



Livermore

Lithogram

Livermore Valley Lithophiles

Livermore, CA

Next General Meeting

April 13th, 2016

7:30 pm

Community Room
Civic Center Library

Program: Treasures of the Earth

Refreshments: ?

Next Board Meeting

4th Thursday of the month
at the Shop.

All Members are welcome
to attend!

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Monthly Mineral - Paraiba Tourmaline

by Lee Davisson

In the 1980s in northeastern Brazil in the Paraiba area, a brilliant turquoise-blue tourmaline variety was discovered. The blue color is imparted by trace levels of copper. Other locations where these varieties have been discovered are Nigeria and Mozambique. Tourmalines occur geologically in pegmatites, which are accumulation of all minerals at the top of a magma chamber that are chemically incompatible with the magma's main composition. As a result, pegmatites are where all the exotic minerals grow slowly, forming large crystals. In the Paraiba area pegmatite, the Paraiba Tourmaline occurs in the center zone as relatively small fan-like crystals surrounded by quartz and other accessory minerals. Mining was done by hand in order to extract them. The pegmatite is rich in Elbaite (multi-color tourmaline) and much of the mineralogy was replaced late in its formation by lepidolite. Paraiba Tourmaline is exceptionally rare because they are no longer mined, and will cost thousands of dollars per carat. Recognizing a Paraiba Tourmaline requires examining a crystal in different light (bright and dim). It has a brilliance that is internalized rather than just a sparkling character.



<http://www.gemsncoins.com/wp/paraiba-tourmalines-a-million-times-rarer-than-diamonds/>

State Fossils

Maine State Fossil

Bill Beiriger

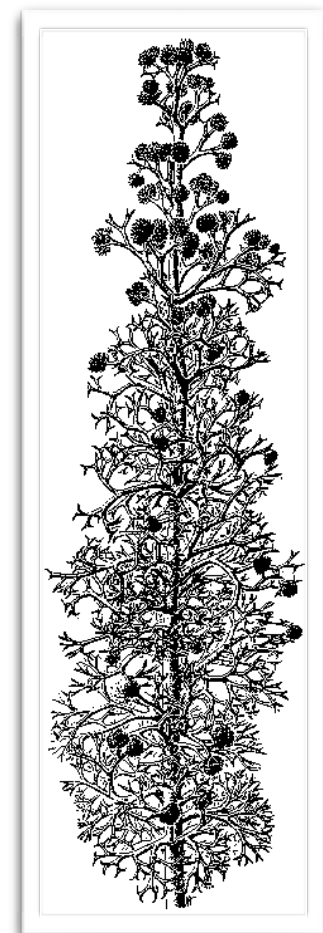
Pertica quadrifaria, Primitive Plant, adopted in 1985

They lived in the Early to Middle Devonian Periods, around 420 to 380 million years ago.

The fossils were first discovered in 1968 in the Trout Valley Formation, Baxter State Park near Mount Katahdin. They lived in a brackish freshwater march in an active volcanic area. They may have reached a maximum height of about six feet.

The plants contained both sterile and fertile branches on the same stem. The fertile branches ended in clusters of sporangia receptacles containing asexual spores. These are similar to what we see on the under leaves of modern day ferns.

This is an extinct species of a fern-like plant that lived 390 million years ago.



Minutes of Lithophile Meeting

February 9, 2017

Guest Speaker - Johanna Fenton is a GIA Gemologist, an AJP, and a Geologist.

(GIA = Gemological Institute of America; AJP = Accredited Jewelry Professional)

In 2003, she opened Mochi's Gifts to sell the jewelry that she has designed and carefully handcrafted using gemstone beads.

The web site is www.mochisgifts.com. Johanna brought some beautiful jewelry samples.

As a geologist, Johanna also shared some tips:

Test hematite on porcelain. If the streak is dark red, it is real; if the streak is black, it is fake.

Wipe lapis lazuli with hand sanitizer. If the color comes off, it is fake.

Black onyx is dyed.

Pearls and jadeite are often bleached.

There was no board meeting on February 23, 2017.

Minutes of Lithophile Board Meeting

March 23, 2017

Present: Lee Davisson, Bill Bish, Bill Beiriger, Stephanie Goldsmith, Molly Alexander

Bill Bish got the permit from and paid the fees to LARPD for the 2017 Lithorama in The Barn.

April 8, 2017 is the next meeting of the North Bay Coop to plan field trips. This year it is in Vallejo and costs \$5. Starts 10:00 am and lasts a few hours.

Suggested field trips for Lithophiles:

1) gold panning in Senora. See if enough people want to go on a Saturday or Sunday.

2) jasper in Arroyo Mocho

With the warmer weather, club members will start going through the boxes in the loft.

Stephanie suggested we put a large sign up in the shop announcing the date, time, and location of the next Lithophile meeting.

Bill Bish is buying the DVD Treasures of the Earth that has sections on gems, mines, and minerals. A portion of the DVD will be shown at the next Lithophile meeting on April 13, 2017.

Beading Buddies

The next meeting of the Beading Buddies will be Saturday April 22, 1-4 PM at Dick and Andrea's house, 787 Joyce Street, Livermore. We will be making Deborah Roberti's Silky Stacker bracelet. Kits will be \$5. Please remember to print out the instructions and to bring your own Fireline.

Pat



California Shows & Events

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

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

Website: www.scrockngem.org

May 5 - 7: YUCAIPA, CA

Yucaipa Valley Gem & Mineral Society

Yucaipa Music & Arts Festival

Yucaipa Blvd and Adams Street

Hours: Fri 6 - 9; Sat 12 - 10, Sun 12 - 6

Contact: Lee Peterson, (909) 794-0731

Website: www.yvgms.org

May 6 - 7: JACKSON, CA

Amador County Gem & Mineral Society

Kennedy Mine

12594 Kennedy Mine Rd (off Hwy 49/88)

Hours: 10 - 4 daily

Contact: Gaylene Lichty, (209) 245-5388

Email: mountaingirl@volcano.net

Website: amadorgemandmineral.org

May 6 - 7, 2017: RENO, NV

Reno Gem & Mineral Society

Reno Livestock Event Center

1350 North Wells Avenue

Hours: Sat 10 - 5; Sun 10 - 4

Contact: Daniel Ellis, (775) 359-6068

Email: sailondan55@aol.com

Website: www.renorockhounds.com

May 6 - 7: ANAHEIM, CA

Searchers Gem & Mineral Society

Brookhurst Community Center

2271 W. Crescent Avenue

Hours: Sat 10 - 5; Sun 10 - 4:30

Contact: Margaret Hogarth, 909 815-3045

Email: hogarth.m@gmail.com

Website: www.searchersrocks.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

August 19 - 20: SAN FRANCISCO, CA

San Francisco Gem & Mineral Society

San Francisco County Fair Building

9th Avenue & Lincoln Way

Hours: Sat. 10 - 6; Sun. 10 - 5

Contact: Ellen Nott

Email: ellen_nott@yahoo.com

Website: www.sfgemshow.org

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 Lee Davisson
leedavisson@sbcglobal.net
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, 7:30 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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