

Dusty ROCKS

october
2009



ROCK AND ARROWHEAD CLUB

P.O. BOX 1803

KLAMATH FALLS, OR 97601

www.klamathrockclub.org

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Rock and Arrowhead Club

P. O. Box 1803, Klamath Falls,

~ DUSTY ROCKS ~

Volume 50 Issue 10

october.2009 ~ Rock and Arrowhead Club ~ Klamath Falls Oregon

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NFMS Director: Kathi Milem
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Klamath Falls, Or. 97603

NFMS Junior Delegate: Alyssa Carnes

Past President: Mark Winters

Member @ Large: Marvin Stump

The club mailing address is:
PO Box 1803, Klamath Falls OR 97601
charlie@klamathrockclub.org

Meetings are held at the Klamath County Museum Meeting Room – Main & Spring Streets, using the West entrance. Meetings are held on the 2nd 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 1st and ending August 30th. You are delinquent as of October 1st and are given a 60 day grace period. After December 31st 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, airmail, 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.

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 ChairMarvin Stump
- Safety Officer.....Jeff Eastburn
- Club Webmaster.....Charlie Wyckoff

THE NORTHWEST NEWSLETTER is published 11 times a year (not published in December). 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

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OCTOBER



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Notices ~ An Apology:

What happened to the September issue of Dusty Rocks? Unfortunately it wasn't published and sent out....we apologize, and are working to better manage this publication, including timeliness and content.

Along these same lines, we'd like to ask the Membership for help with filling up the newsletter, with articles, short stories and letters....please help make our Newsletter more interesting and informative. It doesn't have to be anything fancy, really, just a letter or e-mail with something you or your family did in recent months, or how you think on a certain related subject.

Presidents Message: Nominations and Elections for Club Officers are coming up. If you'd like to be a part of this process, please plan on attending the October and November meetings.

Work and home, where life happens, have been keeping me busy, but I'd like to express how much we appreciate all your thoughts and prayers.

Thank you, and see you at the meeting, Doris ~

Reminder: It's that time of year folks, Club dues are due....if you haven't been to a Club meeting for a while, think about coming on down, re-connect, socialize, enjoy some great refreshments and an interesting program/presentation. October's refreshments are by Doris and Gene Newnham, and the program will be a talk by Garwin Carlson about an out of the way obsidian dig, Riley Junction, with it's black on black obsidian. Trip maps will be available.

Committee's: The Rock Show (and grant) Committee will be meeting on Tuesday, October 20th, for a final going over and edit. We encourage everyone interested in the Annual Rock Show, to begin coming to these organizational meetings.....your help really is essential to the success of the Show. We need new people to step up and start taking on some of the small jobs that go into the making of a rock show. It all starts with showing up to a meeting....you'll find it's very interesting and really fun....there are a lot of small jobs that are not very hard, don't require a huge investment of time, but without the help, it just makes it harder to make the show run as smooth as it could, we could really use your help. We're a team, and the bigger the team, the easier and more enjoyable it is for everyone, and that's what it's all about, an enjoyable experience for all of us and the community.

Archives, Newsletter and Website: A Thanks to those few who have sent/contributed pictures and articles for our Clubs Newsletter, Website and Archives, but we sure could use a lot more participation.....ways to do this? SnailMail a story/article, e-mail the same, or bring a CD copy to a meeting. We're also looking for older stuff, for the archives. Please help if you can.....it's also the time of year that we start asking for *tumbling rough, specimen and slab donations for the show.*

Charity Organization: If you support or know of a local Charity or non-profit that would be a good candidate for our show benefit table this year, please submit their info, or have them submit a request, at a meeting would be best.....we'll narrow down the options and vote in January I believe. You can contact Marv @ 541-2-8341, or e-mail the Club at rockhound@klamathrockclub.org

What did the metamorphic rock say to the igneous rock?
Don't take me for granite, I'm a gneiss guy.....HA!!



RAC Meeting Minutes September 14, 2009

Jeff Eastburn, Vice President, Presiding as meeting Chair.

Meeting was called to order by the Chairman, followed by the Pledge Of Allegiance.

Door Prize winner: Jeff Eastburn.....Congratulations.

Birthday Contribution's: Charlie Wyckoff

Treasurer's Report: Jodean Cogdill gave a summary of the Clubs finances.

Librarian's Report: Books are out tonight, but the black light has not been returned yet.

Historian's Report: Kathi Milem thanks all who sent picture's from this years Rock Show.

NWF Report: Kathi needs to get her reports done and sent in at the end of the month and we need to name a new Show Chairman for the 2010 Show.

Correspondence: Charlie Wyckoff will now be picking up all of the correspondence, newsletters from other Clubs and such, from our P.O.Box, and put together a summary for our meetings. This will also, eventually, be something to integrate into the website, having links and contact info for our Northwest neighbor clubs.

Sunshine Report: Chris Chance will be sending something to Gene Newnham. One of our members passed away and his name is Jewel Shaffer, the club made a contribution of \$25.00 to Jewel Shaffer's wife Ellen Shaffer and family. The Club seconded the motion. Jeff made a motion that Ellen Shaffer be made an Honorary Member to the rock club. We also received a thanks from John Stone's family for his \$25.00 contribution. The Water Wolves also sent a thank you yet we have not yet seen it.

New Business: Jeff has reminded everyone that club dues are due and they are \$10.00 for single person, \$18.00 for a couple and \$7.50 for 16-18yrs old. 15 and under free. We also need to make nominations for President and Vice President spots. Charlie Wyckoff is telling us that the 23rd of October the grant is due. Need to set up a grant meeting on Sept. 29th @ IYS @ 7 pm all is welcome to see what we discuss.

Old Business: Was also about the grant for our Show in March of 2010. We do need to make a decision about our Show Chairman for March 2010 on the September

29th meeting at the IYS @ 7pm.

Field trips: Jeff Eastburn took a field trip with Idaho group and found a lot of good stuff that he brought to the Sept. meeting to share with the group. Garwin Carlson went to the Grants Pass show and said it was way down for vendors that time. Chuck Newnham had a field trip for petrified wood and he brought some to the Sept. meeting and wanted to show it off. Grants Pass show Garwin to people's choice award. Jeff Eastburn awarded Garwin Carlson an old Mississippi License plate for his garage and everyone laughed. Jeff also found some bog wood from Idaho field trip. Also collect fossilized reed.

Field trip maps in black and white copy for free and if you want it in color you could pay the club.

The program for October's meeting will be done by : Garwin and Marshall will take it together.

Refreshments this month (Eastburn Family)

Refreshments for October (Doris and Gene Newnham)

Meeting Adjourned. Thanks Jeff Eastburn.

RAC Meeting Minutes August 10,2009.

The meeting was called to order by Doris Newnham & she had the club stand for the pledge of allegiance.

Door prize: Chris Chance Congrats.

Birthday contributions: Chuck Newnham

Doris Newnham, Jodean Cogdill.

Correspondence: Doris Newnham read the Mail. Some shows coming up, see Charlie Wyckoff on that for info if interested in attending the show and get directions.

Treasurers Report: Stand as read to the club.

Sunshine Report: Chris said that the birthdays will be in the newsletter. She also had shoulder surgery so please send her a card if you can. Have a speedy recovery. Gene Newnham is ill so lets extend help there as well for Doris if she needs it. Doreen is ill so lets extend a get well to her as well.

Librarians Report: The books are out and the black light is back if you would like to check it out. See Alyssa Carnes.

(Aug. minutes cont...)

Historians Report: Nothing to report this month.

N.F.M.S.: Kathi Milem traveled to Montana and she brought back some info on the meeting and they took field trips while there. They got some agate and they had some dead rattle snakes there too.

Other Reports: The field trip to the gold claims where a success and Marv and Leah Stump were the only club members to attend. Marv said some people could hang by the trees in hammocks.

New Business: Charlie Wyckoff said we should have the grant apps soon we need to get it back to them 4 to 5 weeks later. Still working on the website and we need more pictures from members to put on our site as well so get your pictures to Charlie. Congrats to Charlie for 3rd place in the NFMS Website Contest. We would like to congratulate Amanda Newnham for her award that she got too for the editor award.

Field trips: Kathi & Alyssa brought back some fossils from Montana, they were on the back table to view. Chuck talked about some good stuff he came into from a trade with a guy that he worked with. Lassen creek trip was a success and there where a few members that had car trouble, those people were Jeff and Jennie Eastburn and family and Marv and Leah Stump so we all feel bad about not being there with the group. Charlie Wyckoff also had car trouble as well hope next time we all have great vehicles to go to our field trip. Garwin Carlson said he had van trouble at the sunstone area.

Doris adjourned the meeting & Jeff Eastburn did the program tonight about crystals & how they are formed.

The refreshments were provided by Charlie & Sheila James & Family. Doris & Gene Newnham also contributed, so thank you so much.

Next months refreshments will be by Jeff & Jennie Eastburn & family. Please lets remember to give a call to these members to see how they are doing because they are ill at this time.

Chris Chance, Doreen Chase, Gene Newnham.

Secretary notes by Jennie Eastburn.

Free Gemology Courses

WOW! Well this is really neat.....have you ever wanted to know more about gems and gemology? Maybe looked at your local library for books or reference courses?

Reading through the Bulletins I receive from other Clubs this month, I came across this interesting info, and I think, like myself, there will be quite a few that might have more than a little interest in this.

It's an online Gemology course, all the details at www.bwsmigel.infoif you're interested in learning about gemology from a scientific (rather than a commercial or artistic) viewpoint, then you might enjoy this website and instructional material.

Included are one topic WebEssays, and a ton of pictorial essays that deal with info on specific rocks and minerals. There's an ask the teacher link, where you can receive answers to questions, and a very complete glossary with pronunciation guild, very handy.

Info from Charlie-

Rock and Gem Alert: Subscribers -

This alert from Rock and Gem Magazine itself.....

"Subscriber Alert: you may be contacted by unauthorized agents asking you to renew your subscription. These companies are not authorized to represent Rock and Gem, nor are they affiliated with us in any way. Please do not give out any personal, payment, or credit card information to these companies. Rock and Gem will not accept orders from these companies: if you choose to renew through them, you will likely never receive any issues of Rock and Gem. If the status of your subscription is in doubt, call our authorized subscription service at (760) 291-1549 or e-mail rockandgem@pcspublink.com and request a reply."

So, don't do it, it's a scam.....this is very relevant, as I know of at least 2 other people who have received these kind of discounted subscription offers.....more than likely looking to steal your identity.



ROCK SHOWS

October 2009
 17th 10am - 6pm
 18th 10am - 5pm
 Hells Canyon Gem Club
 43rd Annual Show
 "Hidden Treasures"
 Nez Perce Co Fair Grounds
 1229 Burrell Ave.
 Lewiston, ID 97013
 Rick Westerholm
 208-746-2101
 rkwester@cableone.net

October 2009
 16th 12pm - 7pm
 17th 10am - 7pm
 18th 11am - 4pm
 Springfield Thunderegg Rock Club
 52nd Annual Rock & Gem Show
 Gateway Mall
 3000 Gateway Street
 Springfield, OR
 Bob Smith
 541-741-0060
 Jim Randall
 541-683-2661
 sweetbottom@juno.com

October 2009
 24th 10am - 5pm
 25th 10am - 5pm
 Bellevue Rock Club
 "Octoberfest of Gems"
 Rock, Gem & Jewelry Show
 Vasa Park 3560 W.
 Lake Sammamish Blvd SE.
 Bellevue, WA 98009
 (I-90 Exit 13)
 Marjorie McKinley
 PO Box 1851
 Bellevue, WA 98009-1851
 206-633-1421
 e-mail:
 bellevuerockclub@comcast.net
 www.bellevuerockclub.org



October 2009
 24th 9am - 6pm
 25th 10am - 5pm
 Clackamette
 Mineral and Gem Club
 Nature's Beauty in Stone 2009
 Clackamas County
 Fairgrounds Pavilion
 694 NE. 4th Ave
 Canby, OR 97013
 Rick Mauer
 9878 SW Alsea Dr,
 Tualatin, OR 97062
 (503) 691-6395
 tallerricardo@juno.com

November 2009
 6th 5pm - 9pm
 7th 10am - 5pm,
 8th 11am - 54m
 Chugach Gem and Mineral Society
 and Alaska Miners Association
 8th Annual
 Alaska Rock and Mineral Show
 CGMS 50th Anniversary
 Sheraton Hotel
 401 E. 6th Ave.,
 Anchorage, Alaska 99501
 Anita Williams
 907-345-2541
 awilliam@alaska.net
 or Sharon Cox
 907-563-9229

November 2009
 14th 9am - 5pm
 15th 10am - 5pm
 Skagit Rock & Gem Club
 TREASURES of the EARTH
 Sedro Wooley Community Center
 720 State St.
 Sedro Wooley, WA
 Lois Stone
 Clear Lake, WA
 360-856-1190
 360-299-8224



Word Search

October Word Search

| | | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------------|
| | C | R | Y | S | T | A | L | S | S | P | H | E | R | E | S | |
| Agate | H | J | K | O | G | E | O | L | O | G | I | C | A | L | N | Native |
| Baseball | A | S | T | A | T | E | S | T | O | N | E | Z | E | E | O | Opal |
| Chalcedony | L | E | S | Z | B | I | Q | R | O | U | G | H | C | G | S | Oregon |
| Color | C | L | R | O | C | K | S | Y | R | P | H | B | I | E | R | Pattern |
| Crystals | E | E | B | A | S | E | B | A | L | L | O | X | L | N | E | Quartz |
| Famous | D | N | M | G | J | K | D | Q | S | R | L | E | S | D | F | Rocks |
| Geode | O | I | V | A | E | X | F | O | I | W | L | V | G | O | F | Rough |
| Geological | N | T | Z | T | V | D | U | R | O | Y | O | I | E | Q | E | Selenite |
| Hollow | Y | E | B | E | C | F | G | E | I | H | W | T | O | K | J | Slice |
| Jasper | Q | U | A | R | T | Z | L | G | N | M | T | A | D | C | T | Spheres |
| Legend | P | A | T | T | E | R | N | O | P | S | Q | N | E | O | N | State stone |
| Mount Hood | F | A | M | O | U | S | W | N | Y | Z | X | R | U | L | U | Thundereggs |
| Mount Jefferson | J | C | K | A | J | A | S | P | E | R | L | A | P | O | O | |
| | T | H | U | N | D | E | R | E | G | G | S | T | V | R | M | |

Classes in Glass....not technically a Field Trip, but...

Roseburg's Eileen Paul, of The Bead Patch, we all know her from our Rock Show where we see her and her Husband Roger, in her booth, making glass beads with her torch and colorful rods, came to Klamath Falls for a second round of glass bead making workshops.

Three classes, Fri, Sat, and Sunday Sept 25, 26 and 27....it turned out great, and we all had a wonderful time going over basic stuff and learning some more advanced techniques. Cindy Howland and I were the RAC members attending, along with 7 others, 3 of which were also at the first workshop back in May.

Anyway, we all had a really productive time, and we didn't even set the building on fire....anyone interested in future workshops can get a hold of Eileen at this years Rock Show in March, Lord willing, or contact me, Doreen Chase, 541-331-3201

There are two birthstones which represent October. One is opal and the other, tourmaline.

The name opal is derived from the Latin word "opalus" which means "precious stone. Pliny described an opal as though it was made up of all the glorious gemstones in union with each other.

Opals are famous for their beautiful array of colors. Many stones flash all of the colors of the rainbow when moved, due to the interference of light on small cracks and other internal structural differences. Impurities within the stone can also add color to opals. Microscopic gas bubbles within the gem can add a pearly appearance.

Trace amounts of iron oxides will give the stone a yellowish or red look.

There are also highly prized "black" opals which flash green, red, blue and violet in light, these having magnesium oxides in them. Probably the most valuable is the "harlequin opal," which displays splinters of red, yellow and green.

Opal is composed of silicon dioxide, like quartz, but contains up to ten percent water and is softer. It can be easily altered in appearance by use of heat and pressure. The differing amounts of water determine appearance. If water evaporates out of opal, the gemstone will shrink in size and often cracks appear from the stress. Most opals come from Australia but they are also found in Mexico and Nevada and Ireland.

Ancient Romans believed the opal was a symbol of love and hope. Chinese referred to the gem as the "anchor of hope." Arabs believe opal fell from the heavens in flashes of lightning. A widespread belief of the powers of opal is that it renders the wearer invisible, so it was no doubt a popular stone of thieves!

In Medieval Europe, opals could indicate the health of it's wearer. It was believed that the stone would change in intensity if the wearer became ill. It was also thought that the opal could strengthen the heart, guard against infection and prevent swooning. This all changed however when the black death swept across Europe in the 1400's, and one quarter of the population died. The opal was believed to be

the cause of death. It was said the opal would stay brilliant until the person died, then lose it's lustre. There is some truth in that the stone is sensitive to body temperature, and indeed loses intensity as the body changed from fever to cold death!

In Elizabethan England, Shakespeare wrote of it in the Twelfth Night as the "queen of gems." Queen Victoria presented her children with opal jewelry, thus making the stone popular.

In Australia, there is a legend of a huge opal that governs the stars and guides human love, as well as controls the gold in mines. But Australian aborigines see it in a different light -- to them, the opal is the devil that lurks in the ground, a half-serpent and half-human with flashes of wicked magic that lures men to destruction.

Tourmaline is the other October birthstone. Of all the minerals, tourmaline exhibits the broadest range of colors. Tourmaline has even been mistaken for rubies and emeralds! A famous tourmaline the size of an egg and belonging to Catherine the Great was long thought to be a ruby.

Tourmaline is a hard glassy mineral in hues of black, white, blue, green, red, pink, brown and colorless. The colors are opaque to transparent. The composition of tourmaline is a complex mixture of compounds of sodium, calcium, magnesium, lithium, aluminum and iron. Crystals as large as one meter have been found. Small amounts of manganese produces a pink color, while ferrous iron, chromium or vanadium will produce a green gemstone.

Tourmaline has a unique property in that if it is warmed or rubbed it will become charged with static electricity and will attract bits of paper and lint. Ben Franklin used a piece of tourmaline when he studied electricity.

Tourmaline does not have much for myth and lore associated to it because it is discovered that long ago compared to other gems. It has however, often been referred to as the "peace stone" because it is believed to dispel fear and bring calm to its' wearer.

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Tumbling Grits: a continuation on the Tumbling article from August.

Tumbling grit is sand-sized particles of silicon carbide. That is where the name "grit" comes from. It is an abrasive material that is placed in the tumbler barrel with your rocks. Silicon carbide is much harder than the rocks that you will tumble. When it is caught between tumbling rock particles it creates tiny scratches on them. This continuous scratching wears down the rocks and rounds them. Sharp edges on the rocks are worn down more rapidly than flat surfaces because the grit is rubbing against them on two or more sides. The result of this grinding is smaller, rounded rocks. There are different types and sizes of tumbling grit. If you bought a kit, then you will be using what's provided for your first batch of rocks. After that you will need to purchase the needed grits.

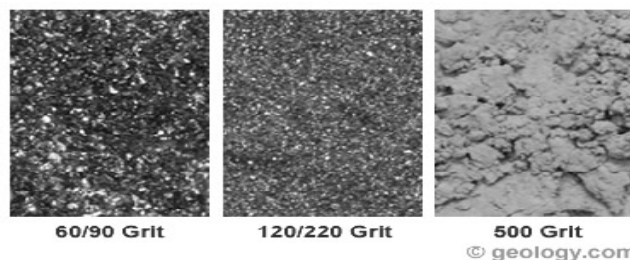
Coarse 60/90, Medium 120/220 or Fine 500? Tumbler grit is referred to using the same words and numbers that are used for sandpaper. Words such as coarse, medium and fine refer to the size of the particles glued to the sandpaper or the size of the grit particles that you will use as a tumbling abrasive.

The numbers, such as 60, 90, 120, 220, 500 and higher numbers refer to a particle size....the way I learned to picture this, is the number of particles per square inch on a piece of sandpaper.....smaller numbers mean a larger/coarser grit, larger numbers refer to the finer grits/polish.

Step 1-Shaping with coarse grit:

The first tumbling step is usually done with a 60-90 grit silicon carbide material. This is the most abrasive, being the largest grit size, at about .25mm diameter particles. Very rough. The goal here in this first step is to shape and round the stones. Below are some general guidelines for grits and amounts for different sized barrels.

| | Step 1 | Step 2 | Step 3 | Step 4 | Step 5 |
|-------------|-------------------|-------------------|---------------------|--------------------|----------------|
| Barrel Size | Coarse Grit 60/90 | Fine Grit 120/220 | Pre-Polish 500 Grit | Polishing Compound | Burnish (Soap) |
| Pounds | Tablespoons | | | | |
| 1.5 | 3 | 3 | 4 | 4 | 1/2 |
| 3 | 4 | 4 | 5 | 5 | 1 |
| 6 | 10 | 10 | 12 | 12 | 2 |
| 12 | 20 | 20 | 24 | 24 | 4 |



Step 2 - Coarse-Medium Grit:

The second step is usually done with medium (120/220) grit which is particles of about 1/8 millimeter diameter. The smaller grit particles cut more slowly than coarse grit. This step does very little shaping or rounding of the rocks. It is done mainly to remove any scratches in the rocks left by the 60/90 grit.



Step 3 - Medium Grit

The third step is often done with 500 grit silicon carbide but some people use 500 grit aluminum oxide or a similar-size compound. This step removes scratches left by the medium (120/220) grit, smoothes the surface of the rocks and prepares them for the polishing step.

Step 4 - Fine Grit - Polish:

The fourth step, with a fine grit, or polishing step, uses a polishing compound such as aluminum oxide which buffs the surface of the rocks to a bright luster.

Step 5 - Burnishing - Cleaning: (optional)

The fifth step is a burnish/cleaning step with soap to clean up the rocks and make them sparkle.



Garwin Carlson will be giving a talk this month about "Riley Junction Obsidian". By all accounts, this is a superb backing material for triplet because of its extreme, absolute black color and high gloss quality. Also a quality knapping material. 107 miles north of Lakeview on Hwy 395....Riley junction, for reference, is also 25 miles west of Burns on Hwy 20, or 103 miles east of Bend on Hwy 20. There's a large pull-off/parking on the east side of 395, the rock hunting is out on the east side of the road also.

