

Livermore



Lithogram

Volume XXXIX, Number 9 **Livermore Valley Lithophiles**
September 2014 **Livermore, California**

Next General Meeting:
 Thursday, Sept. 11, 2014
 Livermore Library Community Room
 7:30 PM

Program: **Chihuly Glass Garden Seattle Center**
Seattle, Washington
Bill Beiriger

Next Board Meeting:
 Thursday, Sept. 25, 2014
At the Shop
 Members are welcome to attend!

Meeting Location: Livermore Library Community Room

Refreshments: Bill Bish & Lee Davisson

Editor & Web Manager Info See page 5	
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Presidents Message:

Unfortunate as it might be to some of us, our summer is winding down, and another fall and winter season approaches. However, perhaps one thing we all can look forward to is our annual events and monthly meetings of the Livermore Lithophiles. I certainly do and I'm excited that we will be continuing our 4H lapidary project, expanding it into a separate beading project, and initiating a junior's program. I further look forward to this year's Lithorama for which we are currently planning our display cases, demonstrations, and hands-on activities.

We still have much to do, though. We still need to develop our monthly meeting programs and activities for January through June and decide on field trips for this year. This will be one topic for discussion in our September meeting; so show up with your ideas and desires!

One item that will also be discussed in earnest will be leadership positions in the club. Currently I'm Vice President and acting President. I'm thankful that we have a dedicated Treasurer and Secretary, since doing all four jobs would be silly. However, being Vice President and President is also silly. I'm willing to be either one, but let's not go through another year with this leadership deficit. Either job only

Presidents Message - continued on pg. 2

Presidents Message - continued from pg. 1

requires a little time; both by themselves are easily manageable. Plus you will get much support from a handful of dedicated and seasoned members actively involved in the Society.

So please show up at our General Meeting on September 11th and have fun and contribute your ideas. Junior members will get a free prize. We also have our raffle, coffee, desserts, and Bill Beiriger will share some beautiful pictures of his summer vacation. See you there.

Quiz Question:

Can anyone name the location where this artifact was discovered? Hint: Famous site in eastern England.



First to provide a correct answer gets a prize.

Our Junior Members Summer Photo Project

Junior Members, remember to submit your Geological Photos from your summer travels. I will publish them in the October Lithogram. Senior members if you would like to submit Geological photos I will accept them also, but they will be included when there is space in the Lithogram.

Please include the locality information with the photo and what type of geological formation is in the photo.



Minutes of the Board Meeting

August 28, 2014

Present: Lee Davisson, Bill Bish, Bill Beiriger, Dick Friesen, Andrea Rodriguez, Molly Alexander

Discussed programs for future general meetings:

Next general meeting is Thursday, September 11, 2014. Bill Beiriger will present an iMovie on the Chihuly Glass Exhibit at Seattle Center; this was the last stop on Bill & Joans Alaskan Trip.

October 9 – Molly Alexander will talk about Nicaragua and its volcanoes.

November 13 – Final plans for our 41st Lithorama Show

December 11 – Holiday Party

January 8 – Fossils

Juniors and 4-H:

Lee Davisson and Rich Hunt are doing the 4-H Club; Stephanie Goldsmith will help.

Treasurer:

No new money news.

Shop:

LARPD will provide the paint if we paint the shop. Lee will e-mail all members to join “The Paint Party” at the shop. The date has not yet been determined. Dick suggested that cabinets be built above the counters. He also stated that a flashlight is needed to navigate through the pitch-black barn in search of the bathroom. Molly dropped off a flashlight at the shop on Tuesday. Bill Beiriger will talk to LARPD about installing a 3-way light switch.

Lithorama Show in November 22 & 23:

Dick needs about 4 cases.

Demonstrations: 1) 4-H Clue
2) Beading

Put the fossil dig in the Kids’ Corner along with the treasure hunt.

Show Advertising:

Bill Beiriger is working on Channel 30 and KKIQ radio station; he will also notify the Federation. Bill will order the advertising cards to distribute to our Dealers and at other shows. Cards will also be distributed to schools and teachers just before Lithorama.

Lee suggested that we advertise the Lithorama electronically to reach more people and to save time.

Stephanie will put it on Craigslist.

The meeting adjourned at 8:35 pm.

An Ancient Threat Awakens in California

by Mark Nelson, EMT
via September CFMS Newsletter

After sleeping for many decades, an ancient threat rises from the ashes! Following a brush or forest fire many lapidary enthusiasts anticipate rocks and minerals being more visible than they were when covered with vegetation. I learned something interesting during a recent biennial Emergency Medical Technician re-certification course provided by the Los Angeles County Sheriff's Department. Many of the L.A. County Sheriff's EMT's are mountain rescue specialists and, among other things, the course updates these EMT's on hazards facing potential rescuers. One of the new hazards is the widespread growth of a plant that threatens the unwary with weeks of pain and irritation suffering. The Poodle Dog Bush, or *Turricula parryi*, is endemic to the Californias and is now being found in chaparral from the southern Sierra Nevada and San Joaquin Valley southwards to Baja California. In recent years authorities in areas such as the Angeles National Forest and in Orange County reported hikers complaints of severe reactions to contact with this colorful plant. Those hikers told of wandering through fields of beautifully colored purple flowers.

Those search and rescue members that I spoke with described the plant as having puffy and colorful flowers and leaves reminding them of a poodle dog's trimmed tail. Stimulated by intense heat, the plants are erupting in areas where forest and brush fires have burned away the other vegetation that was once hairs. On the tips of these fine hairs is a sticky chemical compound of benzoic acid that produces a most unpleasant reaction in humans. These sticky hair can be deposited on clothes or skin after the slightest contact with the plant. It is believed that breathing the air around the plants can be dangerous to lung tissue, similar to poison oak. These hairs are on the leaves and stalk all year long and the toxic effects are not seasonal.

Skin contact with this plants needles results in a delayed outbreak of intensely irritating rash, blisters, itching and pain. Search and rescue squad leaders described it to me as being ten times worse than the most severe case of poison oak dermatitis. The effects can last for a month and the current best-treatment products for poison oak - Zanol and Technu - have little effect. Experts recommend over-the-counter pharmacy products containing hydrocortisone and seeing your doctor for a cortisone injection or other treatment options should blisters develop.

When in the field avoid contact with the plant! Wear gloves, long sleeves and pants. Wash your tools at the end of the day and wash your gloves and clothes separately from other laundry. Wash skin thoroughly with soap and water after contact with the plant or with clothes. I suggest that field trip leaders in California include this plant in their field trip safety briefings on potential site-specific hazards.

Resources

<http://www.socaltrailriders.org/forum/general-discussion/59360-poodle-dog-bush-toxicity.html> <http://articles.latimes.com/2011/jul/24/local/la-me-poodle-dog-bush-20110724> http://en.wikipedia.org/wiki/Turricula_plant
When in the field avoid contact with the plant! Wear gloves, long sleeves and pants. Wash your tools at the end of the day and wash your gloves and clothes separately from other laundry. Wash skin thoroughly with soap and water after contact with the plant or with clothes. I suggest that field trip leaders in California include this plant in their field trip safety briefings on potential site-specific hazards.

Plant photos on next page.

Poodle Dog Bush or *Turricula parryi*



**Bardabunga volcano, Iceland
August Eruptions**



August 29, 2014. (Reuters/Marco Nescher)



August 31, 2014. (Reuters/Armann Hoskuldsson)

Beading Buddies Pat Iannucci



Connie Kline



Kris Swanson

Editor & Web Manager

In the last Lithogram I asked for someone to step forward and takeover the job of Lithogram Editor and the Lithophiles Web Page.

I have been thinking over that request and have a better idea, PLEASE volunteer to help fill one of the many of Director and Chairperson positions this group has. Lee has been trying to be out President and Vice-President, that is not fair to Lee and it is a hinderance to the Lithophiles.

So! I will stay on as your Editor / Web Manager; Please contact Lee and VOLUNTEER - - Bill

The Volcanoes of Alaska.

Compiled by Bill Beiriger

Information and Photos from the Global Volcanism Program - Smithsonian Institution.



Kanaga - Alaska Aleutian Islands

Last Eruption - 1995

4,288 feet

51.923°N 177.168°W

Symmetrical Kanaga stratovolcano is situated within the Kanaton caldera at the northern tip of Kanaga Island. The rim of Kanaton caldera forms a 760-m-high arcuate ridge south and east of Kanaga; a lake occupies part of the SE caldera floor. The volume of subaerial dacitic tuff is smaller than would typically be associated with caldera collapse, and deposits of a massive submarine debris avalanche associated with edifice collapse extend nearly 30 km to the NNW. Several fresh lava flows from historical or late prehistorical time descend the flanks of Kanaga, in some cases to the sea. Historical eruptions, most of which are poorly documented, have been recorded since 1763. Kanaga is also noted petrologically for ultramafic inclusions within an outcrop of alkaline basalt SW of the volcano. Fumarolic activity occurs in a circular, 200-m-wide, 60-m-deep summit crater and produces vapor plumes sometimes seen on clear days from Adak, 50 km to the east.

Photo by Chris Nye, 2000 (Alaska Division of Geological & Geophysical Surveys, Alaska Volcano Observatory).

<http://www.volcano.si.edu/world/volcano>

Shop Talk – by Frank Gouveia

Summer is here and attendance at the shop has been a bit light with most of our members enjoying the season. This means it's a perfect time to stop by the shop and enjoy a not so crowded facility. We have had some new members come by as well as our regulars. If you haven't been by lately let me tell you what's been happening.

First of all we have had the outlets to the grinders rewired with new water resistant switches that turn on the grinders and lights at the same time. Also the LAPRD has repaired the leaking roof and are replacing the ceiling that had some water damage from the leak. The library is coming along and all the books available can now be seen on our website.

The last note here is that we really need some more shop foremen to come down one Tuesday per month. Lee has been filling in for the vacancies and I think it's time he got a break. It's not a hard job and I would be willing to coach anyone who steps forward. Please help!!!

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 – OPEN POSITION PLEASE HELP US OUT!

4th Tuesday – OPEN POSITION PLEASE HELP US OUT!

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



Lynn Zirkle (Welcome Back)



Bill Beiriger (Yes! Making A Cab)

Shop Report

Frank Gouveia



Electrician 'Bill'



Electrician 'Frank'



Electrician 'Lee'



A Note From Your Editor

Lithophiles:

This society has to start doing more outreach to advertise the group. Over the years we have been doing less and less to promote the group. For the past couple of years we have had Lithorama as our major society promotion and the only major moneymaker.

The only other moneymaker project we do is the Summer Reading Program at the San Leandro Library, and this is not a total moneymaker because we buy the polished stones that go into the grab bags. This is a great outreach program, but we are not going to get new members to join the group because San Leandro is too far away from Livermore.

For our educational outreach I have the programs for the second and fourth grade classes and we also have a display at Science Odyssey at Junction School. Bill Bish also does a program at Arroyo Seco School.

Early August there was a display at the Livermore Civic Center Library showing and advertising all the groups that make up the Livermore Cultural Arts Council (LCAC) of which we are members. Nancy Bankhead, Chris Hunt and Pat Iannucci put in a case showing what types of projects the Lithophiles do; thank you. It would be great if we also put together a 'Poster' describing what the Lithophiles do as outreach programs for the community.

Lithorama, Summer Reading, LCAC, Science Odyssey and the Classrooms are the full extent of our societies outreach. We Need More.

For the past two years not one member has stepped forward to put in a display at the Alameda County Fair. This display lets the general public see and learn a little about the Lithophiles with the possibility of gaining a few new members into the society, and we also have a chance to win a monetary prize for the display.

At one time we had a booth at the Country Wine Festival in downtown Livermore. That is no longer being done because the same few people had to man the booth all day long for two days every year we have done it. This was another major moneymaking event that has fallen to the wayside.

Molly Alexander, our Secretary, gave my name to TV30 to do an interview about the Lithophiles. The interview was for their program 'A Slice of Life in Tri-Valley' and it was repeated several times a day for the month of July. As I told members in my email it is a lot harder to be in front of the camera than to be behind the camera. It was a little harder to do the interview because it was just the camera operator and myself. I hope that we may get a couple of people to join the group because of this program. On the same program, 'A Slice of Life in Tri-Valley', during the month of August Mayor Marchand mentioned the Lithophiles when he talked about the Livermore Cultural Arts Council, I sent a note to the Mayor thanking him for mentioning the Lithophiles.

I am hoping that we can do a short interview to promote Lithorama this year on TV30. We should also try some other advertising for Lithorama.

This year we only have three of the four officers we need to run this society. Also, we do not have a Federation Director or an alternate Federation Director. We should have a Fieldtrip Chairperson and several other Chairpersons. We have missed getting business accomplished at several Board Meetings because we did not have a quorum of officers present and could not conduct an official meeting. According to our Constitution The Board of Directors shall consist of the Elected Officers, the Appointed Officers and the Chairpersons of all Active Committees, we need more members attending the Board Meetings. Please go to the Lithophiles web site and then go to 'Who We Are' and then go to 'More Who We Are' and you will find a link to the Lithophiles Constitution.

The one Positive Program that has been added and is beginning to show growth is our Juniors Program. We need a greater backing of the general membership for it to keep growing and not be lost like many of our other programs.

For the internal society growth we now have an active 'Beading Buddies' Group, if you are interested and have not tried the group please contact Pat Iannucci or Andrea Rodrigues.

Lithophiles Picnic



Sand Sample Acquisition Stories

Bill Beiriger

At the Lithophiles picnic, Heidi Davisson suggested that I write down some of the interesting stories my friends and I have had in acquiring sand for my sand collection. Sometimes you just have to go that “extra step” to get what you want.

Many of my samples I have received are by writing letters to individuals and groups asking them to send me samples of sand. Sometimes they were just sent to me and sometimes I would send the postage. Some were from projects I worked on when I work at the Lab and some from very GOOD friends when they were on trips.

Sometimes there are problems when requesting sands via email. In the early 2000's email spam filters had some drawbacks. I requested a sample the Greek Island of Lesbos. The email filter would not let me send the email with the word Lesbos in it because the word was too close to lesbian. I finally had to use the name of the beach the sample was from.

One of the earliest samples was from a geological drilling site at the Qattara Depression in Egypt. Another sample was collected the day after Mt. Saint Helens erupted. It was collected for analysis to see what impact the ash might have on humans and animals. We used about a half a pound for the project and I used most of the other 25 pounds for school children when I was on LLNL's Speakers Bureau and some for trading.

I also had a friend give me a sample from the Eniwetok Atoll before Atomic weapons testing began in the Pacific. I received a sample from Vietnam by writing to the United States Embassy at Nha Trang, Vietnam. I also have a Radioactive Melt Glass, Trinitite, sample from the First Atomic Bomb Test at Alamogordo, New Mexico.

I received samples from a sand collector that he collected at the Worlds Fair in Hanover Germany. They were collected at the end of the fair and came from the pavilions for the United Arab Emirates and Fiji Islands. Another time, I sent a letter to the Arctic Science Institute at Pt. Barrow, Alaska, and asked for a sample of sand from the most Northern Point in the United States and received about three cups of sand from them.

A collector from England sent me twenty samples from the west coast of Britain. The collector would fly his ultra-lite to a beach, land, grab a sample and take off again and look for another beach.

While on a trip in New Mexico, I really wanted to add sand to my collection from White Sands National Monument but it is illegal to collect it in the National Monument. However, there is an area outside the monument where the sand has encroached onto the highway. And, since it is a highway and not a freeway it is okay to stop. I was driving on the highway from the south on the east side of the highway but the sand is located on the west side a little farther north. So I planned to stop and run across the road and quickly grab a sample. However, there was one BIG PROBLEM! About a quarter mile farther up the road is a U.S. Border Patrol Check Point, so there was no way that I was going to run across the road and chance having a border patrol vehicle stop and the officer ask what I was doing. I had to wait another six months when Joan and I were on another trip to New Mexico but this time I made sure that I was heading south so that I did not have to run across the highway.

Joe Iannucci collected 13 Samples from the I-70 road cut at Golden, Colorado. He must have gotten some stares from passing motorists because Joe was in a 3-piece suit and the wind was blowing so much that his tie was almost horizontal. The reason why Joe was not in more appropriate collecting clothes is because

he was on his way to present a scientific paper at Golden. Joe gave me the samples at a Lithophile meeting and had me open the box; I looked inside the box and said, "Thank you for the sand samples from the I-70 road cut". He asked how I knew where they came from and I said, "I knew where you were going and that is the only area that has that many different colors of sand."

A friend of mine took a trip to the Aswan Dam in Egypt. He asked the bus driver to let him stop and pick up a sand sample; the driver said, "Ed, here is your collecting site." Ed proceeded to collect a 35mm film container of sand (the amount I requested). The driver told him, "I hope you are going to bring him more than that!" and then gave Ed an empty water bottle to fill up. Several other passengers also decided to get sand. The bus had an armed escort in front and an armed escort behind.

At the mineral show in Turlock, Dr. Alan Schaffert often exhibits his collection of LARGE Ammonites. Many of the ammonites come from the Russian controlled Seymour Island, Antarctica. Several years ago, I had my sand collection at the show. And, when Alan saw it, he went home after the first day of the show and cleaned the sand out of several ammonites he had just received and gave it to me the next day. It was greatly appreciated. Antarctica sand is very hard to obtain because of the environmental restrictions and restrictions from the United Nations.

Another time I sent a letter to the Coast Guard Station at Attu Island, Alaska, this time requesting a sample from the most Western Point of the United States. I received a sample with a note telling me, "that it is the most Western Point in the United States, but it is also the most Eastern Point in the United States because it is beyond the International Date Line."

My friend Patti, who is a nurse, often travels with a medical group to third world countries to repair children's cleft palates. When she has free time, she has collected sand for me from some very dangerous areas, like Cote D'Ivoire, Ghana, Bangladesh, Tanzania, and several outlying areas in China. The most recent was to a coastal beach in Nigeria, where a man with an automatic weapon told her, "that she could not go down on his beach." And, the guard that was with her, also carrying an automatic weapon, told the man, "yes she could go onto the beach." Patti told me not to expect her to collect any more sand from that location!

Another time, Patti and her husband attended the 2007 Iditarod Dog Race in Nome, Alaska. She had to dig through about 10 inches of snow to get me a sample of sand. She put the sand in a sled dog bootie and asked me, "Do you know what the sample is in?" I said, "a dog bootie," and she replied with, "Why can't I surprise you?"

And yet another time, Patti was on a vacation in Churchill, Manitoba. Patti got off the tour bus with the rest of the people on a trip to see polar bears. The guide had everyone lineup alongside the bus for safety instructions. Patti saw sand and went to get some, but before she got five feet from the bus the guide grabbed her by the back of her coat and pulled her back. He asked, "Where are you going!" and she said, "To get some of that sand." He said, "There may be a bear behind that boulder."

When we were on a recent trip to Alaska, I asked young women in two different towns if they would please send me sand from a local beach because I did not have the time to collect it. Joan said to the last woman, "You are the second woman he has asked to send him some sand."

My sand stories go on and on and I better quit before you get tired. But you can see from the stories, that my friends and I really do go to extra steps to add to my sand collection.

Thank you, Heidi for giving me the story idea.

Field Trips

Some of the lithophiles went on a field trip to Black Chasm Caverns on June 21. We saw many interesting formations including helictites, which are a rare cave formation, only found in 5% of discovered caves and only four caves in the US; Black Chasm Caverns, Lechuguilla Caves, Timpanogos Cave, and Wyandotte Cave. Helictites are formed when water seeps through extremely tiny holes. Due to capillary forces the water will stick on the hole for a while and deposite tiny crystals of calcite which eventually grow into helictites. However not all helictites are hollow and some are under water so this may not be the way they form.

Article - Charles Siders Photos - Jennifer Siders



California Shows And Events

2014

September 20 - 21: CHICO, CA
Feather River Lapidary & Mineral Society,
 Oroville
 Silver Dollar Fairgrounds
 2357 Fair Street
 Hours: Sat 9 - 5; Sun 9 - 4
 John Scott, (530) 343-3491
 Email: jweazel@sbcglobal.net
 Website: www.featherriverrocks.org

September 27 - 28: MONTEREY, CA
Carmel Valley Gem & Mineral Society
 Monterey Fairgrounds
 2004 Fairgrounds Road
 Hours: Sat 10 - 6; Sun 10 - 5
 Contact: Janis Rovetti, (831) 372-1311
 Email: janis12@sbcglobal.net
 Website: www.cvgms.org

September 27 - 28: SANTA ROSA, CA
Santa Rosa Mineral & Gem Society
 Wells Fargo Center for the Art
 50 Mark West Springs Road
 Hours: Sat 10 - 6; Sun 10 - 5
 Jolene, (707) 528-761S
 Email: Jolene@srmgs.org
 Website: www.srmgs.org

September 27 - 28: LODI, CA
Stockton Lapidary & Mineral Club
 Lodi Grape Festival Grounds
 413 East Lockford Street
 Hours: 10 - 5 daily
 Contact: Jerold Kyle, (209) 368-9411
 Email: jeroldkyle@yahoo.com
 Website: www.stocktonlapidary.com

October 10 - 12: RENO, NV
Reno Gem & Mineral Society Craft Show
 Reno Town Hall
 Corner of Peckham & So. Virginia Street
 Hours: Fri 10 - 6; Sat 10 - 5; Sun 10 - 3
 Contact: Theresa Langhans, (775) 475-0842
 Email: theresalanghans@yahoo.com
 Website: www.renorockhounds.com

October 11 - 12: ANDERSON, CA,
Shasta Gem & Mineral Society
 Shasta County Fairgrounds, Briggs
 Street, Hours: Sat 9 - 5; Sun 10 - 4
 Steve Puderbaugh, (530) 604-2951,
 Email: steve@applyaline.com
 Website: www.shastagemandmineral.com

October 11 - 12: GRASS VALLEY, CA
Nevada County Gem & Mineral Society
 Nevada County Fairgrounds, 11228 Mc-Courtney Road
 Hours: 10 - 5 daily
 Contact: Todd Lawson
 Email: ncgms@hotmail.com
 Website: www.ncgms.org

October 18 - 19: PLACERVILLE, CA
El Dorado County Mineral & Gem Society
 El Dorado County Fairgrounds, 100
 Placerville Drive
 Hours: 10 - 5 daily

Contact: Bob Graton, (530) 676-2472
 Email: info@rockandgemshow.org
 Show Website: www.rockandgemshow.org
 Club Website: www.eldoradorocks.org

November 22-23: LIVERMORE, CA
Livermore Valley Lithophiles
 Lithorama 2014 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

Livermore Valley Lithophiles

Bill Beiriger, Editor
P.O. Box 626
Livermore, CA 94551-0626
info@lithophiles.com

We're on the Web at www.lithophiles.org



Elected Officers and Club Information

Elected Officers:

President OPEN
V. President Lee Davisson (leedavisson@sbcglobal.net)
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:
Bill Beiriger,
Livermore, CA 94551-0626,
email: info@lithophiles.com

Shop open every Tuesday at 7:00 PM

General Meeting Sept. 11th, at 7:30 PM
Board Meeting Sept 25th 7:30, At the SHOP