



Livermore

Lithogram

Livermore Valley Lithophiles

Livermore, CA

Next General Meeting

June 14, 2018, 7:15 pm
Community Room
Civic Center Library

Program: DVD “The New Crystal Hunters, The Sterling Mine at Sterling Hill.” Three young rockhounds are lead on a tour of a Zinc mine in New Jersey; some of the underground workings have UV lighting of zinc minerals that are a fluorescent wonderland.

Refreshments: TBD

Next Board Meeting

4th Thursday of the month
at the Shop.

All Members are welcome
to attend!

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President’s Message

by **Bill Beiriger**

The program for the June General Meeting will be a DVD ‘An Underground Trip in the Sterling Hill Zinc Mine’.

We still need two or three Shop Foremen to help run the shop. I am going to OK Adam Heinke as a Shop Foreman; I don’t think there will be a problem with him doing the job.

The 4-H members will demonstrate lapidary projects at the Dublin Farmers Market. We will be at their Third Thursday Family Night for August and September.

I am going to get some slate and carving tools for a shallow relief carving, this will be a project for the 4-H members.

Please try and make it to the meeting for the June General meeting; we will present two Brunton Transits to the CSUEB Scholarship recipients.

The contracts have been sent to the dealers for the 2018 Lithorama. This year we will have Ed Rigel, the fossil dealer back at the show.

Joe has agreed to return to Lithorama 2018 with his Gold Panning Program.

Now that the weather is getting good, we will have to start cleaning the upstairs storage area, then, do the shop area. We will also have a workshop for repairing the display cases for Lithorama, this will be under the direction of Adam Heinke for his Eagle Scout Award.

4-H Members

Lily Wheeler, Adam Heinke, Charles Siders and Lukas Zimmermann earned 4H Geology pins for helping at the Lithorama, Science Odyssey and sharing their lapidary work with the club at the April meeting.

Pins will also be given to Izzy Kuntz and Ethan Santiago for their help with outreach at the Science Odyssey and Lithorama.

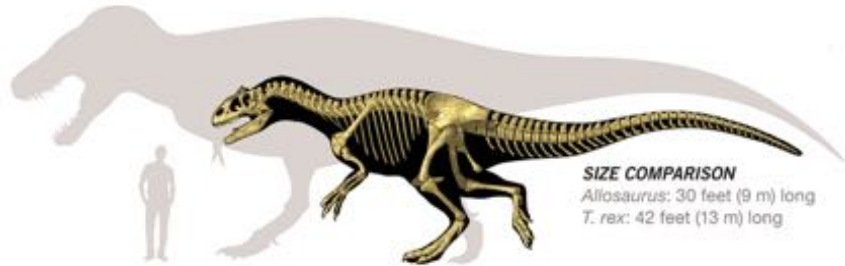


State Fossils

Utah State Fossil

Bill Beiriger

Allosaurus fragilis: This dinosaur lived during the Late Jurassic Period, 155 - 150 million years ago most the fossil remains have come from the Morrison Formation (Brushy Basin Member). It had a weight of 2.2 tons and was 30 – 40 feet long; it was smaller then T-rex, which had a weight of 4 to 7 times that of **Allosaurus**.



<https://paleontologyworld.com/dinosaurs—species-encycolpedia/allosaurus>

Allosaurus lived about 85 million years before **Tyrannosaurus**; which was the last of the large predatory dinosaurs.

It's been found throughout the Colorado Plateau region of central, eastern, and southern Utah. Included are the Cleveland-Lloyd Dinosaur Quarry in Emery County, and Dinosaur National Monument in Uintah County. The Cleveland-Lloyd Dinosaur Quarry has produced 46 **A. fragillis** and a minimum of 73 mixed dinosaur fossils.

Adopted as the Utah State Fossil in 1988.



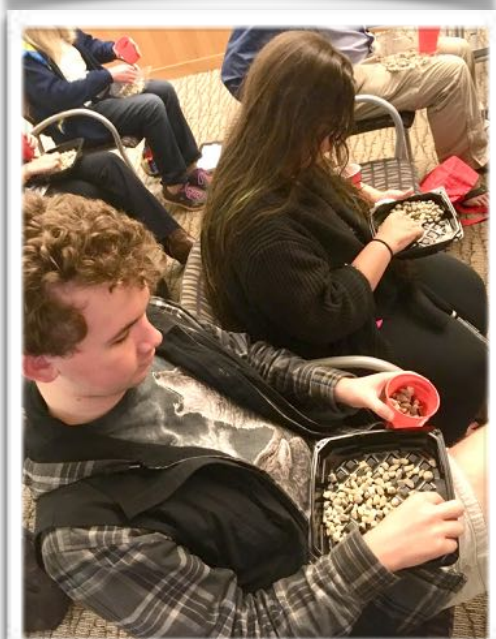
<https://nhmu.utah.edu/allosaurus-fragilis>



Cleveland-Lloyd Dinosaur Quarry museum, Utah.

Field Trip in a Bucket

At the May meeting we had a very successful field trip in a bucket. There was a great turn out of members and everyone went home with a bag of gems and minerals. The material was purchased from the Rose Creek Mine & Rock Shop.



Minutes of the General Meeting

May 10, 2018

Dublin Farmers Market

Jenny Siders suggested that we set up a Lithophile table in September and October because the weather is cooler and the Lithorama is in November.

CSUEB Scholarships

Bill Beiriger received two Brunton Transits for the CSUEB scholarships and will have them available for the June meeting.

STEM Program

This topic is left open until a future business meeting.

Shop

President Bill Beiriger will order a new set of drive belts for the Pixie unit. The old belts did not break, but they probably dried out and lost their flexibility.

This summer we need to party hard = 2 Clean-Up Parties: 1) the Shop 2) the storage area

Lithorama

Bill Bish is the show chairperson. We are looking into dropping a dealer so we can have a fossil booth. Ed Rigel from Applegate is interested in being the fossil dealer.

Schools

Bill Bish conducted rock and mineral projects at the following Livermore elementary schools: Arroyo Seco, Jackson Avenue, Lawrence

Program

Lithophiles went on a "Field Trip in a Bucket" and searched through buckets and buckets of plain rocks and minerals for valuable gemstones.

Minutes of the Lithophile Board Meeting

May 24, 2018

Present: Bill Beiriger, Bill Bish, Molly Alexander, Sue Fernandez, Jill Heinke, Adam Heinke

Field Trips

At the last general meeting, many of our members and most of the 4-H members searched the buckets for gemstones.

A possible field trip to Arizona Tile Company located behind the Livermore Lab and open on Saturdays 8:00 am – 3:00 pm.

Cemex tours are on Saturdays in the early morning. Two possible dates for the field trip are June 16 and June 23.

Alameda County Fair

We are still waiting to hear back from Maureen Bankhead on whether we can set up a demonstration table at the fair.

Lithorama

Ed Rigel from Applegate, the Fossil Dealer, will be participating at the Lithorama this year. He will replace the Kleins.

Shop

The electrical problem is fixed.

4-H Club

This summer or next fall, Bill Beiriger will be the primary instructor for a Slate Carving Project. Please contact Bill if you want to help. The project will be done in the Shop and consists of relief carvings on 1/4" or 3/8" slate. Inexpensive carving tools and slate have to be purchased.

Next Lithophile Meeting – June 14

Scholarship presentation

Video "The New Crystal Hunters, The Sterling Mine" – 45 minutes

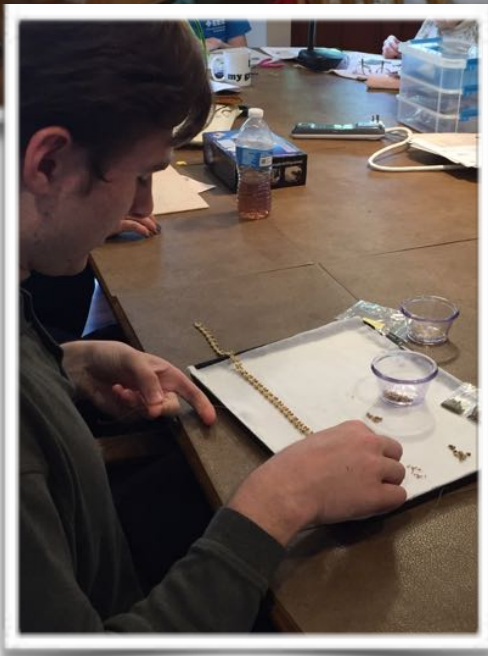
Sue Fernandez has again volunteered to do the audit.

Beading Buddies

Beading Buddies will not meet in June but will meet twice in July. Our next session is SUNDAY, July 1. We'll have a pot luck BBQ at noon, 787 Joyce St. Livermore. Dick and Andrea will provide the meat to BBQ. Bring a dish of your choice to share. We will bead after the BBQ. Andrea will be teaching a wirework pendant. Our second meeting date in July TBD. We'll have a Christmas in July project. We had a big turnout for the May meeting.

Pat

patinfoldy@aol.com



Eruptions of Mt. Saint Helens and Kilauea Volcanoes

Bill Beiriger

I was going to do this article on volcanic eruptions before Kilauea started its most recent major activity; I learned that there were two not one deadly volcanic eruption on 18 May.



Explosive eruption column from Halema'uma'u Crater May 18, 1924 Photo from northwest rim of Kilauea summit, present site of HVO. (from Kilauea website below).

Richter magnitude scale was not developed until 1935, long after the 1924 eruption, so there are no records of how strong the earthquakes were back then. The earthquake that occurred at the time of the major Mt. Saint Helens eruption had a magnitude of 5.1.

What is happening now in 2018 has happened many times on the Big Island of Hawaii. There was an eruption in 1790 that deposited lava 40 feet deep on the summit area of Kilauea. The south flank of Kilauea shows records of many layers of ash and lava that covers a time period of 10,000 to 25,000 years.

The present day eruptions that are occurring at Kilauea are similar to the ones that occurred back in 1924. Kilauea is not the only Hawaiian volcano that is active; Mauna Loa, also on the Big Island, last erupted in 1984 with a record of 33 eruptions since 1843. The volcano Haleakala on Maui last erupted in 1480 and 1600 and may erupt again in the future.

Mt. Saint Helens erupted explosively 38 years ago on 18 May 1980. The ash that came from that eruption was not lava but was fine particles of the original mountain itself being pulverized by the force of the eruption.

While searching the Internet I found an article on an explosive eruption of Kilauea that caused damage in the Hilo area of Hawaii. That explosive event occurred 94 years ago also on 18 May back in 1924. Unlike Mt. Saint Helens, the ash from Kilauea was from hot lava that came in contact with underground water forming steam that caused the lava to be ejected into the air. Along with fine sand size particles there were boulders some weighing 8 -10 tons thrown 0.6 miles from the volcano. The East Rift Zone opened all the way to the coast about 20 miles South-East of Hilo. The 1924 eruption was from the largest of Kilauea's craters, Halema'uma'u.

The first of the major earthquakes that occurred for this present 2018 Kilauea eruption had a magnitude 6.9, the



Lava from Kilauea has spread more than 387,500 square feet into the surrounding neighborhoods on Hawaii's Big Island. www.popularmechanics.com/science/environment/g20264868/hawaii-volcano-eruption-2018-photos/

SEE THE BELOW WEB SITES FOR MORE INFORMATION ON BOTH VOLCANOES:

Article on Kilauea:

https://volcanoes.usgs.gov/volcanoes/kilauea/geo_hist_1924_halemaumau.html

Article on Mt. St. Helens:

<https://www.history.com/this-day-in-history/mount-st-helens-erupts>

California Shows & Events

August 4 - 5: SAN FRANCISCO, CA
 San Francisco Gem & Mineral Society
 San Francisco County Fair Building (Hall of
 Flowers)
 9th Avenue & Lincoln Way, Golden Gate Park
 Hours: Sat. 10 - 6; Sun. 10 - 5
 Contact: Ellen Nott
 Email: ellen_nott@yahoo.com
 Website: www.sfgemshow.org

September 15 - 16: MONTEREY, CA
 Carmel Valley Gem & Mineral Society
 Monterey County Fairgrounds
 2004 Fairgrounds Road
 Hours: 10 - 5 daily
 Contact: Janis Rovetti, (831) 372-1311
 Email: janis12@sbcglobal.net
 Website: www.cvgms.org

September 15 - 16: REDWOOD CITY, CA
 Sequoia Gem & Mineral Society
 Community Activities Building
 1400 Roosevelt Avenue
 Hours: 10 - 5 daily
 Contact: William Spence, (408) 398-7502
 Email: bill.spence777@sbcglobal.net
 Website: www.sequoiagemandmineralsociety.org

September 22 - 23: LODI, CA
 Stockton Lapidary & Mineral Club
 Lodi Grape Festival Grounds
 413 East Lockford Street
 Hours: 10 - 5 daily
 Contact: Mike Mathis, (510) 301-3612
 Email: mmathis@nwp.org
 Website: www.stocktonlapidary.com

October 6 - 7: GRASS VALLEY, CA
 Nevada County Gem & Mineral Society
 Nevada County Fairgrounds
 11228 McCourtney Road
 Hours: 10 - 5 daily
 Contact: Mitchell Frank Van Hecke, (530)
 274-2425
 Email: 4vanclan5@att.net

Website: www.ncgms.org

October 13 - 14: LOS ALTOS, CA
 Peninsula Gem & Geology Society
 Los Altos Youth Center
 One North San Antonio Road
 Hours: 10 - 5 daily
 Contact: Steve Jobe, (408) 834-5384
 Email: steve_jobe@sbcglobal.net
 Website: www.pggs.org

October 20 - 21: SANTA ROSA, CA
 Santa Rosa Mineral & Gem Society
 The Veterans Memorial
 1351 Maple Avenue
 Hours: Sat 10 - 6; Sun 10 - 5
 Contact: Jolene, (707) 849-9551
 Email: coons@sonic.net
 Website: www.srmgs.org

November 17 - 18: LIVERMORE, CA
 Livermore Valley Lithophiles
 The Barn
 3131 Pacific Ave, Livermore
 Hours: Sat 10 - 5; Sun 10 - 4
 Contact: Jolene, (707) 849-9551
 Email: info@lithophiles.com

WANTED

Shop Foremen for
 Tuesday evenings.

Will Train!

Newsletter Editor for
 monthly newsletter.

info@lithobhiles.com

Livermore Valley Lithophiles

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We're on the Web at www.lithophiles.org & www.facebook.com/Lithophiles/

Elected Officers & Club Information

Elected Officers:

President Bill Beiriger(info@lithophiles.com)
V. President Stephanie Goldsmith
Secretary Molly Alexander (925) 606-6977
Treasurer Bill Bish (bcbish@att.net)

Membership: The Livermore Valley Lithophiles invites to its membership anyone genuinely interested in minerals, gems, lapidary, geology or any of the other earth sciences, and who desires association with others of like interests. Membership in our club consists of three classes: Senior, anyone eighteen years or older; Junior, anyone under eighteen; and Honorary. Dues are for the calendar year and are as prescribed in the by-laws, Article III. \$25.00 per family, \$20.00 per individual and \$10.00 for Juniors (twelve and younger.)

Meetings: General Meeting – Second Thursday of each month, 7:00 p.m. Civic Center Livermore Library Community Room (**Locations change go to Lithophiles WEB-SITE**). Board Meeting – Fourth Thursday of each month, 7:30 p.m. at the Club Shop or to be announced in the *Lithogram*. Any special meetings or places will be published in the *Lithogram*.

Club Shop: The shop at the Barn is open to club members 7:00 p.m. to 10:00 p.m.. on Tuesday nights. If no one arrives by 7:30 p.m. or if the Shop Foreman has not been informed a member will arrive late, then the shop will close at 7:30 p.m. Shop Foreman, Stephanie Goldsmith (925) 447-1722.

Field Trips: Location and date will be published in the *Lithogram*.

Bulletin: *Livermore Lithogram*. Published monthly and mailed or emailed to active members and guests. News of interest, reports and articles must be received by the first Tuesday of the month. Articles may be reprinted by giving proper credit.

Editor:

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