

# DUSTY ROCKS

JULY  
2009



**ROCK AND ARROWHEAD CLUB**

P.O. BOX 1803

KLAMATH FALLS, OR 97601

[www.klamathrockclub.org](http://www.klamathrockclub.org)

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NFMS Junior Delegate: Alyssa Carnes

Past President: Mark Winters

Member @ Large: Marvin Stump

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PO Box 1803, Klamath Falls OR 97601

[www.klamathrockclub.org](http://www.klamathrockclub.org)

[charlie@klamathrockclub.org](mailto:charlie@klamathrockclub.org)

Meetings are held at the Klamath County Museum Meeting Room – Main & Spring Streets, using the WEST ENTRANCE. Meetings are held on 2<sup>nd</sup> Monday of each month at 7:00 pm with the exception of December when we have our Christmas Luncheon and Party.

Visitors are cordially invited:

Dues are \$10.00 per year per adult (\$18 for couples), \$7.50 ages 16-18 and free for juniors ages 15 and under whose parents pay dues. They are paid for the year beginning September 1<sup>st</sup> and ending August 30<sup>th</sup>. You are delinquent as of October 1<sup>st</sup> and are given a 60 day grace period. After December 31<sup>st</sup> your name will be removed from the mailing list.

General Objectives of the Club:

To promote popular interest, knowledge and understanding in the various earth sciences, as in Geology, Mineralogy, Paleontology and Lapidary and other related subjects. To sponsor and provide means of coordinating the work and efforts of all persons interested therein.

Helping Others:

The club participates in the NFMS stamp program, saving large commemoratives, air-mail, pre-canceled, foreign and "ordinary" stamps of all values. Proceeds from stamp sales will be used to benefit any charity deemed worthy by the NFMS Endowment Fund. We also collect pop lid tabs which will be sold with the proceeds going to support and purchase dialysis equipment.

JULY.2009 ~ ROCK AND ARROWHEAD CLUB ~ KLAMATH FALLS OREGON

# ~ DUSTY ROCKS ~

## Committee Chairs

- Sunshine.....Chris Chance
- Program.....Jeff Eastburn
- Greeter/Door Prize.....Alyssa Carnes
- Refreshment.....Amanda Newnham
- Historian.....Kathi Milem
- Librarian.....Alyssa Carnes
- Claims Rep.....Garwin Carlson
- Field Trips.....Jeff Eastburn
- Show Chair.....Amanda Newnham
- Asst Show Chair .....Marvin Stump
- Safety Officer.....Jeff Eastburn
- Club Webmaster.....Charlie Wyckoff

THE NORTHWEST NEWSLETTER is published 10 times a year (not published in December or August). Copies are sent to each member's household. The cost is included in your annual dues.

Two free copies of the AFMS NEWSLETTER are mailed to each member club. Subscriptions are available at \$3.50 for 9 issues (not published in July or August and the December/January issues are combined). Send payment to:

American Federation of Mineralogical Societies  
PO Box 26523 Oklahoma City, Ok. 73126.

We are affiliated with

- [Northwest Federation of Mineralogical Societies](#)
- [American Federation of Mineralogical Societies](#)
- [Oregon Council of Rock & Mineral Clubs](#)

Newsletter Editor

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# Dusty Rocks Newsletter ~ Dust It Off For July

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## Upcoming Rock Shows:

July 31 thru August 2

Far West Lapidary & Gem Society Annual Rock Show  
 Fri and Sat 9-5, and Sun, 10-4.  
 North Bend Community Center  
 2222 Broadway, North Bend, Or.  
 Rocky Pribble—541-572-8301  
 Greg Solarz — 541-756-3957

July 30 thru August 2

NFMS / AFMS 51st year!  
 Combined show hosted by  
 Billings Gem & Mineral Club  
 Thurs, Fri, Sat, Sun, 10-5  
 Holiday Inn Grand Montana  
 5500 Midland Road Billings, Mt.  
 Doug True ~ 406-670-0506

## July Birthdays:

Pat Brennan—Klamath Falls  
 Bill Pollard –Harbor ,OR  
 Tim Riel –Springfield , OR  
 Kevin Thiel—Klamath Falls  
 Ron Bowers—Idaho Falls  
 Ralph Branson - Estacada OR

## From The President:

Hello Fellow rock hounds

Just to keep everyone updated Amanda had a baby boy June 30th. He weighed 4lbs 11 oz. The baby will be home as soon as he learns how to eat.

We have another field trip coming up and hopefully everyone can come. Don't forget the Davis Creek BBQ on Friday night. We will be going to the pink lady, rainbow and mahogany areas. Plus there will be a pot luck dinner on Saturday and an auction afterwards.

Oh yes don't forget we will have a meeting in August. Also we need to figure out one weekend for the gold panning in August.

Thank You, Doris -

## From The Editor:

Hello everyone! It sure has been a crazy two weeks. I suppose you all are wondering what happened. As Doris stated, I had a baby in Medford, OR on Tuesday June 30. It sure has been a crazy ride as I did not know that I was even expecting him. So, you can imagine I will not be joining you again at Lassen Creek, though I wish I could be there. Little Tyler is much too small to go out, but maybe I will see some of you at the meetings.

I look forward to seeing everyone again real soon. Happy rock hunting next weekend, and please, everyone be safe.

Your Editor,

Amanda -



## From The Printer and Webmaster:

For all those getting this Newsletter in Printed form, please consider the pdf option, emailed to you....the advantages are you get to see everything, pics and all, in amazing color. Also, in the articles, there are links, that you can click on, and go to some really neat and interesting websites that relate to the terms and subject matter....very interesting and very fun....so, e-mail me and let me know that you'd like the e-Newsletter, and help the Club save a bit of money too.....Thanks, Charlie-

## June 8th, Meeting Minutes

Rock & Arrowhead Club Meeting June 8, 2009.

Doris Newnham called meeting to order tonight:

Stood for the Pledge of Allegiance .

Guests Nathan , Kristen Sales, Kermit Warner, Alexandria Overton, Charlie , Sheila and Autumn James.

Welcome to the group of Visitors and New Members and hope to see ya often.

Door prize: Don Perryman Congratulation's!

Birthday Contributions June Birthdays.

May Minutes: Stands as printed.

Treasurers Report: stands as read.

Club Correspondence: a lot of mail.

Sunshine Report: Chris Chance

Liberians Report: Alyssa Carnes books are out tonight and the club can check them out.

Historians Report Kathi Milem she is asking for pictures of Hampton butte trip.

NFMS Report: Kathi Milem has papers for us to sign on a delegate for our club.

Other Reports: Marvin Stump is discussed the porta-potty for the upcoming Sunstone Trip, June 26, 27, 28, 2009....

Old Business: Jeff Eastburn talked about the By-Laws for the Club, he's working on revisions.

New Business: Garwin Carlson spoke about the need for tumbled rocks for next years Show. Someone has offered to tumble these for us, and a motion was passed to make funds available for this purpose.

The Lakeview Show has been canceled for this year. The Bonanza Show is the third week in August in the Big Springs Park on the main strip of Bonanza, Oregon. Charlie Wyckoff talked about the application for the grant to be submitted for our Club Promotion Funds. August meeting on the second Monday the Club motioned it and Jeff Eastburn seconded it. Lassen Creek trip is the 16, 17, 18 of July.

July 23, 2009, we will have a Meeting to discuss this next years grant, at IYS, 7pm.

Field Trips: Jeff Eastburn hit a few spots to get some rock that has a lot of purple stuff in it and some quartz boulders mile marker 192 got some other real cool stuff. Don Perryman made a trip to the Sunstones area and he said that the roads are dry and passable to drive on. Doris talked about Hampton Butte and she said that it was a great time. We had a lot of families there and had a great bon fire, a potluck meal and the silent auction did very well. A new Member, Greg Hobbs showed up with some friends of his from Bend, Oregon, and boy!!!! Did they find some big rocks with some good stuff in it. Doris found some great limb casts and Alyssa Carnes found some limb casts as well. Friday night at Davis Creek store we have a BBQ that you pay for and then we as a club will have a potluck at the campsite on Saturday night. Please sign up with Jennie Eastburn if you wish to bring some food. Just call me with what you want to bring. My number is #331-7135 after 7pm Monday thru Friday or anytime on Saturday.

Tonight's refreshments are Doreen, Charlie, Heidi, and Chris...thank you very much guys for stepping up to do the treats.

Next months refreshments will be Heidi and Kathi and Alyssa thank you guys for the treats. August's refreshments will be the James Family, thank you to you.

Garwin Carlson makes a motion to set aside \$500.00 for the "Rock Show Black Light" shopping list, Jeff seconds, and the motion passes.

[www.klamathrockclub.org](http://www.klamathrockclub.org) is our Club website and Charlie takes good care of that for us. Maps and details for Field Trips are there for downloading, along with current and past Newsletters, Member and Club info, and just a bunch of other good stuff.....Charlie asks for folks to contact him and let him know who would like to receive the Newsletter e-mailed, instead of snail mail, helping the Club save money.

Meeting has adjourned for the evening .

# In Memory.....John Stone 1925—2009

John Stone was a long time member of the Rock & Arrowhead Club. John was 86 and passed away June 21 at his home in Langell Valley .

The newer members of the club won't remember John, but before his wife Ursula got sick and eventually passed away, John was a vital member of the club. John lived east of Bonanza, and despite the distance he attended as many meetings and functions as possible and always spoke his mind. After his wife passed away, John slowed down with everything but kept up with club activities through the club newsletter. His closest friends were club members.

Jennifer (Jen). John's granddaughter, shared the following: Jen's earliest memories were going "rocking" with grandpa. In those days, John would often go to Nevada , Utah , Idaho , Montana , Oregon , and California looking for and picking up rocks. Although he never got into faceting when his eyesight was better, he did beautiful cab work and tumbled stones, and then set them into jewelry including belt buckles, bracelets, rings, and pendants.

*"Jen's earliest memories were going "rocking" with Grandpa"*

John discovered the sphere machine at Richardson 's Ranch in the early 90's and bought one of the first ones they sold. From that point on it was spheres only.

He knew he would get to the point where he could no longer collect rocks, so he stockpiled raw materials to work for his golden years. That was why John worked with so much obsidian, it was easy to get in large quantities and store for later use. John also loved petrified wood, Graveyard plume, picture jasper, sunstones, and thunder eggs.

John and Ursula's happiest times were camping and digging for rocks. Jen knows that John started collecting rocks when her mother was a teen.

John kept a display case in his living room for the last 12 years with the lights on 24/7. He would make up new

items to display in it and schemed how his display would take the Peoples Choice award at the show, although it had been many years since he had displayed at the show.

John and Jen planned on displaying at the show last March but were unable to. They spent 3 days setting it up and Jen says she will always keep it like it is. The display contains 15 spheres, faceted and tumbled sunstones, and 3 areas of loose tumbled stone. John spent many hours enjoying it and telling stories of the various displayed rock. Jen says these will be her best memories of the last 7 months with her grandfather, including a trip to Richardson 's Ranch last November.

John and his wife also raised iris plants, many different varieties on, it seemed, at least 2 acres. These were generously given to people throughout the basin.

Raising "Tumbling Pigeons" was another hobby of John's. There was a special pigeon barn to raise them. When visiting John the pigeons would sometimes be in the air, and it was quite a site to watch them tumble toward the ground, and gain control before hitting the ground.

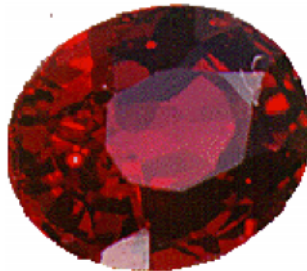
For those of us who knew John, he will be sorely missed. Marv Stump



**Rubies For July** ~ The birthstone for July is the ruby, the most treasured amongst gemstones. Large rubies are more rare than even large diamonds and emeralds.

Ruby, and it's cousin the sapphire are both a form of the mineral corundum. Corundum is normally a drab grey mineral, but on a few occasions corundum will be red, and when so it is called a ruby. All other colours of corundum, yellow, orange, green, blue, black and purple are called sapphires. Interestingly, when corundum occurs with hematite, magnetite or spinel, corundum is called emery. Emery is an abrasive used for sandpaper and fingernail files. The red colour that makes corundum ruby is caused by chromium oxide.

The word ruby is Latin for "ruber" which means red. Ruby then, was universally used to describe any red stone: anything from red spinel, to red tourmaline and red garnet. The broad usage of the word means that many famous stones called rubies are in fact, other gemstones. As an example, the famous Timur ruby belonging to Queen Victoria was in fact red spinel and not a real ruby!



Rubies were very treasured gems in the ancient Orient. They were thought to contain the essence of life itself, a drop of blood from Mother Earth herself. It was even believed that the stones were self luminous and they were often referred to as the "stone which glows." An ancient Chinese legend tells the story of an Emperor who once used a large ruby to light his chamber.

In fact, rubies can be fluorescent, glowing red or orange in ultraviolet light, and some give off orange flashes when sawed or hammered.

In ancient times, Hindus, Burmese and Ceylonese thought that sapphires were a form of "unripe" rubies and that if they took the stone and buried it in the ground, after a period of time it would grow to a deep red ruby.

During the Middle Ages it was a popular belief that rubies could bring good health as well as they could guard against evil thoughts, anger, and arguments. If a ruby turned darker in colour, it was believed that the owner should be on the lookout for accidents, some form of misfortunes or even death. A legend tells that Catherine of Aragon, first wife of King Henry VIII, predicted her death by seeing the darkening of her ruby. Medicinally, it was thought that rubies could cure bleeding wounds.

Rubies tend to be rare, and large rubies very, very rare. Because of that, there are only a few famous rubies in history. In his 13th century book, Marco Polo tells a story about a beautiful gem that he believed to be a ruby. It belonged to the King of Ceylon and was said to be nine inches long and as wide as a man's arm! Apparently the gem was so large and so impressive that Kublai Khan, the Emperor of China offered an entire city to the King of Ceylon if he would only give the ruby to him! But the King of Ceylon knew how valuable and rare his gem was and refused to part with it.

Rubies are only found in a few places around the world. Upper Burma is one of the most famous sources for large, deep red rubies called "pigeon's blood rubies." Such rubies are very rare. Dark, reddish-brown rubies can be found in Thailand. Both Thailand and Burma have a ruby as their national stone. Recently Tanzania has become a source for rubies.

It is interesting to note that there are several methods of producing synthetic rubies. The first method was invented by a French chemist in 1891. It was accomplished by melting a suitably pigmented powder in an oxy-hydrogen flame and allowing the hot rain to build up a stalagmite, which was then cut up into decorative stones or "gems." More recently, rubies have been grown by hydrothermal methods, crystallized from molten solutions and "pulled" from pots of fused alumina. Even these synthetic rubies have value for their beauty!

**Petrified Wood** (from the Greek root "petro" meaning "rock" or "stone", literally "wood turned into stone") is a type of [fossil](#): it consists of [fossil wood](#) where all the [organic materials](#) have been replaced with [minerals](#) (most often a [silicate](#), such as [quartz](#)), while retaining the original structure of the wood. The [petrification](#) process occurs underground, when wood becomes buried under [sediment](#) and is initially preserved due to a lack of [oxygen](#). Mineral-rich water flowing through the sediment deposits minerals in the plant's [cells](#) and as the plant's [lignin](#) and [cellulose](#) decay away, a [stone](#) mould forms in its place.

In general, wood takes less than 100 years to petrify. The organic matter needs to become petrified before it decomposes completely.<sup>[1]</sup>

Elements such as [manganese](#), [iron](#) and [copper](#) in the water/mud during the petrification process give petrified wood a variety of color ranges. Pure quartz [crystals](#) are colorless, but when contaminants are added to the process the crystals take on a yellow, red, or other tint.

Following is a list of contaminating elements and related color hues:

- [carbon](#) - black
- [cobalt](#) - green/blue
- [chromium](#) - green/blue
- [copper](#) - green/blue
- [iron oxides](#) - red, brown, and yellow
- [manganese](#) - pink/orange
- [manganese oxides](#) - black/yellow

Petrified wood can preserve the original structure of the wood in all its detail, down to the microscopic level. Structures such as [tree rings](#) and the various tissues are often observed features.

Petrified wood has a [Mohs hardness](#) of 7, the same as quartz.

Petrified wood is the provincial stone of [Alberta](#) and also the [state gem](#) of [Washington](#).

- [Argentina](#) - Considered to be one of the world's best petrified reserves, the Petrified Forest National Monument in [Chubut Province](#) in the Argentine [Patagonia](#) has many trees that measure more than 3 m (10 ft) in diameter and 30 m (100 ft) long. Compared to petrified trees in the [United States](#) that measure less than 1.8 m (6 ft) in diameter, the trees of the Central Steppes of Argentina are significantly larger.
- [Belgium](#) - Geosite Goudberg near [Hoegaarden](#).<sup>[2]</sup>
- [Brazil](#) - In the [geopark](#) of [Paleorrota](#), there is a vast area with petrified trees.<sup>[3]</sup>
- [Canada](#) - In the [badlands](#) of southern [Alberta](#); petrified wood is the provincial stone of Alberta. [Axel Heiberg](#)

[Island](#) in [Nunavut](#) has among the largest petrified forests in the world.

- [Czech Republic](#), [Nová Paka](#) - The most famous locality on [Permian-Carboniferous](#) rocks in the Czech Republic.
- [Germany](#) - The museum of natural history in [Chemnitz](#) has a collection of petrified trees found in the town in 1737.
- [Egypt](#) petrified forest in Cairo-Suez road, declared a national protectorate by the ministry of environment, also in the area of New Cairo at the Extension of Nasr city, El Qattamiyya, near El Maadi district, Al Farafra oasis<sup>[4]</sup>, Al Fayoum depression and actually the entire western desert<sup>[5]</sup>.
- [Greece](#) - [Petrified Forest of Lesbos](#), at the western tip of the island of [Lesbos](#), is possibly the largest of the petrified forests, covering an area of over 150 km<sup>2</sup> and declared a National Monument in 1985. Large, upright trunks complete with root systems can be found, as well as trunks up to 22 m in length.
- [Libya](#) - [Great Sand Sea](#) - Hundreds of square miles of petrified trunks, branches and other debris mixed with Stone Age artifacts.
  - [United States](#) - Some of the better known petrified wood sites include:
- [Petrified Wood Park](#) in [Lemmon, South Dakota](#).
- [Ginkgo/Wanapum State Park](#) in [Washington State](#).
- [Grotto of the Redemption](#), a private park in [Iowa](#).
- [Petrified Forest National Park](#) in [Arizona](#).
- [Petrified Forest \(California\)](#) in [California](#).
- [Mississippi Petrified Forest](#) in [Flora, Mississippi](#).
- [Florissant Fossil Beds National Monument](#) near [Florissant, Colorado](#).
- [Australia](#) - Has vast deposits of petrified and opalised wood.
- [India](#) - A geological site famous for its petrified woods [Thiruvakkarai Village](#) in [Chennai, Tamil Nadu](#). The site is protected by the [Geological Survey of India](#). Petrified woods covers a large area in this site.

[New Zealand](#) - [Curio Bay](#) on [the Catlins](#) coast contains many petrified wood examples.

Artificial petrified wood has been produced in a Washington laboratory. In the process small cubes of pine were soaked in an acid bath for two days, then in a silica solution for another two. The product was then [cooked](#) at 1400 °C in an [argon](#) atmosphere for two hours. The result was [silicon carbide](#) ceramic which preserved the intricate cell structure of the wood. Soaking in a [tungsten](#) solution produced a [tungsten carbide](#) petrified wood.

# July Word Search ~ Petrified Wood

|             |                               |                  |
|-------------|-------------------------------|------------------|
| BURIED      | F O S S I L E N O T S B J C Q | MANGANESE        |
| CARBON      | O B D A S C T S P Q I O I D U | MINERALS         |
| CELLS       | S C E F E A R G Z Y L R R C A | ORGANIC MATERIAL |
| CELLULOSE   | S A I G D R E N M H I K O R R | PETRIFACTION     |
| COBALT      | I O R O I B E I A L C M N Y T | QUARTZ           |
| COPPER      | L V U N M O Y R N Z A Q O S Z | RINGS            |
| CRYSTALS    | W A B S E N R E G H T Y X T O | SEDIMENT         |
| DECAY       | O R G A N I C M A T E R I A L | SILICATE         |
| FOSSIL      | O A Z Y T Q E I N P D C D L I | STATE GEM        |
| FOSSIL WOOD | D E C A Y M L N E N E O E S G | STONE            |
| IRON OXIDES | C O P P E R L E S T Z U S T N | TREE             |
| LIGNIN      | T L A B O C S R E B D C G E I |                  |
|             | T P E T R I F A T I O N M P N |                  |
|             | Y O L U V C E L L U L O S E Q |                  |
|             | O X Y G E N A S T A T E G E M |                  |





# ~ Davis Creek Field Trip ~

July 17, 18 and 19 - Fri, Sat and Sunday.

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Tailgate - Swap - Buy - Sell

- Everyone Invited -

Meet and Camp at Lassen Creek Campground.

Daily field trips to the excellent Obsidian digs in the area, including Electric Blue, Rainbow, Needles along with Mahogany, and the allusive Pink Lady Obsidian.

Silent Auction - Potluck

Trade rocks and socialize with old Rockhounds, encourage and train some new ones.

Call or e-mail me, Charlie Wyckoff--Webmaster 541-273-1102

[charlie@klamathrockclub.org](mailto:charlie@klamathrockclub.org)

Put on by the Klamath Rock and Arrowhead Club

## Next Weekend ~ July 17<sup>Fri</sup> - 18<sup>Sat</sup> - 19<sup>Sun</sup>

About 40 miles south of Lakeview, Oregon, on Hwy. 395, Davis Creek is but a wide spot with a store and restaurant, but is the place to get your free collecting permit and local map. The gathering place, meeting and camping place is Lassen Creek Campground.....about 11 miles north of Davis Creek, find the signed Forest Road that goes up into the foothills to the east of hwy 395, to Lassen Creek Campground.

We should have someone there, at the campground Thursday afternoon/evening to reserve a spot. The spring water at the campground is not treated and must be boiled, so bringing your own fresh water is preferable. Thunder storms are common this time of year, hot daytime temps and mosquitoes are guaranteed, so come prepared. All that said, this is a great spot, there are tree's and nice shade with a little creek going through. Plans include a potluck for Saturday evening, so please bring a dish if you can. Jennie Eastburn is organizing/keeping tabs of the food folks bring, so please call her to let her know what you plan on bringing, after 7pm, 541-331-7135 Mon-Fri, or any time Sat.....We'll also be holding a silent auction after supper, so bring a few specimens to contribute, and a few bucks to buy that rock you just can't do without. Proceeds from the auction are going to be used for fuel to send club representatives to the NFMS show and annual meeting in Billings, Mt, and also ink and paper for our Newsletters. Of course we'll be organizing multiple excursions daily all the different area's to dig for material, mostly Obsidian.

Much better, color maps are available online, at [www.klamathrockclub.org](http://www.klamathrockclub.org)

