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**Dusty Rocks**

**September  
2018**

**ROCK AND ARROWHEAD CLUB**

P.O. BOX 1803

KLAMATH FALLS, OR 97601

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



# DUSTY ROCKS

Rock and Arrowhead Club ~ Klamath Falls Oregon



## OFFICERS & EXECUTIVE BOARD

**President:** Laura Limb  
541-273-7503  
1528 Dayton St, Klamath Falls OR, 97603

**Vice President:** Kristin Sayles  
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11597 Spring Lake Rd, Klamath Falls, OR 97603

**Secretary/recorder:** Sherry Lee  
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2226 Applegate Ave,  
Klamath Falls, OR 97601

**Treasurer:** Robert Stroope  
541-539-9599  
10072 Westbrook Dr, Klamath Falls, OR 97603

**NFMS Director:** Kathi Milem  
3333 Anderson #3 Klamath Falls, OR 97603

**NFMS Delegate:** Alyssa Carnes

**Member @ Large:** Leah Stump

[www.klamathrockclub.org](http://www.klamathrockclub.org)  
**Webmaster Denise Sebastian,**  
nicee1214@gmail.com Send your items for sale, photos, adventures, etc

**Rock and Arrowhead Club** Meetings are held at the Klamath County Museum Meeting Room – Main & Spring Streets, using the **West** entrance

**Meetings are held on the 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 and after the March show, when the meeting is held on Tuesday.

**Visitors are cordially invited to all meetings. To join:**

Dues are \$13.50 per year per adult (\$25 for families plus \$1 per child), \$7.50 ages 16-18

The club mailing address is:  
PO Box 1803, Klamath Falls OR 97601

### 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, and foreign stamps of all values. Proceeds from stamp sales will be used to benefit any charity deemed worthy by the NFMS Endowment Fund.

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### Committee Chairs

- Sunshine.....Chris Chance
- Program.....Kristin Sayles
- Greeter/Door Prize.....
- Refreshments.....Chris Chance
- Historian.....Don Perryman
- Librarian.....
- Claims Rep.....Garwin Carlson
- Field Trips.....
- Black Light Display.....Marshall Curran
- Show Chair.....Garwin Carlson
- Asst Show Chair.....
- Safety Officer.....Laura Limb
- Publisher/ Webmaster...Denise Sebastian

**THE NORTHWEST NEWSLETTER** is published 11 times a year. 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. 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

### Newsletter Editors

Chris Chance 541-891-3608  
& Linda Stroope 503-393-5025

**Visit Us At [www.klamathrockclub.org](http://www.klamathrockclub.org) Contact Webmaster Denise Sebastian nicee1214@gmail.com for anything relating to our website**  
**Please e-mail [mrsllas@ccountry.net](mailto:mrsllas@ccountry.net) to join & get on our email list.**

*Reference to use of arrowheads within our club is limited to flint napping activities during workshops, annual shows and personal creations. No gathering of arrowheads on field trips is authorized or suggested by any club members.*

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### From the President...

Hello Fellow Rock Hounds,

It has been a very smoky year which has made getting out into the woods and desert to collect challenging. I hope you have been fruitful at least when you have made it out.

We are still in need of bigger rocks for the silent auction. It seems like we have lots of time 'til March, however it is only 7 months away.

We will be ramping up for the November show with scheduled meetings to come.

Be thinking about volunteering in the club as our elections will be happening November.

Rock on my fellow rock hounds!

Your President, Laura Limb

**NEXT MEETING:**  
**Monday 9/10/18, 7 pm**  
**Treats: Bruce Vait & Chris Chance**

### Happy Birthday



- Debra Black
- John Church
- Margaret Garrett
- Sandi Hart
- Doris Newnham
- Don Perryman
- Lois Phillips
- Natta Skog
- Adam Skog
- Jack Smith
- Rick Steed

If we missed your birthday, it's because this info is lacking in our master list. Update with Leah Stump, if you wish.

### Save the dates!



- Rock shows— see last page**
- Tuledad 9/21-22-23**
- Christmas Party Sunday, Dec 9**
- Pot luck signup sheet available starting with the October meeting**



**Rock and Arrowhead Club**  
**General Meeting Minutes of August 7, 2018 7:00 pm**  
**Location: Klamath Museum**



The meeting was called to order by President, Laura Limb, at 7:00 pm, followed by salute to the flag.

Birthday greetings to all born in the month of August.

24 Members in attendance - Three door prizes were drawn by Caleb, Marolyn and Doris.

Welcome to 8 guests – Ken & Marolyn's grandkids, Bell and Caleb; Eric Perryman; Barb and Don Umber; Morgan Lloyd; Diane DiTomasso and Bob Hurless

Review of the July minutes - Laura clarified that she found two 100 carat sunstones. It was moved by Kristen and seconded by Bob to accept the minutes as clarified. Motion carried.

Treasurer's Report – Robert Stroope gave the monthly report on the RAC account. Annual dues will be due in October, Robert request that if you pay in cash, please bring exact amount. He will not have change.

Northwestern Federation (NWF) Report - Kathi Milem – Absent - Nothing new at this time.

Sunshine Report - Chris Chance – Gina Nederbrock has passed. Averil Anderson has pancreatic cancer, visitors are welcome. Larry Phelps fell and broke his hip, he is home.

Webmaster Report - Denise Sebastian – no changes to report.

There was a copyrighted picture used on the website, a picture of a pearl. The copyright holder is seeking restitution and the board is negotiating with him. Please take care not to use copyrighted pictures in any submitted articles.

Newsletter - Linda Stroope and Chris Chance - Always need pictures and articles from your rock hound adventures.

Club member field trips –

Bob found a large specimen of Yadenite near the hospital.

Lacy went to the Virgin Valley and share the black fire opal she found.

Club Field Trips: **We still need a volunteer to manage the club field trips:**

July 21 - 22 Lassen Creek/Davis Creek, CA – obsidian - Don Perryman set out the signs. There were 6 in attendance; Don, the Limbs and the Stroopes. The Rainbow mine is accessible only by walking in as gate has been placed across the road. In two (2) years this mine will be closed permanently due to an individual commercial mining without a permit and improper mining methods making it dangerous.

Aug Virgin Valley for opals - Cancelled—no interest expressed

Sept 21 - 23 Tuledad – agate - Guides are Robert and Linda Stroope

Oct or March Oregon Coast for beach combing



August Minutes, cont'd

New Business – Executive Board meeting was held August 9th.

Topics were:

Guest speaker spoke of differences between 501-c-3 (charity specific) and 501-c-7 (membership organization) non-profit status

Inviting and working with kids with following ideas:  
Flip meetings - program first with business after.  
Work with OIT and KCC Geology classes  
Invite schools, clubs and youth groups

November show - to be profitable the goal is to have 70 vendors  
Planning meetings schedule pending.

Christmas Party is Sunday, December 9th.

Change in membership dues will be discussed in the November Executive Meeting.

**\*\*Nominations are needed for October officer elections\*\***

The positions open are: **\*\* President and Vice President\*\***

Meeting Programs for the rest of the year:

Sept: Tuledad agate - Robert & Linda Stroope  
Oct: How to make a cabochon - Don Perryman  
Nov: Tumbling rocks or wire wrapping or gem trees - Leah, Denise and ?  
Dec: Christmas Potluck - Sunday, Dec. 9th  
Future idea: Silver smithing

Old Business: None

Program – Tom Endicott and Garwin Carlson presented some interesting facts on opals, their structure, where they are mined and how to prepare them for jewelry.

Next meeting: September 10, 2018 - 7:00 pm at the Klamath County Museum

Meeting Adjourned at 7:35 pm

Refreshments: Barb Massey and Chris Chance – thank you for the yummy refreshments.

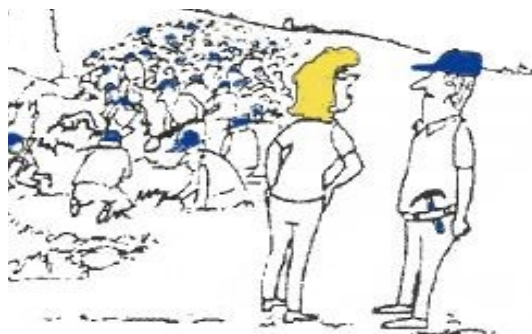
*Respectfully submitted by Cheryl Lee, Recorder*

Chuck Newnham mentioned during his presentation in August that he has a couple of hundred lbs of tumbler material he will donate to those who are tumbling for the 2019 spring show.

He can be reached at  
(541) 892-7486

*Remember to collect  
tumbler material everyone.  
Also rocks for the painters.*

Thanks  
Chuck!



This the nice isolated spot that no other  
rockhounds know about?"

## Rocks and Minerals Word Search

**Instructions:** Try to find all of the hidden rock and mineral words in the word search puzzle below. Words can be spelled forwards, backwards, diagonally, up, or down.

U U R F N K W L V N K J D C J I F W T M O V O G E  
 D N V C A L C I T E U Z C M T D E Q A U U Z H A M  
 S W A Y N K I R M S N Z R P S G D R Z L L G V L J  
 I E N K M U H L C I Z Y V E E W B I C O F Z B X Y  
 T M R Z I Q R L X M I W H T U L A A U H V C T Y K  
 R T P O C T E T C M T F I R E A N Y E S X U J I S  
 W F Z R G U E Z A C E X W S A I H K U X W Y W E A  
 S Y G J Z E N L S C U I C Y T L M A A Y Q Z Q T W  
 T F P Y Q I A Z Y A S T E E U U R L P V J O Q I B  
 S N E G G C F I B O H A T P S G O J O X G U I L M  
 E Z V L H D X N W S T E M P O S O A P H A O W O E  
 N T E I D C B X R M H H Y G T E N P R R R P M D T  
 V M T A S S F F A F T G T O G J A U T F O O J I I  
 R E P H I X P N O P C C C E U U U Z H Q G H I P T  
 M N O F G U I A P H O I U V C E M S M V Q B K E A  
 S D P M X T K T R N T Q B W D O K J V E Y C T L M  
 T Y W Y E L P K H E F L D L A R E M E S Y P I K E  
 N S E B J G X M V I V Q N U T H N S D L D T W K H



### Word List

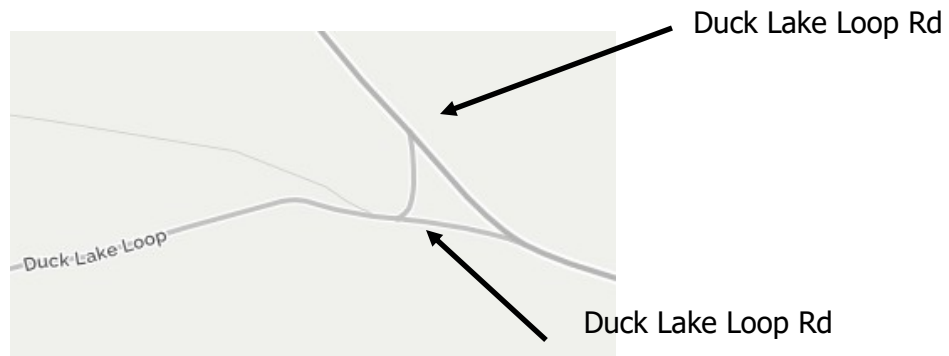
BAUXITE	HEMATITE	QUARTZ
CALCITEKUNZITE	UNAKITE	
EMERALD	LEPIDOLITE	VULCANITE
FELDSPAR	MALACHITE	XALOSTOCITE



## Tuledad Canyon

Agate, jasper, and petrified wood will be found in Tuledad Canyon which is also the location of the camping area. This is an unimproved, reasonably level clearing with no shade. We had a campfire last year, but it was later in the year and we should not risk sparks that could get out of hand too easily in our drought conditions.

To get there, travel south from Cedarville on the paved road to Gerlach, NV, CA Highway 81 aka Surprise Valley Road. At about the 28 mile point you will enter Nevada. The road is now called NV 447.. About 9 miles into Nevada will be the junction for Tuledad Canyon which is located at the north end of Duck Lake (a dry lake).



At this point, turn right (west) onto the double lane Duck Lake Loop *unpaved*. It will follow the base of the mountain. Proceed for about 5 miles and turn a sharp right onto Tuledad Road which climbs uphill on the end of a ridge.

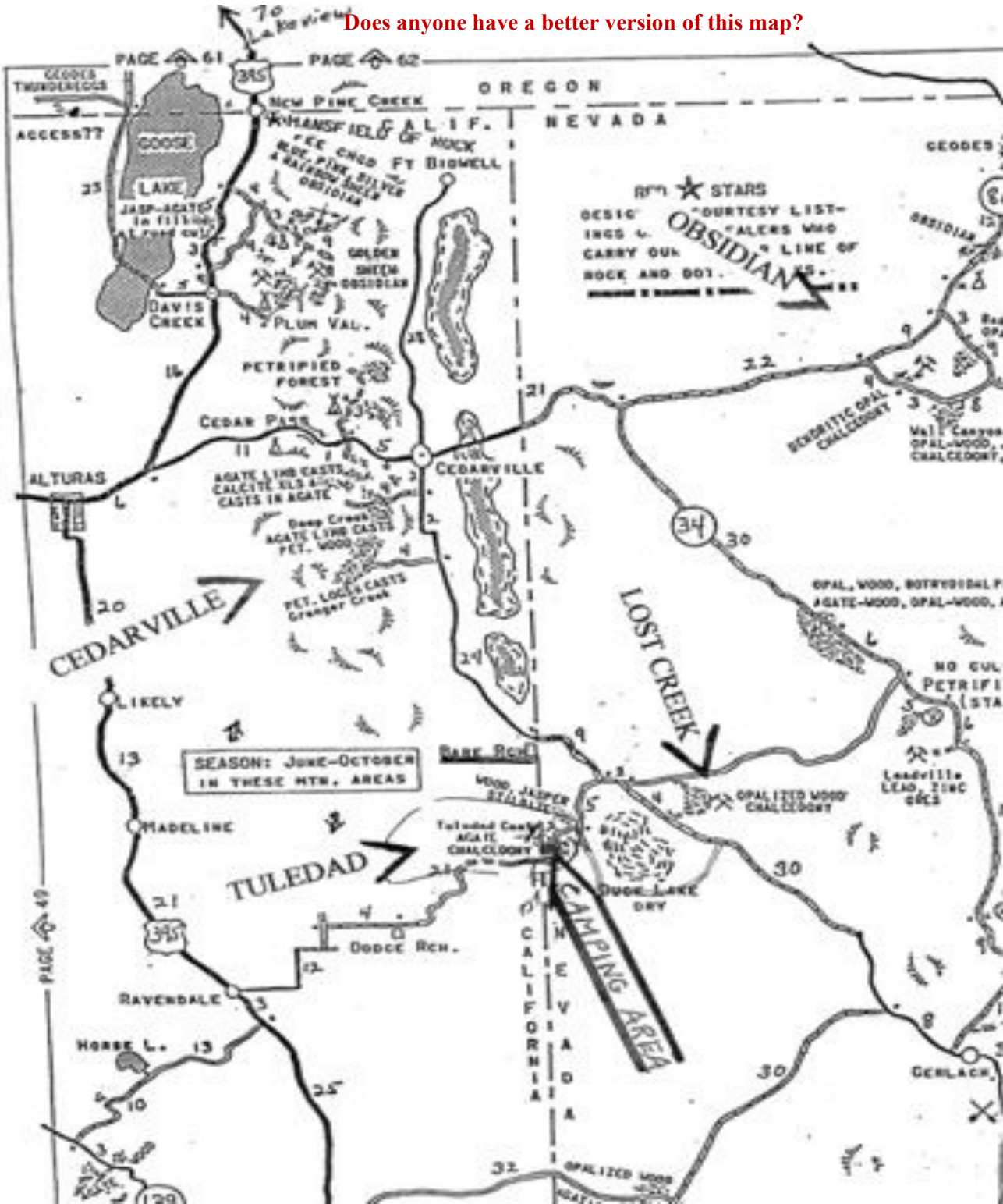
The camping area will be roughly 2 miles ahead. You will see the RAC sign locating the sharp uphill pull to the campsite— perhaps 150 yards. The camp area is not visible from the road. Most people with RVs prefer to continue down the hill to a convenient turnaround, then hit the pull uphill as a less steep, left turn. As you can see from the photo, all these large RVs managed it nicely.



This area lacks the lovely forests we enjoy at Lassen & Davis Creeks, but the desert vistas have their own beauty and the gravel road was in great condition last year.

Note! You will want to fuel up in Alturas. Best gas prices by 20cents or more & CLEAN store & restrooms are at the Chimney Rock Travel Center 5.5 E of town on Hwy 395.

Does anyone have a better version of this map?



If you find Gneiss, don't take it for Granite



## Jasper!

As we're taking a Club outing to Tuledad Canyon on 9/21-22-23 it's a good time to talk a little about jasper. It's considered a gemstone and is an opaque variety of quartz, specifically chalcedony (cal-sed-nee) but due to its grainy inclusions is in a grouping by itself. The opacity of jasper is what makes it differ in appearance from quartz or carnelian. It comes in a variety of colors and can appear as a solid color but is most often mottled, striped, ringed or spotted and each piece is unique. The *word* jasper is derived from the Greek for "spotted or dappled stone". Jasper's abundance and relative ease of collecting at least "yard samples" (for those of us who are not crafty with our stones) is what makes it a favorite of mine. The incredible variety of picture stone and vivid colors & patterns in which jasper appears is what makes it a favorite of many of our stone working members. It has a hardness of 7 on the Mohs scale and polishes beautifully into cabs, slabs, spheres & beads and other ornamentals. This level of hardness & the unique patterns helps distinguish jasper from all other gemstones.

There are thousands of types of jasper in the world but its abundance and variety in the Pacific Northwest is spectacular because it is found in areas of volcanism. Jasper is often named for the geographic area in which it is located: Biggs & Deschutes from here in Oregon, Morgan Hill aka "poppy jasper" from CA, Wascoite from Wasco County, OR and Owyhee picture jasper, to name just a few.

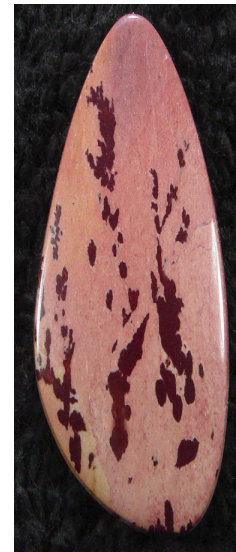
To deep dive just a bit, picture jasper usually consists of petrified mud in pockets of earliest volcanic rock. Jasper is related to chert and is formed through deposition from low-temp, silica-rich waters percolating through cracks and fissures in other rocks and incorporates other materials in the process, such as clays and iron. This gives us the incredible variety of jaspers here and throughout the world.



Biggs Picture Jasper



Morrisonite Jasper



Owyhee Mountain  
Dendritic Jasper

All courtesy of Silver Streams Northwest  
[www.silverstreams.com](http://www.silverstreams.com)

## Members having fun!

On Friday, 8/3/18 Chris Lehman and son Alex visited the RAC sunstone claim for the first time. As Chris said, "we did pretty for not knowing what & how to dig for them." We couldn't agree more!



### Tumbling tips

We plan to have a presentation about tumbling at our November meeting. This is a useful tip from the Umpqua Club's newsletter, as obtained from The Agatizer via Del Air Bulletin:

#### Measuring Grit

Most tumbling instructions tell you how much grit and polish to use per pound of rock, and is most often given in ounces. An easy way to arrive at ounces is to use a standard measuring spoon and level off with a knife.

ONE OUNCE of EQUIVALENT equals:

- Course Grit – 4 Teaspoons
- Medium Grit – 4 Teaspoons
- Fine Grit – 4 Teaspoons
- Polishing Powder – 8 Teaspoons

## Tumbling 101

As with most things, we have a huge range of knowledge and experience among our club members. Some of you have been tumbling for years and others of us (like me and surely a few others of you) know next to nothing about the subject. Chris & I thought we'd put in a few articles about tumbling in advance of the presentation at our November meeting. Perhaps it's just lack of knowledge that's keeping some of us from trying it. It's pretty clear that with this topic, everyone has their own slant on just how to go about it. Luckily, we have plenty of experts!

### What Size Rocks Should Be Used in a Tumbler?

You should use a mix of rock sizes - none bigger than 1/2 the barrel diameter.

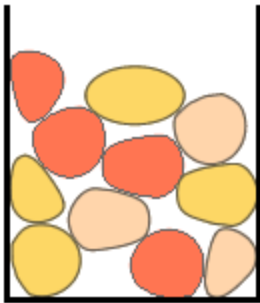


Figure 1A

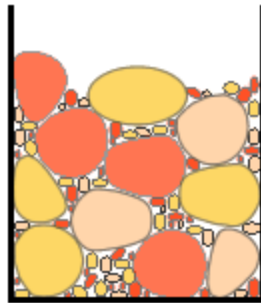


Figure 1B

The illustration above shows how small diameter material can increase the efficiency of your tumbling.

In Figure 1A there are only a few large rocks in the tumbler barrel. Notice how there are only a few particle-to-particle contacts where grinding can occur.

Small particles have been added in Figure 1B and they occupy the spaces between the large particles. Now there are a much larger number of particle-to-particle contacts where grinding can occur.



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## **Rotary vs Vibrating Rock Polishing—an introduction**

*Reprinted with permission from the author, Tom Kuzia Tom told me that he's not really into lapidary work any longer, but has tumbled 1000's of lbs of rocks over the years and done silver and coppersmithing. He's now sold his equipment and is focusing on wood and metal arts these days.*

There are 2 types of rock polishers: **rotary** and **vibrating**.

### **Rotary**

As the name suggests, a rotary tumbler slowly rotates causing the rocks inside a watertight barrel to slosh back and forth in a grit and polish slurry. This results in the slow smoothing and polishing of the rocks.



A rotary tumbler will use a lot of grit and polish. The rule of thumb is about 1-lb of grit for every 10-lbs of rocks. So if you had a 4-lb rotary tumbler you would use about 0.4-lb of grit per barrel load of rocks.



A rotary will shape the rocks MUCH better than a vibe but takes months to do a full cycle from the rough rocks to a finished polished load.

The rough stage will use the most grit as it takes the longest to round off the rocks and get rid of any imperfections in them. The rough stage is about the most important as it will decide the final result you have. The rough cycle can take several months to do properly. This means that every 7-10 days you will have to empty the barrel, wash the rocks and barrel and start over again until you are satisfied with the way the rocks look. The 2nd, 3rd, 4th and 5th stages usually take 7-10 days each in a rotary polisher, plus the burnishings.



### **Vibrating**

A vibrating polisher (vibe) works in a similar manner to the rotating one, except instead of rotating, the polisher simply vibrates as a high rate of speed. The action of the grit and polish slurry on the rocks cause them to be polished.



A vibe will polish rocks much faster (7-10 days) than a rotary polisher, but the rocks will not be nicely rounded. The vibe is very economical as far as grit and polish goes. With a 4-lb barrel you would only use about 2 to 3- tablespoons of grit for every 4-lbs of rocks for the roughing stages. Vibes are MUCH more aggressive, so you will have to re-charge the barrel every 24 hrs. The 2nd, 3rd, 4th and 5th stages in a vibe will only use 2 tablespoons of grit in the 2nd stage and 1/2-teaspoon each for the 3rd, 4th & 5th stages.



### **Rotary & Vibrating**

So - Do you want fairly well-shaped rocks in a hurry or nicely-shaped rocks in months? Well, there's a way around the waiting game, but it's not the cheapest way to go. For a faster turnaround, you can use a rotary for the roughing and the vibe for the remaining stages.



## Editor's Corner

Now that the tourist are out and about in Klamath Falls we have a request from the Klamath County Museum for some thunder eggs . They have sold out of them for tourist souvenirs. A thunder egg is a easy souvenir to carry and unbreakable by the airport baggage workers. The Rock Room is a big hit with all the people that view the collections. The Rock Club should be proud to be able to be represented by such a grand display. The Klamath County Museum is in need of thunder eggs whole, or cut is even better. Can we help replenish their stock and give the tourist and locals something that represents us in a good way. Sam and I washed the mud and soil off of some today and took them down there. Dan the Museum employee was happy and washed was even better. If you need someone to pick up your donation of thunder eggs just call Dan at the Museum at 541-882-1000 or I can be reached at 541-882-7125 just leave your name and thunder eggs.

Chris Chance, co-editor email [chrischance38@msn.com](mailto:chrischance38@msn.com)

Here's hoping for a good turnout to our Tuledad trip 9/21-22-23. The very long range weather forecast for Cedarville is sunny low 70's for days and 45 at night. Perfect rock hunting weather! Don't forget the Christmas potluck is SUNDAY, Dec 9. We plan to have a sign up poster at the Oct & Nov meetings so everyone is clear about what to bring.

Linda Stroope, co-editor email [stroopemail@gmail.com](mailto:stroopemail@gmail.com)

### Some upcoming shows:

- Sequoia Gem & Mineral Society, Community Activities Bldg.  
1400 Roosevelt Ave, Redwood City Sept 15-16
- Cascade Mineralogical Society  
Student Union Bldg at Green River CC in Kent, WA  
Sept 22-23
- Nevada County Gem & Mineral Society, Nevada Co Fairgrounds  
Grass Valley, CA Oct 6-7
- Idaho Falls Members Sale Sat Oct 6  
Pinecrest Event Center, Idaho Falls
- Clackamette Mineral & Gem Society annual show  
Clackamas Co Fairgrounds Canby, OR Oct 27-28

*Members, if you attend another club's show, be sure to take note of things that club might be doing that we could consider adopting, ourselves. Report back at a meeting or email Chris or Linda and we can bring it up at the next meeting. Our show is fabulous but there's always room for improvement.*



philipmartin.info