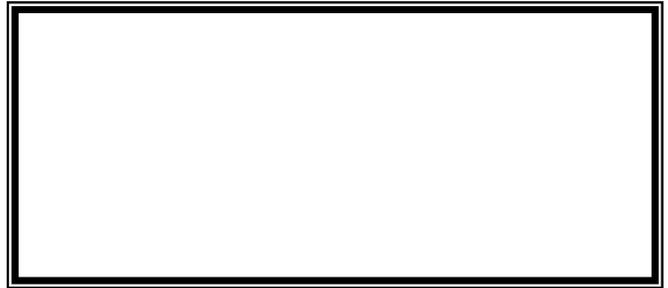




**YUBA SUTTER GEMS
P.O. BOX 269
MARYSVILLE, CA 95901-3118**



GENERAL EDUCATION MEETING

Thursday, May 23, 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	Carollyn 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

May 9 Field Trip:

The field trip to Bear River Park was attended by five club members, which, considering the small size of our club, was a respectable turnout. Jerry and Grace Hill, Larry Baird, Lucy Baird Clark and myself had an enjoyable morning gathering some interesting rocks, including quartz, shale, and other rock types, and even a few specs of gold! We also enjoyed a time of repose with a picnic lunch afterward. This is a great place to go!

Respectfully submitted
Tim Unruh

* * * * *

BIRTHDAY FOR MAY

Birthstone: Emerald
Flower: Lily of the Valley

29th – Carol Nelson & Vernon Roper

Who first behold the flight of the day
In spring's sweet flowery month of May
And wears an emerald all her life,
Shall be a loved and happy wife.

Emerald is a member of the beryl group, in fact, the most precious of the group. It may be even more valuable, carat for carat, than a fine diamond. Its green color is without compare, and "emerald green" is a widely used term. The color is due to chrome, or sometimes vanadium.

A ring worn by the Pope is an emerald cut from a huge stone stolen from the Incas by Pizarro. It was cut and mounted into a ring and presented to the Pope, and the stone has been worn by the Popes ever since.

The emerald was a symbol of royalty in Peru, and as the Inca was supposed to be a son of the Sun-God, these gems were symbolic of the sun and could only be used by the members of the royal family or the high priests.

Many beliefs surround the emerald, gem cutters used to keep spare emeralds on the workbenches in the belief that gazing occasionally at their pure green color strengthened the eyes and relieved eyestrain. The Roman Emperor Nero used the emerald as a sunglass while viewing the Chariot races.

When caring for your emerald do not heat the stone, clean it in warm water only. Emerald is often treated with oil to fill fissures and fractures that are characteristic of emerald. Hence, you should never clean an emerald in an ultrasonic cleaner because this oil could be removed or damaged, making the fissures more visible.

* * * * *

PAVING STONE FOSSIL BONANZA

In the state of Ceara, in the northeast of Brazil, roads have been paved for generations with pieces of calcite nodules commonly found in the area. To the locals the rock is an excellent building material but to a paleontologist the roads are vast highways teeming with the fossilized remains of *Notelops brama*, bony fishes which thrived during the Cretaceous period one hundred million years ago. The specimens have been well preserved. Soft tissue such as the eyes, gills and muscles are clearly visible and with a microscope blood cells can be studied. Philip Wilby, a geologist at the Open University of Milton Keynes, England concludes the fossils were preserved quickly because phosphates would have turned the fish into stone within a few days after death.

Ref. *National Geographic*, 3/94 via *Rocks Digest* 5-6/95

* * * * *

MINUTES, BOARD MEETING— April 25, 2019

The meeting was called to order by President Larry Baird There were 9 Board members present.

SECRETARY: Motion to approve the minutes of the meeting of March 28th, as printed in the bulletin, was made by Debra and seconded by Karen.

TREASURER: Reports were handed out by Karen. She reported that Robo Bank is changing names. Trailer tags have been received.

SHOW: This month she will have to make deposits for the street sign and the Fairgrounds. Dealer applications will go out.

FIELD TRIPS: Discussion concerning possible field trips. Old Auburn Courthouse, Empire Mine, Smartsville for Gold Rush Days, Chapman’s Rock Shop and Museum at Fortuna, Lassen National Park, Plush, Oregon for sunstones, Davis Creek for obsidian, Sierra College Museum. The Sierra College Museum has a gem and mineral display from a former Sutter Buttes member and local California fossils. Tim will call Sierra College to set up a time to tour the museum and a telephone committee will let members know the date for the tour.

NEW BUSINESS: Tim reported many people on the calling list are no longer members or are too ill to attend meetings. Karen will provide a new membership list.

PROGRAMS: Tim reported upcoming programs will include a film on Mt. Kilimanjaro, tektites and in August he will ask Jim Hutchings to do rock identification.

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

Respectfully submitted,
Inez Berg, Secretary

MINUTES, EDUCATION MEETING, April 25, 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 March 28th, as printed in the bulletin, was made by Lucy and seconded by Gerry.

OLD BUSINESS: There was no old business.

NEW BUSINESS: Field trips were again discussed.

GUESTS/VISITORS: Tim introduced his friends Dan and Mary. Rowena returned. Vern and Pat Roper attended and renewed their membership.

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

PROGRAM: Rock Anomalies, by Tim Unruh

To start the program Tim tossed out a fake rock. Anomalies are things that show a difference. He showed obsidian, a large Apache tear, fulgurite (Lightning struck), various quartz, a desert diamond from Saudi Arabia. He had a geode that rattled, believed that the crystals inside had broken loose to cause the rattle. He showed fluorescent rocks in both long wave and short wave. He had a trilobite, concretion, coprolite (fossilized dung), meteorites and pyrite.

Respectfully submitted,
Inez Berg, Secretary

* * * * *

HISTORY OF THE SUTTER BUTTES:

Geologically the Sutter Buttes are quite young 1,000,000 years, upper Pliocene. The Sacramento Valley is made up of several layers. The Buttes came up through these sediments after they were laid down. Identification of these strata (layers) made the Buttes very complex. The age dating was done by radioactive materials. There is fossil evidence in the Buttes. They are actually an extinct volcano, formed later than the Sierras and Cascades.

Howell Williams, volcanologist, declared them the most complex and interesting extinct volcano in the world. They were active for 600,000 years and are the same height as original except for slight erosion. The Buttes are actually a rosette-like cluster rather than an elongated shaped range, covering 100 square miles.

Rocks in the Buttes are igneous – mostly rhyolite and andesite. There is a crater of andesite and porphyry. The Butte Sink is a swampy area on the west side between the Buttes and the Sacramento River.

The first evidence of natural gas was discovered by early property owners. This is a sedimentary gas and not associated with volcanic action. There were 67 wells drilled and these follow along a fault line on the south side of the Buttes. A small amount of coal was found in 1864.

The Buttes are covered with Valley Oak, Blue Oak, Live Oak and Scrub Oak. Tule elk, grizzly bear, coyote, fox, antelope and many birds have made their home there. A State Park was considered in the Buttes, but all landowners protested. All lands in the Buttes are privately owned.

The first men in the Buttes were Hokan Indians, about 10,000 years ago. These were followed by Maidu Indians. There are 39 archeological sites. The first white explorers were Spanish. General John C. Fremont and his US Army Troops camped near the town of Sutter just prior to the Bear Flag Rebellion, which led to the acquisition of California from Mexico.

In 1960 a launching base for intercontinental Titan missiles was installed underground near the north part of the Buttes. It was declared outdated in 1964 and dismantled in 1996 with the land returned to private ownership.

Various names for the Buttes: Los Picachos (Spanish for the peaks), Histum Yani (Indian for middle mountains), Butte Mountains, Los Tres Picos (Three Buttes), Marysville Buttes and finally Sutter Buttes since the 1950s.

(Summarized from a program and article by members Art and Alma Freeman, published in the July 1994, "Yuba Sutter Gems".

Inez Berg, Historian

* * * * *

Advice For Rockhound Watchers

You can tell him by his honest face, and his willingness to share

You can tell him as he saunters by, his eyes glued to the ground.

No matter where he goes, he's sure there's gemstones to be found

You can tell him by his friendly smile, he's an all—round pleasant guy.

But the sure—fire way to spot him is the flashy bolo tie!

from Eureka News 1/86 via Rock Writings 7/09

* * * * *