

Livermore

Lithogram

DUES ARE DUE.



Volume XXXX, Number 4
April 2015
Livermore Valley Lithophiles
Livermore, California

Next General Meeting:
Thursday, April 9, 2015
Community Room
7:30 PM

Program:
Early History of Modern Geology
Bill Beiriger

Next Board Meeting:
Thursday, April 23, 2015
At the Shop
Members are welcome to attend!

Meeting Location: Livermore Library Community Room

Refreshments: Jill and Molly

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Presidents Message:

Springtime is always busy; with the weather turning favorable life picks up its pace and we turn our attention to creating new things and finishing others. As a result this message will be short and to the point. We have three General Meetings left before our summer hiatus and I urge club members to attend. Some of these you will not want to miss since we might require club voting on a couple of proposed changes.

This month Bill Beiriger will provide the program.

In May Tom Johnston will present concepts for new web page designs for the club.

In June I will present a budget breakdown for the club, with Bill Bish's assistance, followed by discussion and planning for next November's Lithorama.

The May and June meetings stem from some lively Board Meetings in the past couple months that hashed out several new and evolving ideas. Discussion among club members at the General Meetings is essential and your participation is needed.

Minutes of the General Meeting

March 12, 2015

The meeting was called to order at 7:40 pm by President Lee Davisson at the Livermore Library Community Room A.

Oscar is a new member and brought a sample of amethyst.

Lithogram question – What is the location of the drill hole to the first mantel? Eric answered that there is no drill hole to the first mantel.

Shop – Upgraded wiring of 2 small saws. The new cabinets are finished.

Schools – Lee Davisson and Bill Beiriger were at the Science Odyssey and Bill Bish helped judge the Science Odyssey displays. Bill Beiriger is postponing school presentations until May. The club donated \$75 to the 2nd grade teacher at Valley View Elementary School in Pleasanton for the purchase of iPads.

Treasurer – Bill Bish stated that 32 members have paid for 2015.

Beading Buddies – next meeting is at Dick Friesen's house on March 28, 2015 from 1:00-4:00 pm.

Lee summarized the previous board meeting. We need to have a general meeting to discuss 1) updating the website and 2) opening the shop an additional 3 hours during an evening or afternoon. The cost is \$300 a year.

April meeting – Bill Beiriger will present the History of Modern Geology. Jill and Molly will provide refreshments.

May meeting – discuss a new website and how to attract more members.

Ken Peaks of the Mineral and Gem Society of Castro Valley demonstrated flintknapping methods using obsidian.

Minutes of the Board Meeting

February 26, 2015

Meeting for February 26 was moved to March 2, 2015.

Present: Lee Davisson, Tom Johnston, Bill Bish, Bill Beiriger, Molly Alexander

The next general meeting is Thursday, March 12, 2015 with the Flintknapper.

April 10 meeting – Bill Beiriger will present the history of modern day geology.

Shop: talked about opening shop another day of the week. An additional 3 hours/week would cost an additional \$300/year. Will take poll of members to find a good evening or weekend to be open. The added hours could be used by the 4-H Club or Juniors. Would need a foreman.

Membership Dues: Lee suggests we set up a PayPal account for dues. 31 members have paid for 2015. Dues = \$20; ~\$8 for insurance; ~\$3 for Federation

General meeting in May – discuss website and newsletter; Bill Beiriger would like another member to take over the website.

Schools: Bill Beiriger did a presentation to Boy Scout Troop 914. He is taking a break from schools until April. A teacher at Valley View Elementary School in Pleasanton wants \$2000 to buy 2 laptops for her dual emersion classroom. Lee proposed a motion to give her \$75; seconded by Bill Bish.

Silent Auction: Josh Davisson said there wasn't much participation during last year's show. The items were not very good samples and kids did most of the bidding. Next year do raffling instead?

Minutes of the Board Meeting March 26, 2015

Present: Lee Davisson, Tom Johnston, Bill Bish, Bill Beiriger, Molly Alexander, Dick Friesen

Club has 32 paid members, 52 people total which includes both families and individuals. Last year there were 40 paid members.

Bill Bish is sending signed form to A.F.M.S. with yearly dues = \$416.

The shop costs \$6 each Tuesday night.

The sheet metal covers on the 6 wheels need to be replaced. $6 \times \$60 = \360 .

The shop needs a new heater. Cost = \$800-\$1000.

A rock clock will be made for the shop.

Rocks and minerals were donated to Croce Elementary School in Livermore for science night.

General Meetings

April 9 – Bill Beiriger will talk about the History of Modern Geology.

May 14 – discuss creating a new website

June 11 – 1) discuss the club's finances, 2) discuss the club's goals, 3) plan meetings for rest of year, 4) prepare for November show, and 5) consider hiring a food vender for November show.

Suggested Field Trips

- 1) Gold Country
- 2) Cache Creek
- 3) Tesla and Patterson Pass near Site 300
- 4) Patterson Pass and Cross Road

Geological Museums in the United States and Canada.

Field Museum - Chicago, Illinois

Compiled by Bill Beiriger

The Field Museum in Chicago is ranked the best Dinosaur Museum in the world by Four Seasons Magazine. As with the other museums I have covered in this museum series my major emphasis has been Dinosaurs and some on the Minerals and Gem Stone Collections.

The first dinosaur that you see on arriving at the museum is a bronze casting of *Brachiosaurus*, its head is looking down on you from 70'. This gigantic mass of bronze will lead you in thru the front door to the Great Hall with the best preserved remains of a *Tyrannosaurus rex*.

The major dinosaur at the museum is the *Tyrannosaurus rex* Dinosaur named Sue. Sue was originally discovered by members of the Black Hills Institute. After its removal from the ground the Federal Government took possession of it because it was found on land that belonged to the U.S. Dept. of the Interior. To make a long story short it was put up for auction by Sotheby's and the Field Museum had the high bid of \$8,362,500. Much of the money came from several large corporations. Sue received it's name because of Sue Hendrickson who first found the first of the bones that belonged to the fossil.

The collections cover more then the Paleontology and Mineralogy that are pictured here. If you get to Chicago make sure you stop at this museum. The four mineral photos on the next page are all from California localities.



Brachiosaurus altithorax



Tyrannosaurus rex - 'Sue'



Deinonychus



**Tourmaline
Himalaya Mine
San Diego Co.**



**Topaz
Little Three Mine
San Diego Co.**



Buitreraptor



**Benitoite w/ 6ct Faceted Stone
Gem Mine
San Benito Co.**



**Gold
Eagles Nest Mine
Placer Co.**

School Report Bill Beiriger



Thank you from Mrs. Nava at Valley View School in Pleasanton for the donation the Lithophiles made to their iPad Program.

Dear Livermore Valley Lithophiles Gem & Mineral Society,

You are all absolutely amazing!!! I can't fully express my joy, excitement, and gratitude for your donation to my grant project. When I gave the news to my students that our grant had been funded, they were so excited that they broke into an ear-shattering applause!! Some of my students have never used an iPad before, and they were over the moon with excitement! Their cheers of "Yeah!" and "Woa!" warmed my heart and brought tears of joy to my eyes.

It is great to see that you share my vision for helping children reach technological literacy and academic success! The iPads that you have helped fund will enable students to create, publish and share their classroom projects with engaging 21st century technology. In addition, I will be able to demonstrate the many awesome educational apps on our classroom SmartBoard with Apple TV. Educational apps will allow my students to learn and practice many important literacy and math skills! At the same time as these iPads help my students reach mastery of the language and math Common Core Content Standards, the iPads also help my students work towards developing technological literacy!! As adults, they will surely need all of these skills to lead successful and happy lives.

Nowadays, there is often a huge gap between school funding and school needs. With generous grants such as the one you have helped to fund, this gap can begin to close. You made this important classroom project possible and I truly appreciate your support! Getting support and encouragement from donors like you really boosts my confidence as a teacher! Thank you so much!

With gratitude,

Mrs. Nava

Here is a Link to the Donorschoose Page: <http://www.donorschoose.org/project/soar-to-success-with-ipads/1511255/>

Do to a fall on February 18th at which time I pulled most of the muscles in my back and also bruised my knee, I cancelled all my school presentations until after April 15th.

This was a hard decision, but it would have been to hard to do a good job.

I will also resume doing my Cub Scout presentations in April.

Below is a my letter to the teachers.

Input from School Teachers I Have Worked With as Part of the Lithophiles Outreach Program.

Hello Teachers,

I am interested in your input into the President's Message in the February Lithogram.

President Lee Davisson got me thinking about his President's Message of getting youth involved in organizations like the Livermore Gem and Mineral Societies. Now! I would like to see what the teachers who receive the Livermore Lithogram think about how we as a Hobby oriented group can better interact with our local youth. I know that teaching techniques have changed as the times have changed. How much Hands On is there, in the classroom and how much computer hands on do you use in the classroom?

I have given presentation in many of your classrooms over the years, and I know I have seen the interaction of the students change over the 40 plus years that I have been giving presentations. I know that we have put in a lot more out-reach into getting student to come to our gem and mineral show, by having things for the younger students to do at the show. The ones that do come to the show seem to have a great amount of interest at the show, but do you as teachers get any kind of a feedback from them when they get back to your classroom?

The only science fair that I am involved with at this time is Science Odyssey, but I have been to several others over the years. I find that the largest percentage of the students go running in and out of most of the classrooms showing very little interest in what is going on in those rooms. How can the groups and companies that participate in science fairs get students more interested in what is going on in these learning environments?

What can we do as an organization to have more of our local youth come to the show as a learning outreach program to work hand in hand with the schools and you the teachers?

If any of you have any ideas how we can help each other please let me know.

Thank you,

Bill Beiriger, Education Chairman, LVL

St. Michael's School Grades 6, 7, 8

Hi Bill,

Just a thought, but maybe coming out to the schools and starting after school clubs that meet one a week or twice or once a month to do hands on make and take activities. It could be a co-teach with the teacher sort-of like TOPScience.

Vivian

Jackson Avenue School

Hi Bill,

I so appreciate the club's help exposing kids to geology/paleontology!

Re:

getting youth involved in organizations like the Livermore Gem and Mineral Societies.

what the teachers who receive the Livermore Lithogram think about how we as a Hobby oriented group can better interact with our local youth.

I think these are great ideas and I would be interested in working with you and/or Lee this summer to put a youth club in place. The BARN is a great venue for kids from my school. I think your group has great potential as a way to engage youth in constructive activity.

My experience:

I find most students are interested in fossils and minerals - in fact I can't think of any who have not been over the last ten years at Jackson. In class I let students handle the fossils and minerals at the risk of having some broken or stolen. Amazingly there have been almost none that have been taken or broken over the years. They seem to appreciate the opportunity to handle the specimens.

Re: fossils

I try to give the students a time frame for the fossil's existence, and I use online resources to show how it probably moved (e.g. see youtube "Trilo"). Students handle and draw the specimens and learn how fossilization occurs. I show them the location of giant oyster fossils on Patterson Pass Road. I encourage them to BART to Cal Day each year where they can tour the Museum of Paleontology.

Re: minerals

I would like to do a lot more with regard to how minerals form and show specimens in various stages of growth (e.g. large, medium, small crystals, and various degrees of purity). We are required to teach mineral identification via hardness, color, and streak color, but I would like to spend more time on origin, crystal structure, and commercial uses.

I look forward to following up with you on this topic. I think girls would be attracted by the opportunity to make jewelry which I have no experience in! Terry

Valley View, Pleasanton, Grade 2.

Hi Bill!

Let's see if I can be of any help:

1. Teachers nowadays try to include as much hands on learning as possible. There is however still a large percentage of the day spent reading, writing and solving math problems... At Valley View, nearly all of the science experiments happen once per week for 45 minutes in the science specialists' classroom. There is a big push right now for students to be learning more through technology (Chromebooks, laptops, iPads, etc.). Many schools still lack technology, though, and classrooms are lucky to have at least a 5:1 student:computer ratio. This obviously hinders the possibilities of integrating technology with learning...

2. I have honestly never had a student give me feedback about participating in the gem and mineral show...

3. I know at our school we ask for volunteers to "judge" and give feedback on the children's science fair projects. Certainly, we would welcome the participation of anyone from the Livermore Gem and Mineral Society. At our school, science Fair projects are displayed in the cafeteria. Classrooms sign up for a 30 minute period in which their students can go and browse through the projects. There is also an open house for parents and students to come together.

4. At Valley View each year, we have a Science Night, dedicated to science and connecting children with community members who are working in the field of science (doctors, astronauts, chemists, etc). Our science teacher, Mrs. Dobbs, coordinates this fun night, and I'm sure she would welcome participation from the Livermore Gem and Mineral Society.

5. We are very grateful for our yearly presentation from you, Bill and greatly appreciate your dedication to bringing your expertise of and enthusiasm for science to the children!!

I hope this helps,

:) Celeste

Livermore High and Science Odyddey.

Great questions, Bill.

It is my goal for this year's Science Odyssey to give the attendees a way to find out more information about the presentations. The thought is to have a poster on the door or at the displays with titles such as, "Did you like what you saw? Find out more by" and can then give references for the group or topic. Or, we will have posters that read "People who like animals might work as... or take these classes..."

I would like to then make all of these references available on the district web site.

Please feel free to use SO as a means to promoting the Lithophiles!

When I showed high school students the cabochon and talked about the Lithophiles, students did find this interesting. I don't know how many followed up, though.

When I worked in middle school, science students did come back from SO talking about the hands-on demonstrations that they saw.

When I taught the 7/8th grade engineering class at CMS, the guest speakers were of high interest to the students. Engaging guest speakers have a high impact on students. They are remembered for years.

There is s SO meeting this afternoon. If this email gets to you before the meeting and you have any thoughts to share, please let me know. At anytime, please let me know how SO and school can build more effective partnerships.

Thank you.

Regina Brinker



Shop Report

Frank Gouveia

Well March at the shop started off very slow with nobody showing up on the first Tuesday of the month. On the following Tuesday we had a full house with 9 people coming by to work on their projects. I cut some slabs for the 4H members who were there before I showed up and Chris Hunt brought them to the meeting the following Thursday to give the slabs to them. The rest of the month saw a steady number of members coming in to hone their skills. With the weather warming and the days getting longer I expect to see a lot of activity at the shop. Please stop by if you haven't been there in a while to see how nice the shop is, and once again thanks to all who have helped to make it this way. See you there!

If you would like to use the shop earlier than 7pm contact Richard Ochoa for his early bird days.

That's all from the shop...Rock on!

The Shop is open from 7pm to 10pm every Tuesday.

Shop Forepersons:

1st Tuesday – Stephanie Goldsmith

2nd Tuesday – Frank Gouveia

3rd Tuesday – Tom Johnston

4th Tuesday – Richard Ochoa

5th Tuesday- Mystery Guest Foreman....Ooooooh!



**Beading Buddies
March 28, 2015**



Sue, Eric, Jill, Sharon, Rachel & Andrea



Next Beading Session Saturday, April 25,, 1-4pm at Dick Friesen's house.

Geologic Facts about California
California Geological Survey (CGS)
This Information is from the 150th Anniversary of the CGS

In 2009, California produced approximately 630,000 barrels of oil per day or 230 million barrels per year. Of these, 195 million barrels were produced onshore and 35 million barrels were produced offshore.

The Midway-Sunset oil field, southwest of Bakersfield, continues to be the largest producing oil field in California. It has produced a total of about 3 billion barrels of oil; 34 million barrels were produced from this site in 2009.

Oil comes from organic matter, but the primary source is marine organisms.

Oil in California comes to the ground surface in natural seeps. The La Brea Tar Pits in Los Angeles provide examples of natural oil seeps.

The first commercial oil well in southern California was completed in 1866 in Ventura County.

Offshore oil wells were drilled as early as 1896 off the coast of Santa Barbara.

Approximately 279 billion cubic feet of natural gas were produced in California in 2009.

Dry natural gas (primarily methane) was first discovered for commercial use in 1933 at the Sutter Buttes.

The Sacramento Valley produces primarily natural gas and no oil, while the San Joaquin Valley produces both oil and gas.

California is the United States' largest generator of electricity from geothermal energy.

In 2008, approximately 450 wells in California produced more than 105 billion kilograms of steam. In response to the need for sustainable power and electricity, 32 new high-temperature geothermal wells were drilled compared to 12 new wells drilled in 2007.

California's production comes primarily from geothermal fields at The Geysers, Casa Diablo in Long Valley, Coso near Lone Pine, and the Imperial Valley.

California's deepest producing geothermal well is over 3.2 meters (2 miles) deep and located in The Geysers Geothermal field, about 96 kilometers (60 miles) northeast of San Francisco.

One of the largest and hottest geothermal wells in the world is located in southern California's Salton Sea Geothermal field. The "Vonderahe1" can produce nearly 2.2 million pounds of hot water in an hour, enough to power a 30-megawatt power plant.

Many geothermal resources throughout California are "low-temperature", and some are being used for non-electrical purposes, such as space-heating. The City of San Bernardino has one of the largest geothermal space-heating systems in the world.

California Shows And Events

2015

April 4 - 5: CHICO, CA

Paradise Gem & Mineral Society

Silver Dollar Fairgrounds

2337 Fair Street

Hours: 10 - 4 daily

Contact: Manuel Garcia, (530) 877-7324

Website: www.paradisegem.org

April 11 - 12: MARIPOSA, CA

Mariposa Gem & Mineral Society

Mariposa County Fairgrounds

5005 Fairgrounds Road (S. of Mariposa on Hwy49)

Hours: Sat 10 - 5; Sun 10 - 4

Contact: Randy Bolt, (209) 742-7625

Email: rockmuseum@sti.net

April 18 - 19: SAN JOSE, CA

Santa Clara Valley Gem & Mineral Society

Santa Clara County Fairgrounds

334 Tully Road

Hours: 10 - 5 daily

Contact: Frank Mullaney, (408) 265-1422

Email: info@scvgms.org

Website: www.scvgms.org

April 25 - 26: SANTA CRUZ, CA

Santa Cruz Mineral & Gem Society

Santa Cruz Civic Auditorium

Church Street & Center Street

Hours: 10 - 5 daily

Contact: Dean Welder (408) 353-2675

Website: www.scmgs.org

May 2 - 3: JACKSON, CA

Amador County Gem & Mineral Society

Kennedy Mine

12594 Kennedy Mine Rd (off Hwys 49/88)

Hours: 10 - 4 daily

Contact: Gaylene Lichty, (209) 245-5388

Email: mountaingirl@volcano.net

May 9 - 10: RENO, NV

Reno Gem & Mineral Society

Reno-Sparks Livestock Event Center

1350 North Wells Avenue

Hours: Sat 10 - 4; Sun 10 - 5

Contact: Steve Norman, (775) 358-7322

Email: snorm11@hotmail.com

Website: www.renorockhounds.com

August 29 -30: CONCORD, CA

Contra Costa Mineral & Gem Society

Centre Concord

5298 Clayton Road (near Ygnacio Valley Rd.)

Hours: 10 - 5 daily

Contact: Harry Nichandros, (925) 289-0454

Email: show-c@ccmgs.org

Website: www.ccmgs.org

CALIFORNIA FEDERATION MINERALOGICAL SOCIETIES

76th Annual

SHOW & CONVENTION

Friday, Saturday & Sunday

JUNE 12 - 14, 2015

Friday & Saturday: 10:00 - 5:00

Sunday: 10:00 - 4:00

413 East Lockeford Street

Lodi, California

November 21-22: LIVERMORE, CA

Livermore Valley Lithophiles

Lithorama 2015 is a Gem and Mineral

Show and Sale & will be held at the

'BARN' in Livermore,

3131 Pacific Ave., off South Livermore Ave.

Saturday 10:00 to 5:00

Sunday 10:00 to 4:00

info@lithophiles.com

www.lithophiles.org

Show information is available at the California Federation of Mineralogical Societies website: www.cfmsinc.org

Additional Resources:

American Federation of Mineralogical Societies website: www.amfed.org

American Lands Access Association website: www.amerlands.org

CO-OP website: www.coop.freeservers.com

Field Trips

Several members are going to scout out a couple of possible field trip areas in Northern California and will report back to the society in the near future. These areas should offer the members a place to collect in late Spring or Early Summer.

The CFMS Show will be held June 12-14 in Lodi, there should be Field Trips as part of this event.

Watch and read more about both of these Field Trips in the next couple of months.



Bill Beiriger, Editor
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info@lithophiles.com

Livermore Valley Lithophiles

Elected Officers and Club Information

Elected Officers:

President Lee Davisson (leedavisson@sbcglobal.net)
V. President Tom Johnston (tj5646@gmail.com)
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 older.)

Meetings: General Meeting – Second Thursday of each month, 7:30 p.m. Civic Center Livermore Library Community Room (**Locations change goto 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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Livermore, CA 94551-0626,
email: info@lithophiles.com

Shop open every Tuesday at 7:00 PM

General Meeting April 9, at 7:30 PM
Board Meeting - April 23, 7:30 PM