



Bulletin of the Mineralogical Society of Southern California

Volume 89 Number 4 - April, 2016

The 932nd meeting of the Mineralogical Society of Southern California

With Knowledge Comes Appreciation

April 8th, 2016 at 7:30 P.M.

**Pasadena City College
Geology Department, E-Building, Room 220
1570 E Colorado Blvd., Pasadena**

Program: Mount Saint Helens presented by Tony & Sandie Fender

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Remember: If you change your email or street address, you must let the MSSC Editor and Membership Chair know or we cannot guarantee receipt of future Bulletins

About the Program: Mount Saint Helens presented by Tony & Sandie Fender:

MOUNT SAINT HELENS - On May 18, 1980 Mount Saint Helen's erupted with a violence that was not predicted. This talk is a before and after look at Mount Saint Helen's 1980 Eruption.

Tony and Sandie have a special love for this Mountain, Tony was one of the last people to be at the Mountain before the eruption. and now they visit the Mountain every chance they get.

Tony and Sandie are both teachers and enjoy spending as much time as possible in the Mojave Desert. When they are not doing Lapidary work, Silversmithing, Beading, attending Gem & Mineral shows throughout the state, they are usually hiding out in the wide-open spaces of the Mojave with their dogs.

From the Editor: Linda Elsnau

Here's hoping April Fool's Day and Tax Day don't catch you by surprise. 2016 is already 1/3 gone! How did that happen so *fast*? Seems the older I get, the faster time flies! We are only a couple of months away from the LA Museum's Urban Fest and MSSC is planning on being there again. Please check out Rudy's announcement and let him know if you can give him any help. You will also see a special "out of area" show announcement as requested by Bob Pederson, one of our long-distance members. Looks like an interesting program for April so I hope you can make it to the meeting.

MEANDERINGS FROM THE PRESIDENT by Ann Meister

Not much this month – what a great season of fragrant flowers and pollens and whatever. So my brain and I aren't communicating with each other right now which makes coherent writing difficult: oxygen starvation does weird stuff. Seasonal allergies triggering asthma and perhaps a bit of a virus thrown into the mix along with the associated meds have made me a zombie or are totally knocking me out. There's nothing like wheezes, sneezes and coughs to ruin your day. Though El Niño was a bust for us, there was enough rain along with a warm February to wake up the plants and get them blooming. I wish you all a happy and healthy Spring. Ah-choo; sniff; cough; wheeze... Gesundheit!

MINUTES of the March 8, 2016 Meeting

The 931st Membership Meeting of the Mineralogical Society of Southern California (MSSC) was held at Pasadena City College on Friday, March 8, 2016. The meeting was presided over by President Ann Meister.

Call to order at 7:31 p.m. Ann reminded everyone that Monday is Pi day (3.14); she then welcomed guests in attendance and invited all to join in for refreshments and discussion in the office after the meeting.

Regular Business

- Ann Meister asked for approval of the February 2016 Membership Meeting Minutes as published in the March 2016 *Bulletin*. After asking if there were any corrections or additions to the Minutes and seeing none, a **Motion** was made by Ann Meister and seconded by Angie Guzman to approve the Minutes. Ann called for the vote, which passed unanimously by the members;
- Ann indicated that since Linda Elsnau was not in attendance, the designated deadline to submit items for the April *Bulletin* will be March 21st (*Note: Editor Linda Elsnau subsequently sent an e-mail to assign March 24th as the deadline for Bulletin submissions*);
- Dues were due January 1, 2016. If you didn't get the 2016 Roster or latest *Bulletin*, see or contact Membership Chair Cheryl Lopez, or Rudy Lopez. Cheryl put out a very nice Roster this year;
- The next Board meeting will be June 12, 2016 at home of Bruce and Kathy Carter and the Annual Picnic will be August 21, 2016 at the home of Bruce and Kathy Carter;

Announcements

- Pasadena Lapidary show will be March 12th and 13th at San Marino Masonic hall on Huntington Drive;

- The Fallbrook Gem and Mineral Society's "Rough N Cut" auction and sale on Saturday, March 19th from 1-4pm. Featured items will be Garth Bricker Red Cloud Mine wulfenite, there will be a huge amount of material;
- Jewel Tunnel Imports (JTI) looking for travel and social media people, contact JTI if you're interested;
- March 12th and 13th the Pasadena Master Chorale will have its "Destination Earth" program at the Altadena Community Church on Altadena Drive at Lake Avenue. The program will feature "Fault Lines" (a litany of earthquakes including dates) another piece about the Mars Curiosity Rover;
- Mineral samples (zeolites, etc.) from the Pacific Micromount Conference were brought in by member Cathy Govaller, who saved them for MSSC members;
- The Urban Fest will again take place and be hosted by the Natural History Museum of Los Angeles County. The event will take place June 25th and 26th. MSSC will man a table with mineral specimens that will be exhibited by Rudy Lopez who will project them onto a monitor from under a microscope. Rudy is looking for volunteers. MSSC will be the only mineralogical society represented at the Urban Fest! Please contact him to let him know if you can participate at this great venue;
- UCLA Meteorites on March 13th at 2:30pm will cover Apollo Moon Landings and dispel myths about lunar landings;
- Bob Housley announced that Friends of Mineralogy will have their Mineral Locality Symposium at Jawbone Station in Mojave on March 19th. There will be various speakers in the morning then a field trip to Darwin Lead/Silver Mine;
- Rudy Lopez announced that the 2017 Banquet will be on January 14, 2017 at Coco's and he advised the price will increase over last year's cost for the dinner;
- Ed Kiessling announced that Cathy Govaller, who brought the minerals from the Pacific Micromount Conference for us, came out from San Bernardino tonight. *[Note: Cathy, is a former secretary with the Los Angeles District Office of the California Division of Mines, forerunner to California Geological Survey. Ed was a geologist in the same office. Both were involved in the official investigative reporting process immediately following the 1971 San Fernando (Sylmar) earthquake.]*

Program

The meeting was turned over to Rudy Lopez, Program Chair, who introduced the night's speaker, Dr. Alan Rubin, PhD. Dr. Rubin is a researcher, geochemist with UCLA and a renowned meteorite identification expert. Alan has an asteroid named after him, No.6227, Alan Rubin.

"Hot Meteorites" you'd think were hot because they travel through the atmosphere. No! Outer surface encounters friction with air molecules so the surface melts away revealing a new surface; the meteorite loses mass as it travels through the atmosphere but remains cold, in fact frost still exists in the interior of the meteorite because of its travel through interplanetary space. Meteorites do not get hot coming through the atmosphere. They travel through the atmosphere at 24kilometers/second [*approx. 53,686 miles per hour*].

But, here's a possibility of what heats the interior of a meteorite. Before we look at those, we need to explore the unheated meteorites, chondrites. Chondrites contain chondrules, round grains, spheroidal shapes molded by surface tension. They are the oldest natural solid material dating back 4.56 billion years, much older than any Earth rock! Chondrules are 1mm to sub-mm in size; they are silicate minerals olivine and pyroxene surrounded by feldspar materials that also contain small amounts of other minerals. They metamorphose through thermal change. Progressive thermal metamorphosis is going from cold to hot. It is characterized by "petrologic types" that range from Type 3 to Type 6. The Type 3 is least metamorphosed, have the most primitive grain texture and contains glass. These primitive chondrules help us understand the solar system. Type 6 chondrules are most metamorphosed, highly re-crystallized, are textually integrated with the matrix and have plagioclase. These have fewer grains. Dr. Rubin showed a photo of a meteorite that landed in India. The chondrules had some glass in between the grains, was textually integrated and re-crystallized.

The most abundant of these tribes of meteorites constitute 69% of observed falls. They are from 3 different asteroids and are categorized by these designations: H, high iron; L, low iron and LL, low total iron, low metallic iron. They are closely related in their oxidation state and other properties, as well.

Dr. Rubin continued with meteorite classifications as exhibited by a flow-chart listing chondrite classes and groups alongside primitive achondrite classes and groups. He explained that compositions vary and some minerals separate in the process. His lecture continued included mention of metal and silicate, primitive chondrules and water Vs oil separation.

Currently there are 244 meteorites from the Moon and 163 from Mars. Lunar meteorites *are* from the moon. How do we know? In 1976 Viking measured the atmosphere of Mars. A meteorite having trapped (gas) bubbles in it was analyzed in Texas revealing the gas in the trapped bubbles was exactly the same as the Mars atmosphere measurements from 1976. That's how we know how to tell if a meteorite is from our Moon or from Mars. Of course, the details of the measurements and the analysis are more complex. There is no error in determining the origin of the meteorites...Lunar or Martian.

There are more meteorites, about 62,000, coming from the asteroid belt. Many others come from "un-melted" asteroids. There are many basaltic meteorites, meteorites having different cooling rates (1° to 100° per million years), iron meteorites, meteorites containing olivine in nickel-iron (pallasites-stony iron), HED (howardite-eucrite-diogenite) achondrite meteorites from the crust of the Vesta asteroid (which is still intact) and many, many others.

Dr. Rubin explained 10 reasons why we know meteorites come from asteroids, 5 shock energies and mentioned decay of radioactive isotopes and collisional heating. He explained ²⁶Al as a heat source and its role in meteorites heating. His presentation ended with a lively question and answer session.

We thank Dr. Rubin for a great presentation and for bringing in his personal collection of meteorites.

Show and Tell: Bob Housley brought zeolites he collected at Lake Las Vegas and anyone is invited to take any of the specimens.

The door prize drawing was won by Angie Guzman after Ann and George (from Fallbrook) passed on the draw. The next regular membership meeting will be April 8, 2016 at 7:30 p.m. here at PCC. Refreshments served after adjournment.

Adjournment was called at 8:45 p.m.

Respectfully submitted, Angie Guzman, MSSC Secretary

List of Upcoming MSSC Events : Mark your Calender!

Event	Date	Comments / Scheduled Program (if known)
Meeting Dates:	May 13, 2016	Rudy Lopez - Guadalupe Island/Alijos Rocks
	June 10, 2016	Chuck Houser - Calcite
	July 8, 2016	Dr. George Rossman – to be announced
Annual Picnic	August 21, 2016	Bruce & Kathy Carter's House
Board Meeting	June 12, 2016	Board Meeting at Bruce Carter's house

Note: Dates and programs shown above are subject to change. Check your bulletins to confirm final information each month.

BOARD MEETING MINUTES of March 6, 2016

The meeting was held at the Carter residence.

1. Call to Order: The Board meeting was called to order at 1:03p.m. by Board President Ann Meister. Welcome to the Board of Director's meeting. Board roll call: Ann Meister, George Rossman, Jim Kusely, Angie Guzman, Bruce Carter, Geoff Caplette, Pat Caplette, Leslie Ogg, and Pat Stevens were present. Committees: Linda Elsnau, Rudy Lopez, Cheryl Lopez were present. Absences: JoAnna Ritchey, Bob Housley and Al Wilkins. There were no guests in attendance. Thank you to Bruce and Kathy Carter for again hosting the meeting.

2. Minutes: There was a **motion** from the floor by Angie Guzman and seconded by Leslie Ogg to *approve the Board Meeting Minutes of November 8, 2015 as published in the November 2015 Bulletin*. After asking for additions or corrections and seeing none, the motion was voted on and **passed unanimously**.

3. Old Business & Committee Reports:

3.1. President's Report and associated questions (Ann Meister):

- a. Board Director seat: Bob Housley has not submitted letter of resignation which means his seat is not open. He will remain as a director.
- b. Roster: Thanks to Cheryl Lopez for the new membership roster, which was mailed earlier.
- c. May 2016 meeting: Last year there was a conflict with PCC graduation and our May meeting. However, this year their graduation will be May 6th. Our May meeting will be on schedule, May 13th.
- d. Mindat: Mindat has not acknowledged MSSC's contribution on their website, by letter to us or any other way. Our contribution was sent in September 2015. Linda says she saw it a time ago but it has not shown since. Ann will check with Jolyon and/or Alfredo and will get clarification and will find out the dollar difference between donation and major supporter.
- e. Reminder about Procedure Manual: [This item was tabled from last meeting.] It became obvious from the Micromount Conference when I (Ann) could not attend and there was some confusion as to procedure. Please write up and e-mail your procedures to Ann. Bruce, as do others, agrees that this is important for those who transition onto the Board or when someone is ill.

3.2. Treasurer's Report and associated questions (Jim Kusely):

- a. Pacific Micromount: MSSC's reported net income from the Pacific Micromount Conference was \$585.00. Auction items: 2 items on the table at the start but Al sent Tim out and we ended up with 16 items for the verbal auction, of which John Ebner won several pieces. The Dollar Table yielded \$594, one person alone bought 250 items! Usually, we have 1,000 or more items on that table. We had speaker expenses, replace a mic (Al has it), hosting expenses, the food expense and others. Rudy brought up the fact that it's a pot luck and many people don't bring things. Ann said we will discuss this under PMC. We need to re-write the PMC application. Overall, the PMC was not a financial success but there was good networking.
- b. MSSC's financial position is stable according to reconciliation of Merrill Lynch statement compared to the books. All checks have cleared and our balance is \$21,280.00. Picnic expenses, Mindat and PCC donations still need to be entered, but, we're in good shape.
- c. Banquet: The banquet is more organized now. Discussion followed regarding recordkeeping of membership checks, silent auction and banquet checks that will be coming in as the event approaches. Jim will be working with Cheryl to ensure things go smoothly at the banquet. Also, Rudy mentioned he has a spreadsheet to track the money and he brought up the flyer handout that will be updated and posted in the next Bulletin. Jim will again create the name tags for the banquet. We made a little over \$600 on the Banquet.
- d. Insurance: Angie thanked Jim for the copy of the insurance policy for the Board members and said that a copy will be kept in the Minutes file as reference.

3.3. Federation Director Report (JoAnna Ritchey): N/A (JoAnna is excused today.)

3.4. Membership Chair Report (Cheryl Lopez):

Sent 21 renewal notices, 13 did not renew their membership from last year, of those 2 have moved away (including Dee Trent), Louis Rector is no longer in the area, Zinn is not running their show any longer and didn't see any point to renew and the student also did not renew. We did get about 10 responses. Linda has a bad address for Thacker and has not heard from him. Jim said 7 new people came out of this year's Pacific Micromount Conference. Ann said she would like to see the PMC registration list.

George Rossman wanted to know how many people under age 45 are in the society. Cheryl said that we don't ask age on our Membership Application. There was a general board discussion regarding membership including: member retention, articles about collecting/minerals, interest generated by TV shows (prospecting, for instance), maybe having reduced rates for members attending PMC, Oceanview mine ad, field trips to Utah, Ramona area and others, Pasadena Lapidary- Linda will follow up about their JTI label banner, technology

involved in minerals, give away 1 year memberships at schools or gem shows, and MSSC advertising at JTI. Overall our membership has dropped from approximately 90 last year to 77 as of now.

3.5. Program Chair Report: (Rudy Lopez):

- a. Regarding Steve Mulqueen's field trip, there has not been any response for his Utah trip to the dinosaur tracks. Discussion regarding announcement, aside from Steve's at a MSSC meeting, of his trip. Other than in the Minutes published in the Bulletin, there was none. Discussion followed regarding field trips of our own: Pat Stevens said he would be willing to help Rudy organize something to PV, Felix Mine or Purple Passion Mine; collecting in the field, how it used to be versus how it is now and the image people think of when rock hounding is mentioned (destruction of Nature, landscapes, etc.).
- b. Urban Nature Fest will be in June at the Natural History Museum of Los Angeles County. Ann wanted to know if Rudy could work with Dr. Rossman to put together a presentation showing technology involved in identifying minerals and show it at the Fest. MSSC has a good spot at the Museum, will run a loop, have the slide show, display box, Club information, grab bags with logo or business cards and other interesting things. Ann may have items for the Fest and needs help to go through the materials.
- c. The Banquet will be January 7th or 14th 2017 at Coco's. Some voiced their preference for the 14th. Cindy will be our hostess and she advised the price will increase.
- d. Speakers are lined up through July 2016. Jolyon Ralph (Mindat) may be able to be enlisted as a speaker depending on his schedule. Ann will speak with him.

3.6. Bulletin Editor Report (Linda Elsnau):

- a. We now mail 12 snail mail Bulletins. Some people getting e-mail switched to snail mail.
- b. The new Curator at the Natural History Museum of Los Angeles County has received courtesy copies of the Bulletin. Ok per Ann. R Thacker has already been discussed regarding Bulletin.
- c. Linda said she is on an exchange bulletins listing. She handed out the list for any/all interested parties.

3.7. Webmaster Report (Leslie Ogg)

- a. The web site shows 20,000 unique visitors; 40 Likes on Facebook;
- b. Survey had a response from someone who is not a member. Facebook "likes" have increased, Leslie updates Facebook monthly;
- c. Web hosting fee was increased \$25/yr.;
- d. Discussion regarding using photos without permission/authorization (liability). George told story of Grand Canyon photo; Rock Currier's photos MAY become public domain material in the future;
- e. Possibility of video meetings/speakers linked to website. We need notice in Bulletin with disclaimer language. Discussion regarding video recording equipment.

-BREAK- Thanks to Kathy for the yummy goodies and coffee. Always appreciated!

3.8. Pacific Micromount Conference [Report given by President Ann Meister]

Al Wilken's report was e-mailed and, the laptop issue will fall under New Business. However, the Pot luck and Silent Auction are things that need to be discussed. In fact, PMC logistics need to be discussed, probably at a separate meeting. Does everyone agree? Yes. Scheduling a separate meeting for PMC will be looked into.

4. New Business

4.1. New laptop computer:

- a. After general discussion, the consensus is that we need a laptop that is compatible with the types of formats and media used by our guest speakers, including applicable software. Leslie can research;
- b. Pat suggested that we establish standards for our speakers/presenters with regard to formats and media. There was discussion regarding formats to use and how presenters' data will be transferred to our laptop. Rudy mentioned his preparation procedure of downloading presentations before the event (meeting or conference) in order for smooth transition. The standards mentioned here will be discussed at the PMC focus meeting.

c. A **MOTION** was made by Bruce Carter and seconded by Pat Stevens as follows: **MSSC to commit to replace by purchase a new laptop and software or programs that will serve our needs, including first doing the research for the computer and software. The budget is not to exceed \$1,000.** Discussion had already been done so the vote was taken and the Motion was approved unanimously by the Board. Now, we do the research to ensure the right device and software is gotten. Rudy Lopez will do that research and look at Open Source/ Open Office, as well as other software products.

4.2. Honorary Membership for the new curator of Natural History Museum of Los Angeles County, Dr. Aaron Celestian, Ph.D., which is a non-voting position and is at no cost, except for the Bulletin, if he does not use e-mail. Ann and Bruce are favor of making him an honorary member when he makes his MSSC presentation at the Banquet (Jan. 2017). All Board members are in agreement with this suggestion.

4.3. MSSC Picnic will be August 21st. It will be held at the Carter residence. Further discussion on this topic to be held at our next meeting. Again, thanks to Bruce and Kathy for hosting the picnic.

4.4. Activity Proposals: None at this time.

5. Next Meeting: The next MSSC Board Meeting will be June 12, 2016 at Bruce Carter's home.

6. Other:

- a. Bruce Carter offered a comment about rock "collecting" today via the Rover, Curiosity, pulverizing rock and using a spectrometer for measurements and analysis versus being out in the field using a loupe. People don't realize they can go out and collect in the field. The mindset is changing.
- b. Ann mentioned that a big potential for public (exposure) is the Urban Fest. If we had a talk or presentation about the technology of minerals or if we could get someone to put something together about micro mounts, we could show people. As George says, though, beginners are not interested in microscopic minerals. Ann mentioned that other clubs are interested in rocks they can collect, cut and polish. Cheryl said she was amazed that we did not get one membership from the Urban Fest last year. People were interested in looking at exhibits but not interested in going in the field to collect them themselves. Further discussion about the Fest and what we could do to stir up interest and other topics relating to speakers and presentations.
- c. Pacific Micromount Conference, PMC, focus meeting will be forthcoming as a separate meeting. Al Wilkens and Bob Housley will be contacted for a meeting date. Ann will check with Al about any plans he may have made for next year. At the 2016 conference, our donated tables were great; there was a good crowd of attendees. The exhibits on display in our conference room were viewed by many of the museum visitors, which was distracting.

7. Adjournment

We offer a grateful acknowledgement to the Carters for the use of their home for the Board Meeting. The meeting adjourned at 3:07 p.m.

Respectfully submitted, Angie Guzman, Secretary

MSSC has be invited to show at the 2016 LA Urban Festival: Rudy Lopez

We will have a table set up for us again and **I am looking for help!**

It's a two-day event, we will have a display again of micromounts, also a display case with items found by our members. I need held at our table throughout the Festival. You don't have to be there all day, pick a few hours to help out and go out and look at the Festival. I will have free admittance and parking for all volunteers. Please let me know what day and times you can help out.

L.A. Urban Nature Fest: June 25 and 26, 2016



A two-day celebration of Nature in the City!

Coyotes cross Sunset Boulevard. Lizards scale manzanitas, P-22, Los Angeles' resident mountain lion, explores Griffith Park. Vaux's swifts take cover in downtown chimneys. Western gulls steal your beach picnic. Squirrels are doing summersaults in your front yard. L.A. is a surprising biodiversity hotspot - and it's time to celebrate our urban nature! From the L.A. River rehab, to community gardens, to local collaborations, Angelenos seem increasingly interested in urban nature. Let's take a weekend to see just how green L.A. can get. This festival is packed with hands-on, fun, family activities!

A Special out of Area Show Announcement: Linda Elsnau

I usually limit the upcoming show information to those in Southern California (mostly as a space issue) but Bob Pederson, one of our long distance members, sent a special request that I include these two upcoming shows in his area (He lives in Kingman, AZ) Think of this as a possible "personal field trip"!

We are having a gem and mineral show in Kingman, May 7 and 8. The Southern Nevada club is also having a show on the same date. It might make for a nice weekend trip for MSSC members to make a loop and attend both shows. The Kingman show will have five mineral dealers which include John Seibel (Tehachapi) and Scott Lewis (owner of Defiance mine = wulfenite).

Kingman show at Kingman Academy of Learning at 3420 N Burbank Ave. in Kingman (near Stockton Hill off-ramp). Southern Nevada show at 900 Arizona St. in Bolder City, Nevada. Their all mineral dealer is Hewin's Minerals

April Featured Mineral: Barite

Formula: BaSO₄

Crystal System: Orthorhombic

Name: Named in 1800 by Dietrich Ludwig Gustav Karsten from the Greek βάρις, heavy, due to its unusual heaviness for a non-metallic mineral.

Color: Colorless, white, yellow, brown, grey, blue, etc.; colorless in transmitted light (also tinted yellow, brown, green, blue, etc.)



irocks.com photo

Barite : BaSO₄
Locality: [Silius, Cagliari Province, Sardinia, Italy](#)
7.5 cm x 6.2 cm x 4.3 cm



irocks.com photo

Barite : BaSO₄
Locality: [Denton mine, Goose Creek Mine Group, Harris Creek Sub-District, Illinois - Kentucky Fluorspar District, Hardin Co., Illinois, USA](#)
5.4 cm x 5.4 cm x 4.1 cm



irocks.com photo

Barite "Roses" : BaSO₄
Locality: [Slaughterville, Cleveland Co., Oklahoma, USA](#)
10.4 cm x 5.8 cm x 4.9 cm



irocks.com photo

Barite : BaSO₄
Locality: [Baia Sprie, Maramureş Co., Romania](#)
13.2 cm x 9.4 cm x 6.0 cm

Ride Share Listing

Can You Provide A Ride?

Would You Like Company On The Drive To Meetings?

We have heard from several of our members that they would like to ride-share with someone to the meetings. We will list the names, general location and either a phone number or an email address of anyone who would like to connect for a ride-share. If you would like to catch a ride or would like company for the trip, let me know at msscbulletin@earthlink.net and I'll put the information in this section of the bulletin. After that, any final arrangements made are up to you. Also, If you make a connection that works for you, let me know so that I can remove your information from the bulletin. The Editor

Looking for	Who	Where	Contact at
A ride	Richard Stamberg	North Orange County, near Cal State Fullerton	
A ride	Catherine Govaller	San Bernardino, CA	

<p>WEST COAST ~ SPRING GEM & MINERAL SHOW</p> <p>MAY 13 - 15, 2016</p> <p>SANTA ANA, CA</p> <p>Holiday Inn - Orange County Airport 2726 S. Grand Ave. <i>(Take 55 Fwy Exit 8 for Dyer Rd. to S. Grand Ave.)</i></p> <p>80 Top Quality Dealers</p> <p>Minerals ★ Fossils ★ Gemstones ★ Jewelry Beads ★ Decorator Pieces ★ Meteorites Lapidary ★ Metaphysical</p> <p>FREE ADMISSION ★ FREE PARKING ★ WHOLESALE ★ RETAIL</p> <p>Show Hours: Fri. & Sat. 10 - 6 ★ Sun. 10 - 5</p> <p>LLD Productions, Inc., P.O. Box 665, Bernalillo, NM 87004, Fax: (303) 223-3478, mzexpos@gmail.com www.mzexpos.com facebook.com/mzexpos</p>	 <p><i>Plumbogummite on Pyromorphite Yangshuo Mine, Guangxi Prov. China Photo by Jeff Scovil©</i></p>
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MSSC Advertisement Policy:			
Mineral-related ads are allowable in the MSSC bulletin. Below is the price per month			
	Business Card	\$5.00	
	1/3 page	\$10.00	
	1/2 page	\$20.00	
	Full Page	\$35.00	
<p>In addition, any advertiser who purchases 12 months of space in advance will receive a discount of 12 months for the price of 10 months. The copy for the ads should be mailed to the editor at bulletin@mineralsocal.org and the payment should be sent to the MSSC Treasurer 1855 Idlewood Road, Glendale, CA 91202</p>			

With Knowledge Comes Appreciation !

Calendar of Events:

Only local area shows are listed here. Other CFMS Club shows can be found at: <http://www.cfmsinc.org/>

APRIL, 2016

April 2 - 3: TORRANCE, CA

South Bay Lapidary & Mineral Society
Ken Miller Recreation Center
3341 Torrance Blvd (entrance on Madrona Ave)
Hours: Sat. 10 - 5; Sun. 10 - 4

April 8 - 10: VISTA, CA

Vista Gem & Mineral Society
Antique Gas & Steam Engine Museum
2040 North Santa Fe Avenue
Hours: 9 - 5 daily

April 16 - 17: THOUSAND OAKS, CA

Conejo Gem & Mineral Club
Borchard Park Community Center
190 Reino Road at Borchard Road
Hours: 10 - 5 daily
Website: www.cgamec.org

April 23 - 24: ESCONDIDO, CA

Palomar Gem & Mineral Club
California Center for the Arts
340 N. Escondido Blvd.
Hours: Sat 10 - 5; Sun 10 - 4
Website: www.palomargem.org

MAY, 2016

May 7 - 8: ANAHEIM, CA

Searchers Gem & Mineral Society
Brookhurst Community Center
2271 W. Crescent Avenue
Hours: Sat 10 - 5; Sun 10 - 4:30
Website: www.searchersrocks.org

May 7 - 8: RENO, NV

Reno Gem & Mineral Society
Reno Livestock Event Center
1350 North Wells Avenue
Hours: Sat 10 - 5; Sun 10 - 4
Website: www.renorockhounds.com

May 13 - 15: YUCAIPA, CA

Yucaipa Valley Gem & Mineral Society
Yucaipa Music & Arts Festival
Adams St. & Yucaipa Blvd
Hours: Fri 6 - 9; Sat 11 - 10, Sun. 12 - 6
Website: www.yvgms.org

JUNE, 2016

June 3 - 5: LA HABRA, CA

North Orange County Gem & Mineral Society
La Habra Community Center
101 W. La Habra Blvd.
Hours: Fri 5 - 8; Sat 10 - 6; Sun 10 - 5
Website: www.nocgms.com

June 4 - 5: GLENDORA, CA

Glendora Gems & Mineral Society
Goddard Middle School
859 E. Sierra Madre Avenue
Hours: Sat. 10 - 5; Sun 10 - 4

June 25 - 26: CULVER CITY, CA

Culver City Rock & Mineral Club
Veterans Memorial Auditorium
4117 Overland Blvd (@Culver Blvd, Near the 405 & 10 Freeways)
Hours: Sat 10 - 6; Sun 10 - 5
Website: www.culvercityrocks.org

More Pictures from Tucson, 2016 from Eugene Reynolds.....Thanks Gene!



2015 MSSC Officers:

OFFICERS		
President	Ann Meister	president@mineralsocal.org
Vice President	George Rossman	vicepresident@mineralsocal.org
Secretary	Angie Guzman	secretary@mineralsocal.org
Treasurer	Jim Kusely	treasurer@mineralsocal.org
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Past President	Geoffrey Caplette	
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About the Mineralogical Society of Southern California

Organized in 1931, the Mineralogical Society of Southern California, Inc. is the oldest mineralogical society in the western United States. The MSSC is a member of the California Federation of Mineralogical Societies, and is dedicated to the dissemination of general knowledge of the mineralogical and related earth sciences through the study of mineral specimens. The MSSC is a scientific non-profit organization that actively supports the geology department at Pasadena City College, Pasadena, California. Support is also given to the Los Angeles and San Bernardino County Museums of Natural History. The Bulletin of the Mineralogical Society of Southern California is the official publication of the Mineralogical Society of Southern California, Inc.

The MSSC meetings are usually held the second Friday of each month, January, February and August excepted, at 7:30 p.m. in Building E, Room 220, Pasadena City College, 1570 E Colorado Boulevard, Pasadena, California. The annual Installation Banquet is held in January, and the annual Picnic and Swap Meeting is held in August. Due to PCC holidays, meetings may vary. Check the Society website for details.

The Society also sponsors the annual Pacific Micro mount Symposium held at the San Bernardino County Natural History Museum during the last weekend of January.

Annual Membership dues for the MSSC are \$20.00 for an individual membership, \$30.00 for a family membership. Bulletins are delivered by email, there is an additional annual \$20.00 fee if you prefer paper bulletins mailed to your address. The Society's contact information:

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To:



**With Knowledge Comes
Appreciation**

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