERS

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| Wagonmaster | open | | |

The West Side Board meets the third Tuesday of each month between Quarterly meetings, unless a meeting is specially called. Usually no meeting in July and December dependent on Board action.

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November 2, 2013, Combined Board Meeting Minutes

Meeting was called to order at 9:30AM by President Perry Gulsvig at the Palace Café in Ellensburg.

Kathy Earnst gave the treasurer's report. Last general meeting's charge of an 18% tip on the individual bills at the Palace Café in addition to the tip we normally use was an error on their part and has been corrected.

Field trips: There is still one field trip left this year to Blanchard Hill on November 16. Rollins Creek west of Gold Mt has a new gate.

Bo Pattie reported he and Stu Earnst attended the meeting with the new people from the DNR. They are just temporary so not much was accomplished. They do agree with us that we need to work with them more. A copy of Bob's report is included later in the newsletter. The new Teanaway Community Forest will still have logging maintained according to the DNR and the Game Department. There is the possibility of a fee to use the land. There is a map available that shows the boundaries of the new forest. The report on the Snoqualmie Recreation Area has been delayed.

Nominations for officers:

President—Brad Johnson
 Vice President—Mike Shaw
 2nd Vice President—Lisa Bishop
 Trustees—David Prado, Glenn Morita, Steve Townsend
 Treasurer—Kathy Earnst
 Secretary—Diane Myers
 Past President—Perry Gulsvig
 Ed Lehman—Wagonmaster

Ed Leman stressed that we need to get GPS co-ordinates for the updated map booklet. Send them to Ed or Bob Pattie.

Bob requested that all clubs update their e-mail and mailing addresses when they send in their dues otherwise they won't get the newsletter. The clubs should also let the Mineral Council know if they want a hard copy of the newsletter.

Meeting adjourned,
 Respectfully submitted,
 Diane Myers, Secretary

Report from the October 18, 2013 meeting with the Washington Department of Natural Resources

In the continue effort to work with the Department of Natural Resource (DNR) on casual rock collecting on some of the DNR lands, Stu Earnst and Bob Pattie attended a meeting with Pene Speaks – Assistant Division Manager for the Natural Heritage Conservation Section. Pene is stepping in to replace Mark Mauren who has retired and she will continue to keep the rec-

January 21, 2014 Westside Board Meeting AGENDA

Opening of Meeting
 ◇ Brad Johnson
 Treasurer's Report
 ◇ Kathy Earnst
 Committee Reports
 ◇ Wagonmaster -Ed Lehman
 Old Business
 New Business
 Open Comments

Tentative Meeting Calendar for 2014

West side board meetings:
 1/21, 2/18, 4/15, 6/17, 10/21

At 7:30PM at the
 Maplewood Clubhouse
 8802 196th St SW, Edmonds

General meetings :
 4/5, 5/3, 9/20, 11/1

All general meetings will be held at:

Palace Café
 4th & Main
 Ellensburg
 Meeting @ 9:30 AM

recreation program moving forward while a replacement is found for Mark. We also met with Cyndi Comfort - Environmental Planner, Recreation Program – Washington State Department of Natural Resources.

They were aware of the efforts that have gone on in the past and Mark's support for our effort to work some kind of understanding and acceptance of noncommercial casual rock collecting in some areas of DNR lands. This meeting was a big step in the right direction. I believe that as we went through our presentation and discussed many different aspects of collecting, they got a better understanding of our hobby of rock collecting. The presentation "Assessment of Rock Collecting in the State of Washington" addresses an estimate of the amount of material that is collected in a year. This is one of the main concerns in the past with the collecting of large mass of rock and after a lengthy discussion I believe that they have a better understanding between the hobby collectors and commercial dealers.

As we finished the meeting we agreed that we have some com-
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mon interest and by working together we can resolved some of the issue of casual collecting on DNR lands. We also recognized that it will take more meetings to work on some the details in making an acceptable working agreement for collecting specimens. This was great meeting to get started and I hope that with Mark's replacement we can continue with this effort.

Bob Pattie
November 2, 2013

The "Assessment of Rock Collecting in the State of Washington" presentation will be sent to Glenn for the WSMC Web page.

Grape Jelly and Other Purple Stuff

by Lawrence H. Skelton, Wichita Gem & Mineral Society

As I began this article in February, my thoughts then were on amethyst, the February birthstone, and other purple, violet, mauve, plum, lavender and lilac gems. To my surprise, the list of purple and purple-hued minerals turned out to be too voluminous for Quarry Quips (in fact, sufficient for a small book) so I decided to write about two relatively new entries to the gem field: sugilite and charoite which not only are decidedly purple but also are rare minerals found only in very few locations.

Sugilite (pronounced with a hard "g" as in the word "gum") was first discovered in 1944 by the late Japanese petrologist Kenichi Sugi in an orange orchard on Iwagi Island, Ehime Prefecture in the Inland Sea of Japan. It was in the form of microscopic tan-colored crystals in blocks of aegirine-syenite (an igneous rock consisting mainly of feldspar and no quartz. In this case, it also contains acmite (also known as aegirine, a black, sodium-iron pyroxene). Sugilite remained unrecognized as a new mineral until 1976 when it was described and published by N. Murakami and others in the Mineralogical Journal [of Japan]. The same nondescript, tan mineral has since been found at seven other locations but only at the Wessels Mine, a manganese source, near Kuraman, South Africa, does the purple gem variety occur. Small pink crystals, too small for cutting, are found in the Indian state of Madhya Pradesh.

Sugilite is an alkaline iron-mangano-aluminum silicate which frequently contains zirconium, $\text{KNa}_2\text{Li}_3(\text{Fe}, \text{Mn}, \text{Al}, \text{Zr})_2\text{Si}_{12}\text{O}_{30}$. It crystallizes as a mass of microscopic interlocking crystals in the hexagonal crystal system, has hardness (Mohs) Of 5.5 to 6.5, vitreous luster and specific gravity of 2.74. A sugilite impregnated chalcedony is sometimes substituted for the unadulterated gem but is distinguishable by its lower specific gravity around 2.65. For those with access to a refractometer, sugilite also may be distinguished by its refractive index, 1.607 which is higher than chalcedony's 1.544. It occurs in colors of brown, tan, light yellow, pink and purple. The deep purple gem color

is attributable to the manganese and probably to its lithium content. Sugilite has been marketed as lavulite, royal azel or several other names prefixed by royal. The correct mineral name, sugilite, remains the preferred term.

At the Wessels Mine, sugilite is contained as massive layers and seams, associated with acmite and norrishite (manganolithium oxy-mica) within layered (sedimentary) manganese deposits of Precambrian age between 2.0 and 2.6 billion years old. Individual sugilite layers may be several centimeters thick. They and accompanying minerals were hydrothermally injected through bedding planes and fractures of the manganese ore, chemically reacting with it. This later but still Precambrian event is thought to be related to tectonic plate collision at the edge of the Kalihari Craton about 1.0 to 1.5 billion years ago.

The Wessels Mine sugilite is found at depth of 3,200 feet (975 meters) and is recovered during the manganese mining process. In 1979, a commercial quantity of sugilite estimated to range from 10 to 20 tons was discovered. About half that amount reportedly is not of gem quality but probably could be used for carvings, bookends, etc. Of the remainder, most is reportedly opaque with a tenth of one percent said to be translucent "gel-sugilite" the highly desirable "grape jelly."

The layered manganese deposits of South Africa are among the world's largest manganese sources and recovery of sugilite which is available only in limited volumes is secondary to mining operations. Considering the highly mechanized methods of modern mining, some of the limited volume of purple sugilite will undoubtedly go through the ore crushers and like other fine mineral specimens be lost for the collector. A rare mineral to begin with, hopefully additional purple sugilite will be found in other manganese deposits.

Charoite is another rare purple mineral suitable for gem purposes. It occurs only at one known location in the world, Sirenevka Kamen, a locality near the confluence of the Chara and Tokko Rivers in the Sakha Republic, Yakutia, Eastern Siberian Region, Russia, an area about 325 miles (523 km) north of the northern tip of Lake Baikal. Taking its name from the nearby Chara River, charoite was discovered in 1947 by Russian geologists Yuri G. Rogov and his wife Vera P. Rogova.

Charoite is an alkaline metal fluoro-hydroxyl silicate: $(\text{K}, \text{Na})_{6-7}(\text{Ca}, \text{Na})_{18}[(\text{Si}_6\text{O}_{17})(\text{Si}_{12}\text{O}_{30})(\text{Si}_{18}\text{O}_{45})](\text{OH}, \text{F})\text{O}$ [Formula from Mindat.Org]. Its hardness ranges from 5.0 to 6.0 (Mohs) and specific gravity ranges from 2.54 to 2.78 depending on content of other minerals. Pure charoite has good three-directional cleavage and occurs as interlocked fibers and in massive forms. Fibrous interlocking crystals give a "swirling" appearance somewhat similar to the artificially made lapidary material "Victoria Stone." Areas that are semi-transparent fit the "grape jelly" description. It crystallizes in the monoclinic crystal system. Charoite frequently is admixed

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with aegirine (acmite), tinaksite (pale yellow to tan or pink colored), canasite (brownish-yellow to light green) and microcline. These and other rare minerals form a rock (Remember? A rock is a mixture of minerals.) appropriately named charoite.

Charoite is found in the Murunskii Massif (an igneous or metamorphic, intrusive, structurally resistant rock mass ranging from 10 to 20 miles in diameter) within the Chara Block in the Precambrian age Alden Shield of Siberia. Whether charoite is of magmatic (igneous intrusive) or metasomatic (hot-fluid alteration of existing rock) genesis has been a topic of heated discussion but at present, the metasomatic “school” seems to have the correct answer. The charoite forms at the contact of intrusive syenite (igneous rock composed mainly of alkaline feldspar with some hornblende or biotite) and trachyte (extrusive equivalent of syenite) with a carbonate rock which has been interpreted as limestone (sedimentary) or carbonatite (intrusive carbonate rock associated with alkaline igneous intrusive rocks). Intrusion of carbonatite would explain the presence of fluorine, water, and thorium in accompanying fluids which would chemically react with the syenite or trachyte, forming new minerals including charoite. Russian geologists, V.A. Solyanik, V.A. Pakhomova and M.A. Ushkova caution that steacyite, a mineral often accompanying charoite, contains thorium [and uranium] which may be in sufficient quantity to make the host rock (charoite) radioactive and that “this should be taken into consideration in the production of charoite jewelry.”

By some reports, the charoite deposit is nearly depleted but others estimate remaining resources at “some tens of thousands of tons.” However, far from all that remaining is of lapidary quality. Lesser grades have been used in Russia as decorative building stone and possibly some charoite is rich enough in thorium to be used as an ore material. As always, Russian sources are tight-lipped on such topics. As of 2008, government authorities were planning an open-pit mining operation for charoite. Like other “freak” minerals (sugilite, benitoite and red beryl for example), the Sirenevy Kamen charoite may indeed be the only such deposit in the world and when it is depleted, the lovely purple gem will no longer be available.

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from Quarry Quips, 5/12, via CMS Tumbler, 10/13

Teenager finds 3.85 carat Yellow Diamond at US Park October 22, 2013

There are jewelry fans all over the world who would love to have the opportunity to own a colored diamond, but not everyone gets the chance. Even fewer get to say they have uncovered one of these precious stones, which makes the discovery of a colored gem a special experience for anyone. A special find Rough Yellow Diamond Found at Arkansas Crater of Diamonds One teenage girl was lucky enough to make the find of a lifetime during a recent trip to Crater of Diamonds State Park in the U.S. state of Arkansas.

Tana Clymer, a 14-year-old from Oklahoma City, Okla., was visiting the park with her family when she came across a teardrop-shaped yellow diamond. It wound up being a 3.85-carat stone that marks one of the biggest finds at the state park. According to The Associated Press, Tana had been digging for about two hours before finding the colored diamond near the surface of the search field. Her gem, which she has already nicknamed “God’s Jewel,” is the 396th diamond to be found at Crater of Diamonds park this year. However, it’s only one of a few colored stones to ever be found, as well as one of the largest. “What an experience for Tana to remember the rest of her

(Continued on page 6)

WSMC FIELDTRIPS 2014 DRAFT (Will be updated—see mineralcouncil.org)

The Washington State Mineral Council plans guided fieldtrips to collecting sites. Open to member clubs, and the general public. Most trips are free. Included will be Pow Wow trips (must join to go on trips). Host clubs and contact persons will be set up as I gather info. For now, go to mineralcouncil.org for updates, or contact Ed Lehman @ wsmced@hotmail.com , or home (425) 334-6282 cel (425) 760=2786.

| Date | Host | Site | Meeting place and time | Material | Tools |
|----------|-------|------------------------|-------------------------------------|--|---------------------------|
| 01/18/14 | Kit | Beaver Valley | 10:30 @ info Center BeaverValley Rd | Chert & Zeolites | Hard rock tools |
| 02/15/14 | Msvl | Cedar Ponds | 9:00 @ Monroe Jack n Box | Jasper | Dig & Lt hard rock tools |
| 03/15/14 | Msvl | Cherry Creek | 9:00 @ Duval Safeway | Jasper | Dig, Lt hard rock, wading |
| 04/19/14 | MtBkr | Racehorse Creek | 9:00 @ IGA @ Nugents Corner | Fossils | Dig & Lt hard rock tools |
| 05/17/14 | Elb | Saddle Mt | 9:00 @ Matawa Leprechaun Market | Petrified wood | Dig, Lt hard rock |
| 06/14/14 | Spk | Emerald Creek | TBD | Star garnet | Tweezers |
| 07/13/14 | Spk | Lolo Pass | TBD | Smokey quartz | Dig, Lt hard rock |
| 08/02/14 | Shltn | Salmon Creek | I-5 Park & ride in Toledo | Agate, petrified wood, pseudo coprolites | Wading |
| 08/16/14 | NWOS | Greenwater | 9:00 @ Enumclaw Ranger Station | Agate, Jasper | Dig, Lt hard rock |
| 09/13/14 | NWOS | Little Naches | 9:00 @ Enumclaw Ranger Station | Thunder-Eggs | Dig, Lt hard rock |
| 10/04/14 | Msvl | D.P. Mine & H.T. Creek | 9:00 @ Money Creek Camp | Ore, picture Jasper | Lt hard rock, light |
| 11/08/14 | MtBkr | Blanchard Mt | 9:00 @ I-5 240 exit gas Station | Stilpnomelane & Chert | Hard rock tool |

Host Club Contact Info

Kit = Kitsap M & G Soc— T B D

Msvl = Marysville R & G Club - Ed Lehman wsmced@hotmail.com (425) 334-6282 or (425) 760-2786

MtBkr = Mount Baker R & G Club—Kris Menger @ (360) 927-0994 kmenger@comcast.net

Elb = Ellensburg R Club—Steve Townsend—(509) 933-2236 srtrocks@aol.com

Spk = Spokane Rock Rollers—Mike Shaw—(509) 244-8542 mikeshawmoose@yahoo.com

NWOS = Northwest Opal Soc—Tony Johnson—(253) 863-9238

This is just a work in process. Participants please respond for corrections and updates.

Thanks, Ed

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life,” said assistant park superintendent Bill Henderson, as quoted by ABC News. “Tana told me that she was so excited, she couldn’t sleep last night. She’s either going to keep the diamond for a ring or, if it’s worth a lot, she’ll want that for college.

”Not the first amateur discovery, this isn’t the first time a visitor has made a big discovery at Crater of Diamonds State Park. In fact, this is the second time in the past several months that a young person has uncovered a valuable gem. Back in August, a 12-year-old boy, Michael Dettlaff, came across a 5.16-carat brown diamond. Henderson also noted that the yellow diamond found by Tana Clymer was extremely similar to a canary diamond found at the park in 2006. That gem, nicknamed the

“Okie Dokie Diamond,” was discovered by an Oklahoma State Trooper during a casual trip to the area and weighed in at 4.21 carats. Crater of Diamonds State Park claims to be the only diamond-producing site in the world that is open to the public. With big discoveries like these colored diamonds happening more frequently, there may be a rush to get to this land and hunt for some of the amazing stones.

Via Crystal and Gems News 11/13

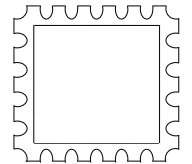
Local Area Shows for 2013/2014

| | | | |
|--|--|---|---|
| November 2013 23rd 10am—5pm 24th 10am - 5pm | Kitsap Mineral and Gem Society | 2013 Fall Festival of Gems | President's Hall Kitsap County Fairgrounds 1200 NW Fairgrounds Rd. Bremerton, WA 98311 |
| February 2014 8th 9am—5pm 9th 9am—4pm | Whidbey Island Gem Club | 49th Annual Sweetheart of Gems Show | Oak Harbor Senior Center 51 SE. Jerome Street Oak Harbor, WA |
| February 2014 14th 9:30am – 5:30pm 15th 9:30am – 5:30pm 16th 9:30am – 5:30 pm | Oregon Agate And Mineral Society | OAMS Gem and Mineral Show | OMSI 1945 SE Water Avenue Portland OR 97214 |
| February 2013 22th 10am - 6pm 23th 10am - 5pm | Idaho Gem & Mineral Club | Annual Gem And Mineral Show | Expo Idaho Fairgrounds 5610 Glenwood & Chinden Boise, Idaho |
| March 2014 1st 10am - 6pm 2nd 10am - 5pm | East KingCo Club | Annual Rock and Gem Show | Pickering Barn 1730 10th Ave NW Issaquah, WA |
| March 2014 7th 9am - 5pm 8th 9am - 5pm 9th 10am - 5pm | Tualatin Valley Gem Club | Annual Show | Washington County FairPlex 873 NE 34th Ave. Hillsboro, OR. |
| March 2014 23rd 9am - 6pm 24th 10am - 5pm | Port Angeles Club | 4th Annual Rock, Gem & Jewelry Show | Port Angeles Parks & Recreation Vern Burton Community Center 308 E. 4th St |
| March 2014 28th 10am – 6pm 29th 10am – 6pm 30th 10am – 4pm | Rock Rollers Club of Spokane | 55th Annual Gem, Jewelry and Mineral Show | Spokane County Fair & Expo Center N.604 Havana Spokane WA |
| March 2014 29th 10am - 6pm 30th 10am - 5pm | Mt. Baker Rock & Gem Club | 53rd Annual Rock and Gem Show | Bloedel-Donovan Park 2214 Electric Ave. Bellingham WA |
| March 2014 29th 10am - 6pm 30th 10am - 5pm | Sweet Home Rock & Mineral Society | 66th Annual Rock & Mineral Show | Sweet Home High School Activity Gym 1641 Long St. Sweet Home, OR |
| April 2014 12th 10am - 6pm 13th 10am - 4pm | Yakima Rock & Mineral Club | Annual Parade of Gems Adults \$3.50, Students \$2.00 Under12 free w/adult | Washington National Guard Armory 2501 Airport Lane Yakima, WA |
| April 2014 26th 10am - 5pm 27th 10am - 4pm | Lakeside Gem & Mineral Club | Annual Rock & Mineral Show | Benton Franklin County Fairgrounds 1500 S. Oak Kennewick, WA |
| April 2014 26th 10am - 5pm 27th 10am - 5pm | West Seattle Rock Club | 47th Annual Rock Show | Alki Masonic Temple 4736 40th Ave. SW. (W Seattle), WA |
| May 2014 3rd 9am—5pm 4th 10am—5pm | Everett Rock and Gem Club | 61st Annual show | Everett Community College Student Fitness Center, 2206 Tower St Everett, WA |
| June 2014 6th 12pm—5pm 7th 10am—5pm 8th 11am—4pm | Puyallup Valley Club | Annual show | Swiss Park 9205 198th Ave. E. Puyallup, WA |

Westside Board Meeting
January 21, 2014
7:30 PM

Maplewood Clubhouse
8802 196th St SW
Edmonds

COUNCIL REPORTER, Monthly publication of The
Washington State Mineral Council



WASHINGTON STATE MINERAL COUNCIL
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