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Dusty Rocks

**March
2019**

ROCK AND ARROWHEAD CLUB

P.O. BOX 1803

KLAMATH FALLS, OR 97601

www.klamathrockclub.org



DUSTY ROCKS

Rock and Arrowhead Club ~ Klamath Falls Oregon



OFFICERS & EXECUTIVE BOARD

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Member @ Large: Leah Stump

www.klamathrockclub.org
Webmaster Denise Sebastian,
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sale, photos, adventures, etc

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

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 2nd 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
Or \$25 for families

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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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

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& Linda Stroope 503-393-5025

Visit Us At www.klamathrockclub.org Contact Webmaster Denise Sebastian nicee1214@gmail.com for anything relating to our website Please e-mail 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...

Dear Fellow Rock Hounds,

By the time that you may read this, our 33rd annual Rock, Mineral and Gem Show will be completed. We are very appreciative of the hard work and talent that goes into making our show the best in the state. We could not do this without the dedication of our members. We have a great group of people in our club. Many years of knowledge and experience are passed down each year as we prepare and have our show.

Stay strong and rock on.

Your President
Laura Limb



Rock and Arrowhead Club
Klamath Falls, Oregon



www.klamathrockclub.org

NEXT MEETING:

TUESDAY March 12 7pm
Treats by Marolyn & Ken Davis

Save the dates!

RAC-only Show pre-setup Thurs, March 7, 1pm
If you can move tables & chairs, please come help once the electrical is set up

EVERYONE'S Set-up Fri, March 8
WE NEED YOU! Coffee & donuts, of course!
After setup, RAC hosts a spaghetti dinner (thank you Kathi Milem!) **POT LUCK** desserts, please. We can use the fridges in the snack bar area. This is a well attended dinner!

Sat March 9 dinner by the Keno Lyons \$5
Sun March 10 breakfast 8am \$5

Happy Birthday



Sam Chance
Glen Damrow
Sherry Douma
Linda Lehman
Jared Smith
Ellie Hart Taylor
Kyle Watson
Ashley Wright
Mark Wright

If we've missed you it's because our master list lacks your info. Help us update it, thanks!
Contact Leah Stump



Rock and Arrowhead Club
Klamath County Museum
General Meeting Minutes of February 11, 2019, 7:00 pm



The meeting was called to order by President, Laura Limb, at 7:04 PM, followed by the salute to the flag.

Birthday greetings were expressed to all born in the month of February.

There were 28 members present with three lucky door prize winners.

Welcome to guests: Roger Hewlet

Review of January 14, 2019 minutes: Moved by Larry Bieler and second by Don Perryman to approved minutes as written. Motion carried.

Treasurer's Report: Robert Stroope - gave account balance after income and expense adjustments

Sunshine Report: Chris Chance - no known illnesses.

Northwest Federation (NWF) Report: Kathi Milem - not present and no report.

Newsletter: Chris Chance and Linda Stroope - Keep those articles coming.

Webmaster Report: Denise Sebastian - all is good.

March Rock Show: Kristen Sayles - not present - Laura gave report - Sign up sheet for shifts at the door was passed around. Meetings remaining are February 21 and 28. Pre-set up March 7 for electrical and tables start at 1 PM with vendor set up March 8. Jeff will again be the roaming MC for the Rock Show. The room across the hall will be used this year allowing 8 new vendors to the show. After Show Pizza will be a the Stagecoach Pizza on S 6th St. next to Washington Federal, 5:30 PM.

Club Member Field Trips: Don Perryman went to the Yachats Agate Festival came home with some bendidine (spelling?) jasper from the Baker City area. He passed around the beautiful pieces he purchased.

Club Field Trips: Still need a coordinator. Trips were not discussed.

Potential trips: Hampton Butte or Tuledad; Sunstone claim; Opals; Gold mining; beachcombing in October; Copco or Lincoln agate; Graveyard Point; Yadenite and any other new points of interest member may have.

Old Business: None discussed

New Business: Judy Smith has a Diamond Pacific Genie 6" wheel for sale

Refreshments were provided by: Leroy & Peggy Bieler and Cheryl Lee

Program: Bagging tumbled rocks, painting rocks, mod podging sticker to rocks and assembling mice on "cheese" wedges. A lot was accomplished.

Meeting adjourned: 7:25 PM

Next meeting: March 12, 2019, 7:00 PM at the Klamath County Museum

Respectfully submitted by Cheryl Lee,
Secretary/Recorder

Thunderegg 101

For the public at large, perhaps the most recognizable “rock” is our own Oregon Thunderegg. Since we will be seeing hundreds of people at our show and there will be many beautiful examples displayed, a mini thunderegg course might be a good refresher for some of us.

First of all: Geode vs Thunderegg: what’s the difference? In the simplest terms, thundereggs are only formed in volcanic flows of rhyolite and may *or may not* have voids. They are a specific type of geologic structure. They can be hollow with crystals or solid, with interesting patterns. Any *other* kind of rock that has voids, ie hollow insides, with or without crystals, are geodes. So...it’s the source, a lava flow, not what’s inside, that determines “thunderegg” vs “geode”.

Rock Seeker (www.rockseeker.com) has just published a great article in time for the show This is a GREAT website and the author has graciously allowed us to share bits in our newsletter, incl this photo:



To quote Rock Seeker, to begin, a hollow in a rock must form. This occurs most often when gas bubbles form in the rhyolite lava flow. As the lava cools, a hollow of gas is trapped within the rock. Over thousands of years, small fractures in the rock allowed for the deposition of mineral laced waters to seep into the voids. Eventually, a center core of chalcedony is formed, which is also laced with other minerals, including jaspers and jades. They are most often golf ball to softball size.

But geodes are a lot of fun, too, can have spectacular insides and might be an inch across to a ton—think if the immense cuts of Brazilian amethyst we have all seen. Geodes do not form in just any type of rock—basalts and limestones being the most common. The rest of the process mimics thundereggs, in that mineral laden water seeps into cavities and millions of years later, we could be lucky enough to find quartz or calcite crystals inside. Cavities form in igneous basalt rocks from air bubbles in the volcanic rock, whereas carbonate deposits in sedimentary limestone rock become the home for future crystallization. The pockets in which crystals can form in limestone may have originally began as a volcanic air pocket, as well, but also could have been created by rotten out organic material, such as spaces left by tree roots.

...and while we're on the subject of sparkly things....

A word about drusies / druzies

This article is from Smokin' Stones by gemologist and free-lance writer Sharon Elaine Thompson and appears in Jewelry Artist Magazine back in December of 2008. Her website is sharonelainethompson.com.

Druzy has become so popular that pendants and drilled pieces can be found in the jewelry section of any craft store, including those in Klamath Falls. After all, its really just very fine, sugar-like quartz crystals, comes in many colors and is "sparkly" thanks to the multiple crystal faces *and* can be man-made. The multitude of minerals that were present help determine the color. Also, there are manufactured processes applied to natural druzies to transform their colors into striking, jewelry worthy items. The process is called *vapor deposition* - a process that layers a microscopic film of metal onto the crystal surfaces. One of the most popular is titanium, which transforms druzies into brilliant purple, cobalt blue, teal or rainbows.



Image from Pixabay copyright free images

Next weekend is SHOW WEEKEND!

Due to popular demand for vendor space, the Club has rented an additional room off the wide hallway. There will be signage, but please, at every opportunity, mention this to visitors. Ask if they've visited the additional vendors across the hall. The fact that vendor maps are being handed out this year should help inform visitors, as well.

Welcome new member David Stark of Klamath Falls

Please come to set up day March 8 and to the show so we can all meet you.....*and put you to work* 😊

Hey all!

I'm not a Facebook person but know that a great many of you are. Laura mentioned a couple of groups recently and they have wonderful sites on Facebook definitely worth checking out. Linda S.

See: **NW Rockhounds**
and
Sierra Nevada Rockhounds

Monthly meeting treat list for 2019

These are the members who signed up to bring treats to our monthly meetings and when. Additionally, there is *always* a reminder on page 3 of every monthly newsletter. Jan Don Perryman

- Feb Peggy Bieler & Cheryl Lee
- Mar Ken & Marolyn Davis
- Apr Garwin Carlson & Marshall Curran
- May Cindy Sheridan
- Jun Brian & Clarissa Wade 0
- Jul Sam & Chris Chance
- Aug Brian & Clarissa Wade
- Sept Tom & Cheryl Endicott; Leah Stump
- Oct Robert & Linda Stroope
- Nov Toni & Kurt Phillips



And on the subject of *treats*, don't forget pot luck desserts at the Friday night spaghetti feed March 8, show set-up night. We have fridge access on Friday, before the Keno Lyons arrive

Bullards Beach Rockhounding

Agate, Jasper and Petrified Wood on the Oregon Coast

By Barbara Caswell

During the winter months, there aren't many places Rockhounds can go to look for rocks, petrified wood, or fossils; parts of the country are locked in winter's icy grip and snow covers many collecting areas. The southern Oregon coast, however, is abundant with nice rocks to be found. As well as some interesting and unusual varieties of petrified wood, such as myrtle wood and other agatized or opalized pieces, and fossils. My husband Karl and I recently visited a wonderful beach and had so much success collecting that we returned twice in one month.

Oregon has approximately 360 miles of Pacific Ocean coastline, and because the ocean moderates our temperatures, we rarely have a freeze along the water's edge. Collecting on the coastal beaches is definitely a year-round event, enjoyed by locals and visitors alike.

[Bullards Beach is located about 100 miles north of the California border on US 101, the Coastal Highway. The nearest pass from I-5 is Route 42, from just south of Roseburg over to Bandon. [An on-line reservation State Park is located just north of the Coquille Bridge. The park offers plenty of parking, good beach access and nearly 200 camp sites plus 13 pet-friendly yurts and a horse camp. A full hook-up site is only \$31.] If bluff climbing is not your thing, the farther south you drive at the beach, the lower the bluff and you can park quite close to the sand where it's quite flat.

Although we were not certain what we would find when we began searching for the rocks on that first trip, we quickly got the hang of it and began to find scallop shell fossils immediately. Lesson #1 was to bring a stick or garden type tool along to flip over rocks, avoiding constant bending over. Rule #2 was to take an assortment of bags & pails—you'll need them! Lesson #3—take along extra pants, shoes & socks if you plan to collect at the waterline. [And latex gloves = wetsuits for your fingers, especially warm with fingerless gloves to protect the remainder of your hand.]

The jasper on this beach is really beautiful, especially the red and yellow varieties with pieces of good size and some of the patterns in them are gorgeous. Most of the petrified wood that we found was either black or yellow; some was agatized and/or opalized. They varied in size from golf ball size to over a foot long and 8 to 10 inches in diameter. I found a flat, yellow rock with what looks like fern or other leafy patterns embedded in it.

[The author recommended Jim's Gems/Robbin's Nest RV Park on Hwy 101 but I could not verify that it is still open with an Internet search. Ed.]

Back at home, we sorted and cleaned our specimens. The petrified wood, black or black and tan, is said to have been colored from an ancient forest fire. Would it polish? Yes, and very nicely. Bullards Beach is a great place to spend the day for the serious collector or the family.

Barbara & Karl Caswell, formerly of Gold Beach, now reside in Michigan where the author is not overly fond of the climate. She has an Etsy store, Mother Natures Stash— check it out.: <https://www.etsy.com/shop/MotherNaturesStash>

GOLD RUSH WORD SEARCH PUZZLE



ALASKA
AMERICAN RIVER
ASSAYER
BOOMTOWN
CALIFORNIA

CLAIM
FORTY-NINERS
GOLD DUST
KLONDIKE
MINERS

NUGGET
PANNING
PLACER
PROSPECTOR
RIVERBED

SHOVEL
SIERRA NEVADA
SLUICE
SUTTER'S MILL
YUKON



A BIG thank you in advance....

to all of you members and vendors who will be donating something wonderful to our raffle case this year! Chris Chance & I will again be tending the raffle booth and will be shamelessly nagging for donations on Friday so we can have our case set up before show time on Saturday. Our tables are beneath the florescent green "raffle" signs near the public entrance and are covered with lime green toppers and purple skirting.

Please, please, please do not leave anything loose on the table unattended, as we had a missing item last year. I will leave bags, 3x5 cards for your name/business name (or leave a business card) and a box after we leave on Friday night, if you've not already given us something.

Linda Stroope & Chris Chance



FOR SALE:

Pacific Genie - used grinding wheel

For information: Judy Smith

541-810-1134

**3851 Grenada Way—Homedale to east
on Harlan, left on Grenada Way**

Look at this outdoor rug made from rocks!



Reprinted from the Arkansas Rockhound News,
By Rob Bates from the 2/25/16 Cutting Remarks, JCK magazine,
With photos courtesy of Yianni Melas

The Story Behind the new Gemstone: Aquaprase

The gem that stumped even a noted gem lab is all new and all natural...



Two years ago, veteran gem explorer Yianni Melas was doing some work at an African location—he doesn't want to say where, so the area is not overrun. Geologists had dismissed the locale, convinced it held only some few stray opals. Locals didn't think much of it either, but

when Melas went to a friend's hut, he saw an interesting specimen on a shelf that looked like he nothing he had ever seen before.

"I knew it was something unusual," he said. "The stone was in really bad shape, and you could only see a little bit of blue-green inside. But when I put my light to it, it changed color. It went from blue-green to yellow-green. I thought: Where does this come from?"

"I couldn't explain why I thought it was different," he adds. "It is like a third eye. I have seen thousands of stones and you get that feeling. When I picked up the stone, I had the chills, a funny feeling. That feeling is something you have to follow."

When he dug a trench in the area, he saw it held a lot of this type of this gem (as well as opal).

But nobody knew what the gem was—including

other gem experts. Some called it a blue-green opal. Most said it chrysoprase. Others dubbed it chrysocolla. He was convinced it was neither.

So for the final word, he sent it to the Gemological Institute of America.

"I heard nothing for three months," he says. "Then I got a phone call that said we found something incredible. It's not a chrysoprase. It is not a chrysocolla. It's a chalcedony that has never been discovered."

"That is when I started jumping up and down," Melas says. "It wasn't just because it was a new gemstone. It took so long for us to get it truly identified. This material had stayed secret for the centuries. It was like, it wanted to be discovered but stayed elusive."

The GIA's report dubbed it a "bluish-green chalcedony" and concluded that it was "a new and welcome addition to the gem trade." It was so new, in fact, it didn't have a name. Melas settled on "aquaprase"—aqua for the blue sea, which the stone evokes; prase for the green.

GIA did a lot of testing to make sure the gem was not treated or chemically altered in any way. Melas plans to sell it that way.

"I want to keep it natural, so it is not full of treatments, not even a drop of oil inside," he says. "We don't even put wax on the final polish. Our industry needs a breath of fresh air. It needs something that is completely made by God."



Aquaprase, cont'd

He has since set up an actual mine to excavate the material, which, as far as he knows, has never been discovered anywhere else. He has identified two different types: One that is blue-green and translucent and the other that is more "baby blue" but changes color and has clouds. He adds that while gem dealers typically buy the



top 5 percent of mine production, he has opted for a more miner-friendly policy. He now purchases all the gems that came out of the ground.

"When I first showed it to

the gem dealers, they said, What are we going to do with the material with matrix [parts of the surrounding rock]?" he says. "But there is a market for turquoise with matrix. The color of aquaprase is like a more transparent turquoise. And, in fact, when I gave my friends a choice between the clean material, which is absolutely gemmy, and stuff with the matrix, they chose the stuff with the matrix. They felt it had more character. It looked more natural."

He believes the matrix material will have a market.

"This is an experiment, saying you don't have to cream the material, you can find a market," he says.



"We took one gem crystal and instead of trying to match it after we cut it, we

sliced in half so both sides are a mirror image. The matrix on one side matches the matrix on the other. It's very, very good for earring sets. The matching matrix actually adds to the beauty. Everything today is dyed and homogeneously. But people know immediately this material is natural because each piece is unique. Every piece is unusual."



Editor's Corner

Let's hope everyone who attended the February meeting had fun and enjoyed getting together. I had not remembered having a workshop at the regular meeting since Leah and I made critters for the then upcoming Rock Show.

This is the time of the year when doing indoor projects even if it is just looking at collections and calling it a field trip out of the weather. We all can learn something especially if we can see first hand.

It is getting time to get out your Red T shirt and your friendly smile to put on for the crowds that will be attending our annual Rock Show for Fun and Games.

Chris Chance, co-editor email chrischance38@msn.com

Thinking ahead a bit...Todd & the Museum involves us in the annual Yadenite hunt, usually mid-July. We noticed last year that the City had not disked the ground in a long while, making it very difficult to scratch through webs of weeds & grass and not much fun (my opinion anyway). Any ideas about how we might entice the City to churn that ground? Let's discuss with Todd & go from there.

Don't forget Friday night spaghetti hosted by RAC...plus POT LUCK desserts. Keno Lyons Club will provide a low cost, excellent dinner on Saturday night + low cost excellent breakfast on Sunday.

Linda Stroope, co-editor email stroopemail@gmail.com

Some upcoming shows:

March 30-31 Sweet Home 71st Ann'l Rock & Gem show
At the High School Gym on Long Street

April 6-7 Roxy Ann Gem & Mineral Soc 64th Ann'l show at
the Jackson Co Expo Center.

Also April 6-7 Springfield Thunder Egg Rock Club show at
Willamalane Adult Center on C Street.

April 19-21 Willamette Agate & Mineral Soc "WAMS" annual
show at the fairgrounds in Rickreal. A good show ; their 64th
annual

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 & new ideas.