

# **Bulletin of the Mineralogical Society of Southern California**

Volume 90 Number 4 - April, 2017

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*The 943<sup>rd</sup> meeting of the Mineralogical Society of Southern California*

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*With Knowledge Comes Appreciation*

**April 14<sup>th</sup>, 2017 at 7:30 P.M.**

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

***Program:* Identifying Petrified Wood; Presented by Walton (Walt) Wright**

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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: Identifying Petrified Wood:** Presented by Walton (Walt) Wright

Walt Wright is the foremost authority on the identification of Petrified Wood in the United States and has one of the largest, if not **the** largest, petrified wood collections in the world. He has come to study Paleobotany as a botanist, looking at the fossil plants from the same perspective he would today’s living plants, but framing that view in the context of geologic time, plate tectonics, adaptation, survival, and extinction. Walt has traveled the world looking at collections and collecting.

He wrote a chapter on the Triassic Chinle Formation of fossil woods in 2002, the “Secrets of Petrified Plants” in both English and German. When asked about his degrees, he sort of chuckled and said he had some, but that they were not that important, so we would just assume that he has quite a few.

His recent study is Fossil Tree Ferns out of Argentina first discovered and reported in the Southern hemisphere which was published in Review of Paleobotany & Paleontology Journal. He is presently working in Utah describing new species of seed ferns from Queensland, Australia.

Walt has worked as a botanist in one way or another in his working life, in New Mexico at the Natural Training Center B.S.A., Angeles National Forest U.S.F.S., U.C. Riverside, Santa Monica C.C., and as a consultant for numerous city, county, state, and federal jurisdictions. He received his 1st two specimens of petrified wood when he was about 10 and has been addicted ever since. Academically, his undergraduate work was at C.S.U. Fullerton and graduate work at U.C. Riverside. Leading serious botany and geology field trips started in 1967, giving Paleobotany talks from 1975, and Paleobotany seminars and classes from 1992. These programs have taken him from Dallas, TX, to Billings, MT., and Spokane, WA. to Toronto, Canada, and throughout CA., plus numerous hard to remember places in between. Foreign talks and seminars have been given in New Zealand and China.

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**From the Editor:**

Happy Spring! We made it through one of the wettest winters in years! Hope everyone managed to stay “high and dry” through most of it. Tax Day is almost upon us. I hope everyone is on top of our annual obligation and (hopefully) already received their refund.

If you have never seen one of Walt Wright’s Petrified wood identification programs, you are in for a real treat. His presentations are excellent and I hope to see a full house at our April meeting to enjoy this opportunity. He really knows what he’s talking about!

I want to thank everyone for the articles you will find in the bulletin this month, without them, this would be a very thin document! Linda Elsnau

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**MEANDERINGS FROM THE PRESIDENT** by Ann Meister

In honor of the “Great Spring Forward,” I wish you all a Happy Allergy and Asthma Season. It’s a doozy! All the rain has caused bountiful blooms of wildflowers in the deserts as well as prolific pollen everywhere. I have a dusting of yellow in the backyard. It gets this way when we’ve had a lot of rain and according to the Altadena Weather Cam ( <http://www.westphalfamily.com/wxdata2.html> ), we’ve had 22.46 inches of rain in Altadena since July 1, 2016 which is the “rain year” logged by the site. The 2014-15 season logged 10.28 inches; 2015-16 logged 14.17 inches. That’s quite a difference.

Thanks to Cheryl Lopez, Jim Kusely and Linda Elsnau for their collaboration on updating the membership records for 2017. And special thanks to Cheryl for getting the Roster printed and mailed to the members. Unfortunately, it gets a little thinner every year.

**Geology and Mineralogy in the News:** Earth is now in the Anthropocene Epoch, a distinct geological era unique for human activities. In 10 million years or so, geologists will find that we have created a distinctive marking layer of concrete alloys, batteries, plastics, and a variety of crystalline forms of human-made minerals in the ruins of our civilization. Minerals, by definition, must form via natural processes, but the team found 208

minerals mediated by humans – they did form naturally but in places such as man-made mines, where unnatural humidity or fires from mining operations created new minerals along the mine walls. One example, Simonkolleite (zinc chloride hydroxide monohydrate) is a secondary mineral formed by weathering of zinc-bearing slag. In addition, there are thousands of man-made mineral-like compounds that would be characterized as minerals if they were not completely man-made, such as synthetic rubies and diamonds, ceramics, and some components of cell phones. This was described in a paper published in March in the American Mineralogist. (<http://ammin.geoscienceworld.org/content/102/3/595.full> and <http://www.latimes.com/science/sciencenow/la-sci-sn-anthropocene-epoch-minerals-20170304-story.html> ) The study was led by Robert Hazen of the Carnegie Institution of Science. And that's no April Fool...

### **OTHER THINGS TO DO...**

The **Von Kármán Lecture** on April 6 and 7 is titled “Harnessing the Sun’s Light to Explore Our Planet and the Universe.” The speaker is Mark Helmlinger who works in JPL’s Imaging Spectroscopy Group. Thursday is at the Von Kármán Auditorium at JPL and Friday is at the Vosloh Forum at PCC. Start time is 7 PM.

There are two **Watson Lectures** this month at Caltech’s Beckman Auditorium. On April 5, “Imaging and Remote Sensing of Other Worlds,” by Dimitri Mawet. On April 19, “How Clean is the Cloud?” by Adam Wierman. The lectures start at 8 PM.

The **UCLA Meteorite Gallery** lecture is on Sunday, April 23 at 2:30 PM. The speaker is Dr. Steve Chesley from JPL. His topic is “The Osiris Rex sample-return mission to the asteroid Bennu, a probable source of carbonaceous chondrites.” The Meteorite Gallery in Geology room 3697 is open with a docent present every Sunday from 1 till 4. The lecture is in room 3656 near the Meteorite Gallery. (New location)

The **Huntington Library** is having a free lecture that may be of interest on Wednesday, April 12, at 7:30 PM at Rothenberg Hall. Distinguished Fellow Lecture: “Potosi, Silver and the Coming of the Modern World” presented by John Demos, Professor Emeritus from Yale University and the Ritchie Distinguished Fellow at The Huntington. He will present an account of Potosi, the great 16th- and 17th-century South American silver mine and boomtown which galvanized imperial Spain, fueled the rise of capitalism, destroyed native peoples and cultures en masse, and changed history (for good or ill?).

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### **MINUTES of the March 10, 2017 Meeting**

On Friday, March 10, 2017, the Membership meeting of the Mineralogical Society of Southern California (MSSC) was called to order at 7:31 p.m. by President Ann Meister who welcomed all to the 942nd Membership Meeting. Ann clarified to everyone that this was MSSC's second attempt at 942<sup>nd</sup> meeting because last month's meeting had been called off due to heavy rains, an unusual circumstance.

Ann asked guests to introduce themselves. Stephan Farsang, a Ph.D. candidate from Cambridge, is visiting CalTech to do high temperature pressure mineralogical analysis and research. He was guest of MSSC's Vice President Dr. George Rossman, Ph.D.

### MINUTES

A motion was made by George Rossman and seconded by Fred Elsnau to accept the January 2017 meeting minutes as published in the February 2017 *Bulletin*. Ann called for any corrections or additions and seeing none, made a call for the vote. The vote was unanimous to approve the minutes as written.

### Regular Business

- Deadline to submit items for the Bulletin is the 22nd of each month;
- Thanks to Bob Housley for his Field Trip report;
- Dues were due January 1st.- see Cheryl Lopez if you need to pay;
- Next Board meeting will be June 4th;
- Annual Picnic will be August 6th. We will have our Silent Auction and great food from Rudy.

## Announcements

- Pasadena Lapidary show is this weekend at San Marino Masonic Hall;
- UCLA Meteorite Gallery will be this Sunday, the topic is the dwarf planet series;
- Fallbrook is having their Rough and Cut March 18th;
- The 14th Annual Sinkankas Symposium - Sapphire will be held at the GIA in Carlsbad, CA on April 8<sup>th</sup> and includes speaker Dr. George Rossman, MSSC Vice President. Dr. Rossman will speak on "*Added Attractions on Color in Corundum*". Please check their website for more information:  
[www.sinkankassymposium.net](http://www.sinkankassymposium.net)

## Other Announcements or Show and Tell

- Member Jerry Wendt brought a trilobite fossil from the lower Cambrian that he collected over 60 years ago - while he was a member of PCC's Dana Club;
- Bob Housley announced that the Friends of Mineralogy will have a symposium 2 weeks from now (last weekend of the month) at the Apple Valley Water District building. E-mail Bob if you want to attend;
- JoAnna Ritchey announced that Monrovia Rockhounds will go on for another year as new members have volunteered to lead the club. The March 3rd and 4th show went well;

## Programs Chair

- Rudy Lopez reminded everyone the Urban Festival is coming up March 18 and 19 and he thanked Bob Housley for his donations of specimens that will be handed out to the children. Rudy and Cheryl did some collecting at White Point Beach and came away with 6 2-gallon buckets of agate to hand out. He is still looking for volunteers, if you're interested, let Rudy know;
- Rudy also announced the Science in the Park coming up April 29th in Orange County. There will be mineral displays and give away bags for the kids, much like Urban Festival;
- Two possible Field Trips: (1) to Kingman, AZ: member Robert Pederson offered to show collection sites in Kingman and provide a "map" of places to stop and collect on the way back home. (2) NHM's Aaron Celestain has offered a behind-the-scenes look at the museum's minerals. We will need to let him know who wants to go and when, then he will set it up. [*Secretaries Note: These are two great opportunities being offered to us. Let's think about taking advantage of them! Contact Rudy if you're interested*];
- Speakers are confirmed through February and today's speaker, Denise Nelson, will give a presentation at our January 2018 Banquet. In May, Dr. Alan Rubin from UCLA Meteorite Gallery will present. If you have meteorites you want Dr. Rubin to look at, bring them in May!

## Program

Denise Nelson is a Graduate Gemologist (GIA), Appraiser, and occasional gem hunter. She started her own business, Inner Circle, a fine jewelry and appraisal provider, over 23 years ago in Maryland. Her travels to mines and trade-shows have taken her to many different Countries like Brazil, Thailand, Malaysia, Japan, China, Germany, France and Argentina.

Tonight's presentation, *Precious Heirlooms, a Voice from the Past*, is an exercise in knowing about and preserving (by record keeping) your valuable keepsakes. Right off, Denise defines "heirloom" as something inherited, essential, durable and special. An item to be passed on to a loved one. She combines her genealogic expertise with gemological experience to offer us an interesting presentation.

When looking at heirlooms, Denise asks, Where you get them and who gave them to you? Where did they live? What did they do? Why did they do what they did? Who did they associate with? What did they give you? What skill did it take to make the item? Where did it come from, a different land? Did they travel there themselves? Another topic comes into play, Inheritance Laws: Who did it belong to? Who owns it now? Is there a paper trail and provenance (place of origin and earliest known history). Fascinating, when you stop to think about it. Do you have a special heirloom? What is that item that comes to mind right now? Can you answer some of these questions above?

For heirlooms, it's important to have the history and the story. As to the where and the what, some examples are the exquisite silver from Taxco, Mexico, or beautiful garnets from South Africa or, is it a natural pearl (pre-1900) vs. a Mikimoto (est. 1893) cultured pearl. Cameos are usually a carved jade, ivory (pre-1970) or bone depicting real people. Like most heirlooms, Hopi jewelry, for instance, tells a story about beliefs, culture and art. Denise showed a jewelry piece with symbols of a heart, anchor and cross which represent love, hope and faith.

In Victorian times, when Prince Albert died, mourning jewelry expanded and the small fishing village of Whitby made fortunes from the layers of shale, a rich source of fossils and petrified wood, of which jet had been the most prized. [Note: *Jet is a mineraloid with organic origin*]. Jet was used to make hair combs, headdress, beading for bodices and hat adornments. During old times, the Vikings invaded England several times from 798 to 1066 and when they were in the UK, they used amber for clothing as well as for jewelry!

Each souvenir, portrait, ivory carving, Mother of Pearl gaming chip (China), carved horn crafted in Alaska or the stunning gold filigree Swiss Helvetia that shows a ship sailing backward, heirlooms all, passed down to tell their story.

Gemstones, too, tell a story. Marie-Louise Diadem, a gift from Napoleon to his second wife, Empress Marie-Louise when they married, is spectacular work that was originally of emeralds and diamonds. The emeralds were later replaced in 1950's by spectacular specimen of Persian turquoise. The diadem is currently at the Smithsonian. And another example of an important gemstone is The Dom Pedro Aquamarine. Named after Brazil's early emperors, it was mined in Minas Gerais, Brazil and was cut from a single stone weighing over 100 pounds. [Note: *It was cut by Munsteiner, the German carver who created the magnificent obelisk weighing 10,363 carats, 14" tall and 4" wide. The oxide mineral jewel was donated to the Smithsonian*].

So be it beryl, Imperial topaz, tanzanite, sapphire, cabs, coral or any of the many wonderful gemstones and minerals are all beautiful and crafted in many kinds and styles of jewelry: popular styles, one-of-a-kinds, mass produced, art deco, synthetic, facet, bubble cut, concave or any other creative interpretation, they each provide a story and a little piece of history to pass down. Some have more durability and availability than others. Some will last, some won't. Denise encourages us to keep records of heirlooms. The history and story are our gift to those who follow.

Denise closed by distributing a handout, "Precious Heirlooms", an interesting historical of heirlooms and related events. She gave us plenty of food for thought and brought interesting facts to light. Denise says her presentation in January 2018 will be "Treasures of Poland Amber and Salt". Can't wait! Thanks to Denise Nelson, great topic and wonderful presentation. And, thanks for your donations to our door prizes!

Program Chair Rudy Lopez announced that the Paul Adams CD is available now.

#### Door Prize

Won by Denise Nelson! She insisted another number be pulled and that one was won by Marco Feldman.

Adjourn: The meeting was adjourned at 8:56 p.m. Refreshments were served after adjournment.

Respectfully submitted, Angie Guzman, Secretary (Apologies in advance for any omissions or misspellings.)

*[Secretary's Note: If you missed this meeting, you missed the little side stories and comments the speaker provides with their speech. While we try to give you a good representation of the speeches, it's impossible to provide the whole picture. So, come to the next meeting to get full benefit and hear these amazing presentations for yourself. **Our next meeting will be Friday, April 14, 2017 at 7:30 p.m. at the PCC Geology Building.]***

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***With Knowledge Comes Appreciation!***

**List of Upcoming MSSC Events : Mark your Calender!**

Event	Date	Comments / Scheduled Program (if known)
<b>Meeting Dates:</b>	May, 2017	Alan Rubin - The Formation of Meteorite Minerals
	June, 2017	Mohamed Elghetari - Mars
	July, 2017	Webers, Mary Pat & Dick - Canadian Amethyst
	September, 2017	Dr. George Rossman - Quartz crystals
<b>Annual MSSC Picnic</b>	August 6, 2017	Theme to be announced
<b>Board Meeting</b>	June 4, 2017	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.*

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**Minutes of the March 5, 2017 MSSC Board Meeting**

The meeting was held at the home of Bruce and Kathy Carter and was called to order by President Ann Meister at 1:05 PM. In attendance: VP George Rossman, Treasurer Jim Kusely, Board Members Bruce Carter, Geoffrey and Pat Caplette, Bob Housley, Leslie Ogg, & Pat Stevens. Committee Chairs present were, Bulletin Editor Linda Elsnau, Program/Field Trip Chair Rudy Lopez and PMC Chairman Al Wilkins. As Secretary Angie Guzman was unable to attend, Linda Elsnau kept the minutes of the meeting. Other officers unable to attend were Federation Director JoAnna Ritchie and Membership Chair Cheryl Lopez. Fred Elsnau, was the only member that attended.

Bob Housley moved and Leslie Ogg seconded that the minutes of be November 20<sup>th</sup>. 2016 Board meeting be accepted as published in the December 2016 Bulletin. Motion passed.

**Old business & Committee Reports**

- **President's Report:** Ann Meister asked, in light of the cancelled February meeting, is there a better way of handling such events in the future? After discussion, it was decided that since this was only the 2<sup>nd</sup> or 3<sup>rd</sup> time anyone can remember a meeting cancelled, that using bulk emails and phone calls as we did on Feb. 17<sup>th</sup> will continue to be used. Barring a natural disaster (Earthquake, flood, fire), we would try to give notice of future cancellation a day ahead of time using emails and phone calls.
- Ann asked about starting some type of Senior Member Assist program to help older member who are without internet access and that struggle to pay or cannot pay the cost of snail mail bulletins. It was decided that no formal system would be offered and the board will consider each senior member on a case-by-case basis.
- **Treasurer's Report:** Jim Kusely reported that we are still solvent. He also commented that the returns at our current financial institution, Meryl Lynch, have gone down while other similar companies have increased earnings. It was decided that Pat Stevens would work with Jim to choose a new company and transfer our funds to one that has better returns and lower fees. Pat is suggesting Schwab.
- **Federation Director's Report:** There was no report given as JoAnna Ritchie was not in attendance.
- **Membership Chair Report:** As Cheryl Lopez was not available, Rudy reported that there were 10 members that did not renew for 2017. The Roster will be printed with the membership as it currently stands.
- **Bulletin Editor Report:** Linda Elsnau reported that as some members have not renewed and others that were getting the snail mail bulletins and have switched to email bulletins, we are now only sending seven snail mail bulletins to members. So, we are currently printing only 12 bulletins/month, 7 to mail and 5 for guests at the meetings.
- **Webmaster Report:** Leslie Ogg commented that she had a request to put a link in our website for "RockandMineralShows.com". This is a dealer's site (Dakota Matrix) page that lists shows nation-wide. After some discussion, it was decided that this page may be useful for members that travel so it would be OK to add the link.
- There has been another price hike from our web site host so she is researching possible other hosting companies so we can move our web site. Jim Kusely said the drop dead date to either move our site or pay

the current host is April 10, 2017. Leslie has found several other hosting companies that offer free or very low cost hosting to non-profit organizations so it was decided to let Leslie and Jim handle the choice and transfer of the MSSC web site. An announcement of the change will be posted in the April Bulletin.

- **Program Chair Report:** Rudy Lopez reported that there have been changes to his roster of future programs. A new roster will be sent to the Bulletin Editor before the April Bulletin.
- The Natural History Museum is now charging \$25 per table for their Urban Fest. He moved that we authorize the \$50 payment for two tables at the upcoming event. George Rossman seconded the motion. Motion passed.
- We are still having problems with our laptop and Rudy requested permission to purchase a new laptop for use at meetings, the PMC and the annual banquet. After discussion, Pat Stevens moved and Pat Caplette seconded that Rudy be allowed to spend up to \$750 to purchase whatever he needs to replace and/or upgrade our equipment. Motion passed.
- **Pacific Micromount Conference Chair Report:** Ann suggested that the PMC needs a more formal structure to assure that each task needed at the conference have an assigned person and backup. MSSC needs a PMC Committee with a MSSC member as chair, but the helping positions can be filled by both members and non-members as needed to make a smoother run conference.
- Chairman, Al Wilkins reported that he was only informed of the change of room for the conference a day or so before the conference. The venue we used was less than ideal. If we end up in the same room next year, we should expect better audio/visual setup and more tables & chairs. It was agreed that next year, the check will be sent to the Museum before the conference along with specifics of equipment and facilities to be provided
- Al Wilkins will send an article to be published in the Bulletin announcing the need for specific commitments for tasks from MSSC members attending the conference.
- **Silver Coin Mine DVD:** Paul Adams created a DVD of the minerals and history of the Silver Coin Mine. He gave several copies of the DVD to MSSC at the Micro Conference to be sold to raise money for the club. All available copies were sold at the conference with requests for more. Bob Housley was unable to copy the disk on his older computer so Rudy Lopez agreed to make copies and mail them. The issue of MSSC producing and providing additional copies was discussed. Since Paul “donated” the disk to MSSC, we expect that we are allowed to advertise the availability on our web site and will ship them for a \$25 donation. Rudy volunteered to make 25 additional copies in anticipation of requests. Rudy moved and Bob Housley seconded that we offer the disks on the web site for a \$25 donation to MSSC. Motion passed. The idea of using PayPal to accept donations was discussed. MSSC has a PayPal account so showing instructions on how to pay via PayPal will be put on the website.

### **New Business**

We need to set a date for the Annual Picnic. It was decided that the picnic will be held on August 6<sup>th</sup> at Bruce and Kathy Carters home again. We will also have a silent auction as we had last year.

**Next Board Meeting:** The next meeting will be at the Carter’s home on June 4, 2017

**Meeting was adjourned** by Ann Meister at 3:48PM with thanks to Bruce and Kathy for their kind hospitality. Respectfully submitted by Linda Elsnau, acting secretary

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### **MSSC ROCKED at the L.A. Nature Festival March 18 and 19** By: Rudy Lopez

Once again MSSC rocked the Natural History Museum! As the kids would say we gave out over 900 rocks (minerals to us). We had a great time, Angie, Leslie, Cheryl, and myself. We had two days of nonstop traffic at our tables.

Saturday check in time started for me at 7:00 a.m. at the museum. It took me about 20 minutes to unload all the giveaway minerals and the 3 display cases. The 3 display cases had a total of 45 minerals. Next, I set up my Dinolite scope so I could show some of the Micromounts I took with me. The museum provided us with a 60" TV screen for our presentation, and it did stop traffic!!

We had a great location as usual, right across from the Tar Pits exhibition. The Tar Pits exhibit was already set up and they had their PowerPoint up and running. As I passed them, I told them we had a fantastic PowerPoint that was going to be better than theirs. I was right and they agreed, I put together a 300 slide Micromount presentation that ran all day. Angie and Leslie spent quite a bit of time watching the slide show.

When the Museum opened, we were busy from the start. We had a visit from Aaron Celestain and his family who stopped at our tables and checked out our display cases. Aaron must have really liked our displays, he said, " here is our competition". That really made me feel great, we were displaying minerals that caught everyone's eye. There was a family from Iran that found a mineral from their home village.

Angie, Leslie, and Cheryl spent plenty of time explaining what kind of rock the kids were getting. Robert Housley donated a few hundred minerals and the kids loved them!

Most of the rocks we gave were from California: Calcite from White Point Beach, Calcite and Agate from Agoura Hills, and Chalcedony from Wiley's Well.

We had a little battle with the Tar Pit's table, when we gave a rock to a kid they went over to the Tar Pit's table and showed them what we gave them. This started early the first day and for the rest of the weekend, they made it a point to tell every kid that visited their table to make sure and see us for a free rock. All was in fun and every kid left with a rock and knowledge about their rock. We had a great time as usual and always had a big crowd at our tables.

Special thanks to the Natural History Museum: Laurel Robinson, Marisol Jara, and Vanessa Vobis for all their help in setting up, making sure we had treats, water, and the big screen TV. Once again it was a great success at the L.A. Nature Festival!

Here are a few pictures of the event:



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**More Events where Rudy Lopez and the MSSC Team will be representing our group:**

Rudy Lopez can really use help at these events. Please contact him at [programs@mineralsocal.org](mailto:programs@mineralsocal.org) if you would like to help represent MSSC at these events.



**IN THE PARK**

Family Festival Celebrating Archaeology,  
Paleontology, History, Culture & Science  
**Saturday, April 29, 2017**  
10:00AM – 4:00PM  
Irvine Regional Park  
1 Irvine Park Road  
Orange, CA 92869  
Parking: \$5.00, Admission: \$2.00

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***Ride Share Listing***

**Can You Provide A Ride?**

**Would You Like Company On The Drive To Meetings?**

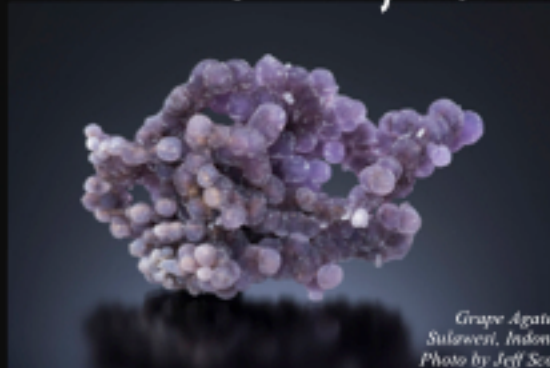
We have heard from several of our members that they would like to ride-share with someone to the meetings. We will list the names, general location and either a phone number or an email address of anyone who would like to connect for a ride-share. If you would like to catch a ride or would like company for the trip, let me know at [msscbulletin@earthlink.net](mailto: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	

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# WEST COAST GEM & MINERAL SHOW MAY 19 - 21, 2017

Minerals ♦ Fossils  
Gemstones ♦ Jewelry  
Meteorites ♦ Beads  
Decorator Items  
Lapidary  
Metaphysical



Grape Agate  
Sulawesi, Indonesia  
Photo by Jeff Scoville

♦ FREE Admission  
♦ FREE Parking  
Open to the Public  
Wholesale section  
for Qualified Buyers

SANTA ANA, CA ♦ HOLIDAY INN / ORANGE COUNTY AIRPORT

2726 S. Grand Ave. (Take 55 Fwy Exit 8 for Dyer Rd. to S. Grand Ave.)

www.mzexpos.com

Facebook.com/mzexpos

### 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	

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](mailto:bulletin@mineralsocal.org) and the payment should be sent to the  
**MSSC Treasurer 1855 Idlewood Road, Glendale, CA 91202**

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### Calendar of Events:

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

#### APRIL

##### April 1 - 2: 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  
Website: [southbaylapidaryandmineralsociety.com](http://southbaylapidaryandmineralsociety.com)  
[Show Page](#)

##### April 7, 8 & 9: VISTA, CA

Vista Gem & Mineral Society  
Antique Gas & Steam Engine Museum  
2040 North Santa Fe Avenue  
Hours: 9 - 5 daily  
Website: [www.vistarocks.org](http://www.vistarocks.org)

##### April 22 - 23: PASO ROBLES, CA

Santa Lucia Rockhounds  
Paso Robles Event Center  
2198 Riverside Avenue  
Hours: Sat 10 - 5; Sun 10 - 4  
Website: [www.slockhounds.org](http://www.slockhounds.org)

##### April 22 - 23: THOUSAND OAKS, CA

Conejo Gem & Mineral Club  
Borchard Park Community Center  
190 Reino Road at Borchard Road  
Hours: 10 - 5 daily  
Website: [www.cgamc.org](http://www.cgamc.org)

##### April 29 - 30: LANCASTER, CA

Antelope Valley Gem & Mineral Society  
Lancaster High School  
44701 32nd Street West

Hours: 10 - 5 daily  
Website: [www.avgem.weebly.com](http://www.avgem.weebly.com)

## MAY

**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  
Website: [www.yvgms.org](http://www.yvgms.org)     [Show Page](#)

**May 6 - 7: 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](http://www.searchersrocks.org)

## JUNE

**June 2 - 4: LA HABRA, CA**  
North Orange County Gem & Mineral Society  
La Habra Community Center  
101 W. La Habra Blvd.  
Hours: Fri 5 - 8; Sat & Sun 10 - 5  
Website: [www.nocgms.com](http://www.nocgms.com)

**June 3 - 4: 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](http://www.palomargem.org)     [Show Page](#)

**June 3 - 4, 2017: GLENDORA, CA**  
Glendora Gems  
Goddard Middle School  
859 E. Sierra Madre Avenue  
Hours: Sat 10 - 5; Sun 10 - 4

**June 9, 10 & 11, 2017: VENTURA, CA**  
**2017 CFMS-AFMS Show & Convention**  
**Ventura Rocks The Nation!**  
Hosted by Ventura County Gem & Mineral Society  
Ventura County Fairgrounds  
10 West Harbor Boulevard  
Hours: Fri & Sat 10 - 5; Sun 10 - 4  
Website: [2017CFMS-AFMSShow.com](http://2017CFMS-AFMSShow.com)

## JULY

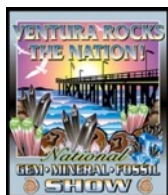
**July 8 - 9: CULVER CITY, CA**  
Culver City Rock & Mineral Club  
Veterans Memorial Auditorium  
4117 Overland Blvd  
Hours: Sat 10 - 6; Sun 10 - 5  
Website: [www.culvercityrocks.org](http://www.culvercityrocks.org)

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### Random Quick Quote:

“Mineralogy is a science included within the much broader discipline of *Geology*, inasmuch as the latter interests itself in the history of the earth and its life, especially as recorded in the rocks. It is the rocks which give mineralogy its charter, so to speak, for rocks are made up of the specific elements and compounds which receive the term *minerals*. Within Geology are also included *petrology* and *petrography* the first being the science dealing with the broader aspects of rock formation and subsequent rock alteration and decay, and the second dealing specifically with descriptions and systematic classification of rocks.”

*Mineralogy by John Sinkankas, page 1*



## 2017 MSSC Officers:

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Vice President	George Rossman	<a href="mailto:vicepresident@mineralsocal.org">vicepresident@mineralsocal.org</a>
Secretary	Angie Guzman	<a href="mailto:secretary@mineralsocal.org">secretary@mineralsocal.org</a>
Treasurer	Jim Kusely	<a href="mailto:treasurer@mineralsocal.org">treasurer@mineralsocal.org</a>
CFMS Director	Jo Anna Ritchey	
Past President	Geoffrey Caplette	
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2016--2018	Bob Housley	
2016--2018	Leslie Ogg	
2016-2017	Pat Caplette	
2016-2017	Pat Stevens	
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Hospitality	Laura Davis	
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Publicity	Linda Elsnau	<a href="mailto:bulletin@mineralsocal.org">bulletin@mineralsocal.org</a>
Webmaster	Leslie Ogg	<a href="mailto:webmaster@mineralsocal.org">webmaster@mineralsocal.org</a>

### **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:

**Mineralogical Society of Southern California**

**1855 Idlewood Rd.,**

**Glendale, CA 91202-1053**

**E-mail:** [treasurer@mineralsocal.org](mailto:treasurer@mineralsocal.org)

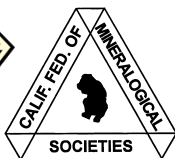
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MSSC Bulletin Editor  
3630 Encinal Ave.  
Glendale, CA 91214-2415

*To:*



**With Knowledge Comes  
Appreciation**

***Your MSSC  
Bulletin Is  
Here!***