

Bulletin of the Mineralogical Society of Southern California

Volume 86 Number 6 June, 2013

The 898th meeting of the Mineralogical Society of Southern California

June 14th, 2013 at 7:30 pm

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

**Program: "Getting to know Cubic Crystals" or "An Introduction to the
Isometric Crystal System"**

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

About the Program: "Getting to know Cubic Crystals" or "An Introduction to the Isometric Crystal System" by Fred & Linda Elsnau

A long title for a short, not too technical, introduction to the study of crystal shapes and how they are described.. we start with a short course on basic crystallography and then delve into the Isometric crystal System and how the different crystal faces and shapes relate to each other. Of course, with Fred's skill in photography, there are photos of mineral examples to illustrate the features under discussion.

From the Editor: I sincerely hope everyone received their 2013 MSSC Membership Rosters by now. If you did not, please let me know.

On another topic, to be better able to get the bulletins into the member's hands on time, I find it necessary to set a publication deadline. So, from now on, **PLEASE get your articles to my no later than 7 days prior to the end of the month. (for the July Bulletin, the article deadline is June 24th)** In this way, I will have time to compile, format, produce, print and mail/email bulletin so that the membership has the information in good time before each upcoming meeting. If you have something you want to submit, I will welcome it at any time, but I may not be able to use it in the "next" bulletin. Time and space may require holding your piece until it can best fit.

Fred & I drove up to Santa Barbara to visit with Elizabeth Moller earlier this month. She graciously offered me Bill's crystal models after seeing that we are interested in crystallography. (In the bulletin, no less!). She also asked if we would also pick up some books and minerals that she wanted to donate to MSSC. . As a pleasant surprise, she gave me a bound set of the bulletins that were produced during the three years that Bill was Bulletin Editor, 1973 -1975. I found out several interesting things while looking through the book: Bill had 3-4 assistants to produce the bulletins, the cover design for the bulletin changed during that time and we used to have a really neat motto "with knowledge comes appreciation"! Thanks to computers and photocopies, the bulletin is much easier to produce today, the cover seems to be in flux as it's different again and what ever happened to the motto? Anyway, I want to express my personal and MSSC's thanks to Elizabeth for her generous contribution.

MEANDERINGS FROM THE PRESIDENT by Ann Meister

There are various events in the Pasadena area, other than our meetings and the club shows we already list, that might be of interest to the MSSC membership. I attend a lot of them -- especially the free ones -- and will now see that the pertinent one's get advance notice in the bulletin.

Coming up in June, is a talk titled *Forecasting Quakes: Facts, Myths and Possibilities*. There are more details below in the bulletin. This is one of the monthly von Kármán lectures sponsored by JPL/NASA and named after Theodore von Kármán who was the founder and first director of JPL. The monthly lecture, by JPL scientists about work being done at JPL, takes place twice, on consecutive Thursdays and Fridays at 7 pm, at JPL and PCC. See www.jpl.nasa.gov/events/lectures.php

During the school term at Caltech, there is the Earnest C. Watson Lecture Series which attempts to bring the esoteric work of Caltech researchers to a level that an (educated) public can sometimes understand. Or as Caltech explains it, "The late Caltech physicist Earnest Watson conceived the series as a public lecture program designed to explain science to the local community." Occasionally there are talks about the earth sciences or extraterrestrial geology that would be of interest to MSSC members. All talks are at Beckman Auditorium on Wednesdays at 8 pm. See www.caltech.edu/calendar/public-events

The Huntington Library has frequent lectures, some free, some for members only. Since they have an extensive collection on California and the American West, some lectures have been about the history of the Gold Rush, the San Francisco Earthquake, and other such topics. This may not be specifically mineralogical, but they do cover the history of some mining areas. Check out the calendar at www.huntington.org

Beware of fire season. It's already started and it looks bad. Be careful in dry areas not to start a fire. If you are hiking or on back roads collecting, always be aware of escape routes, just in case. Stay safe.

von Karman Lecture - Forecasting Quakes: Facts, Myths and Possibilities

by Dr. Greg Lyzenga, Technical Staff, Solid Earth Group, Earth Sciences Section Jet Propulsion Laboratory
Thursday June 20, 7:00 pm at the von Kármán Auditorium at JPL and
Friday June 21, 7:00 pm at the Vosloh Forum at PCC.

The recent news of Italian scientists convicted in a criminal court of failing to provide adequate warning of an impending earthquake has starkly highlighted some of the limitations and misunderstandings of the science behind earthquake forecasts and predictions. Are predictions even possible? What difference is there between a prediction and a forecast? What scientific principles allow (or rule out) useful earthquake forecasts? This talk will review the past history and basic principles behind efforts to anticipate the location, size and timing of seismic events. New techniques in data collection and improved understanding of how the Earth works is leading to ever-improving forecast capability, but will the "holy grail" of routine specific earthquake predictions ever be a reality? These questions will be explored and some thoughts about impending southern California quakes will be discussed.

(From http://www.jpl.nasa.gov/events/lectures_archive.php?year=2013&month=6)

MINUTES of the May 10th, 2013 MSSC Meeting:

The 897th meeting of the Mineralogical Society of Southern California was called to order by President Ann Meister at 7:35 pm on May 10, 2013 at Pasadena City College, Pasadena, CA.

Regular Business:

A motion was made by Linda Elsnau to approve the minutes of the April meeting as published in the March Bulletin. Second: Laura Davis. Approved by members present.

Announcements:

- If you did not receive the bulletin and the new Roster, your dues are overdue. Please mail the membership form and check to Treasurer Jim Kusely.
- Please note the rideshare listings in the Bulletin and help out if you can.
- The West Coast Gem & Mineral Show is coming up on May 17-19 in Santa Ana.
- The CFMS Show is coming up at the Ventura County Fairgrounds on May 31-June 2
- **Board meeting will be June 2 at Bruce Carter's house.**
- Bulletin deadline is 7 days before the end of each month.

Show and Tell:

Ann Meister brought one of nine volumes of the Goldschmidt Crystal Atlas. The Atlas contains 23,000 crystal drawing from various sources so that you can compare your specimen with the drawings.

Program:

Our speaker was Dr. George Rossman of California Institute of Technology who spoke on "What makes rubies red, (or why aren't they green?)"

The formula for corundum, Al₂O₃, should be colorless, if pure. But a few tenths of a percent by weight of chromium cause the color. There's a lot more to it and George enlighten us.

The monthly drawing was won by Marek Chorazewisc who selected an Ilvanite crystal from Russia.

The meeting was adjourned at 8:50 pm. Discussion continued in the coffee room along with refreshments.

Respectfully submitted by Ann Meister, Secretary pro tem

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 Stambert	North Orange County, near Cal State Fullerton	714-524-3577
A ride	Catherine Govaller	San Bernardino, CA	cgovaller@msn.com

Kay's Mineral Adventures: by Kay Robertson

I saw my first mineral specimen in the summer of 1928 in a shop window of a jeweler in Chamonix, France where we were spending the summer vacation. There were two large groups in the corners of the window; one of quartz and the other amethyst, on which the jeweler had draped some small necklaces. My Grandmother was going to buy me a doll in the next door toyshop. I said “forget those dolls, I want those specimens!”, which didn't quite work, but the following Easter, instead of Easter eggs, Grandmother hid some mineral specimens that had been in a curio cabinet that had belonged to my Father at the end of the 19th century. I still have them. I remember buying a “smoky” in an Alpine souvenir shop in 1936, but don't know what happened to it.

We had lived in Venice, Italy where I was born and raised and although we traveled a lot, I picked up an occasional pebble but had no way to learn anything or make contact with anyone who knew anything about minerals. We moved from Venice, via Paris to New York and in the summer of 1939 we came to Los Angeles for the summer, which was delightful in those days. We decided to stay and live here. I married a Canadian Air Force Officer and spent a year and a half in Winnipeg, Manitoba, Canada, which is flat, flat, flat and no minerals at all. In 1947, we came back to California and I am still in the house we purchased at that time.

I soon had children and I saw a small shop on Olympic Blvd., west of Sepulveda that had some minerals, mostly it was jewelry. I bought some thumbnails of distorted galenas from the Midwest (those mines were still working then). The owner told me, I believe it was around 1950, about a big mineral show at the Shrine auditorium. I believe it was a Federation Show, because it was very large. I had never seen a show before. I only had 3 hours but made the most of it, and I came home with a large specimen covered with green Wulfenite crystals, which is still in my display case. I also found that there was a society, not far from me, the Santa Monica Gem and Mineral Society, so I joined it. They were mostly lapidaries but there was one mineral collector, and a lady to boot, Marion Godshaw. I joined and was an active member and on the board for many years. The Society eventually decided to have a show, I became publicity chairman. We had got a very nice large crowd and we were able to get a collection of very large gold nuggets with one huge one, which I managed to get on the picture cover of the then “number 1” mineral magazine of the time, “Gems and Minerals”. I also handled a small sales tables at meetings. I managed to get good minerals on consignment, reasonably priced, the club netted 20% of the sales price. I enjoyed it very much for a number of years.

I had joined MSSC around 1955, when it was still meeting in the lovely park. I used to share a ride with Marion Godshaw. I enjoyed displaying at the Federation Shows, I have several blue ribbons to show for it .

In those days, there was a mineral show not too far away, practically every weekend. As a professional antique dealer I had learned at an early age to “see” and I was able to spy fine specimen that were reasonably priced before others did. I had a very low limit “per specimen” budget, but I never tried to squeeze a price no matter how badly I wanted the specimen, they very frequently gave me a break. On the other hand I knew many well to do collectors and if I saw something that would fit their collection I would drag them over to “sell” the specimen to them – in other words I became very much the dealers friend. In the end, many times they would set things aside that they thought would fit my collection.

I started out fascinated by calcite with its many forms, varieties, colors, and the low prices. Eventually, I widened it out into carbonates, but by no means did I neglected other chemical groups. I did not specialize in sizes. After my daughter passed away at age 11 from cystic fibrosis in 1962, I turned her room into my mineral room. My husband built me some beautiful cabinets. I eventually ran out of space, but found, (for \$5 apiece) some cabinets made for computer papers, that were being discarded by some dealers. Each were 6 drawers, even so I have run out of space again!

In 1957 I saw an advertisement in the old “Rock and Minerals” magazine from a man in Hamburg, Germany who wanted to trade with Americans. He spoke English, but I answered him in German, We became correspondents and I was able to trade some excellent German specimens with him. This went on for a while, and then he told me he had no more trading materials, but could he send me \$50.00 at a time for me to spend and buy specimens for him. This went on until 1964.

In 1964, in the autumn my husband and I went to Europe for the first time since I left in 1936. By that time I had been corresponding with several other German authorities and collectors as my Homburg friend had given me a subscription to the German magazine “Aufschluss”. I had made friendships by writing to some of the authors. In those days mining was active at Hagendorf, Upper Palatinate, with a myriad of rare phosphates. Knowing that I was going to visit some of these collector friends, I had accumulated a number of new inexpensive but interesting Mexican minerals. There were only 2 dealers then in Germany, Maucher in Munich and the very old firm of Krantz in Bonn. I have relatives in Munich, so I sent a big parcel of trading material to them. Through correspondence I had become very friendly with Dr. Hans Ziehr, from the University of Munich and the Mineral Museum of Regensburg on the Danube. This city is the capital of the Upper Palatinate, which is the Northern part of Bavaria and the location for a number of famous mines. Dr. Ziehr met me and introduced me to collectors who later became friends, and he recommended me especially to the daughter of Maucher, the old mineral dealer, who was by then deceased. I took my trading material with me, but the lady did not want to trade because “Americans trade so badly” and showed me the trash that she had received from an American collector who had been there before me. She didn’t want to look at my trading material which did not faze me because I knew I could use it later. I had made a good deal on some rose quartz earlier in the year from Brazil, I had some Virgin Valley opals that I had received in trade as well as the Mexican minerals. I was then interested in the Upper Palatinate phosphates, so I went to the cabinet and made hay - her prices were quite low. After a while she came back with a tray with some junk, bad barites, third quality Arizona minerals, etc. . Apparently that was what she had received in trade from the American. I couldn’t blame her for not wanting to trade with Americans! After a while she showed me a two inch crystal of a new Mexican Calcite and asked me if I have seen a similar one and I said, “yes, but you don’t want to look at it, in that box right there”, where I had one similar but 10 times larger! That broke the ice, she would have kept all my trading materials, but I needed it for my trip.

Dr. Ziehr drove me the next day to Regensburg, he was second in the Institute for Research in that city under a Professor Pauss, a typical German professor at that time, stiff as a board, nose in the air, but a very knowledgeable person. The collection is fantastic! Dr. Ziehr, a very warm gentleman, told me quietly to be kind to the old helper, saying that he knew probably more about Upper Palatinate specimens than all the professors combined. This very shy gentleman walked around with us, opening the doors etc. but at a moment alone, he quietly asked me if I would like to have supper at his house. Germans eat cold in the evening, their main meal is lunch. It was a ghastly breaded fried cold Danube fish full of bones, but I would gladly hold still for a meal like that again if it would have a similar result! The first thing I saw in his living

room, a thumbnail of torbernite, brilliant green single crystal from Hagendorf sitting on a shelf on his desk. I admired it loudly, where upon he handed it to me and said "it's yours"!

The Upper Palatinate of Bavaria is the part of that state North of the Danube, while the Palatinate without the "upper" is a province West of the Rhine, North of Alsace, Americans always mix them up. Regensburg is the capital of the Upper Palatinate, and lies on the confluence of the river Regen, which runs North to South, and the Danube. (The word "Burg" means castle, the word "Berg" means mountain) It is interesting how the Regen divides the Upper Palatinate mineralogically. West of the river are the big Fluorite mines, sedimentary, while the East side of the river is volcanic. Hagendorf and Pleystein are on the east, both pegmatites. Fluorites on the West are light colored, on the East are almost black, and many occur with Uranium minerals, and the host rock is radioactive!

After supper we went down to the basement. Sitting on shelves was an astonishing collection of Fluorites, as well as quantities of phosphates from Hagendorf. Among the fluorites were some that had been recently found, of an incredible shape, they looked like elongated calcites with a minute "c" face. I made out like a bandit! A fantastic large specimen is now in the Los Angeles County Museum of Natural History, but I kept the best single crystal.

The next day Dr. Ziehr took me all around the Upper Palatinate and introduced me to dealers and I did lots of trading with unusual pegmatitic specimens for which I traded with my rose quartz, which was new to them. I then went from Nuremberg directly to Frankfurt. The next morning I took a train to Raunheim where I met a doctor with whom I had been corresponding. He met me at the station with two of his youngsters and took me immediately on a field trip to the old mercury mines which were, by then, closed, then to his home. He was the first micromounter in Germany. He was the medical doctor for the village in which he lived and it was a good thing nobody got sick that day in the small village! His wife, an absolute darling, was the most hospitable lady I have ever known, she was preparing food for lunch, for afternoon tea, for supper and a snack before leaving, all of which were first class. I got back to Frankfurt very late. The next day. I went up to Bonn to visit the old firm of Krantz. At that time it was still in its original house, set back from the streets with a garden and fence and a corridor flanked by several closed doors. Eventually someone came out from a room and invited me in, and I thought I was back in the 19th century! The corridor had glass cabinets with stuffed owls and other birds and was dimly lit, but this large room at the end was bright and flanked all around with shiny mahogany cabinets with drawers, clear up to the top of the wall, and a huge table in the center. I told them I was interested in phosphates and calcites particularly, and in early specimens. I had received several shipments from them and among them had been a single columbite crystal with their modern label, with the date "found 1808", which is the year columbite was first described. I found several ugly but very early German specimens, the earliest label in Latin from Bruggeman from the 1770s! I told them if they removed the old labels I would send back the entire shipment and it was a very large shipment indeed. I had a ball! I had them ship it directly as it was a big lot and I could not carry it with me. I guess, with my background in antiques, I love these early day minerals too, even though they are not nearly as beautifully trimmed as the more modern ones. The next day I flew from Frankfurt to Hamburg to visit my old trading partner. He had a collection of about 4000 specimen, he originally came from the Harz mountains and was an accountant and still had to work, as he had no pension. I was very taken with these wonderful specimens, including a super manganite that looked like a Christmas tree! He gave it to me, I did not want to accept it as a gift because of its value, so I forced him to take it at my top price, which seemed very high to him. He then made me a proposition I could not refuse; he would send me a parcel from time to time and I could pick which ones I wanted, and sell the rest for him and send him the money, because he had no retirement funds and this would help him a lot.

Of course, I could not refuse such an offer. From then on for several years, I received those wonderful boxes every month. Of course, I did not want to cheat the old gentleman, and not being a dealer, I did not always know the values of the individual pieces. I used to take the lot to Willard Perkin whose prices were always very reasonable and had him price them out for me. Because I had a family and a little girl with cystic fibrosis, I was always very short of funds, and it would have been very unfair to my family if I spent a lot of money on my hobby. In those days, you could get a very good specimen for \$10.00 or less. I had set myself

a top limit for one specimen at \$35.00, and actually it was 1971 before I exceeded that by \$1.00!! You can imagine that in those days not too many of the pieces were priced beyond my range. I would pick what I could afford from each parcel, and then call my collector friends who were very happy to get these European specimens. I accounted for every cent which I sent to my old friend in Hamburg. Eventually he had a stroke, but by then there was nothing good left. This was the end of my original European foray, but the connections I made paid off for the rest of my collecting life.

My father retired from the antique business in 1970, and my husband and I took over. It had always been necessary to travel a great deal for this business. I had worked for my father before I was married for 7 years, and I knew the business inside out, so I went back to work full time with my husband. As it required a tremendous amount of traveling and I was fluent in four languages, this travel had fell to me. I went to Europe usually for three weeks, sometimes a month, spending a week in London and then, with Zurich as headquarters in Switzerland, I would roam to Paris, Germany, Austria, and Italy by train. This was great for my collection! I had friends in almost every city in Germany by then, and I would arrange to spend weekends with different ones. I also had very good friends in many American cities, most of them very knowledgeable ones, so that I was able to combine my hobbies with my business, the latter by day, the fun on the weekend. No wonder that I have a wonderful German collection!

Gems Of The Medici at the Bowers Museum: April 16 to September 15, 2013

In the mid-1400s, many celebrated artists, goldsmiths, silversmiths and engravers were attracted by the abundance of wealth in the city of Florence, but the most important factor in this gathering of talent was the presence of the Medici family. For almost three hundred years, generation after generation of Medici dominated city affairs and steered the course of art history. It was the Medici family who funded the workshops of these artists and artisans, who commissioned and collected the masterpieces of art and antiquity. From founding father to the last Grand Duke, the immense power and wealth of this great dynasty was invested in its legendary collections, of which the collection renowned as the *Gems of the Medici* is perhaps the finest in the world.

Gems of the Medici, a world premier exhibition, highlights some of the oldest and most unique pieces of the Medici collections including antiquities dating from the 1st Century BCE as well as a cornelian which was part of the *Seal of Nero*.

* This is a specially ticketed exhibition, please check with the museum for times and prices: http://www.bowers.org/index.php/art/exhibitions_listing/current or, contact them at:

Bowers Museum, 2002 N Main St Santa Ana, CA 92706 (714) 567-3600



June Featured Mineral: Fluorite

Formula: CaF₂,

Crystal System: Isometric

Name: From the Latin, fluere = "to flow" (for its use as a flux). The term fluorescence is derived from fluorite, which will often markedly exhibit this effect. The element fluorine also derives its name from fluorite, a major source for the element.



irocks.com photo

Fluorite : CaF₂

Felix Mine, Azusa (Dalton), San Gabriel Mts,
Los Angeles Co., California, USA

8.5 x 8.0 x 4.5 cm.



irocks.com photo

Fluorite : CaF₂, **Strontianite :** SrCO₃

Minerva No. 1 Mine (Ozark-Mahoning No. 1 Mine)
Ozark-Mahoning Group, Cave-in-Rock Sub-District,
Illinois - Kentucky Fluorspar District, Hardin Co.,
Illinois, USA

12.5 x 10.8 x 6.4 cm.



Fluorite : CaF₂

Chamonix, Haute-Savoie, Rhône-Alpes,
France

3.1 x 2.4 x 1.8 cm

irocks.com photo

Did You Know?

When a mineral specimen consists of a group of distinct crystals, it is described as:

Descriptions are as defined in Manual of Mineralogy, 15th edition, by: Dana & Hurlbut; published in 1941



irocks.com photo

Dendritic

Abrescent, in slender divergent branches, somewhat plantlike, made up of more or less distinct crystals

Copper :

Cu

Locality: Champion Mine, Painesdale, Houghton Co.,
Michigan, USA

3.4 x 1.8 x 1.0 cm.



irocks.com photo

Reticulated

Latticelike groups of slender crystals

Cerussite :

$PbCO_3$

Locality: Nakhlak Mine (Nekhlak Mine), Madan-e Nakhlak (Ma'dan-e-Nahlak), Anarak District, Nain County (Nayin County), Esfahan Province (Isfahan Province; Aspadana Province), Iran

2.7 x 2.3 x 1.7 cm



irocks.com photo

Divergent or Radiated

Radiating crystals groups, where the crystals all seem to terminate at a central point.

Stibnite :

Sb_2S_3

Locality: Wuning Mine (Wuling Mine; Qingjiang Mine), Qingjiang, Wuning Co., Jiujiang Prefecture, Jiangxi Province, China

15.2 x 5.5 x 3.5 cm



irocks.com photo

Drusy

A surface is drusy when covered with a layer of small crystals

Quartz : over Calcite

SiO_2 ,

Locality: Shangbao Mine, Leiyang Co., Hengyang Prefecture, Hunan Province, China

8.0 x 7.8 x 7.0 cm

West Coast GEM & MINERAL SHOW

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NOV. 8 - 10, 2013

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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
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	

Calendar of Events:

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

JUNE 2013

June 8 - 9:
LA HABRA, CA
North Orange County Gem & Mineral Society
 La Habra Community Center
 101 W. La Habra Blvd.
 Hours: 10 - 5 daily
 Website: www.nocgms.com

June 14 - 16:
WOODLAND HILLS, CA
Rockatomics Gem & Mineral Society
 Pierce College Farm
 20800 Victory Blvd
 Hours: 10 - 5 daily
 Website: Rockatomics.com

June 28 - 30:
SAN BERNARDINO, CA
Orange Belt Mineralogical Society
 Western Regional Little League Ball Park
 6707 Little League Drive
 Hours: 9 am to Dusk daily
 Website:
<http://OBMSrocks.yolasite.com>

JULY 2013

July 13 - 14:
CULVER CITY, CA
Culver City Rock & Mineral Club
 Culver City Veterans Memorial Auditorium
 4117 Overland Avenue
 Hours: Sat 10 - 6; Sun 10 - 5
 Website: www.culvercityrocks.org

2013 MSSC Officers:

OFFICERS		
President	Ann Meister	president@mineralsocal.org
Vice President	George Rossman	
Secretary	Angie Guzman	secretary@mineralsocal.org
Treasurer*	Jim Kusely *	treasurer@mineralsocal.org
CFMS Director	Jo Anna Ritchey	
Past Pres.	Geoffrey Caplette	
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2013-	Geoffrey Caplette	
2013-	Leslie Ogg	
2013-	Pat Caplette	
2013-	Bruce Carter	
2013	Pat Stevens	
2013	Bob Housley	
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Publicity	Linda Elsna	bulletin@mineralsocal.org
Membership	Jim Kusely	treasurer@mineralsocal.org
Program and Education	Bruce Carter	programs@mineralsocal.org
Webmaster	Leslie Ogg	webmaster@mineralsocal.org
Bulletin Editor	Linda Elsna	bulletin@mineralsocal.org
Micro Mount Conf. Chairman	Al Wilkins	
* Treasurer	Jim Kusely –proviso due to surgery, mid 2013, Ahni Dodge and Laura Davis to assist while Jim convalesces	

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.

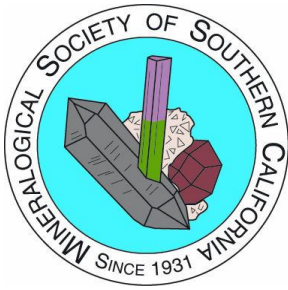
Annual Membership dues for the MSSC are \$20.00 for an individual membership, \$30.00 for a family membership. The Society's contact information:

Mineralogical Society of Southern California
1855 Idlewood Rd.,
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