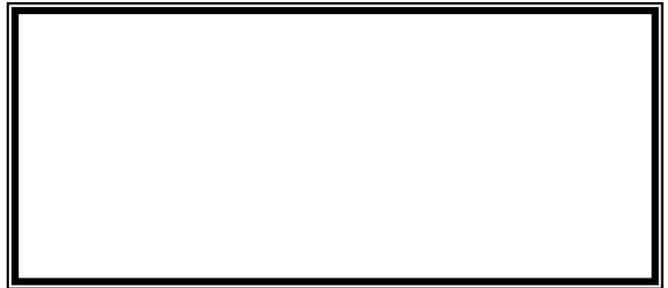




**YUBA SUTTER GEMS
P.O. BOX 269
MARYSVILLE, CA 95901-3118**



GENERAL EDUCATION MEETING

Thursday, April 25, 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	916-607-7734
Vice President	Tim Unruh	633-9623
Secretary	Inez Berg	633-4612
Treasurer	Karen Horita	916-677-6696
Bulletin Editor	Carolyn Lutton	823-1917
Field Trip Chairman	Tim Unruh/Gerry Hill	633-9623
Show Chairman	Karen Horita	916-677-6696

DIRECTORS

Past President	Debra Bluford	916-308-6907
1-Yr Director	Lucy Baird-Clark	743-5561
2-Yr Director	Candi Baird	635-5167
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 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

April 2019 **SUTTER BUTTES GEM & MINERAL SOCIETY** **“An All American Club”**
FROM THE PRESIDENT’S PEN

Welcome to Spring, everyone. Now that better weather is on the way, we can start looking forward to planning field trips. If you have any ideas, please don't hesitate to bring it up at our meeting.

At last's months meeting, some members brought in their favorite rock(s) and presented them to the club. In addition, the postcards for the November show were delivered.

Looking forward to seeing all of you at the April 25th meeting.

Respectfully submitted,
Larry Baird

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DATE TO REMEMBER

Apr 25 **7:00 PM Business Meeting**
7:30 PM General Educational Meeting,
Feather River Baptist Church
5400 Chestnut Road, Olivehurst, CA

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UPCOMING SHOWS

27 – 28 Apr Reno Gem & Mineral Society, Inc
Reno Sparks Livestock Events Center,
1350 North Wells Ave, Reno
HOURS: Sat 10-5, Sun 10-4

May 4 – 5 Searchers Gem & Mineral Society
Brookhurst Community Center
2271 W. Crescent Ave, Anaheim, CA
HOURS: Sat 10 – 5; Sun 10 – 4:30

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THINK SPRING – PLANT A GARDEN

The heart is a garden where “thought” flowers grow;
The thoughts that we think are the “seeds” that we sow,
Every kind loving thought bears a kin loving deed,
While the thought that is selfish is just like a weed;
So we must watch what we think each minute all day
And pull out the “weed” thoughts and throw them away,
And plant loving “seeds” thoughts so thick in a row
That there won't be room for “weed” thoughts to grow.

via Rock Rollers Club, 3/00, *Chips* 4/00 & *The Golden Frog* 4/04

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"An All American Club"

SUTTER BUTTES GEM & MINERAL SOCIETY

BIRTHDAY FOR APRIL

Birthstone: Diamond

Flower: Sweet Pea

25 – Mary Cole

The Diamond, known as the "Fire of Love", is April's stone. One legend says Diamonds are forged by lightning and thunder; another calls them the crystallized tears of elves. The history of the Diamond begins in India between 800 and 600 BC, for it was the Orient that yielded all the diamonds for two thousand years, including the important Koh-inoor, the Russian Orloff and the Hope Diamond. About the 15th Century the queens and the ladies of the courts in Europe began wearing the diamond as a fashionable stone for jewelry.

The Diamond is also mentioned as the jewel of brides from the 15th Century on. It is believed to have the effect of softening anger, strengthening love and harmony. The word "Diamond" is derived from the Greek "adanas", which means "unconquerable". Some say it suggests the eternity of love, others say it will protect you from the "Evil Eye". The betrothal ring is worn on the finger next to the little finger on the left hand because it is believed that this finger runs directly to the heart, in other words it is considered the vein of love or *venis amoris*.

via *Rock Chips* 4/96

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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 arranged 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 dusty 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.

from *SF Mineralog* 5/81 via *Amador Nugget* JJA/00

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CRYSTALS: Crystals are one of the strangest objects in nature. They are not alive, yet they grow. A crystal attracts the same kind of materials of which it is composed, arranges them with great accuracy in geometrical forms, cements the parts together and holds them. Place a crystal in a liquid or vapor composed of the same ingredients as the crystal and the process of accumulation immediately begins. If a crystal is broken in half and placed in a bath of liquefied crystal, the broken surface will be repaired and each part will grow into another crystal, providing other conditions favorable for crystal growth are present. There is no limit to the ability of a crystal thus to repair itself and resume growth.

from *NAPA GEMS* 4/00 via *Tumbler, Rocky Review* 12/99 & *The Rollin' Rock* 12/01

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GEM ID

Is it cubic zirconium or diamond? If the stone is loose, turn it upside down on its table and slide it over a thin black line on a piece of paper. Then look straight down through. If you see a circle in the center of the stone, you have a cubic zirconium, as diamond won't display this.

By Dan Ashby, *Gemrock* 4/99 via *MLMS Ghost Sheet* 12/08

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MINUTES, BOARD MEETING— March 28, 2019

The meeting was called to order by President Larry Baird Board members present: Ten
SECRETARY: Motion to approve the minutes of the meeting of February 28th, as printed in the bulletin, was made by Debra, and seconded by Liz.
TREASURER: Treasurer Karen was absent. Larry handed out printed reports she had prepared. There are three people with unpaid dues.
SHOW: Postcards were handed out. Request was made that the show times be added to the cards when they are passed out. Show times will be on the web site.
FIELD TRIPS: Tim had asked Jerry to check out the Spenceville Wildlife area. It will not be opened until April 15th. The road has been closed and there is a walking trail, a mile in and a mile out. Other suggestions were a repeat trip to the North Star Mine, try Bear River, the 16/1 mine at Allegheny or Mineral Bar.
OLD BUSINESS: No old business.
NEW BUSINESS: Candi has seen a report of rocks in the Paradise area being painted with uplifting sayings. She suggested that the club could leave painted rocks in various places with the club name on the back. There being no further business, it was moved by Candi and seconded by Debra that the business meeting be adjourned.

Respectfully submitted,
 Inez Berg, Secretary

MINUTES, EDUCATION MEETING, March 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 February 28th, as printed in the bulletin, was made by Candi, and seconded by Lucy.
SHOW: Postcards were handed out. Request was made to add the times to the cards when handed out. Leave cards at the shows you attend.
GUEST: Rowena Fuhrer.
 Motion to adjourn meeting made by Debra and seconded by Candi.

PROGRAM – FAVORITE ROCKS:

There were many types of rocks. Selenite, petrified wood, desert rose, a gemstone tree and wire wrapped cab, two shades of green jasper, white quartz, gold in quartz jewelry, lapis necklaces and a bracelet, Lake County onyx, belemnite fossil and information about the squid fossil, a rock covered in pyrites and a few others. I hope I did not miss too many.

Respectfully submitted,
 Inez Berg, Secretary

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ROCKHOUND SURVIVAL KIT

A chocolate HUG and KISS to remind you that you are loved!
 Some MATCHES to light your fire when you feel burned out!
 A TOOTSIE ROLL to remind you not to bite off more than you can chew!
 Some SMARTIES to help you on those days when you don't feel so smart!
 A SNICKERS to remind you to take time to laugh!
 A BAG to help you keep it all together and give you food for thought!
 And, most important, a CANDLE to remind you
 That you can brighten someone else's day!

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GOLD!!

The accidental discovery of gold in 1848 led to the famous "Gold Rush" and gave California the title, "The Golden State." Gold was discovered at Sutter's Mill, east of Sacramento on the American River. Afterward, more than 80,000 people came to California in search of gold, but most found very little of the precious metal. It is estimated that only one in 1,000 miners ever struck gold. The Gold Rush led to California becoming the 31st state of the Union in 1850.

California's most important gold deposits have been found in the Sierra Nevada and Klamath mountains, and the Mojave Desert.

In the 10 years following the discovery of gold in 1848, miners recovered 24.3 million ounces of gold statewide.

Gold is one of the earliest metals known and used by humans. It will not disintegrate when exposed to oxygen, water, salt or any other naturally occurring material. Gold is so strong, coins and other items made of gold thousands of years ago are still in almost perfect condition.

Gold is still being found in California today. From 1994-1996, approximately 2.6 million ounces of gold were recovered, worth more than \$1 billion. reprinted from *MOROKS*, 3/06 via *Chips* 7/06

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Did You Know?

Gems are weighted in carats. Amber is the lightest gem (SG 1.09); cassiterite is the heaviest (SG 6.9). The carat is derived from the weight of a seed of the carob or locust tree of the Mediterranean. It weighs 1/5th of a gram. Each carat consists of 100 points. from *Strata Data* 2/01 via *Chip & Lick* 5/01 & *The Rollin' Rock* 8/02

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THE INGREDIENTS OF AN ARROWHEAD

The American Indian wasn't fussy about what he used to make an arrowhead as long as the material would suit his need. Throughout the ages, the Indian's choicest material for arrowheads was flint and flint-related rocks such as chalcedony, agate, novaculite, jasper, opal, etc. He liked obsidian, too. These are the silicon dioxide "glass" rocks of nature and like glass, they flake beautifully in conchoidal fractures and shape easily into sharp cutting edges. Quartzite, a more granular silica, was used quite extensively but was more difficult to shape.

The Indians of the eastern seaboard were starved for good flint-like rocks and their arrowheads are the ugliest of all since they were made of slates, trap rocks, quartzite, schists, and other forms of rock which a Wyoming Indian would have written off as junk.

There are rumors of Wyoming jade as arrowheads, but they probably aren't true. The Indian was too smart to wrestle with a tough, unsuitable rock like jade. The Indian of the Valley of Mexico made beautiful jadeite sacrificial knives, but they were not flaked. They abraded, honed, and polished them into shape.

Probably the most spectacular arrowhead ever found was a fabulous fluted Early-man Clovis point struck out of a large quartz crystal. A farmer in North Carolina found the diamond-clear point. He took it home and used it to strike against steel to start kitchen fires. The now damaged point rests in the Smithsonian.

Some arrowhead and spear points were made of wood, especially the stunning arrow. Many were made of bone, antler, and tusk. The Indian tribes of the Gulf of Mexico used garfish scales extensively. Bottles, telegraph insulators, and other glass articles were popular everywhere. Best of all, Indians liked the white man's iron. Barrel hoops were a favorite source, but any blacksmith's stock was satisfactory.

The Indian also traded fur pelts to the white man for steel arrowheads. Pierre Choteau's men brought the first of these to Wyoming in about 1822. The steel points were somewhat diamond shaped with a thin saw tooth stem and were always stamped with a St Louis factory trademark.

---from *Mendo Coast Gems* 4/07, via *The Matrix* 5/07, *American River Currents* 9/07

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