



### Next General Meeting

**Mar. 9th, 2016**

**7:30 pm**

Community Room  
Civic Center Library

**Program:** Topographic Maps  
by Bill Beiriger

**Refreshments: ?**

### Next Board Meeting

4th Thursday of the month  
at the Shop.

All Members are welcome  
to attend!

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## Monthly Mineral - Chondrodite

by Lee Davisson

Chondrodite is a nesosilicate mineral associated with the humite group, which includes garnets. It is formed by the same contact metamorphism that can form garnets in limestone rocks intruded by hot magma. In the case of chondrodite, metasomatism, or hydrothermal circulation, transports fluoride that makes up part of the chondrodite chemistry. It was first discovered in 1817 on Mt. Vesuvius in southern Italy, which is an area where magma has intruded tufa deposits along the Bay of Naples. The mineral has a hardness of 6.5 making it suitable for faceting and polishing. The mineral tends to be brittle and is heat sensitive. Chondrodite is found in many places in the world, but the best location in the US was Tilly Foster Mine in New York, which is now closed. New finds coming from South African mines has provided a few specimens for faceting. Darker material has been used to make small cabochons.



<https://www.mindat.org/min-1027.html>

## Topographic Maps to be presented at the March meeting by Bill Beiriger

How topographic maps are made from aerial photos to the final map.

See how the info used to show the gradient of the land.

There will be three-dimensional models of Mount St. Helens volcano showing the before and after the eruption topography of the mountain.

There will be stereo photo pairs to view with stereo viewers.

## The Geode Collector Bill Beiriger

Some of you figured out that the photo of the Geode Collector was myself.

At one time you could collect geodes in our back yard.

That photo was taken in 1950 at what is now the intersection of Camden Ave. and Los Gatos Almaden Road in San Jose, California. What is now flat land with a lot of homes, businesses and schools was called Lone Hill Quarry. The quarry produced a lot of geodes, even though most of them were only mediocre in quality they were easy to find.

So, progress made it possible to find the geodes, and progress covered up where there may still be more geodes under a suburb of San Jose.



## Science Odyssey 2017 Bill Beiriger

This year I put a display of meteorites in with a few meteorite thin section photos taken through a polarizing microscope. I also had a Power Point program with photos of meteorites and meteorite thin section photos running in a loop on my laptop computer.



The Meteorites in the display belonged to Rick Langlois and myself. Both the students and the adults found the case interesting, since most people have never had a chance to see a meteorite. We also had a hand size Nickel-Iron meteorite from Canyon Diablo Meteor Crater in Arizona for everyone to hold.

I wish to thank Rich for the use of some of his meteorites. I also want to thank Lee Davisson and Rich Langlois for helping me at the Lithophiles Information Table at the event.

Regina Brinker does a great job promoting the Lithophiles and the other groups that help at Science Odyssey.



# State Fossils

## Michigan State Fossil

Bill Beiriger

***Mammut americanum***, Mastodons were closely related to the Mammoths that were covered earlier in this series. One major difference is that mastodons had less-curve in their tusks. They ranged in height from 7 to 10 feet and weighted in at 12,000 pounds.

Their teeth had crowns with distinct rounded cusps, suitable for foraging in wooded environments. Mammoth's teeth had plate-like surfaces for foraging in grasslands.

Some species of mastodon belonging to the genus ***Gomphotherium*** had two smaller tusks on the lower jaw that were used like a shovel to dig up plants.

The fossils have been found at more than 250 locations in Michigan. These animals disappeared at the end of the Ice Age about 10,000 years ago, but they lived as far back as 23 million years ago during the early Miocene. Some individual's think that the early human predation lead to the extinction of these animals. Mastodon Foot Prints were found in an area near Ann Arbor, Michigan, this location has produced the best mastodon tracts ever found.

Adopted as State Fossil in 2002.



## Beading Buddies

Here are a couple of pictures from our last session. Chris finished her Arizona Sunrise bracelet. Several other projects were also completed so everyone was happy to have these UFOs (unfinished objects) sessions. Our next session will be March 25, 1-4 pm.

Beading Buddies will meet on Saturday March 25, 1-4 pm at my house, 889 Waverly CMN, Livermore. We will start a new project, the Garden Necklace. This is a pattern from Around the Beading Table. Her instructions are excellent so this would be a good beginning beadwork project to try. You are also welcome to bring a UFO (unfinished object) if you prefer. Cost of the kit is \$5. Please bring your beading mat, needle, the instructions (attached), and your own supply of Fireline. If this is your first project and you don't have the supplies, I will provide them.

Pat



# Lithophiles Out & About



Photos from Tuscon shows provided by Bill Bish



# California Shows & Events

## **March 11 - 12:** SPRECKELS, CA

Salinas Valley Rock & Gem Club  
Spreckel's Veteran's Hall  
5th & Llano Streets  
Hours: 10 - 5 daily  
Contact: Gary Beck, (831) 679-2896  
Email: garybeckpca@yahoo.com  
Website: [salinasrockandgem.pagecloud.com](http://salinasrockandgem.pagecloud.com)

## **March 11 - 12:** TURLOCK, CA

Mother Lode Mineral Society, Modesto  
Stanislaus County Fairgrounds  
900 North Broadway  
Hours: 10 - 5 daily  
Contacts: Bud & Terry McMillin, (209) 484-4416  
Email: terry.mcmillin@yahoo.com  
Website: [www.motherlodemineralsociety.com](http://www.motherlodemineralsociety.com)

## **March 18 - 19:** SAN JOSE, CA

Santa Clara Valley Gem & Mineral Society  
Santa Clara County Fairgrounds  
344 Tully Road  
Hours: 10 - 5 daily  
Contact: June Harris, (408) 265-1422  
Email: info@scvgms.org  
Website: [www.scvgms.org](http://www.scvgms.org)

## **March 25- 26:** ROSEVILLE, CA

Roseville Rock Rollers Gem & Mineral Society  
Placer County Fairgrounds  
800 All American City Blvd (off Washington)  
Hours: Sat 10 - 5; Sun 10 - 4  
Contact: Gloria Marie, (916) 216-1114  
Email: gloriarosevillerockrollers@gmail.com  
Website: [www.rockrollers.com](http://www.rockrollers.com)

## **March 25 - 26:** ANGELS CAMP, CA

Calaveras Gem & Mineral Society  
Calaveras County Fairgrounds  
101 Frogtown Road  
Hours: Sat 10 - 5; Sun 10 - 4  
Contact: Dave Muster (209-518-8795) or Anna Christiansen (209-847-1173)  
Email: annachristiansen7132@comcast.net  
Website: [www.calaverasgemandmineral.org](http://www.calaverasgemandmineral.org)

## **April 8 - 9:** MARIPOSA, CA

Mariposa Gem & Mineral Society  
Mariposa County Fairgrounds  
5007 Fairgrounds Rd/Hwy 49 So.  
Hours: Sat 10 - 6; Sun 10 - 5  
Contact: Meredith Meehan, (559) 868-3535  
Email: mgmc@sti.net  
Website: [www.camineralmuseum.com](http://www.camineralmuseum.com)

## **April 29 - 30:** SANTA CRUZ, CA

Santa Cruz Mineral & Gem Society  
Santa Cruz Civic Auditorium  
307 Church Street  
Hours: 10 - 5 daily  
Contact: Dean Welder  
Email: [wdeanwelder@gmail.com](mailto:wdeanwelder@gmail.com)  
Website: [www.scrockngem.org](http://www.scrockngem.org)

## **June 9, 10 & 11:** VENTURA, CA

VENTURA ROCKS THE NATION!  
2017 CFMS-AFMS Show & Convention  
Hosted by Ventura County Gem & Mineral Society  
Ventura County Fairgrounds  
10 West Harbor Boulevard  
Hours: Fri & Sat 10 - 5; Sun 10 - 4  
Contact: Diane Cook, (805) 312-8467  
Email: info@vgms.org  
Website: [2017CFMS-AFMSShow.com](http://2017CFMS-AFMSShow.com)

## Livermore Valley Lithophiles

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We're on the Web at [www.lithophiles.org](http://www.lithophiles.org) & [www.facebook.com/Lithophiles/](https://www.facebook.com/Lithophiles/)

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## Elected Officers & Club Information

### Elected Officers:

**President** Lee Davisson  
[leedavisson@sbcglobal.net](mailto:leedavisson@sbcglobal.net)  
**V. President** Stephanie Goldsmith  
**Secretary** Molly Alexander (925) 606-6977  
**Treasurer** Bill Bish ( [bcbish@att.net](mailto: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, 7:30 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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