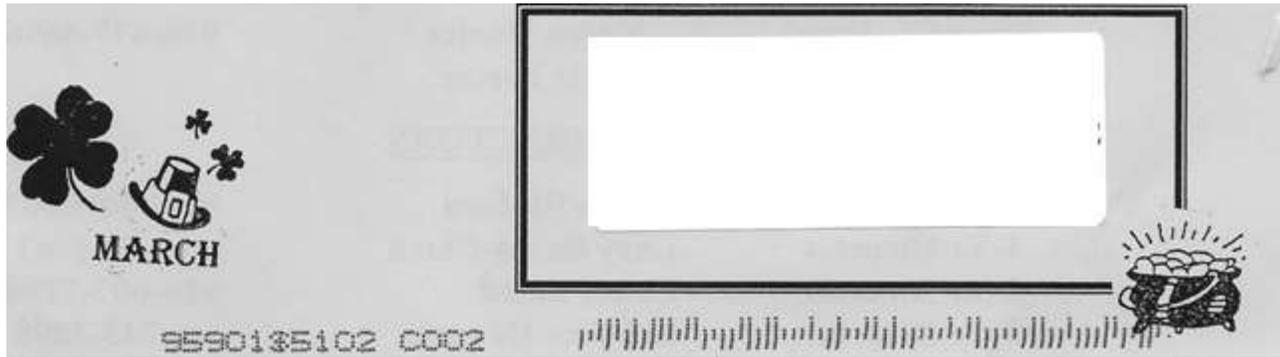


YUBA SUTTER GEMS
P.O. BOX 269
MARYSVILLE, CA 95901-3118



GENERAL EDUCATION MEETING



Thursday, March 28, 2019
7:30 pm
Feather River Baptist Church
5400 Chestnut Road
Olivehurst, CA 95961



SUTTER BUTTES GEM & MINERAL SOCIETY

P. O. Box 269

MARYSVILLE, CA 95901

EXECUTIVE COMMITTEE 2019

	OFFICERS	(Area Code: 530)
President	Larry Baird	916-607-7794
Vice President	Tim Unruh	633-9623
Secretary	Inez Berg	633-4612
Treasurer	Karen Horita	916-677-6696
Bulletin Editor	Carollyn Lutton	823-1917
Field Trip Chairman	Tim Unruh/Gerry Hill	633-9623
Show Chairman	Karen Horita & Liz Foster	916-677-6696

DIRECTORS

Past President	Debra Bluford	916-308-6907
I-Yr Director	Lucy Baird-Clark	743-5561
2-Yr Director	Candi Baird	916-607-7794
3-Yr Director	Rebecca Heverin	743-3808

STANDING COMMITTEES

Federation Director	Inez Berg
Program Chairman	Tim Unruh
Membership Chairman	
Club Librarian	Inez Berg
Junior Director (Rock Stars)	Inez Berg
Publicity	Karen Horita
Historian	
Sunshine Chairman	Carol Nelson 530-673-2146
Hospitality Chairman	All Club Members
Web Site	sutterbuttesgemmin.org

Sutter Buttes Gem & Mineral Society is a member of California Federation of Mineralogical Societies and affiliated with the American Federation of Mineralogical Societies

Exchange Bulletins send to: Bulletin Editor
P.O. Box 269
Marysville, CA 95901

(Club bulletin material should be in-hand of the Editor by the third Tuesday of the month.
Permission to reprint is granted, proper credit will be appreciated.)

DUES: Single - \$20.00
Family - \$25.00

MEETING PLACE:
Feather River Baptist Church
5400 Chestnut Road, Olivehurst, CA 95961
TIME: Executive Board, 4th Thurs, 7:00pm
Education Meeting 4thThurs, 7:30pm

YUBA SUTTER GEMS

March 2019

SUTTER BUTTES GEM & MINERAL SOCIETY

"An All American Club"

FROM THE PRESIDENT'S PEN



Happy St. Patrick's Day, everyone. Thanks once again to Tim Unruh for his presentation on meteors, meteorites, and comets at last month's meeting. At our next meeting, we thought it would be fun to bring our favorite rock(s) and present them to the club.

New on the website (<https://sutterbuttesgemmin.org>) are the Club application and the Club Library List, both downloadable. In addition, we have added a Links page.

A friendly reminder, club dues for 2019 are now due. To remain in good standing, you must pay your dues by March 31, 2019.

Looking forward to seeing all of you at the March 28 meeting.

Respectfully submitted,
Larry Baird



DATE TO REMEMBER

- Mar 28 7:00 PM Business Meeting
- 7:30 PM General Educational Meeting, Feather River Baptist Church
5400 Chestnut Road, Olivehurst, CA
Program: Members bring and explain about your favorite rock!

UPCOMING SHOWS

- 23-24 Mar Roseville Rock Rollers Gem & Mineral Society
Roseville Fairgrounds, 800 All American city Blvd, Roseville HOURS:
Sat 20-5, Sun 10-4
- 27 - 28 Apr The Reno Gem & Mineral Society, Inc
Reno Sparks Livestock Events Center,
1350 North Wells Ave, Reno
HOURS: Sat 10-5, Sun 10-4

DON'T FORGET YOUR DUES ARE DUE AND SHOULD BE PAID BY MARCH 31ST!!!

Dues should be made out to Sutter Buttes Gem & Mineral Society
They can be paid at the meeting or mailed to
Sutter Buttes G&M Soc, P O Box 269, Marysville, CA 95901



BIRTHDAYS FOR MARCH

Birthstone: Aquamarine and Bloodstone

3rd Galen Chaney 6th Virginia Unruh 7th Marianne Sweetwood
21 Eric Sweetwood 22nd Norm Holmwood

Flower — Jonquil

Aquamarine, a beryllium-aluminum silicate, is a clear transparent bluish-green (aqua), blue, or yellowish green. Identical in composition and crystal form to the Emerald.

Possibly the largest precious gem-stone ever known was an aquamarine weighing 220 pounds which was found in Brazil. This giant stone was carried by canoe to the coast and shipped to Idar Oberstein, Germany, where it yielded 2000,000 carats in cut stones.

In ancient times, before the Roman conquests, Greek gem-cutters used the aquamarines in their jewelry. it was the stone sacred to the Roman God Neptune. The stones came by caravans from the Far East and traded by boat around the Mediterranean areas. The ancients believed this stone protected sailors at sea. Nero used a large perfectly cut stone as an eye glass. In the Middle Ages these stones were thought to be an antidote to poison and seasickness. Wearing this stone will help one become quick-witted and increase marital affections.

Bloodstone, called jasper in many books, is actually a clear chalcedony in which the green mossy growths are so minute and so numerous that they cannot be seen except under magnification. The blood-red spots on bloodstone are ascribed to small inclusions of iron oxides which permeate the surrounding dark green material.

In ancient times the name for this stone was "Heliotrope," Since early Christian days, this stonesymbolized Crucifixion. In this context, the bloodstone is often used for rosaries and other religious articles. It is said to give courage and wisdom to the wearer.



OH! WONDEROUS WORLD!

SALT is a wonder. When we think that salt is composed of two poisonous substances, we are filled with wonder. How is it possible that salt, which is a necessity of life, is composed of sodium and chlorine, either of which if taken individually, could kill you? We cannot answer it. It is a **WONDER!**

WATER is a wonder. Its chemical formula is H₂O. That means two parts of hydrogen for one part of oxygen. Oxygen is flammable. Hydrogen readily burns. Unite hydrogen and oxygen into water and you put out the fire with it. Another **WONDER!**

The **ALNICO MAGNET** is a wonder. It is the strongest magnet in the world, and yet is composed of 3 nonmagnetic substances—aluminum, nickel, and cobalt. It cannot be explained. It is a **WONDER!**

vis CHIPS 9/92, The Matrix 2/94, NAPA GEMS 3/09

HARD OR TOUGH?

The words – "Hardness" and "Toughness" are sometimes confused when comparing qualities of gemstones or rough, and there is a great deal of difference.

The Diamond is far the hardest of gemstones — it will scratch, cut or polish any other stone. For example, with a diamond pointed wheel dresser (as used by lapidary workers), silicon carbide grinding wheels could be reduced to dust in minutes. But for toughness, Jade beats it by a country mile. A diamond will scratch and easily cut jade, but a jade hammer can in turn, crush a diamond to powder.

It is the cross-matted structure ofjade that makes it nearly impossible to break. If you drop a solid jade cabochon on concrete and it breaks, you'd better check it out. It may not be Jade!

via Mineralog 12/97, ROCK WRITINGS 2/96

A FRIENDLY REMINDER

DON'T FORGET YOUR DUES ARE DUE

THAT IS \$20.00 FOR SINGLE AND \$25.00 FOR FAMILY

AND SHOULD BE PAID BY MARCH 3 1, 2019



MINUTES, BOARD MEETING — February 28, 2019

The meeting was called to order by President Larry Baird Board members present: Eight
SECRETARY: Motion to approve the minutes of the meeting of January 24th, as printed in the bulletin, was made by Liz and seconded by Lucy.

TREASURER: Since the trailer is used only twice in a year, pulled to town and returned, Karen checked with DMV to see if we could get a lesser rate for licensing fees. She reported we have to pay the full fee plus the \$50 just added to all DMV renewals.

SHOW: One thousand postcards were ordered. Inez asked if the advertising postcard could be sent via internet to each member with an e-mail address.

FIELD TRIP: Suggestions for trips to Mt. Lassen, Gold Bug Mine in Placerville, covered bridge at Bridgeport and a copper mine. Tim will have a trip suggestion next month.

CFMS: CFMS Show at Pomona March 8th and 9th.

LIBRARY: The Library books were installed in their cabinet and book lists handed out.

There being no further business, motion was made by Candi and seconded by Liz to adjourn the meeting.

Respectfully submitted,

Inez Berg,
Secretary

MINUTES, EDUCATION MEETING, February 28, 2019

The meeting was called to order by President Larry Baird. He then led the flag salute.

SECRETARY: Motion to approve the minutes of the meeting of January 24 , as printed in the bulletin, was made by Debra and seconded by Candi.

WEB SITE: Our newsletter has been added to the web site. Larry discussed adding a membership application to the web site.

SHOW: The postcards have been ordered.

FIELD TRIP: Suggestions for trips to Mt Lassen, Gold Bug Mine in Placerville, covered bridge at Bridgeport and a copper mine.

NEW BUSINESS: Discussion on attracting new members. The meetings are advertised each month. Larry will check on cost to have a table at the Peach Festival.

VISITORS: Erik and Debra Anspaugh.

There being no further business, the meeting was adjourned.

Respectfully submitted,

Inez Berg, Secretary



PROGRAM: SLIDE SHOW PROGRAM ON METEORITES BY TIM UNRUH

Meteors in space are meteoroids and meteorites when they land on earth. There are several theories as to how they are formed, from planet break up or planet collisions. Meteorites can be metal, stony or combinations of nickel iron. The odds of a person being hit by a meteorite are one in 300 years. There is a visitor center in Arizona where a meteorite exploded and pulverized. Years were spent looking for remains of the meteorite in the center of the crater, until iron was found 400 feet down under one edge. There are also meteor craters in Canada, Chubb Crater, and one in Tunguska, Russia July 30, 1908 . One over the Tetons on August 10, 1972, caused a sonic boom and is believed to have returned to space. There is also a crater in Namibia, Africa. He also discussed "The Night The Stars Fell" which happened in the south eastern United States and also in Europe.

Inez Berg

* * * * *

Maybe there's a little Irish in most of us... we just look for that "pot 'o gold" in the rivers!

HELPFUL HINT - Felt Pen Ink Removal

Occasionally someone uses a felt tip pen to write on or mark a slab. It usually happens to be the side you wish to polish or make into a cabochon. Felt pen inks penetrate most stones, even agate, and cannot be sanded out. To remove these stains, make a small dike around the area using plumbers putty, saturate a cotton ball with undiluted household bleach, and place the cotton inside the dike, making sure the bleach covers the stained area. Let sit one hour or more if needed. It will remove the stain. Do not leave the bleach on longer than necessary to remove the stain as it may also bleach the color from the stone. Rinse off the bleach and finish the stone in the usual manner.

from Gems of the Redwoods, via ROCTOC

THE DIFFERENT LOOK OF QUARTZ

As a quartz crystal grows under intense heat, traces of other minerals may be mixed among the molecules of silica. Iron oxide or manganese may tint the glassy crystal pink or rose or violet amethyst. Scraps of decayed material may add smoky grays or rich yellows.

A large assortment of other quartz rocks is massed together from microscopic fragments. These are waxy chalcedonies made from tiny crystals ranged in parallel fibers. A trace of nickel oxide makes apple green chrysoprase and a trace of hematite changes the same mineral into deep, rich-red jasper. Other impurities add the colored round rings of agate and the ribbon stripes of onyx. Hydro-carbon from ancient diatoms add the blacks and the dust browns to pebbles of flint.

When water molecules are trapped among the settling molecules of silica, the mixture may form pearly opal. Traces of other molecules in the mixture add the moon glow of a precious opal or the glowing flame colors of a fire opal.

The Roseville Rock Rollers presents

**Gem, Jewelry,
Fossil &
Mineral Show!**

*The 57th
Annual*

March 23 & 24
Saturday 10 am - 5 pm
Sunday 10 am - 4 pm

@ the Grounds in Roseville
800 All America City Blvd. 95678

\$1 OFF ADMISSION with this Card
General Admission \$6 • Seniors 60+ \$5
Kids 12 and Under FREE
Indoor and Outdoor Activities
Rain or Shine
PARKING \$5

60+ Vendors
Family Fun!
Crystals
Minerals
Fossils
Meteorites
Jewelry
Gemstones
Beads
Gold Panning
Kids Gem Hunt
Demonstrations
Mineral ID
Silent Auction
Door Prizes
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