

**Return Bulletins to:  
Dusty Rocks  
P.O. Box 1803  
Klamath Falls OR 97601**

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**Bulletin article submissions or inquiries, contact Editor, [editor@klamathrockclub.org](mailto:editor@klamathrockclub.org) Address change or questions, call Denise, 541-331-1378, or e-mail [nicee1214@gmail.com](mailto:nicee1214@gmail.com)**

**Dusty Rocks  
February  
2016**



**ROCK AND ARROWHEAD CLUB  
P.O. BOX 1803  
KLAMATH FALLS, OR 97601  
[www.klamathrockclub.org](http://www.klamathrockclub.org)**

# OFFICERS & EXECUTIVE BOARD

**President:** Allen Hart, 541-884-0935, 14014 Ravenwood Dr., Klamath Falls, 97601

**Vice President:** Thomas Endicott, 541-884-1402, 16414 Keno Worden Rd., Klamath Falls, 97603

**Secretary/recorder:** Cheryl Lee, 503-867-4112, 2226 Applegate Ave., Klamath Falls, 97601

**Treasurer:** Marolyn Davis, 541-882-4354, 3443 Lindberg St., Klamath Falls, 97601

**NFMS Director:** Kathi Milem, 541-892-7371, 4045 Altamont, Klamath Falls, 97603

**NMFS Delegate:** Alyssa Carnes

**Past President:** Allen Hart

**Member at Large:** Marvin Stump

**Club mailing address:**

P.O. Box 1803, Klamath Falls, Ore., 97601  
www.klamathrockclub.org  
nicee1214@gmail.com

**Rock and Arrowhead Club meetings** are held at the Klamath County Museum Meeting Room @ Main and Spring Street, using the **West** entrance. Meetings are held on the 2nd Monday of each month at 7 p.m., with the exception of December when we have our Christmas Luncheon and Party and after the March show.

**Visitors are cordially invited:** Dues are \$13.50 per year, per adult, and \$7.50 for ages 16-18. Families can join for \$25, plus \$1 per child.

**General club objectives:** To promote popular interest, knowledge and understanding in earth sciences, such as geology, mineralogy, paleontology, 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.

## Committee Chairs

- Sunshine ..... Chris Chance
- Program ..... Doris Newnham
- Greeter/Door prize .....
- Refreshment ..... 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 ..... Jeff Eastburn
- Webmaster ..... Denise Sebastian

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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 Editor**

Lacey Jarrell: 541-401-4652  
lacey.jarrell@gmail.com

Visit us at [www.klamathrockclub.org](http://www.klamathrockclub.org)

Please e-mail [nicee1214@gmail.com](mailto:nicee1214@gmail.com) to get on our e-mail 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 member.*



# DUSTY ROCKS

~ Rock and Arrowhead Club ~ Klamath Falls, Oregon ~



## *From the President*

Club Members,

The rock show is almost upon us! The time has come to step up and volunteer to our premier event of the year. The show committee is a well-oiled machine that always comes through with a great event but the need for help is always there. Even if you only have a small amount of time please consider coming to help with many of the activities. The next show committee meeting is Feb. 11. After that, it's the 25th then March 4 before the show starts on the March 12.

At this time all meetings are at the Museum at 6 p.m.

It's a great time at the show and really shows off what we have as an organization.

Sincerely,  
Allen



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***Next meeting:*** March 14, 2016, @ 7 p.m.

We will have a special program featuring:  
To be announced

***March refreshments:*** Ken & Marolyn Davis



## Meeting Minutes for Jan. 11, 2016, 7 p.m.

The meeting was called to order by President, Allen Hart, at 7 p.m. Followed by salute to the flag, led by Allen Hart.

December and January birthday greetings.

Three door prizes were drawn - Cheryl Lee, Denise Sebastian & Leah Stump.

Welcome to guests - No guests were present.

New club officers were introduced:

President - Alan Hart

Vice President - Thomas Endicott

Treasurer - Marolyn Davis

Recorder - Cheryl Lee

NW Federation - Kathi Milem

Review of the minutes - moved by Leroy Bieler and seconded by Laura Limb to accept the minutes for Nov. 9, 2015, as submitted. Motion carried.

Treasurer's report - Denise Sebastian gave the report for the month of December.

Northwestern Federation (NWF) report - Kathi Milem reported that our ad was in the NWF paper. She also reported that due to the sage grouse, there are mining restriction being reviewed for claims in the grouse habitat. E-mails were sent to the membership regarding this issue and responses were requested.

Upcoming shows - None.

Sunshine report - Chris Chance reported that Barbara and Bob are recovering and cards were sent.

2016 March Rock and Gem Show - Marv Stump reported - a list of meeting dates have been posted in the newsletter. A sign up sheet to work the front door ticket sales was circulated. Fairgrounds has increased the rental fee for the buildings, tables and chairs. The dealer fees may need to increased. All but two of the dealers from

last year will be returning. Next meeting is January 14 at 6 p.m. at the Klamath Museum.

Webmaster report - Laura Limb reported that each members password was due to be updated.

Newsletter - Allen Hart reported on Lacey's behalf that the monthly newsletter had been submitted.

Club member field trips - None.

Christmas potluck - Alan Hart reported that the potluck went well and was well attended. The food was great and everyone seemed to enjoy themselves.

Program by Tommy Wells - Topic: Points of Geologic Interest Located In and Around the Klamath Basin of Southern Oregon and Northern California. Wells presented information on faults, tectonic plate movement and how the Klamath Basin was formed.

Meeting Adjourned at 7:45 p.m. Moved by Allen Hart and seconded by Denise Sebastian. Motion carried.

Refreshments were provided by Allen and Sandi Hart.

A refreshment sign up sheet was circulated: We need someone to sign up for July, September and November.

January: Allen & Sandi Hart  
February: Chris & Sam Chance  
March: Ken & Marolyn Davis  
April: Carlson/Curran  
May: Marv and Leah November  
June: Cheryl Lee December Potluck  
July:  
August: Tom & Cheryl Endicott  
September:  
October: Denise & Laura  
November:  
December: Potluck

Respectfully submitted by  
Cheryl Lee  
Recorder

**Executive Meeting of Board of Directors**  
Klamath Museum Meeting Room January 26, 2016, 6 p.m.

Meeting was called to order by President Allen Hart at 6 p.m.

Attendance:

Allen Hart, President; Tom Endicott, Vice President; Marolyn Davis, Treasurer; Cheryl Lee, Recorder; Laura Limb, Past President; Marvin Stump; Members at Large Leah Stump, Ken Davis.

Meeting objectives:

1. Clarify who signs checks for the club bank account.
2. Review the bylaws.
3. Review annual audit report.

The bylaws dated and amended, 2-3-2014, Article VI: Duties of the Offices shows the President, Recorder, and Treasurer as authorized to sign checks for the club. According to the bank forms, the President, Vice President and Treasurer have had authorization to sign checks in previous years. For the sake of consistency, it has been suggested that the bylaws be changed to reflect the previous years signature cards on file at the bank. Cheryl Lee moved that the governing portion of the bank form show the names of the following officers - President, Vice President and Member at Large. The signature card portion would be signed by the President, Vice President and Treasurer and that the bylaws be amended to reflect the change in officer duties. Motion seconded by Marv Stump. Motion carried.

The proposed amendment will be posted on the website and in the bulletin. It will be presented at the next club meeting on Feb. 8, 2016, for approval by the membership. Allen Hart's retirement and relocation to Enterprise, Ore., was discussed and when his replacement would need to be in place. Further discussion was tabled until Allen had a firm relocation date.

The report for the annual audit was reviewed. There were a few purchases that did not have documentation or the documentation was unclear. These were discussed and identified. It is imperative that receipts for all expenses and reimbursements be turned into the treasurer for accurate record keeping and the annual audit.

Next executive meeting will be in April or May.

Meeting was adjourned at 7:30 p.m.

Respectfully submitted by  
Cheryl Lee  
Recorder

# KLAMATH ROCK AND ARROWHEAD CLUB GEM AND MINERAL SHOW

2016 show theme:

**Green Rocks**

March 12 & 13, 2016

Main Exhibit Building  
Klamath County Fairgrounds  
3531 Sixth Street

## Application for display cases:

Name: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_

Club affiliation: \_\_\_\_\_

Type of display: \_\_\_\_\_

E-mail: \_\_\_\_\_

I will need a case: \_\_\_\_\_ (4'x2'x2') 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 if you need special accommodations*

Electricity is limited to 150 watts per case. Exhibitors must furnish their own risers and liners.

Setup is Friday March 11 from 9 a.m. to 8 p.m.

Displays need to be completed and ready for show to open at 9 a.m. Saturday, March 12.

Show hours are Saturday, March 12, 9 a.m. to 5 p.m., and Sunday, March 13, 9:30 a.m. to 4 p.m.

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 March 2, 2016**

For more information, call Denise at 541-331-1378 or e-mail nicee1214@gmail.com.

A spaghetti dinner will be held Friday night at 5:30 p.m.



## UPDATE - 2016 ROCK & GEM SHOW

By Marv Stump

It looks like we are going to have another great show, with approximately five weeks remaining until show weekend when you read this. The second show committee meeting was held January 11, with 12 members attending with three more meetings prior to the show. The dates appear at the end of this article.

All areas have been covered with someone in charge of that area. We need members to step up and volunteer to help where they can in all areas. If you want to help contact the person in charge of the area.

The following is a list of the areas and the person(s) in charge:

**Dealers** – Marv

**Display cases** – Denise

**Demonstrators** – Garwin

**Silent auction** – Kristen & Larry

**Case favors/Awards** – Garwin

**Publicity** (newspapers/radio) – Marv

**Fliers, posters, school fliers** – Tom & Leah

**Raffle drawing/Door prizes** – Laura & Denise

**Security** – Leroy, Marv

**Ticket sales** – Marolyn Black

**Light display** – Marshall

**Show layout** – Garwin

**Kids activities** – Christine, Della, Carol Barrett, Kathy

**Rock dinner table** – Leah

**Electrical** – Leroy

**Show set up/Tear down** – Everybody available

**Club show trailer** – Ken

**Charity** – Kristen, Christine

**Meals/Concession** – Marv

**Insurance/Building rental** – Garwin

The display cases are still a major concern. There are 24 display cases to fill, so Denise needs help in getting people to display. Please step forward and

fill a display case. The club has 24 cases so there is one for you to use. Denise has the applications and there are applications on the club website.

The charity will be the same as last year: H.E.A.R.T. (Horse Enthusiast Adaptive Riding Therapy) will be the charity for the second year in a row. There will be no charity table from which merchandise will be sold, but a table that H.E.A.R.T. will be able to explain the H.E.A.R.T. program. The club will again give a direct donation to H.E.A.R.T. after the show. The amount to be determined by the club membership. Last year's donation was \$500.

The Keno Lions Club will again do the meals and concession, and Kathy will once again create the spaghetti dinner for the Friday evening meal. The last few years, more than 80 people have partaken of Kathy's spaghetti. A salad is also served. Everyone bring your own table service and a small desert. The club charges \$5 per person for the Saturday evening and Sunday breakfast meals and everyone is encouraged partake of these meals. The club guarantees 60 people for the Saturday meal and 40 for the Sunday breakfast. These two meals are first-rate and the proceeds go to all the fine work the Keno Lions Club is involved in.

The posters and school fliers are in the process of being created. Permission has been obtained from school districts and individual schools. Twenty-nine schools will make fliers available to their students.

**SHOW COMMITTEE MEETING DATES:** All meetings will be held at the Klamath County museum meeting room at 6 p.m. on the following dates — Thursday, Jan. 14; Thursday, Feb. 11; Thursday, Feb. 25 and Thursday, March 3.

### Volunteer Schedule to work the door at the Rock Show

#### Saturday

- 9 to 11 a.m.: Don Perryman and Marolyn Davis
- 11 a.m. to 1 p.m.: Allen Hart and Roy Nederbrock
- 1 p.m. to 3 p.m.: Cheryl Lee and Bruce Vait
- 3 p.m. to 5 p.m.: Ken Davis and Peggy Bieler

#### Sunday

- 9:30 a.m. to noon: Cheryl Lee and Leah Stump
- Noon to 2 p.m.: Marv Stump and Marolyn Davis
- 2 p.m. to 4 p.m.: Bob and Barbara Massey

From the Herald and News magazine Klamath Life  
 Story design by Holly Owens

# Klamath Basin geology — changes over the ages

*Ancient lake sediment, volcanic formations evidence of Basin's past*

By LACEY JARRELL: H&N Staff Reporter

Millions of years before the emergence of geologic formations that outline the Klamath Basin, much of the region was covered in an unnamed, high body of water. According to retired geologist Tommy Wells, the lake spanned about 60 miles, east to west, at least 5 million years ago.

Today, the white chalky sediment that was formed from dead aquatic microorganisms settling on the lake bottom can be seen in several of the Basin's exposed rock faces. Wells explained that as oceanic crust in the Pacific Ocean plunged farther under the conti-



H&N photo by Lacey Jarrell

**Ancient lake bed:** Just north of Klamath Falls, near the weigh station, passersby can catch a glimpse exposed lake-bottom sediment. The chalky white sediment is covered by a layer of basalt.

including those associated with the Basin, began emerging. Several cutouts for road right-of-ways have revealed deep layers of lake bottom sedimentary bands now known as the Yonna Formation.

Bright white bands from the ancient lake sediment can be most prominently seen on the west side of Highway 97, north of Collier Memorial State Park.

"That's probably one of the most spectacular displays," Wells said.

Another site on Highway 97 is just north of Klamath Falls on the east side of the highway. The formation is topped by a chunky layer of brown basalt, which was formed as basaltic lava cooled.

ental crust of North America — a process called subduction, occurring along the Cascadia Subduction Zone — mountains and ridges,

ljarrell@heraldandnews.com;

happy  
 birthday  
 to you!

Darrell Atchley  
 Lauralie Barrett  
 Garwin Carlson  
 Robert Massey  
 Triniti Milem  
 Kevin Renslow

## A BASIN GEM & MINERAL SAMPLER

### Sunstone:

The sunstone is Oregon's state gemstone. Oregon sunstones can be found in several locations in Lake County, including the Spectrum Sunstone Mine, a public collection area about 25 miles north of Plush.

Sunstone is a transparent feldspar gemstone, and it is often used to make jewelry. Sunstones can range from pale yellow to orange or red, although other minerals present in sunstones can also make them appear green or blue.

### Obsidian:

Obsidian is smooth stone that forms when lava cools so quickly atoms are unable to arrange into a crystalline structure. Pure obsidian is usually dark in appearance, though it can range in color from brown, tan, green or an iridescent rainbow. The color of obsidian can change depending on how it is cut.

Rockhounds can find obsidian near Davis Creek, Calif., on Highway 395. Obsidian collectors are required to have a free obsidian gathering permit, which can be picked up at the Davis Creek Mercantile.

### Yadenite:

Locally named mixed-color silicate stone formed in an old hot spring area north of Klamath Falls. Yadenite is found in a variety of colors, including jasper, agate and rose. Yadenite pebbles and boulders, some weighing more than 400 pounds, can be found in open areas near the Oregon Institute of Technology and Sky Lakes Medical Center.