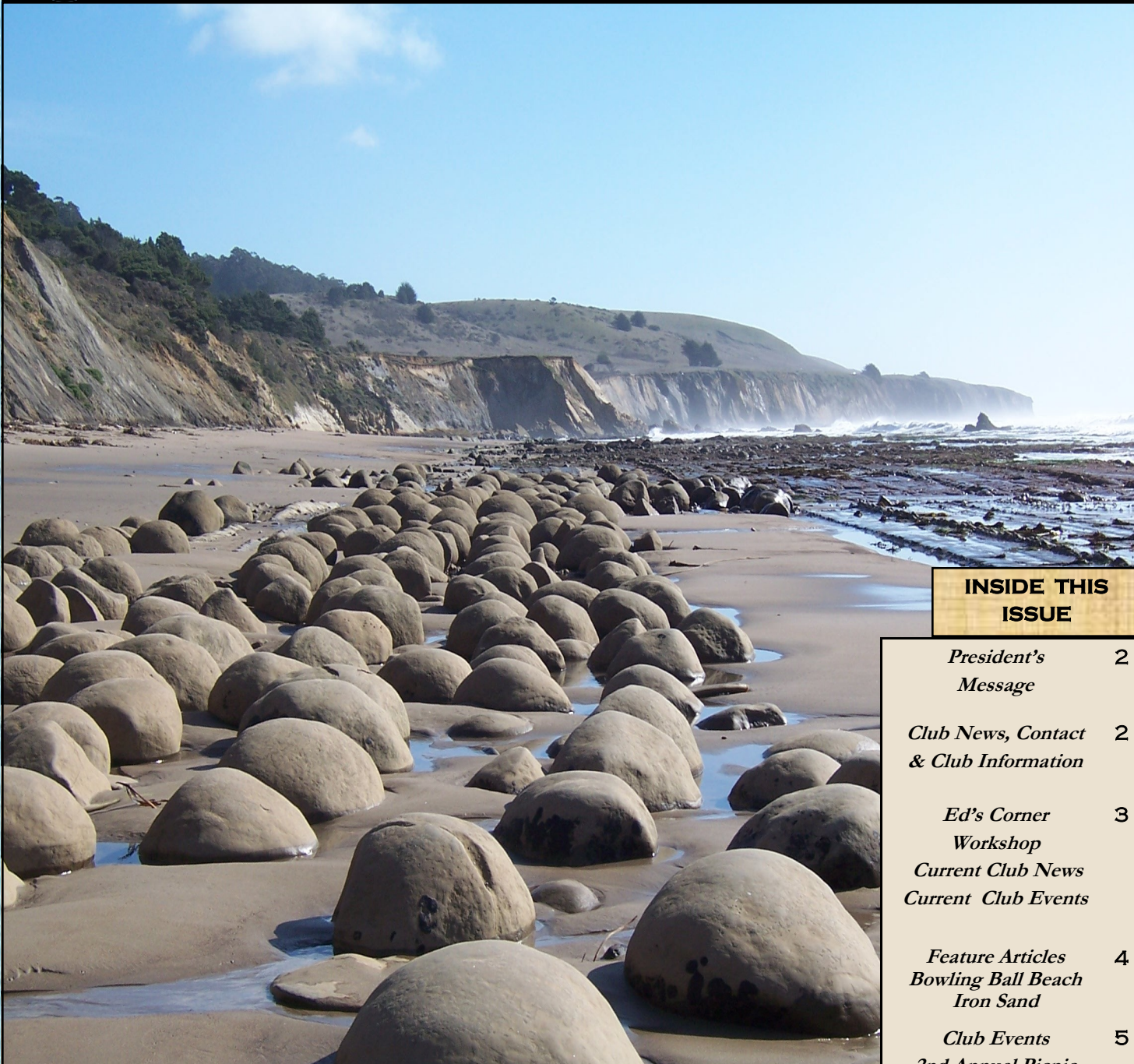




ROCKHOUND RAMBLINGS

JULY, 2014

THE NEWSLETTER OF THE PASADENA LAPIDARY SOCIETY - PASADENA, CALIFORNIA



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No - this is not a photo of alien orbs invading our shores! It is a photo of **BOWLING BALL BEACH** by the author. This remote natural location illustrates some of the wonderful effects of nature on our planet. Bowling Ball Beach is located on California Highway 1 - three miles south of the town of Point Arena near Schooner Gulch State Beach on the California Coast. The beach's close proximity to the intersection of the Gorda, Pacific and North American tectonic plates have combined with geologic processes to create a remote and beautiful area that is well worth the time to visit this summer.

Continued on page 4



President's Message



Dear Members,

We had a great time at our second annual Society picnic! If anyone went home hungry it would have been their own fault.

Everything was delicious (or so I heard because I wasn't able to sample everything)! It was relaxing and we

got to spend time with our friends to talk about the CFMS show and other recent events.

Keep in mind we are looking for members to give a 5-minute talk at the general meeting about an interesting rock, mineral or how they are used in our lives.

Summer is here and some of us will be heading out to go on vacations. While traveling you may find something to tell us about. We are an

easily entertained group, and we love rocks of any kind.

Enjoy yourselves and bring back a story and photos of the rocks you acquire!

See you at the next meeting!

..... *Marcia*
Marcia Goetz, President

Meeting and General Club Information
By Linda Nelson, Secretary

Officers

Marcia Goetz, President
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joenmar1@verizon.net

Martha Wilson, Vice President
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Newsletter Articles, ads or corrections should be sent to the editor: **Mark Nelson**, 1475 Paseo Maravilla, San Dimas, CA, 91773. (909) 996-1784 or by email to: pasadenalapidary@aol.com

June Board Meeting

The June Board Meeting was cancelled due to Martha's illness. A suitable location could not be found in time to reschedule the meeting. If anyone knows of a room that might be available at short notice on the second Tuesday of the month, please let our Secretary know.

June Program Meeting

At the Rock Of The Month talk Chris Kyte showed us the inside and outside views of geodes.

June Program Meeting

Gabriel Mosesson's talk about Ethiopian Welo opals was so popular that the Library nearly had to move us out while we were still meeting!

Accordingly, we are moving the meeting start time to 6:45pm and ending at 8:30pm. After clean-up we will need to be out of the library at 8:45pm.

July Program Meeting

"Fossils of the San Gabriel Valley" Do you know you can find various fossils in our own backyard? Keith

July Program Meeting

Krzywiec, the founder of West Coast Fossil Paleontology, will present the fossils found throughout the Los Angeles area. Many are dated back from the mid to late Miocene Epoch. Our audience will have an opportunity to view his prize collection of more than 80 specimens including fish, fossil plants & wood, shells, whale bones and more!

The visual presentation and discussion includes an introduction of geological history and identification of the artifacts on display.

Membership Information and Meeting Locations

Membership per calendar year is \$20, \$15 for a second adult member in the same house. Junior members and the third or more members at the same house are \$10. Initiation fee is \$2.00 per person and membership badges are \$7.50. Renewals are due by the October General Meeting and delinquent after December 31st. Mail checks for membership to P.O. Box 5025, Pasadena CA 91117-0025.

Website: pasadenalapidarysociety.org

Email: pasadenalapidary@aol.com

Board Meetings: 7:15 PM on the second Tuesday of the month at the Plymouth Campus of the Monrovia Adult School. Map and directions are on the website. All members are welcome to attend!

General Meetings: Monthly at 6:45 PM - 8:30 PM on the third Tuesday at the Pasadena Central Library at 285 E. Walnut Street. **Guests are always welcome!**

Field Trips are scheduled each month. Refer to the bulletin and website for date, location and info.

Workshop: The use of the club's equipment is available to members from 9am to 5pm on the 2nd Sunday of each month in our shop at 123 E. Montecito Ave., Sierra Madre. There are two sessions - from 9am to 1pm and 1pm to 5pm. Equipment proficiency is required and instruction is free. Fees are \$3 per session or \$5 for a full day. Bring lunch!

Safety: Liability waivers, eye protection, closed-toe, flat-heel shoes and machinery safe-practices are mandatory for all participants. Workshops and field trips are for adult members and juniors with adult supervision.

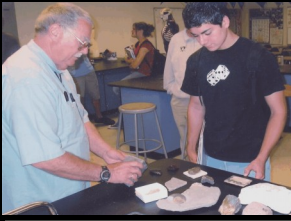


The Annual Club Show is held the second weekend of March at the Masonic Center, 3130 Huntington Drive, San Marino.

Advertising - a business card size ad is available for \$99 per year or \$10 per edition. Submit text, logos, business card or other copy to the editor at the address or email listed on this page.



Ed's Corner



Ed Imlay at a local school

EDUCATIONAL OUTREACH

By Ed Imlay
Chair, Education Committee

To schedule my educational presentation to your group or school contact me by phone at (626) 286-8215 or by email at edimlay@hotmail.com.

Identification: Would you like to know the name of a rock you have acquired? Set it on the table at the rear of the meeting room with a note asking "What is this?" If the interior of the stone is not evident, chip a small piece off or "window" it to reveal the interior (if it will not damage the appearance of the specimen).

Display Table: For the July meeting, please display any items of general interest, especially workshop projects, material from locations of recent or upcoming field trips, and the birthstone of the month: **Ruby**

**The glowing ruby shall adorn,
Those who in July are born;
Then they'll be exempt and free
From love's doubts and anxiety.**



Gregorian Calendar

Please note Jennifer Jang's new phone number: (626) 602-6913

WORKSHOP

Wire Wrap Class



At the July 13th workshop Becky Fregoso and Marcia Goetz will be teaching a class on how to wire wrap a cabochon. The class will be from 11:30am to 1:30pm. There will be some cabochons available for purchase and the money goes to the club.

Please bring round nose pliers, flat nose, chain nose and flush cut wire cutters if you have them. I have a few extra to bring if you do not have any tools. Bring 22 GA square wire and 18 GA half round. I will bring copper wire in these gauges for anyone who needs some wire for their project (at no cost). The grinders will be shut down during the class for at least the first hour. It should be a fun and productive class!

Carolyn Duncan Workshop Chair

Help Needed

Historian: A club member is needed to help compile and organize our club's history.

Librarian A club member is needed to help organize our reference library which is housed in the building where we have our workshop.

Yearbook Committee: We will be entering the AFMS All American Club competition and need about 10 members to help put the yearbook together as information is gathered throughout the year. Its a type of scrap book in a three-ring binder.

If you can help with any of these projects or would like to discuss what they involve please let us know at pasadenalapidary@aol.com

**Welcome
New Members !!**



Welcome to Anne Liu of Rosemead! Anne is a student and the daughter of Sharon Yu. She enjoys searching for, and working with, rocks and is looking forward to helping with publicity, programs and refreshments!

Share the lapidary and jewelry hobby. Invite your friends and neighbors to one of our monthly meetings to learn more about the Pasadena Lapidary Society!



ROCK OF THE MONTH PRESENTATION

To be scheduled to tell the members about one of your favorite minerals please call or email Martha Wilson or pasadenalapidary@aol.com.

The Program Meeting: Your time to get acquainted, identify your rocks and minerals, swap with your friends and share a refreshment with others. Put a cloth under any rocks you bring to the display table for an ID or swapping. Remember - the library prohibits selling and all activity must be completed before the meeting start at 6:45pm. Doors open

Job Opportunity: King Baby Studio is seeking a stone polisher in their Santa Monica studio. Experience required in lapidary equipment, slabs and cabochons. \$14/hr. Send resumes to mitchell@kingbabystudio.com with the subject line "Lapidary Job Posting".



Meeting Refreshments —

Thanks to Mona Ross and Martha Wilson for June's refreshments! Susan Carter SooHoo, Ferdie and Paolo Sanchez are scheduled for the July meeting. Thanks also to all who signed up last month! **We still need volunteers for January and February 2015.** ∞ Contact me at (323) 664-9598 or by email at mikekrose@roadrunner.com. Trudy Krose



Sunshine:

Club members Bridget Bergman and Briana Casay are recovering from surgery. ∞ CFMS President Jennifer Hailey is being treated for heart problems. ∞ The elderly uncle of Nadine Ishizu passed away. We hope all is well and our thoughts are with them.

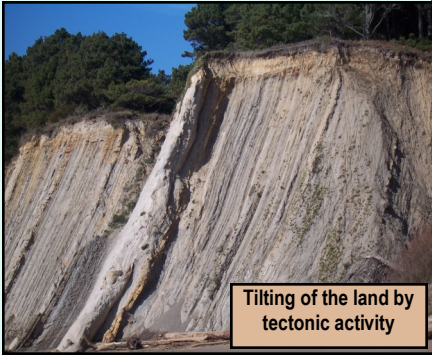
Do you know anyone who is not feeling up to par, has been sick or lost a loved one? On the silver lining side of things, do you know who has achieved a goal, won a personal victory, or done something that deserves recognition? The Sunshine Committee to send cards and words of comfort, support and congratulations. Notify Trudy Krose at (323) 664-9598 or by email at mikekrose@roadrunner.com.



Bowling Ball Beach

by Mark Nelson
Pasadena Lapidary Society

These "bowling balls", scattered along the beach, are actually concretions. The word 'concretion' is derived from the Latin words **con** meaning 'together' and **crescere** meaning 'to grow'. We saw examples of septarian concretions displayed by Gloria Biesterfeld at the recent Federation show. A concretion is a hard, compact mass of sedimentary rock formed by the precipitation of mineral cement. They form over millions of years, usually early in the burial history of the sediment, before the rest of the sediment is hardened into rock. This concretionary cement often makes the concretion harder and more resistant to weathering than the host stratum.



Tilting of the land by tectonic activity



Sea Stars and Abalone Shells are found at low tide

As you can see in the photos, the earthquake and tectonic activity in the area has caused the once-horizontal sediment to be lifted and tilted almost vertically. This aids in the weathering of the cliffs that expose the concretions and result in their dropping onto the beach.

A short hike across the bluff top and a scramble down a dirt path will take you to Bowling Ball Beach. The trail and the stairs down the cliff have eroded considerably in the past few winters so be careful. The unique stone orbs that give this beach its name are quite visible during low tide. Also visible then are sea stars and abalone shells.



Linda Nelson gets close to the round concretions.

Research sources: www.pointarena.net/places/bowling-ball.html
<http://en.wikipedia.org/wiki/Concretion>

Photos: Taken on location by the author.

Iron Sand

Article and Photos by Paolo Sanchez
Pasadena Lapidary Society

One day, when I was at the beach, I coincidentally had a magnet with me. But what happened was that I accidentally dropped it into the sand. I thought that the magnet would look and stay the same when I was about to pick it up. But once I did, the whole magnet was covered in a very fine, black, sand that was attracted to it. Later on, I discovered that this strange material was called **iron sand**.



Iron sand is named for its large amount of iron that composes most of the sand. But it is also called black sand or iron filings. Due to the heavy concentrations of iron in the sand, it can be easily picked up by a magnet. This sand mostly contains the mineral magnetite yet it can contain hematite and other iron ore minerals, which makes it easily magnetized. It can also contain different elements like titanium, vanadium, manganese, calcium, and sometimes precious metals, like gold and platinum. It is extremely common, and can be found all over the world, especially on the beaches and shores of all continents, or anywhere where there is fine sand made of iron-rich rock.

The formation of iron sand, like all other sands in the world, is actually quite simple. This sand originates as iron ore or (very rarely) from iron meteorites or space dust. After many years of erosion and weathering, the parent rock crumbles and weathering brings the particles of iron in the rock down to fine particles. Then, the newly-formed iron sand gets carried away, and it gets deposited in places where most sands would deposit, like in places where a river merges with the sea. But since this sand is heavier than most sands, it sinks to the bottom, or it just gets trapped in rock crevices, like gold.

That is why many gold prospectors find this sand in the bottom of their gold pans.



But you do not need a gold pan to find iron sand. All you need is a simple magnet and a good location to find the sand - like a sandy beach or a river bank. In some countries, like New Zealand, large magnets pull tons of iron sand from beaches to be refined to make steel. Even though iron sand doesn't really have a high value to it, it is still a really amusing object to play with when it is magnetized.

Dobell Ranch Petrified Wood

Holbrook, Arizona
Great selection and prices on petrified wood!
Open every day!

AZ-77 south from the center of Holbrook. At the intersection of US 180, turn left for 12.6 miles. Turn left at a white sign for the historic visitors museum with a drawing of a female deer and a bell (Doe-Bell). Drive the old paved highway lined with petrified wood until it ends at the Dobell Ranch. Ask for Gordon Dobell or Tonya Black! Fill a 5-gallon bucket with petrified wood or select larger pieces for your own museum!



DoBell Ranch Petrified wood.
- Photo by Editor.



Tonya Black

Show a copy of this ad for a Special Rock Club Discount!



2nd Annual PLS Picnic - June 22, 2014



There was great weather, food and friendship at Arcadia Park this day!



Tim Dirks (left) had a good seat at the Petanque tournament (below).



Mary Kirmil (right) and Elizabeth Weston were the event photographers.



Ralph & Becky Fregoso (above) and Ed Imlay (right) worked hard to set up this year's picnic.



Bob Brice and Philip Lahr at the Cerro Gordo Mine

File photo by Mark Nelson



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Pasadena Lapidary Society Member



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Joe Goetz
Field Trip Chairman

FIELD TRIPS

By Joe Goetz
Palos Verdes - July 12th



Chris Kyte will lead this popular day trip to collect glaucophane, barite and dolomite. We will start at 9am at the parking area along the bluff adjacent to 650 Paseo del Mar, Palos Verdes Estates. Here we will collect glaucophane, agate and barite. Following this we will visit the old dolomite quarry.

Equipment: Small rock pick, spade or a collapsible shovel. Something to carry rocks in (bucket, knap sack or wheeled carrier for rocks). Bring water and snacks, sun screen, basic first aid and a hat. The trail at the first stop is wide but not completely level and has about a 100' elevation gain in 600 horizontal feet.

Clothing: At the beach shorts are good, but bring a sturdy pair of shoes or boots - it's very rocky and walking is required. At the old quarry we will surface collect in the brush, so wear long pants for brush if you opt to continue to this location.

I found Barite !



DETAILS: For trip details, map and directions refer to the calendar page of the website:
www.pasadenalapidarysociety.org

As usual, please confirm with me if you are planning to attend so that I can keep you updated on the trip or notify you if it changes in any way. (626) 914-5030.

GOING somewhere in California Joe Goetz



Editor's Quiz

- Juniors:** Which tectonic plates are closest to Bowling Ball Beach ?
- Adults:** What are the primary minerals found in Iron Sand ?

This month the answers can be found in this bulletin and on our web site! The first Adult and Junior Member to correctly answer these questions will win a special prize at the Meeting. See the Editor's contact info on page 2.



Congratulations to Mona Ross - for being the first person to respond with the information that the person who brought the wagon of silver from Cerro Mine to Los Angeles was Mortimer Belshaw in 1868.



Unfortunately - there were no correct responses to the Junior Question regarding the importance of drinking water.



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FEDERATION NEWS

by Joe Goetz, Federation Director

CFMS - California Federation of Mineralogical Societies

The CFMS is already preparing for the June 12th - 14th 2015 Annual Show & Convention in Lodi. Margaret Kolaczyk is the Show Chair. As with every show we are asking for your help to make it a special one. We are expecting large herds of kids, wide eyed and full of curiosity at the show. Part of the fun is showing them what we are good at, and grab bags are always at the top of the list. We would love to have our societies donate grab bags filled with rocks and minerals for the kid's booth.

It was very apparent that all of you loved the live auction at the Cracker Barrel in Pomona, so we are bringing it back for the 2015 show. We are calling on all Federation Directors, CFMS Officers and CFMS Chairmen to bring 5-10 slabs from your club. All proceeds will go to the CFMS Endowment Fund. From all of us at CFMS, thank you so much for your help! **Jennifer Haley - 2014 CFMS President**

AFMS - American Federation of Mineralogical Societies



The 2014 AFMS Convention and Show, hosted by the Rocky Mountain Federation, will be held July 9th to the 13th, 2014. The show is at the Tulsa Fair Grounds, 4145 E 21st Street, Tulsa, OK.

The theme of the show is *Rocks and Gems of the Indian Territory*. Convention Location is the Hilton Garden Inn, 4518 East Skelly Drive, Tulsa, OK 74135-3225 (918) 878-7777

Upcoming Events: August Field Trip

Our field trip leader will have information for us about the trip in the August bulletin. For those of us who like to plan ahead to maximize our time off work for field trips, the August field trip will be Saturday, August 2nd, to the **LOS OLIVOS** area to collect Serpentine, the California State Rock. While in this area we hope to collect Cinnabar and to stop at Tajiguas Creek for fossilized whale bone.

This is also the same weekend as the Nipomo Show, 35 minutes north of Los Olivos. This presents an opportunity for members to take Friday off work to visit the Nipomo show on Friday and then to meet the group at Los Olivos Saturday morning where we would work our way down to Tajiguas Creek. Alternatively, a person could attend the field trip on Saturday and then drive 55 minutes north to Nipomo. Editor.



HINTS, TIPS AND SAFETY

Preventing Scratches on Wire-wrapped Cabochons By Dale "Cougar" Armstrong



1. Never use a twisted wire as the wire to pull over the top of a cabochon. Use a flat or round wire.
2. Be sure you have used enough wires for your cabochon frame, because having to reach down with a tool and pull a wire up and then bend it over a cabochon can scratch the cab.
3. Practice your cabochon ring and pendant frames using stones with a Mohs hardness of 6 or more, such as quartz, jasper, and agate. When you are more confident with your tool techniques, then move on to softer stones such as malachite.

Dale "Cougar" Armstrong is a regular contributor to Wire-Sculpture.com, an on-line supplier of wire, beading, tools and related lapidary supplies.

Did you know that the colors in a fireworks display are produced by minerals or mineral compounds?



- Bright white colors are made with barium.
- Deep REDS are a product of strontium.
- BLUES come from copper.
- SILVERY WHITE by a mixture of titanium, zirconium and magnesium
- LAVENDER is obtained using a copper and strontium mix.
- Iron hematite filings and particles of charcoal produce GOLD sparks.
- Bright flashes are created by using fine ground aluminum powder.
- Magnalium produces a tiny series of silvery-white flashes.
- Aluminum, antimony sulfide and perchlorate also produce flashes

Fireworks are just one more example of how we use minerals for the manufacture of everything from automobiles to toothpaste!

Source: rocksaruiminerals.com/fireworks (originally published by US Bureau of Mines)

LOCAL ROCK AND GEM SHOWS

JULY 11-13 PASADENA: International Gem and Jewelry Show, Pasadena Convention Center, 300 East Green Street, Pasadena, CA. Hours: Friday 12PM-6PM, Saturday 10AM-6PM, Sunday 11AM-5PM. Free admission to all active duty military and veterans with current military identification (offer includes immediate family). Thank you for your service to our country! Children 8 & under not permitted. Admission coupons at www.intergem.com/coupons or by contacting the exhibitors listed on the web site: www.intergem.com/shows/upcoming-shows.

Look for the gem shows symbol on the calendar on page 8.



Please plan to attend one of the shows and businesses listed on this page, and wear your shirt and club badge when you do! - Editor

24 - 27 PASADENA: Pasadena Bead & Design Show, Pasadena Hilton, 168 S Los Robles Ave, Pasadena CA - 300 Artisan Booths • Merchant Displays • Galleries • Workshops. 10am to 6pm daily

August 1-3 NIPOMO: Annual show; Orcutt Mineral Society; Nipomo High School; 525 N. Thompson Ave.; Fri & Sat. 10-5, Sun. 10-4. Free admission; more than 60 indoor dealers, outdoor tailgaters. Web site: www.omsinc.org

Do you know of a show in the Southern California area that we have missed? Please send information to pasadenalapidary@aol.com and we'll get it our members.

Member - To - Member

WANTED: Society bulletins, minutes, correspondence, awards, photos, officer and member lists from before October 2009. Any condition. If you have any, bring them to a club function or email the club to arrange a pick up. We are building our Yearbook and need to know more of our history! We'll copy and return them to you.

Members are welcome to place a FREE message for items or services wanted, for sale or for trade. Email submissions to pasadenalapidary@aol.com.



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ROCKHOUND RAMBLINGS

**JULY
2014**

The Pasadena Lapidary Society, Inc.
Bulletin Editor:
 1475 Paseo Maravilla
 San Dimas, CA 91773-3908

First Class Mail

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REQUESTED**



Founded 1946

OUR MISSION

The Pasadena Lapidary Society serves to educate its members and the community in mineralogy, earth sciences and training in the lapidary and jewelry arts – while promoting sound mineral resource stewardship based on environmental awareness and ethical behavior. The Society fulfills its mission year-round which may include field trips, lapidary workshops, outreach presentations, public mineral displays, an annual show, and monthly informational meetings open to the public.



**Classic Ruby Pendant
Setting**



The Pasadena Lapidary Society is affiliated with the California and American Federations of Mineralogical Societies. Our editor is a member of the Special Congress Representing Involved Bulletin Editors.

July 2014

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|---|------------------------------------|---|---------------------------------|---------------------------|---------------------------------|---|
| Program Meeting Note the new start time for the meeting! 6:45 PM | | 1 | 2 | 3 | Independence Declared | 5 |
| 6 | 7 | 8 Board Meeting | 9 Baha' Martyrdom of The Bab | 10 | 11 1804 Hamilton - Burr Duel | 12 Field Trip Full Moon |
| Workshop 13 | 14 Obon - Shinto | Program Meeting | 16 | Disneyland Opens 1955 | 18 | 19 Rosetta Stone found in Egypt - 1799 |
| First Man on Moon 1969 | 21 | George Washington takes command of U.S. troops 1775 | 23 | 24 | 25 | 26 New Moon |
| 27 | 28 Delta Aquarids Meteor Shower | 29 | 30 Father - In - Law Day | 31 Eid al Fitr - Islam | 1 | 2 Field Trip |