

Return Bulletins to:
Dusty Rocks
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OFFICERS & EXECUTIVE BOARD



DUSTY ROCKS

Rock and Arrowhead Club ~ Klamath Falls Oregon



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

NFMS Delegate: Alyssa Carnes

Member @ Large: Marvin Stump

The club mailing address is:

PO Box 1803, Klamath Falls OR 97601
www.klamathrockclub.org
nicee1214@gmail.com

Committee Chairs

- Sunshine.....Chris Chance
- Program.....Kristin Sayles
- Greeter/Door Prize.....
- Refreshments.....Chris Chance
- Historian.....Don Perryman
- Librarian.....
- Claims Rep.....Garwin Carlson
- Field Trips.....Marv Stump
- Black Light Display.....Marshall Curran
- Show Chair.....Garwin Carlson
- Asst Show Chair.....Marvin Stump
- 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

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

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

Newsletter Editors

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

Visit Us At www.klamathrockclub.org
Please e-mail nicee1214@gmail.com to 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.

From the President...

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Fellow Rockhounds,

Only one month left until our show in March. We appreciate all the people who have stepped up to help. It is a pleasure to work with such a good group of people. Our theme "Fun with Rocks" will lend itself to a variety of displays to show our various talents. We have a very nice group of vendors at the show. Tell your family and friends about our show, March 11 & 12 at the Klamath county fairgrounds main exhibit building.

We are always needing volunteers, please consider spending a couple of hours helping make our show a success.

Rock on!!!!!!

Your President,

Laura Limb



NEXT MEETING:

Monday February 12, 2018

7 pm

Treats: Ken & Marolyn Davis

Coming up!!

Rock & Gem Show

March 11 & 12, 2018

Klamath Country Fairgrounds

Also: Feb 16-25, Indio CA annual show

Feb 17-18, Mesa, AZ annual show

Feb 23-25, Portland, OR @ OMSI

Happy Birthday

- Garwin Carlson
- Tommy Wells
- Marshall Curran
- Lauralie Barrett
- Audrey Collins
- Bob Massey

Please help us update the birthday list



philipmartin.info

Rock and Arrowhead Club
Klamath Museum - General Meeting Minutes
January 8, 2018 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 January.

There were 30 members in attendance. Three door prizes were drawn - the lucky ones were: Cheryl, Bob and Bruce.

Welcome to guests: Barbie Murphy and Mike Hiatt of the Klamath Rockers.

Sunshine Report: Chris Chance - no known illnesses etc requiring cards.

Review of November, 2017 minutes: LeRoy Bieler moved and Robert Stroope second the motion to approve minutes as submitted. Motion carried.

Treasurer's Report: Leah Stump - gave account balance after income and expense adjustments.

Northwest Federation (NWF) Report: Kathi Milem - not in attendance. Membership advised to continue to monitor the Monument issue and to know where you are when you venture out for rocks.

Newsletter: Chris Chance and Linda Stroope - Great Job, Ladies!

Webmaster Report: Denise Sebastian - behind on updating. Chris and Linda requested editor access to website, Denise will set them up for this.

March Rock Show: Marv Stump - Everything is moving along well. Display case application are available on the website. The door sign up sheet was passed around.

Klamath Basin Home Builders Assoc. has moved the Home Show date to the same weekend as the Rock Show. They have asked if RAC would partner with them on a Main Street banner. Barbara Massey moved that RAC look into the banner, Robert Stroope second the motion. A discussion followed on the cost and benefits of having the banner. Vote was called, motion did not carry.

The charity chosen is Project Spirit.

Barbie and Mike of the Klamath Rockers gave an overview of their organization. They paint rocks and hide them in parks everywhere. The people finding the rocks are to post when, where and/or comments on Klamath Rockers' Facebook page. The Klamath Rockers will have a booth at the Rock Show at the Kid's Activity area.

Club Member Field Trips: Denise Sebastian - Crater Rock Museum and Chetco River's Social Security Bar, where she found lots of rocks and collected red, purple and green jasper.

Mark Fisher - found a 300 pound red rock he is determined to bring home.

Tom Endicott recommended an April/May trip to Graveyard Point.

Club Field Trips: Marv Stump - nothing to report at this time.

Old Business: Those who have not paid their dues this month, January, will be taken off the newsletter list. Please pay your dues.

Continued...



New Business:

*LeRoy has been in touch with Larry Phillips - Larry is planning to come to the March Rock Show with his grandson and a pickup full of rocks.

*Executive Board Meeting - will be in January with date pending at Klamath Museum. This is a planning meeting for program topics, December party, review of By-Laws .

*Audit of books for last 6 months to be arranged by Kristin Sayles.

*Leah Stump is transitioning from treasurer to membership coordinator.

Service Plaques - Marv Stump distributed plaques to all prior office holders. An honorary plaque will be made up for Larry Phillips. Those handed out at the meeting:

Marshall Curran	Vice President 2011 - 12	Marolyn Davis T	Treasurer 2016
Tom Endicott	Vice President 2016	Cheryl Lee	Secretary 2016 - 17
Leah Stump	Treasurer 2017	Denise Sebastian	Treasurer 2013 - 15
Laura Limb	Treasurer 2011 - 12	Kristin Sayles	Secretary 2014 - 15
	President 2013 - 14 & 2017		Vice President 2017

Those not present:

Alyssa Carnes	NWF Delegate 2006 - 17	Kathi Milem	NWF Director 2008 - 17
Jeff Eastburn	President 2010 - 12	Allen Hart	President 2015 - 16
Lacey Jarrell	Newsletter Editor 2016 - 17		
Doris Newnham	President 2006 - 9; Vice President 2013 - 14		

Refreshments were provided by: Chris & Sam Chance and Linda & Robert Stroope

Refreshment sign up sheet for 2018:

February	Ken & Marolyn Davis	March	Mark Fisher
April	Marshall Curran & Garwin Carlson	May	Jerry & Averil Anderson
June	OPEN	July	Tom & Cheryl Endicott
August	Barbara Massey	September	Leah Stump & Kristin Sayles
October	Cheryl Lee	November	Denise Sebastian & Laura Limb

Program: Marshall Curran - Identifying rocks and minerals - MOHs hardness scale

Meeting adjourned: 7:47 PM

Next meeting: February 12, 2018, 7:00 PM at the Klamath County Museum

Respectfully submitted by
Cheryl Lee,
Secretary/Recorder

FIELD TRIPS 2018

“WHERE DO WE WANT TO GO?”

By Marv Stump

Our field trips fall into ones that we can do in a two or three day time period; Sunstones, Hampton Butte, Tuledad Canyon, Lassen Creek/Davis Creek, Virgin Valley, and the Klamath Prospectors gold claims north-west of Yreka. **Or trips that require four, five, or more days:** McDermitt, Rye Patch Reservoir, Graveyard Point/Succor Creek, Texas Springs (northeast Nevada), and there are many more choices that the club has never gone.

At the January meeting Tom Endicott mentioned going to Graveyard point in April or May. Let's chat about this at the February meeting. Tom knows how to get there, and after getting there where to collect. This sounds great to me, Leah and I have wanted to do this area. This is more than a weekend trip.

We need to be thinking about where we want to collect rocks in 2018. We need to make decisions at the February meeting for at least Memorial weekend, and the rest of the summer at the April meeting. Traditionally, Hampton Butte or Tuledad Canyon has been the Memorial weekend choice.

New places would be welcome. There is a fee dig, the Lucky Strike Thunderegg Mine northeast of Prineville, and there are other places in the Prineville area that I'm not familiar with. Some of the rock books show many places around Fallon, Nevada, maybe some of our members know about them. If members know of other places please bring them up for discussion at the meeting. You can also review the article in the January newsletter, "Field Trips in Review 2017", for locations that we have gone to in the past.



Lassen Creek outing 2017



KLAMATH ROCK AND ARROWHEAD CLUB GEM AND MINERAL SHOW

2018 Show Theme
Fun with Rocks
March 11 & 12 2018
Main Exhibit Building
Klamath County Fairgrounds
3531 6th Street

Application for Display Cases

Name: _____ Phone: _____

Address: _____

Club Affiliation: _____

Type of Display: _____

E-Mail: _____

I will Need a Case: _____ (4'X 2'X 2') Total Amount of Cases Needed: _____ (one 8' case please call to check if available)

I am Bringing My Own Case: _____ Total Amount of Cases: _____ My Case is ___X___X___

Please call ahead of time if you need special accommodations.

Electricity is limited to 150 watts per case. Exhibitors are to furnish their own Risers & Liners.

Setup time starts Friday March 10th from 10:00 am to 8:00 pm.

Displays need to be completed & ready for show to open at 9:00 am Saturday March 11h.

Show Hours are Saturday, March 11h 9:00 am to 5:00pm. Sunday, March 12th 9:30 am to 4:00pm.

The Klamath Rock & Arrowhead Club, its officers and appointee will not be responsible for any accident of loss that may occur to any exhibitor, his/her agent, or equipment at the show. Presentation of this ENTRY shall be deemed acceptance of this rule.

Exhibitor Signature: _____ Date: _____

Are you a first time entrant _____ or a returning entrant _____?

Return to: Denise Sebastian
PO BOX 1803
Klamath Falls, Or. 97601

Please return by February 28th, 2018. For more information call Denise @ 541 331 1378 or Email nicee1214@gmail.com



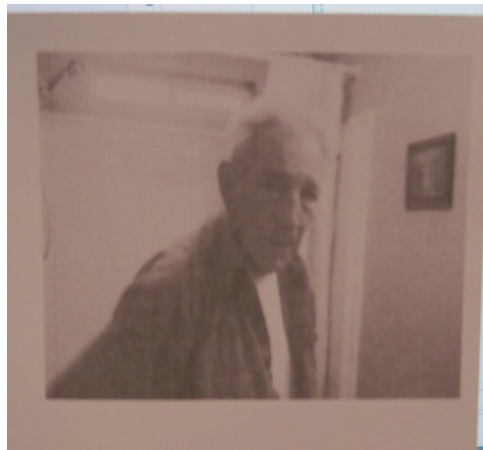
Spotlight on Tommy Wells

A local kid, Tommy Lee Wells was born in Lakeview on 2/10/34 (happy birthday!), moving to Klamath Falls for 3rd grade. High school years saw him at Roosevelt and Klamath Union, followed by Oregon Tech and OSU. A stint in the Army followed at Ft Bliss, where he met and married Millie, a spunky Texan girl, in 1959. More college at Texas Western in 1964, which was followed by a posting at the Nike Zeus Missile range in the Marshall Islands. After this, Tommy became employed as a geologist by the oil companies and a long career of international travel began for the couple.

Travels included Queensland, Australia with Millie and station while Tommy explored the Outback. Then snakes, spiders and the like. Travels continued to Alaska for 1 1/2 years, and Lima, Peru. While in Peru, an infant baby boy was left on Wells a family of five. Peru was a dictatorship at the "connections", it took 9 months of wrangling to make the family was then able to return to the US, to Houston &

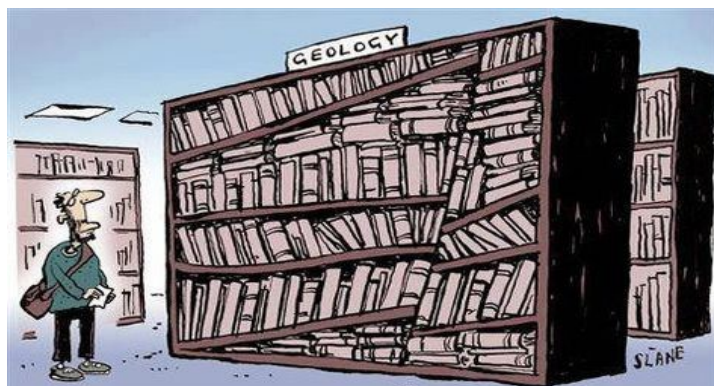


the family living on a cattle Madagascar. Think rainforest, ka for 1 1/2 years, and Lima, their doorstep, making the time and eventually, with the adoption legal. The San Antonio for several years.



Since 2005 Tommy and Millie have resided in Klamath Falls and have a lovely home on 5 acres near Keno, shared with a dog and a couple of cats.

We are lucky to have Tommy as a member of our club, to say the least. In addition to occasional presentations at club meetings, Tommy is always present at the Yadonite outings, this year tentatively scheduled for July 14. Tommy showed us some examples at the January 2018 meeting *given to him as a kid by John C Yaden, himself.*



DUGWAY GEODES

Yes, it takes some effort to get there, and it's best to get permission and pay a fee— but Utah is heaven for rock hounds and all things dinosaur and petroglyph.

To the digs: From the intersection of 800 North and I-15 in OREM,

- *drive north on I-15 for 6 1/2 miles to exit 278
- *LEFT at exit (West) onto Pioneer Crossing
- *drive another 6 1/2 miles and turn right (North) onto Redwood Road
- *Go 1 miles to Main St/Hwy 73 and turn left (West) at the light
- *Follow Hwy 73 for 21 miles thru Eagle Mtn, Cedar Fort, Fairfield UNTIL the road starts to turn back northwestward
- *TAKE the left (West) toward the town of Faust for 13.6 miles, crossing RR tracks and eventually running into Hwy 36, which runs North to South
- *LEFT (South) on Hwy 36 for .6 miles, then RIGHT (West) on-

Rockhoundingutah.com has good information as well; more pictures plus the above directions.



Dugway's geodes are primarily white in outward appearance, bumpy as geodes usually are. Inside, these geodes are company hollow and full of chalcedony and druzy quartz crystals, with clear, white, pink and purple most common. The Crapo family,

who also own the U-Dig trilobite pits in Delta, owns a claim on this land and offer help, directions and with a call ahead, you might be able to time your visit with one of their own to the site. They own & operate the Bug House, a rock shop in Delta www.thebughouse.net. Their phone number is 435-864-2402. This would be the place to start, pay the fee, possibly get better directions and sign their waiver.

This one belongs to Chris Chance (sorry not a great picture)



These belong to the store/claim owners



Robert & I have visited their U-Dig trilobite site and found them helpful and the site well maintained. Comments on-line state the geode beds are also well maintained with an excavator on site. —editor

Rock Hounding in the 21st Century

By Rick Mauer

Clackamette Mineral & Gem Club

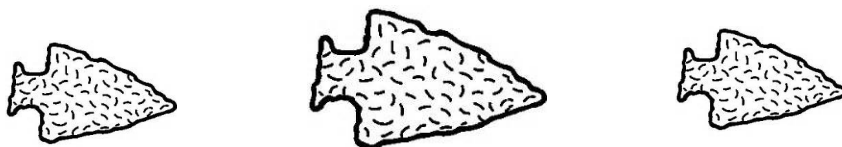
We in the northwest are blessed with the ability to rock hound in the traditional way, i.e. personal or organized field trips to gather the rocks, fossils, minerals & crystals we prize from Mother Nature herself. Though these opportunities still exist, it is becoming more and more difficult to fill out a collection or acquire the fine lapidary materials of days gone by.

There are still limited supplies of these materials available from shows, dealers, auctions, swaps, estate sales etc. but there is one special source that I would like to talk a little about. I am referring to the large legacy of materials in the hands of our veteran rock hounds, and some aspects of acquiring them.

I know this is a pretty heavy topic for a rock club website, but I have not seen it in print elsewhere and feel it needs some attention. This is a difficult subject to discuss because unlike taking a rock hammer to a mountain, it requires gentleness, tact, diplomacy and caring.

Unlike the mountain, you are dealing with real people and entering into, if only briefly, their lives. These rocks, fossils, minerals & crystals in some ways represent their passions, loves, adventures, discoveries and accomplishments. They contain memories, fond and sometimes bittersweet, and are often intermingled with memories of friends and loved ones who may or may not still be with them. These rocks often have special meaning which may be entrusted to you like a keepsake. Some items will be given or sold to you to steward till you no longer have a place for them in your life at which time you are expected to find another steward.

These opportunities arise because as we all go through life, circumstances change. This sometimes means downsizing and in the case of rock hounds this may include rocks. If you are lucky enough to be involved in one of these downsizings I would like to offer a few observations and suggestions.





"You know, I used to like this hobby. ... But shoot! Seems like everybody's got a rock collection."

1 Remember, you are dealing with people, the rocks are secondary. Take the time to visit. There's no rush. Enjoy their company. Listen carefully to their stories, anecdotes and insights. You will be amazed at what you will hear and will come away wiser and richer for it. It takes a special class of people to love a rock or rock person and this is a wonderful opportunity to observe how this mind set has weathered the course of time.

2 Be patient and understanding. This is their collection and it is up to them as to how and when if at all, to dispose of it.

3 Be discreet. Oftentimes you will become privy to personal facts and details. If those who have divulged them to you want them to be common knowledge let them take care of it.

4 Be trustworthy. If you come upon a collection with certain conditions attached and you are unwilling to see to it that these conditions are met, decline the offer and find some club or individual who will.

5 Because of the special nature or circumstance of some material you may have to prove your worthiness. This is sometimes the overriding issue, even eclipsing money. Answer all questions honestly. The owner may be looking for special handling or appreciation or some unique aspect of the collection and has every right to feel his or her wishes will be met.

6 If a financial sum is involved and you cannot, even through partnering afford the price, be honest and pass on the offer. It is cruel to talk down or discount the value of a collection of some-ones prized possessions. If they wish to lower the price, let them initiate changes if any.

7 If all goes well and an agreement is arrived at, don't be greedy. Often some prizes are kept by the owner. Let them go gracefully and with your good wishes.

8 If after you have obtained the material you find some items don't interest you, recycle them back into the hobby through trades & swaps, sales or outright gifts to friends, club members or the club itself

In closing I would like to thank-you for reading this article. I wish to apologize if I have sounded preachy or dogmatic. My only intent is to add a little perspective to one very special form of rock-hounding and possibly start some dialog on this subject.

President Laura is a beach agate fan and was scheduled to attend the Agate Festival at Yachats last weekend. The beach at Yachats isn't sand, but is gravel bed and THE place for agates. It was their 6th annual festival and I'm anxious to hear how it was and hope to go next year, so the discussion below focuses only on beach agates. ed



Agates are a favorite semi-precious stone that most seasoned beach combers hunt for while exploring a beach. They are found throughout the Pacific Northwest and most of the U.S. in different shapes, color, banding and opacity. Of all the beautiful stones found on a beach, agates are typically the most beautiful and prized. My guess is that many of us first started our love of rocks at the beach.

What actually is an agate?

Agates are semi-precious gemstones that are a variegated form of chalcedony, which is silicon dioxide in the form of microscopic fibrous quartz crystals. Agates naturally develop when an empty pocket inside a host rock fills in molecule-by-molecule, layer-by-layer as these microcrystals self organize to form concentric bands or other patterns. The colors and arrangement of the microcrystals are influenced by changes in pressure, temperature, and mineral content that occur during the formation process. Unlike other gemstones, each agate is unique. Even slabs cut from the same specimen will vary in color and design.

How are they formed?

Agates develop as secondary deposits in hollow cavities (vesicles). Although they can form in all types of host rock, most of the world's agates developed in ancient volcanic lava. When the continents were first forming, layers of molten lava pushed toward the earth's surface through rift zone cracks, volcanoes, and other geologic events. Within the lava, there were pockets of trapped gases. Later, these gases escaped through cracks that formed as the igneous rock cooled and hardened, leaving hollow cavities. Other cracks and seams also formed when adjoining sections of lava cooled at different rates.

These empty cavities and seams filled with fluids rich in dissolved and suspended quartz molecules (silica), as well as other mineral impurities. When the silica concentration became supersaturated, it developed a gelatin-like consistency either throughout the pocket or in a layer that served as the active crystallization front. Over time, the silica molecules began to form miniature fibrous microcrystals that attached to the sides of the cavity or seam. During the filling-in process other mineral impurities collected at the inside of the chalcedony silica band, forming intervening and often contrasting bands. This pattern repeated until the entire vesicle was filled in, or until all the silica rich solution was used up. If there was the proper balance of silica and mineral impurities, then the entire cavity filled with alternating bands. If there was an insufficient quantity of mineral impurity or if the pressures and temperatures changed, the cavity completed filling in with macrocrystalline

Quartz or another form of silica.

Needless to say there are thousands of different names given to agates found throughout the world. Sometimes agates are named because of their formation type, such as a fortification agate. In other cases, they are named after the location in which they are found, such as the Lake Superior Agate.

Agates are harder than the other quartz, jasper & granites found on the beach, so like to resist tumbling. Look for translucence, colors & banding (layering). These are the predominant types of agate found on our Pacific NW beaches:



Seam Agate - These agates form in cracks within host rock, rather than in rounder pockets or cavities. The bands form in parallel rows that follow and fill in the crack or seam.

Fortification Agate - This is the most common and distinctive type of agate. In these agates, bands crystallized into concentric layers that more or less follow the shape of the cavity. So named because the banding is thought to resemble an aerial view of a fort.



Geode Agate - well all know these well. The supply of silica rich water ran out before the cavity filled in. Not all geodes have agate banding, but many do.

