



Bulletin of the Mineralogical Society of Southern California

Volume 90 Number 10 - October, 2017

The 949th meeting of the Mineralogical Society of Southern California

With Knowledge Comes Appreciation

October 13th, 2017 at 7:30 P.M.

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

Program: Mars Mineralogy: Presented by Ellen Leask

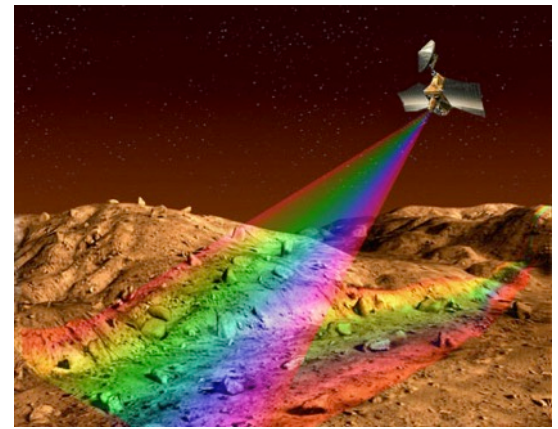
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Remember: If you change your email or street address, you must let the MSSC Editor and Membership Chair know or we cannot guarantee receipt of future Bulletins

About the Program: Mars Mineralogy Presented by:
Ellen Leask

Mars is a fascinating planet, geologically speaking — and near enough to be able to send generations of satellites and rovers, without being obscured by thick clouds like our other neighbor, Venus. On Mars, we see familiar evidence of volcanoes, rivers, glaciers, thick sedimentary packages, lake beds, and sand dunes. But today, there are no rivers, or lakes, or oceans, and one of the biggest questions we have is: what happened to the water, and what does that mean for Mars’ potential habitability? One way we investigate this question is by studying Mars’ mineralogy — we use remote sensing data from many different spacecraft to map the distribution of minerals across Mars’ surface, and interpret what it might mean about the history of water on Mars. For example, we know that clays (kaolinites, iron- and magnesium-rich smectites) are the result of weathering minerals like plagioclase feldspar in the presence of water, whereas salts (gypsum, jarosite, alunite, magnesite and more) are usually precipitated out of briny waters that range in acidity. Where we see unaltered igneous minerals (mostly pyroxene and olivine), we know that there has not been enough water and/or time for alteration to occur. These minerals and others are identified from space using remote sensing spectroscopic techniques, and verified by rovers on the surface where possible.



An image from the CRISM website that illustrates the CRISM satellite collecting spectroscopic data to identify minerals on the surface of Mars.

Our speaker, Ellen Leask, is a graduate student working on a PhD in planetary geology at Caltech, exploring the history of Mars through mineralogy and spectroscopy. Hailing from the Great White North, she completed a B.Sc. in Earth Science at McGill (Montreal, Quebec) and spent 2 years working as an exploration geologist in oil and gas in Calgary, Alberta before seeking sunnier climes. She counts herself very fortunate to have found a career path that involves her lifelong interests of rock collecting, playing in the dirt, dinosaurs (tangentially), and space.

From the Editor:

Wow, I’m almost at the end of my 5th year as your Bulletin Editor! The time has really gone by fast. While there have been “life issues” during the last 5 years, being your Editor has, for the most part, been a rewarding challenge. I must admit, that for the last year or two, this time of year has caused quite an internal discussion with myself. It has mostly been along the line of “do I want to keep doing this? How much longer do I want to take on this responsibility?” So far, I’ve managed to talk myself into continuing, but it’s getting harder to do. Thank you to everyone that sends pictures, articles and officer reports for the bulletin. The members would get a pretty thin Bulletin without your help. Linda Elsnau

MEANDERINGS FROM THE PRESIDENT by Ann Meister

Thank you, Officers and Board members, for a productive quarterly meeting. My dream has come true – I’m going to be the Past President of MSSC (again). Our VP, George Rossman, has agreed to move up to President with newcomer-to-the-Board, Renee Kraus stepping into the role of Vice President. Thank you both for your dedication to the continuation of the MSSC. And thanks also to the other officers and Board members who will continue in their current positions. See below for the complete proposed slate of officers for 2018. The next Board meeting is December 3 at the home of Bruce & Kathy Carter. All members are welcome to attend.

ATTENTION! The Fallbrook Museum Was Burglarized. <http://villagenews.com/local/fallbrook-gem-mineral-society-museum-closes-after-break-in/>. An announcement with pictures of the stolen specimens was sent out by the Fallbrook Club and is attached to this bulletin. It was a very focused burglary; they knew exactly what they wanted. If you happen to see them being sold anywhere or have any information please contact the San Diego County Sheriff Dept.

What do you consider to be the worst that could happen to you? No, not that... How about a computer crash that wipes out all your data, especially when you have been procrastinating about doing a complete backup? Well, it happened to me and it was my fault because I spilled a cup of coffee that shorted the entire system. I am now trying to repair my “life” both business and personal. For example, I go to look at my calendar which alerted me to events such as the *Bulletin* due date, and there is no current calendar. I’m having to call my doctor and dentist to re-discover appointments. And then there’s things such as the templates for agendas and the “Meanderings” file. All the “ideas” I’ve collected for what to write about; the history files I’ve collected; pictures, databases, everything. It’s amazing to me how integral the computer is to my life. I’m hoping Toshiba might be able to recover the data from the hard drive, but that is an expensive proposition.

So, of course, I needed another computer. I had a new laptop in a box that I got a few months ago, but hadn’t opened because it’s Windows 10 and I hate Windows 10. I’m getting too set in my ways to adjust to a new “improved” user interface that re-arranges the stuff I’ve known for many years. Someone thinks they are making it “easier” to use, but I would prefer my old interfaces, where I know where things are. It’s frustrating to know what you want to do, but to be unable to do it. I know I’ll learn, sooner or later, but it impinges on my productivity. And it’s darn frustrating (%\$# &^%*? #@/<&%*! Mumble...).

When I tried to startup the new computer, it wouldn’t boot up. Hmmm, it had power, but would only get to the bios setup menu. So, I checked that and saw that it said, Primary drive = (none). Hmmm again. That’s indicating there is no hard drive or perhaps the cable isn’t making contact. So, I called Tech Support and spoke with someone in India(?). After taking me through all the tests I had already tried, he suggested I remove the back and see if the hard drive was there. OK. Do you know how many tiny screws there are to remove the back, take out the battery (for safety) and the hard drive, which was physically present. After checking the cable connections, re-assembling, and turning the power on, it still didn’t work. So, a new hard drive was ordered. However, it would take a while because of Hurricane Harvey and the flooding in Houston. Turns out that all Dell laptop parts come from Houston. A week later, the Tech arrived with the part. Long story short, that didn’t fix it. Had to order a new motherboard. That fixed it, but now I couldn’t activate Windows 10 because of the new parts. Called another Tech. After providing proof that Windows 10 had indeed been purchased with the laptop, I received a new product key. Now, I’m trying to rebuild my “life.” Wish me luck...

Other (Free) Things to Do...

The **Von Kármán Lecture** on October 19 and 20 is titled “Sink or Swim? Using Radar to Protect California’s Water Supply” by Dr. Cathleen E. Jones, a Signals Analysis Engineer at JPL. Researchers at JPL are using techniques developed for Earth science to measure Earth surface deformation using airborne radar. This game-changing technology has been applied to detect subsidence (sinking) of sections of the California Aqueduct during the recent drought and to identify levees that are subsiding in the Sacramento delta. In this lecture, Jones will describe how NASA uses a high-resolution, airborne radar to identify these hazards before they can become disasters. Thursday is at the Von Kármán Auditorium at JPL and Friday is at the Vosloh Forum at PCC. Start time is 7 PM.

The first **Watson Lecture** of the 2017-18 calendar! Come to Caltech’s Beckman Auditorium on November 1 at 8 PM. Linda J. Spilker is speaking on "Going Out in a Blaze of Glory: Cassini Mission Highlights."

The **UCLA Meteorite Gallery** lecture is on Sunday October 22. The speaker is Mark Fries, a scientist at the NASA Johnson Spacecraft Center in Houston. The title of his talk is: “How to find meteorites with weather-radar observations of fireballs: Opportunities for “citizen science” in the US and worldwide.” The US maintains a nationwide network of Doppler weather radars, and it is possible to find meteorite falls using their freely-available radar imagery. This talk will describe what a meteorite fall is, how frequently they occur (Spoiler: About once per year in the US!), and instructions so that anyone with internet access can find them. The Meteorite Gallery in Geology room 3697 is open with a docent present every Sunday from 1 till 4. The lecture, which is always on a Sunday afternoon at 2:30 pm, is in room 3656 near the Meteorite Gallery.

Nominations Are Open for Officers and Directors For 2018

The nominations will be open at the October and November meetings if you would like to submit a name for an additional candidate for any office. Make sure you have that person's permission before making the nomination. Directors serve a two-year term; other officers NORMALLY serve a one-year term, though two years is customary. The election takes place at the November meeting.

President	Dr. George Rossman
Vice-President	Renee Kraus
Secretary	Angie Guzman
Treasurer	Kim Kusely
CFMS Director	Jo Anna Ritchey
Directors 2018-19	Pat Caplette Pat Stevens

Minutes of the September 8, 2017 Meeting

On Friday, September 8, 2017, the 948th Membership meeting of the Mineralogical Society of Southern California (MSSC) was called to order at 7:33 p.m. by President Ann Meister. Ann asked if there were any guests this evening. Dr. Bruce Carter introduced his guest, Mr. Yung from Shanghai. He and his colleagues, who are staying with the Carters, are studying education practices in the U.S. Also, Ken Paulson came because of his interest in studying rocks and he enjoys the meetings. It was great to see Janet and Paul Gordon and Bruce and Mary Stambaugh, all of whom are long time members who have not attended recent meetings. To everyone, welcome!

Minutes: President Meister stated that the July 2017 and August 2017 (Annual Picnic) Membership meeting minutes need to be approved. Each of the minutes were published in the September 2017 MSSC *Bulletin*. Ann called for any corrections or additions for July 2017 minutes, seeing none, a MOTION was made by Bruce Carter and seconded by JoAnna Ritchey to approve the July minutes as published. Ann asked for discussion and seeing none, called for the vote. The vote was taken and the motion passed unanimously.

Ann called for any corrections or additions for August 2017 minutes, seeing none, a Motion was made by Bruce Carter and seconded by JoAnna Ritchey to approve the Membership minutes of the August 2017 (Picnic) meeting as published. Ann asked for discussion and seeing none, called for the vote. The vote was taken and the Motion passed unanimously to approve the minutes as written and published.

Regular Business

- Deadline to submit items for the *Bulletin* is the 22nd of each month;

Announcements

- The MSSC Board Meeting will be Sunday, September 10, 2017 at the Carter residence at 1:00 pm. Please let Ann know if you are planning to attend
- The von Kármán Lecture for September 2017 is titled, *A Volcanologist's Paradise* and will be presented by Dr. Ashley Davies who looks at moons of Jupiter. The lectures are on Thursday, September 21 at JPL and repeated on September 22 at the Vosloh Forum at PCC;
- UCLA Meteorite Gallery presentation for September 21, 2017 "*From the Edge of the Solar System*" by Professor David Jewett. [*Secy Note: October 22nd lecture will be "How to Find Meteorites with Weather-Radar Observations of Fireballs: Opportunities for "Citizen Science" in the U.S. and Worldwide". Looking forward, UCLA's science outreach day will be November 5 "Exploring Your Universe 2017"*];
- Shows: **Boron:** October 7-8, 2017, **Trona:** October 14-15, 2017 and the **American Opal Society:** November 4-5 in Anaheim;
- Next MSSC Membership Meeting will be Friday, October 13, 2017 at PCC;

- MSSC has been acknowledged for donations made to Pasadena City College. Though we have donated to PCC often in the past, this is the first time MSSC has been mentioned on the list of donors.

Show and Tell

- Jerry Wendt was excited to show his newly acquired Stramatolite (a silent auction goodie he won at our annual picnic) and asked Dr. Bruce Carter (the donor) to tell a little about the piece. Stramatolites are the oldest (3.5 billion years ago) recognizable fossil in geological record on Earth. They are comprised of crusted algae colonies. *[Secy Note: See the September 2017 Bulletin for Dr. Carter's full explanation.]* Jerry also brought other samples, one of which was not exactly what he thought he'd purchased on-line through eBay. Buyer beware!
- Dan Krawitz brought in eleven items he recently acquired from part of a collection he purchased. There was an especially large piece from Madagascar and some items that he needs help identifying (in the break room during the coffee hour);

Program

Program Chair Rudy Lopez announced that MSSC now will participate on Sunday, October 14, 2017 at the Prehistoric OC family festival celebration in Buena Park. The event will be from 10 am until 3pm. Angie will be doing cabbing demonstrations and we'll have our exhibits cases plus rock and mineral handouts for the kids.

MSSC has been invited to return and participate at the Natural History Museum of Los Angeles County's 4th annual Urban Fest to be held March 17 & 18, 2018. We have 1,000 rock and mineral samples to hand out but are always looking for donations. Thanks to Bob Housley and others who have donated specimens in the past.

The scheduled speaker for October cancelled. After speaking with this evening's distinguished speaker, Dr. George Rossman and Rudy decided on the solution. October's speaker will be a CalTech student who will present Minerals of Mars. Thanks, Dr. George!

[Secy Note: If you would like to come out and spend a few hours helping at one of these events, it will be greatly appreciated. Give Rudy a call.]

Rudy Lopez, Program Chair, introduced our own Dr. George Rossman, Ph. D, Professor of Mineralogy at California Institute of Technology. He has worked at CalTech since receiving his Ph. D in inorganic chemistry in 1971. He addresses problems relating to mineral identification, origin of color in minerals and gems and other associated issues. He has traveled extensively and was invited to the White House as a participant in a conference on conflict diamonds and, he has been a keynote speaker at several international mineralogical and gemological symposiums. Dr. Rossman, recipient of prestigious accolades, is widely recognized as a leading authority in his field. He is also widely published. Dr. George Rossman is Vice President of the Mineralogical Society of Southern California.

A Visit to the Arkansas Quartz Mines Presented by: Dr. George Rossman, Ph.D.

Dr. George Rossman opens by telling us he knows the owner of the largest quartz crystal mine in the world who invited him to visit his mine in Arkansas. Hot Springs, Arkansas, in the vicinity of the Ouachita Mountains, is the area George takes us to on his visit. A small number of mines are still active and producing quality quartz. There is a small, the smallest National Park, 8 sq. mi, nearby where there are hiking trails, bird watching and some actual hot springs. The hot springs' water temperature is 140°F but the vast majority of the area's springs are in private bath houses.

We head north into Garland County and the city of Blue Springs. This is where important quartz mines now exist. The Coleman Mine, the McEarl Mine and the Zigras Mine (Avant Mining) are all operational today. First, George takes us to the Coleman Mine, a tourist mine, where you can sign up for mine tours, or a shuttle bus around the mine, zip-line across the open pit or mine your own crystals. This open pit is where, during the 40's and 50's, very large quantities of crystals and specimen crystals were obtained. Nowadays, bulldozers are used and piles are dumped for tourists to dig through for their treasures. If you cannot find crystals in the dumps, you can go inside the gift shop and buy to your heart's content. *[Secy Note: The photos George*

showed were incredible showing us the huge open pit and, in the gift shop, row upon row of quartz crystals, large and small - plus other items from Brazil(geodes) and China (Chrysanthemum Stone), etc.]

Historically, these Arkansas deposits were a critical national security importance – oscillator quartz, 85% came from Arkansas, is the quartz that controls the frequencies from everything: your cell phone, to your smart phone, to walkie-talkie, computers, wrist watches and, field radios back in the war period. During that time, the area was mapped by Al Engel who determined quartz mines and quartz veins usable for radio communication during the war.

Dr. Rossman went on to explain how the area and the quartz veins formed 500mya - the Gulf of Mexico wandered up into Arkansas area. As the primordial South American continent moved, it collided causing an uplift which left deposits of the sands, silts and slates that formed the Gulf. Sandstone is brittle and as cracks open up in the sandstone warm fluids would dissolve the silica down below, then the fluids would rise up and the silica would be saturated giving rise to the quartz veins. After a lot of erosion, the quartz veins are exposed and that is what happened in Arkansas leaving massive quartz deposits and veins. There are pockets where quartz crystals have grown, sometimes to very spectacular size!

He continued to explain about alpha (high temperature) quartz and beta (low temperature) quartz, their composition/structure and that all the quartz in Arkansas is alpha quartz. It means that the veins came in at less than 573°C. The fluids inside the crystals gas bubbles have been measured to be 120-200°C. That fluid came up through the sandstone enabling the quartz crystal deposits.

Recall Al Engel. He wrote about the Arkansas quartz deposits in the Geological Survey Bulletin (#973-E) pointing out the crystal's potential, especially for communication technology - the oscillating crystals that vibrate back and forth generating an electrical charge that can be used to time frequency for radios and things like that. Arkansas quartz crystals were the premier quality sought during WWII. The large size of the crystals is important, as well. Engel was a Cal Tech professor, he described the economic potential of the Arkansas quartz crystals.

Avant Mining is owned by James Zigras. He owns 11,000 acres in the area, the largest crystal mining area in the world. He is quite well known. Dr. Rossman showed some photos of large quartz crystals that have iron oxide on them when removed from the pit. The iron oxide is removed first in oxalic acid baths then in water to reveal the beautiful crystals, some as clear as glass! [*Secy Note: Dr. Rossman's presentation photos were spectacular, clear and beautiful.*] Zigrasite is named for James Zigras. Dr. Rossman continued, telling us Zigras has a huge collection of Burmese amber with fossils. New species have been found in his collection of amber! He has 10,000 pieces in the American Natural History Museum.

He explained about the clay that sticks to the crystals, your shoes, tires, everything. He took us to the McEarl mine and other parts. He also told about the rain flooded Glory Hole, he went on to Crystal Bridges Museum, Mount Ida, how variscite is sometimes confused with turquoise and about the wavellite found in Maudlin, Arkansas. Of course, there was more.

Wow, Dr. Rossman, great and fun stories, interesting people, great topic and, as always, well presented. Q & A followed. Thank you! We look forward to your next presentation!

Door Prize Drawing: The Door Prize was won by Angie Guzman!

Adjourn: The meeting was adjourned at 8:38 p.m. Refreshments, show and tell items and lively discussions followed adjournment. Thanks to Rudy for the cake and to Laura for the other goodies.

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

*[Secretary's Note: Come to the next meeting to get full benefit and hear these awesome presentations for yourself. **Our next meeting will be Friday, October 13, 2017 at 7:30 p.m. at the PCC Geology Building. The presentation topic will be Mars Minerals***

List of Upcoming MSSC Events : Mark your Calender!

Event	Date	Comments / Scheduled Program (if known)
Meeting Dates:	November 10, 2017	Chuck Howser - Flight
	December 8, 2017	Eric Scerri – to be announced
	February 16, 2018	To be Announced
Annual Banquet	January 13, 2018	Speaker to be announced
Board Meeting	December 3, 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.

MSSC Board Meeting Minutes: September 10, 2017 at Bruce Carter’s Home

1. **Roll call.** The following officers and directors were present at the MSSC Board meeting held September 10, 2017: Ann Meister, George Rossman, Jim Kusely, Angela Guzman, Bruce Carter, Bob Housley, Patrick Stevens. The following Committee member was also present: Rudy Lopez. One visitor was present: Renee Kraus. There was quorum of 7 present and the meeting was called to order at 1:08 pm by President Ann Meister.
2. **Minutes.** Read and approve Minutes of June 4, 2017 Board meeting as published in the July 2017 MSSC *Bulletin*. Ann asked for corrections and additions and there were two: (1) Pat Stevens’ statement: “...Director Pat Stevens offered that *our* international investments are good...” should be corrected to read: “...Director Pat Stevens offered that *the return on our* international investments is good...” [3.2 Treasurer’s Report] and (2) Ann indicated that the last name spelling as Bussey should be *Besse* [3.7 Programs Report]. Ann called for a **motion to approve the minutes as corrected**. The motion was made by George Rossman and seconded by Pat Stevens. Seeing no further discussion, the vote was taken and **the motion passed unanimously**.
3. **Old Business and Committee Reports.**
 - 3.1 President’s Report and associated questions (Ann Meister)
Computer crash causing data recovery problems: Ann mentioned her computer crashed and was having difficulty with recovery. Her MSSC items and other data have been lost. There was discussion about data recovery and companies that specialize in that problem. Jim Kusely said his computer recently crashed and it was mentioned that Linda Elsnau’s computer also crashed not long ago.
 - 3.2 Treasurer’s Report (Jim Kusely)
Before Jim’s report, there was more discussion regarding computer crashes.
 - a) The Financial Report shows we have a balance of \$18,300.00. Year to date market investments show \$260 in dividend and interest income. Oppenheimer Global is now making 3.59%. Cash outflow was \$250 that does not include income from the picnic and, speaker and picnic expense checks are still outstanding. Ann mentioned she has picnic expenses of about \$40 to submit.
 - b) The renewal of Directors/Officers liability insurance is coming due and is still \$275. The policy runs 10/16/17-10/16/18. Ann called for a **motion to renew the director/officer liability insurance in the amount of \$275 for the policy period**. The motion was made by George Rossman and seconded by Pat Stevens. There were no questions or further discussion and the vote was taken. **The motion passed unanimously**.
 - c) Ann mentioned MSSC is listed as a donor in the PCC Foundation bulletin. PCC donation discussion including, per Dr. Bruce Carter, Miller scholarship, a very large scholarship with a set figure going to various sciences, art, other areas Miller was interested in and that geology gets one or two of them. The Van Amringe Scholarship is for 1 single geology student. There is another lesser amount scholarship, as well. Then there is the Field scholarship. Dr. Carter said that geology gets a few good scholarships. Discussion about the meeting room we use at PCC. Ann asked Dr. Bruce Carter if he wanted MSSC to continue our Field scholarship donation of which approximately 80% goes to geology. He said yes. Jim

reports last year's Field donation was \$500. Discussion about donations and keeping the Field at \$500. Also mentioned was the minor donation MSSC made when a member passed, but that has not happened for some years. Ann called for a **motion to donate \$500 to the PCC Field service scholarship**. The motion was made by George Rossman and seconded by Pat Stevens. No further discussion on the matter and the vote was called. **The motion passed unanimously.**

d) Discussion regarding donations to Mindat.org

- a. Investments: Pat Stevens reports he spoke with the woman he's been trying to reach for some months, she says they have low expense ratio. The 3 ½% seems pretty low, foreign currency risk, equity funds may tank, so with our money, Pat is not sure what to do and would like some advice. Bob Housley agreed. Jim will contact Abacus. Pat said the woman was very helpful.

3.3 Federation Director (JoAnna Ritchey-absent)

No report today, previous report was given at the picnic meeting.

3.4 Membership (Cheryl Lopez-absent)

Rudy Lopez states that membership is quiet; Ann received money from Richard Stemberg; Jim reminded membership is ½ price at this time of year.)

3.5 Bulletin Editor Report (Linda Elsnau-absent)

Ann reported a note she received from Linda about copyright issues on photographs for the "special article" project regarding the Himalaya Mine story. Discussion followed concerning use of published photos. This issue may determine if the articles are published in the *Bulletin* or not.

3.6 Webmaster Report (Leslie Ogg-absent)

Nothing new to report; Jim had a question about cost of the site; Bob mentioned the website stories are good. Ann told a story about MSSC's connection with the Himalaya Mine and a field trip there when it rained and the clay was saturated and the cars got stuck...

===BREAK=== Thanks Kathy!

3.7 Program Chair Report (Rudy Lopez)

a) Picnic: T-shirts [\$140], new table covers, silent auction [\$162], donations [\$228]. We made between \$400-\$500. Rudy spend \$281 of his \$350 budget (containers, etc. leftovers from last year helped). Thanks Bruce and Kathy and, the people who helped with clean up, that made it go fast. Bruce wanted to know if it was worth it to ask for or have the donation (box). Ann agrees that it should be at the picnic and the banquet for those who don't bring something or make a donation.

b) October 14th event at Buena Park, Renee will do wire wrapping, Angie will do cabling demonstrations, Rudy will be there too. Looking for donations, JTI contact? Ann will contact JTI. Rudy is volunteering to pick up donations, the more bling, the better. He will bag and tag, too. Discussion about donations.

c) Urban Fest: MSSC is again invited to participate at Natural History Museum's Urban Fest to be held March 17-18, 2018. Last year there was a \$50 fee but no word, so far. Pat Stevens offered a tourmaline specimen Rudy could borrow for the exhibit case.

3.8 Pacific Micromount Conference (Bob Housley/Al Wilkens-absent)

Speakers have been chosen but Bob does not have the names handy. There was discussion about the room and food. Bob mentioned "Rocks and Minerals" mentioned the last PMC. Rudy wanted to know who would do what at the event.

Committee of Ann, Rudy and Angie to meet about food issue, set up and dollar table. Bob will check with Al Wilkens on 10/1 about the room and other issues about the event. Rudy says we need to beef up the auction items. The dollar table revenue has increased, but did we replenish the supply? Yes, there was enough. Bob says that we will probably have the old room with the refrigerator but not the stove. Additional discussion ensued. Decisions need to be advised by first of November, before notifications get sent out (by Bob). Lastly, Bob mentioned Pasadena Lapidary was invited to the San Bernardino Museum.

4. **New Business**

4.1 Nominations for 2018 to publish in October 2017 Bulletin

Ann announced that we have a person who will run as Vice President, Renee Kraus, if Dr. Rossman would kindly step up to President. Discussion followed regarding duties; Dr. George Rossman agreed to become President. Ann asked each of the other officers and directors if they would accept their nomination to continue. Ann said she felt JoAnna would while all others agreed. Renee said a few words about herself. Thanks to Renee and Dr. Rossman.

The 2018 slate of officers for Mineralogical Society of Southern California:

<u>Officer/Director</u>	<u>Nominee</u>
President	Dr. George Rossman
Vice President	Renee Kraus
Secretary	Angela Guzman
Treasurer	Jim Kusely
CFMS Director	JoAnna Ritchey
2018-2019 #1	Pat Caplette
2018-2019 #2	Pat Stevens

5. **Next Meeting** will be December 3, 2017 at Bruce’s home.

6. **Adjournment** With a big thank you to the Carters and thanks to all who attended, the meeting is adjourned at 3:06 pm.

Respectfully submitted by Angela Guzman, Secretary.

4th Annual Nature Festival: By Rudy Lopez

MSSC has been invited to participate in the 4th Annual Nature Festival at the Natural History Museum. The dates are Saturday & Sunday, March 17th & 18th, 2018.

We have accepted the invitation and will have two tables next to the main entrance and the dueling dinosaurs. We will have three display boxes and if someone wants to fill a box with their minerals please let me know. We have a very secure location and if necessary we will remove your minerals each night. In the three years I have displayed my collection, I've never lost one.

We will provide a mineral or rock for each kid that comes to our tables.

Last year we gave out close to 1,000 bags of rocks or minerals and I am always looking for donations for the events we participate in. We need rocks or minerals that, as the kids say, “shows the bling”. I have hunted through the rocks in my backyard and found a nice supply of tumbling rocks. This will not be enough to get us through this event.

So, what I'm looking for is a few things. First, rocks and minerals to bag, rough rock that can be tumbled and if someone has grit and polishing compounds they would like to donate we can use all we can get. At the present time, I am running a 40lb and a 20lb tumbler at the same time. The tumblers are eating up the grit and polish that I have on hand. I am using the following grit, 60/90, 120/220 and Tripoli Polish. If you have any of the grit or polish or 400 - 800 grit or other polishes for tumbling that are lying around taking up much needed space in your garage and want to donate them, let me know. You can e-mail me at: programs@mineralsocal.org, bring your donations to a meeting, or I will pick them up.

THE COOPER CENTER & OC PARKS “PREHISTORIC OC”: By: Rudy Lopez

MSSC will participate at The Cooper Center & OC Parks, Prehistoric OC on Saturday, October 14, 2017 at Ralph B Clark Regional Park, 8800 Rosecrans Ave, Buena Park, CA from 10am-3pm.

There will be Exhibits, Demonstrations, Storytelling, Crafts, Junior Science Camp, Food, fun for all the family and it's free.

MSSC will provide a cabbing demonstration and a wire wrapping hands-on class. Angie Guzman and Rudy Lopez will give the cabbing demonstration. Renee Kraus with the assistance of Cheryl Lopez will conduct the wire wrapping classes. Leslie Ogg will help and will assist where needed.

We will have a display case with 30-40 cabochons that I have done in the past and most likely some of Angie's finished cabochons. We welcome others to help at this one-day event. We have enough wire and polished cabochons to get use through this event. We have tools to work with 6 students at a time. But, if someone has wire and tools they would like to donate or lend, we could accommodate more. If you have anything we can use please let me know. Send me an e-mail, programs@mineralsocal.org or bring them to our next meeting. We will make sure all tools will be returned to the lender. We will also give a rock or mineral to every kid that comes to our tables.



The Dr. John D. Cooper Archaeological and Paleontological Center is a Partnership of:



Gene Reynolds was in San Diego recently and while there, was able to locate the San Diego Gen & Mineral Society Building in Balboa Park. As he says, “what a great set up!” He sent along a few pictures to share with us. Thanks Gene.



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	

WEST COAST GEM & MINERAL SHOW

November 10-12, 2017

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	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</p> <p style="text-align: center;">MSSC Treasurer 1855 Idlewood Road, Glendale, CA 91202</p>			

Calendar of Events:

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

OCTOBER, 2017

October 7 - 8: BORON, CA

Mojave Mineralogical Society
Boron Community Center
26998 John Street
Hours: 9 - 4 daily
Web Site: [Facebook page](#)

October 7 - 8: VISTA, CA

Vista Gem & Mineral Society
Antique Gas & Steam Engine Museum
2040 North Santa Fe Avenue
Hours: Sat 10 - 5; Sun 10 - 4
Website: www.vistarocks.org

October 8: FALLBROOK, CA

Fallbrook Gem & Mineral Society
Fallbrook Gem & Mineral Building
123 West Alvarado Street
Hours: 9 - 4
Website: www.fgms.org

October 14 - 15: TRONA, CA

Searles Lake Gem & Mineral Society
Gem Show Building
13337 Main Street
Hours: Sat 7:30 - 5; Sun 7:30 - 4
Website: www1.iwvisp.com/tronagemclub
[Show Flyer/Details](#)

October 21: WEST HILLS, CA

Woodland Hills Rock Chippers
First United Methodist Church
22700 Sherman Way

Hours: 10 - 5

Website: www.rockchippers.org [Show Page](#)

October 21 - 22: WHITTIER, CA

Whittier Gem & Mineral Society
Whittier Community Center
7630 Washington Avenue
Hours: 10 - 5 daily
Website: www.wgmsca.com

NOVEMBER, 2017

November 4 - 5: ANAHEIM, CA

American Opal Society
Business Expo Center
1960 S. Anaheim Way
Hours: Sat 10 - 6; Sun 10 - 5
Website: www.opalsociety.org [Show Page](#)

November 4 - 5: RIDGECREST, CA

Indian Wells Gem & Mineral Society
Desert Empire Fairgrounds
520 South Richmond Road
Hours: 9 - 5 daily

November 18 - 19: OXNARD, CA

Oxnard Gem & Mineral Society
Oxnard Performing Arts Center
800 Hobson Way
Hours: Sat. 9 - 5; Sun. 10 - 4
Website: <http://oxnardgem.com> [Show Page](#)

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Check it out!

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Hospitality	Laura Davis	
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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:

Mineralogical Society of Southern California

1855 Idlewood Rd.,

Glendale, CA 91202-1053

E-mail: treasurer@mineralsocal.org

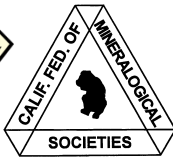
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MSSC Bulletin Editor
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Glendale, CA 91214-2415

To:



**With Knowledge Comes
Appreciation**

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