With Knowledge Comes Appreciation

November 13th, 2015 at 7:30 P.M.

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

Program: Calcite/ Elizabeth R/ Oceanview Mines, Pala/ Minerals/
Mining San Diego County: presented by Chuck Houser

In this Issue:

<table>
<thead>
<tr>
<th>TITLE</th>
<th>Page</th>
</tr>
</thead>
</table>
| Program: Calcite/ Elizabeth R/ Oceanview Mines, Pala/ Minerals/
Mining San Diego County: presented by Chuck Houser | 2    |
| From the Editor: Linda Elsnau               | 2    |
| Meanderings from the President: Ann Meister | 3    |
| Minutes of the October 9th, 2015 Meeting    | 4    |
| List of Upcoming MSSC Events                | 5    |
| UCLA Meteorite Field Trip Report: Rudy Lopez | 5    |
| Invitation to Jewell Tunnel Imports         | 7    |
| Natural History Museum – LA Urban Festival - 2016 | 7    |
| Mining in Pasadena: E. V. VanAmridge        | 8    |
| November Featured Mineral: Nepheline        | 9    |
| Ride Share Listing                          | 9    |
| Calendar of Events                          | 10   |
| 2015 Officers                               | 12   |
| About MSSC                                  | 12   |
| Your 2016 Membership Renewal Form           | 13   |

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: Calcite/Elizabeth R/Oceanview Mines, Pala/Minerals/Mining San Diego County: presented by Chuck Houser

The Pala district in northwestern San Diego County produces fine mineral specimen and semi-precious gemstone material. Part of the Peninsular Ranges batholith, the Pala pegmatites have been mined to various degrees since around the beginning of the twentieth century. Early mining was supported by China’s Dowager Empress who had an appetite for pink tourmaline. Tourmaline, beryl, and spodumene are among the minerals produced. Morganite, the pink or peach variety of beryl, was first discovered in Pala, and Pala was the location of the first commercially significant deposit of kunzite, the lilac variety of spodumene.

It is thought that during crystallization of a granitic pegmatite, pockets form when the volatile phase develops sufficiently to allow “bubbles” to develop and coalesce to form open spaces in which mineral crystals may grow freely and in their euhedral shape. But don’t think that upon encountering a pocket you will see a beautiful open cavity with lovely gem crystals growing into it. Crystals are typically encased in sticky, reddish brown clay. We will discuss what it is really like to dig a pocket as we look at some pictures of pockets and fine mineral specimens after cleaning from the Cryo-Genie Mine in Warner Springs.

The Elizabeth R mine, located on Chief Mountain in the Ocean View pegmatite, was begun in 1974. The only evidence of work prior to 1974 is an open cut about 50 feet north of the upper north adit. Jahns and Wright report early production as quartz and beryl. Roland Reed of El Cajon purchased the mine and operated it from 1974 into the early 2000s. His early production included quartz and beryl, and later he began finding colored tourmaline and kunzite. He sold the mine to Jeff Swanger in 2000, and the mine has since been re-named to the original name of the pegmatite, the Ocean View Mine. Mr. Swanger’s recent production has included colored tourmaline, aquamarine beryl, and large, deeply colored crystals of kunzite.

The Elizabeth R mine exhibits several controls and indicators for the formation and distribution of significant pockets. Pockets appear where a dike bulges in thickness. These bulges may occur where some weakness, such as a crosscutting fracture set is encountered in the host rock. The dike may also bulge where the dip changes. These flexures of the dike are referred to as “rolls.” In areas where the pegmatite dike does bulge, whether due to either of the structural controls described above or due to other factors, it appears the thicker sections of the dike may facilitate development of a well-developed “core” zone. The core zone is an area of the dike, generally in the central portion, where the largest crystals and the most economically significant mineral assemblages occur.

In addition to the mining operation, Mr. Swanger operates a “fee dig” at the mine where visitors can spend the day, tour the mine tunnels, and screen mine tailings for mineral and gem crystals. This presentation will conclude with a few rules of etiquette and protocols to use when visiting a fee dig operation such as the Ocean View Mine.

Speaker Bio

Chuck Houser is a geologist and project manager with SCS Engineers in San Diego. He has a Bachelor of Science degree from San Diego State University from 1986, and a Master’s degree from SDSU from 1997. His undergraduate thesis was on structural controls and mineralogical indicators for the formation of pockets in the Elizabeth R Mine in Pala, and his master’s thesis was on the tectonic geomorphology and Quaternary history of the Old Woman Springs fault in the western Mojave Desert in San Bernardino County.

Chuck is married to Cindy and has two daughters, Julianna and Jennifer, both in college. His hobbies are fly fishing, flying (he has had his private pilot’s license since December 1977), and, you guessed it, mineral collecting. His mineral collection includes calcites from worldwide localities with emphasis on twins, San Diego County thumbnails, and minerals from the Elizabeth R/Ocean View Mine, as well as an assortment of self-collected pegmatite minerals from various San Diego and Riverside County locations.

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From the Editor:  Linda Elsnau

It’s November!  How did it get here so fast!  This month is MSSC’s election for next year’s officers.  Do come to the meeting if you can so you can have a vote.  Better yet, come to the meeting and volunteer to serve in one of the positions.  The list of nominees as they now stand is shown in the minutes of the October meeting.  I have an interesting side note, our neighboring Pasadena club, Pasadena Lapidary Society, was awarded the “First Place Gold” award at the AFMS convention in Austin, TX last Saturday!  This is awarded to the club the AFMS feels is the club whose activity was judged to be the “best of the best” in the US!  Congratulations to PLS for this prestigious award.  They have more info about this on their website, you can check it out here:  

www.pasadenalapidarysociety.org/files/Pasadena_Lapidary_Society_2014_YEARBOOK.pdf

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MEANDERINGS FROM THE PRESIDENT by Ann Meister

As you have heard by now, the mineral community has lost a giant:  Rock Henry Currier (1940-2015) was a mineral collector extraordinaire who was exceptionally knowledgeable in minerals and their localities, but more important to me, Rock was my friend for more than 40 years.  He held various positions in the Society including Program Chairman (and frequent speaker), Show Chairman, Director and Vice-President, becoming President of MSSC in 1974 mid-year when Mike Kokinos had to step down.  Rock completed the ’74 term and remained President through 1976 (when I was “his” secretary).  With Rock’s prodding, the MSSC Board voted to move the show from the PCC student center to the then-new Pasadena Convention Center.  The first show was held on November 1-2, 1975.  The “Pasadena Show” grew to become one of the top shows in the United States.  For his contributions to the Society over the years, Rock was elected a Life Member of MSSC.  One of his continuing contributions was to invite MSSC members to an Open House at JTI where we would have an opportunity to purchase the bounty of his travels.  This year, the Open House will be on November 7, and it may be the last ever.  (See the announcement elsewhere in the Bulletin.)  Thanks for everything, Rock.  MSSC will miss you, and I will miss you, and the barrel-unpacking parties (ah, the sparkling pyrites), and your peculiar sense of humor.

The UCLA Meteorite Gallery field trip was attended by about 10 MSSC members.  The Gallery has well displayed meteorites with ample informational material.  It also has a case of “meteorwrongs” which represent the items that are brought in for the docents to identify.  According to docent and researcher Dr. Alan Rubin, who was our host, the Gallery sponsors one lecture each month on a Sunday afternoon at 2:30 (gallery open 1-4 on Sundays).  We heard Dr. Rubin describe “The Origin of the Solar System” in a nutshell – lots of information in a short time!  He also mentioned to me that the November talk would be by a meteorite collector who is also a docent.  The talk is not yet listed on the website (www.meteorites.ucla.edu/events/).  The list of previous lecture topics is fascinating if you are interested in meteorites and their mineralogy, their origin, and their impact on our world and the galaxy.  Check it out...

Geologist/Seismologist in the News:  Dr. Lucy Jones, known to the public as the “earthquake lady,” was awarded the Samuel J. Heyman Service to America Medal in Citizen Services.  The Sammie, known as the “Oscar” of government service, recognizes federal workers who have made a notable impact in the United States and around the world.  Jones was one of eight winners out of 30 finalists.  Her home base is the Pasadena office of the U.S. Geological Survey.  Jones’ research as a seismologist includes the ShakeOut scenario, which examines the effect of a 7.8 magnitude earthquake on the San Andreas fault in Southern California.  The report changed the way officials use scientific data when considering earthquake risks.  After every earthquake, she is on the news explaining in laymen’s terms, what happened and what might still happen.  Congratulations!

CLASSIC ROCK from the March 1974 Bulletin

Rock Currier was the Program Chairman in March 1974 and had not procured a speaker for that month.  In the Bulletin, the published program topic was:  “Some Mineral Specimen Localities:  Fiji, Australia, eastern Malaysia, Korea, Thailand and India.”  The description of the program is classic Rock:  “Rock Currier, mineral dealer, collector, photographer and last but not least, desperate program chairman for MSSC, announces that his recent buying trip around the world will be the subject of the program for March.  He is vain enough to believe it will be of interest to the general membership, and has promised not to promote any of the specimens he

obtained on his trip. Besides, the Society doesn’t have much choice because he is program chairman and is writing this announcement. His lecture will be accompanied by color slides of the various localities, specimens obtained and by some real specimens to inspect for those interested.”

**ELECTION OF OFFICERS AND DIRECTORS FOR 2016**

The election of officers and directors for 2016 will take place at the November meeting. Nominations are open until then. If you need to see the list of candidates, just take a look on the last page of this Bulletin to see the current list of officers and directors. There’s no change. Is that what you want?

**Check your shelves, boxes, garage and the back of your closet for DONATIONS to the SILENT AUCTION for the BANQUET on JANUARY 9, 2016**

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**MINUTES of the October 9th, 2015 MSSC Meeting**

Meeting called to order at 7:38pm by President Ann Meister.

Minutes of September 18, 2015 were approved as published in the Bulletin.

Anne Meister announced that Rock Currier passed away. No memorial is planned for him here, but one is being scheduled for Tucson. Several members told stories about Rock.

Linda Elsnau announced that the bulletin deadline will be 10/25/2015. She also said that almost everyone must have a story about their first mineral or rock that they can share.

The Silent Auction, will be held with our Installation Banquet, and we need things for the auction.

Nominations for the upcoming elections:

- **President** Anne Meister
- **Vice Pres.** George Rossman
- **Secretary** Angie Guzman
- **Treasurer** Jim Kusely
- **CFMS Rep.** Jo Anna Ritchey
- **Board 2016/17** Pat Caplette
- **Board 2016/17** Pat Stevens

Rudy Lopez announced that the field trip to UCLA, Meteorite Museum, will be Sunday 1/18/2015 from 1-4pm. Alan Rubin will give a special tour and presentation re: Origins of the Solar System.

Other Announcements: Searles Lake Show & Field Trips and the Opal Show are this weekend.

Program: Tony & Sandy Fender spoke on *50 Unusual Things in the Mojave Desert.* This is also the title of Bill Mann’s book, vol. 1. He also wrote Vol.1, 2, 3, 4, 5, 6, and 7. Tony & Sandy have visited these sites.

- **Site 1** Old Mormon Trail, located outside of Barstow is where you can see wagon tracks.
- **Site 2** Natural well dug by Indians located next to the Mormon Trail. The size was 12”x12x12”.
- **Site 3** Intaglio in the shape of a skull
- **Site 4** Train Wheels sticking up from the sand in Afton Canyon. These have since disappeared.
- **Site 5** Train Box Car buried in sand in Afton Canyon is still there.
- **Site 6** Spooky Canyon
- **Site 7** Cathedral Canyon has a beautiful echo.
- **Site 8** “Igloo” of rocks north of Broadwell Dry Lake.
- **Site 9** Railroad Ties from the Tonopah & Tide Water RR. The Tracks were taken up during WWI.
Site 10 Dozens of rock circles in a straight line.
Site 11 Mesquite Springs with big Tamarisk trees and a bath tub.
Site 12 Petroglyph located north of Broadwell Dry Lake.
Site 13 Cruisero is where the Tonopah & Tide Water intersected with the Union Pacific.
Site 14 Kilns with broken pot shards, not that old.
Site 15 Megaphone. A large metal cylinder made from 3/8” steel anchored to boulders that leave visitors guessing at the reason for the installation.
Site 16 Inscription Canyon (Opal Mountain) for Petroglyphs.
Site 17 Stepping Circles, where rocks have been cleared away leaving a circle.
Site 18 Delores Holland grave, east of Afton Canyon. Cement over the top a surrounded by wrought Iron fence. Someone still comes to regularly clean the area.
Site 19 Grave of Bonnie Keebler is covered by rocks with a cross for the headstone.
Site 20 Motorcycle Monument. The is where people left artifacts in remembrance of those who loved motorcycles and died.
Site 21 Menagerie Canyon is where you can see animals in the strange, eroded tuft, located just off of Afton Canyon.

Tony & Sandy completed their talk by discussing the Fluorite Mine in Afton Canyon and volunteered to lead a field trip there.

We have 16 members listed and 2 speakers.
Meeting adjourned at 8:40 pm
Respectfully submitted by Jo Anna Ritchey

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List of Upcoming MSSC Events : Mark your Calender!

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Comments / Scheduled Program (if known)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meeting Dates:</td>
<td></td>
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<tr>
<td>December 11, 2015</td>
<td>Forestry Service: Monument Program</td>
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<td>February 19, 2016</td>
<td>Bruce Carter…Title to be Announced</td>
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<td>March 11, 2016</td>
<td>Alan Rubin, UCLA Meteorite Museum; Hot Meteorites</td>
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<td>April 8, 2016</td>
<td>Tony &amp; Sandy Fender; Mount St Helens</td>
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<tr>
<td>Annual Banquet</td>
<td>January 9, 2016</td>
<td>George Rossman…Topic to be Announced</td>
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<td>Micro Conference</td>
<td>January 29-31 2016</td>
<td>San Bernardino County Museum, Redlands, CA</td>
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<tr>
<td>Board Meeting</td>
<td>November 8, 2015</td>
<td>Board Meeting at Bruce Carter’s house</td>
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Note: Dates and programs shown above are subject to change. Check your bulletins to confirm final information each month.

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UCLA Meteorite Museum Field Trip Report by Rudy Lopez

Sunday October 18 2015

On Sunday October 18,2015 , members of MSSC went to the UCLA Meteorite Museum at the Westwood Campus. We had a good turnout of members, a guided tour of the meteorite collection and a fantastic presentation on "The Origin of the Solar System." Alan Rubin, EPSS Researcher and member of the Earth Science Department at UCLA, conducted the tour and presentation.

The UCLA collection is the largest on the West Coast and contains nearly 3000 samples from about 1500 different meteorites. It is the fifth largest collection in the United States and the second largest housed at a university. In addition to meteorites, the UCLA collection included a large number of tektites including layered tektites recovered during field work by UCLA scientists.
Every year hundreds of specimens are sent to UCLA for analyzing, from people who suspect that they found a meteorite. Less than 1% are genuine meteorites. The samples that are not meteorites are called meteorwrongs. A large variety of materials have been received including steel slag, iron oxide, sulfide, terrestrial igneous and metamorphic rocks.

I want to thank Alan Rubin and UCLA for inviting the Mineralogical Society to see the meteorite collection and for the fantastic presentation on "The Origin of the Solar System, which was fascinating and had a packed room. I'm very happy to say that in the near future Alan Rubin has agreed to give a presentation at PCC for one of our meetings.
An invitation for the members and friends of the Mineralogical Society of Southern California to attend an open house at

**Jewel Tunnel Imports**

**Saturday November 7th, 2015 - 10 AM to 4PM**

13100 Spring St., Baldwin Park, CA 91706, 626-814-2257

Starving students and other will be fed. Unattended children will be sold as slaves.

Map also available at jeweltunnel.com

Jewel Tunnel Imports is a leading wholesale distributor of mineral specimens, crystals, fossils, tumbled stones and many different kinds of lapidary items like balls, eggs, jewelry etc. made from different minerals. We have a warehouse in excess of 10,000 sq. feet full of mineral related natural history items, perhaps the largest of its kind in the United States. Check out our website jeweltunnel.com.

Historically Jewel Tunnel Imports has had limited open house parties for minerallogically and geologically oriented groups such as the students and faculty of various university geology departments and members of certain gem and mineral societies. These open houses, by invitation only, on a few weekends just preceding Christmas, offer a chance for individuals belonging to these groups to buy minerals and crystals at wholesale prices and to learn something about the wholesale gem and mineral business.

Jewel Tunnel Imports is a wholesale only warehouse and this invitation is only for the date of the open house. If you wish to return during the year to purchase items you will need to obtain your own resale permit from the California State Board of Equalization. The 9% sales tax will be charged. All sales are final.

**Directions to Jewel Tunnel Import’s warehouse.**

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The Natural History Museum of Los Angeles County

**2nd Annual LA Urban Nature Fest**  June 25th & 26th, 2016

MSSC has been invited to participate in the 2nd Annual LA Urban Festival.

This year we are going to have a display case set up. We will talk more about it later this year. Now is the time to start gathering suggestions on what goes into the case. Help will also be needed to man our booth.

Hello Fellow Nature Lover,

The Natural History Museum of Los Angeles County is excited to announce that we are preparing for our 2nd Annual LA Urban Nature Fest to be held on June 25th & 26th, 2016. Earlier this year we had a great turnout for our 1st Annual Nature Fest with more than 50 organizations represented and over 7,200 guests in attendance. Next year we’re hoping for an even bigger turnout over the two-day Nature Festival celebrating L.A.’s
impressive biodiversity. Explore NHM’s research and collections with our scientists, connect with amazing local organizations, participate in citizen science projects, and dig into the Nature Gardens with family-friendly workshops, activities and performances.

We would like to invite you to join our LA Nature Fest by hosting an informational or activity table in our exhibit halls and gardens.

There will be an online registration link available on **Monday, March 14, 2016** with an “**Exhibitors Register Here**” button on the LA Urban Nature Fest web page at

[http://www.nhm.org/site/activities-programs/nature-festival](http://www.nhm.org/site/activities-programs/nature-festival)

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**MINING IN PASADENA** by E. V. Van Amringe

Although never noted as a mining district, the Pasadena territory has been prospected for minerals since early days. The writer, in geological rambles in the foothill region between the Arroyo Seco and Eaton Canyon, has often noticed old pits and ditches in the washes, and holes in the mountainsides. What follows is the result of a few day's search of early books and files in an attempt to learn a little of their history.

It was only a scant eight years after the discovery of gold in Placerita Canyon by Francisco Lopez in 1842, that Carlos Hanewald and John Pine signed a contract with Manuel Garfias, owner of Rancho San Pasqual, to purchase a square mile of land in the Arroyo bottom, vaguely described as "commencing where the Arroyo turns upward on the tillable lands there", for the purpose of washing gold from its sands. The deal was far from our conception of the easy business methods of the time, when land was worth "two-bits" an acre and the shrewd Yankee always has his way. The purchase price was $2,000; $600 down, the balance to be paid in a year with interest at 4 % per month. Failure meant forfeiture of all payments and improvements. Who came out ahead on this arrangement may be inferred from the ruins of an old adobe near the present location of Brookside Park, and water ditches there and at other places in the Arroyo, objects of much mystery to founders of the Indiana Colony. Similar diggings have often been noted in Eaton and Rubio Canyon washes. However, there must have been some successful operations, for from 1853 to 1871, there were taken from the placers of San Gabriel, Santa Anita and Eaton Canyons $ 2,000,000 worth of gold dust.
The first location of lode claims seem to have been in 1886, when a number were staked by Konstian, Hearn and others on the south flank of Mt. Wilson. The newspapers reported 300 men prospecting, and 38 at work on a new trail to the diggings, and assays from $50 to $370 a ton. In this same year assays from $40 to $100 were reported from the hills west of Linda Vista where in 1887, J. W. Wilson and son worked a vein of free milling gold quartz running from $5 to $26 dollars. As the mineral rights in this area were owned by J. De Barth Shorb, and the royalties demanded by him were prohibitive, operations soon ceased.

In 1892 Carson and Dickey began operations on the "Carrie" mine in the west wall of Pine Canyon, between Eaton and Rubio Canyons, at an elevation of about 3,000 feet above sea-level. A tunnel about 100 feet long was dug, passing through two veins, the first of which was worked by side drifts. They also staked out the "Pine Tree", the "Edith", the "Summit" and the "Surprise" claims, in the same canyon. Ore from these mines assayed from $75 to $250 per ton in gold and from $2 to $12 in silver. These mines were incorporated into the "Loris Gold Mining Company" on June 22, 1894, the name being that of the daughter of Ed. Kennedy, the president and principal stockholder. A pack trail was constructed, to the wagon road, burros purchased, a mill erected and a steam engine and other machinery installed. The winter of 1894 was dry and the mill was unable to operate, although 50 tons of ore, averaging $40 a ton, was ready to be worked. The next year the mines were abandoned, and the mill moved away.

Starting at about the same time as the operations in Pine Canyon, Wm. Twaddell located a number of claims in Las Flores Canyon, where Wood and Redway had discovered ore in 1881. The claims were called the "Golden Star", the "Altadena", the "Bald Eagle", the "Jessie Marie", the "Monitor", and the "Pasadena". Although the primary purpose of the tunneling was for irrigation water, one large, well-timbered shaft was sunk on the "Golden Star" a hundred feet along the dip of the vein. A road was built to the shaft and a mill site surveyed, as the ore obtained averaged $10 per ton in gold. But - as seems to be their habit in this region, the veins pinched out, and the values ran too low, and another of Pasadena's mines gave up the ghost.

The last picture in the story of gold is most incomplete and details would be much appreciated. Apparently the only recent operation was at the "Dawn" mine in the bottom of Millard Canyon on the Southwest slope of Mt. Lowe. Here the vein strikes nearly east and west, and dip is almost vertical. There was considerable development by adits in the first decade of the present century, but no large body of ore opened up. The mineral is auriferous pyrite, and many still believe there is much wealth hidden in the granite - but for the last fifteen years only gaping and abandoned caverns intrigue the visitor.

Of other minerals there is little to relate. A deposit of bog-iron ore on an abandoned Santa Fe right-of-way was never worked; a few projected oilwells were never drilled; and a two-hundred foot tunnel dug by Samuel Carson, son of Kit Carson, at the expense of Prudent Beaudry, in 1876, into the west bank of the Arroyo at Columbia Street, netted them just one ton of coal.

********* 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

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<th>Looking for</th>
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<tr>
<td>A ride</td>
<td>Richard Stamber</td>
<td>North Orange County, near Cal State Fullerton</td>
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<tr>
<td>A ride</td>
<td>Catherine Govaller</td>
<td>San Bernardino, CA</td>
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Featured Mineral:  Nepheline

Formula:  (Na,K)AlSiO₄
Color:  White, grey, yellowish
Crystal System:  Hexagonal

Name:  From the Greek "nephele" for "cloud" since it turns cloudy when treated with strong acid.

Nepheline:  (Na,K)AlSiO₄
Locality:  Jebel Bou-Agrao, Tamazeght Mountain Range, Khénifra Province, Meknès-Tafilalet Region, Morocco
Size:  2.6 cm x 2.3 cm x 1.6 cm

Schorlomite:  Ca₃(Ti,Fe³⁺)₂((Si,Fe³⁺)O₄)₃
Locality:  Jebel Bou-Agrao, Tamazeght Mountain Range, Khénifra Province, Meknès-Tafilalet Region, Morocco
Size:  2.8 cm x 2.8 cm x 2.1 cm

MSSC Advertisement Policy:

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<td>$20.00</td>
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<tr>
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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 can be found at: http://www.cfmsinc.org/

**NOVEMBER 2015**

**November 7 - 8: ANAHEIM, CA**
American Opal Society
The Phoenix Club
1340 South Sanderson Avenue
Hours: Sat 10 - 6; Sun 10 - 5
Website: www.opalsociety.org/

**November 7 - 8: OXNARD, CA**
Oxnard Gem & Mineral Society
Oxnard Performing Arts Center
800 Hobson Way
Hours: Sat. 10 - 5; Sun. 10 - 4
Website: www.oxnardgem.com Show Page

**November 7 - 8: RIDGECREST, CA**
Indian Wells Gem & Mineral Society
Desert Empire Fairgrounds
520 South Richmond Road
Hours: 8 - 5 daily

**November 7 - 8: SAN DIEGO, CA**
San Diego Mineral & Gem Society
Al Bahr Shrine Center
5440 Kearny Mesa Road
Hours: Sat 9:30 - 5; Sun 10 – 4

**November 21 - 22: APPLE VALLEY, CA**
Valley Gem & Mineral Club
Victor Valley Museum
11873 Apple Valley Road (x Bear Valley Rd.)
Hours: Sat 9 - 5; Sun 9 - 3
Website: www.vvgmc.org Show Page

**DECEMBER 2015**

**December 5 - 6: BARSTOW, CA**
Mojave Desert Gem & Mineral Society
Cora Harper Community Center
841 S. Barstow Road
Hours: 10 - 5 daily
Website: www.mdgms.net

**December 5 - 6: LAKESIDE, CA**
El Cajon Valley Gem & Mineral Society
Lakeside Rodeo Grounds
12584 Mapleview Street
Hours: Sat 9 - 5; Sun 9 - 4
Website: www.ecvgms.com

**December 12 - 13: RIALTO, CA**
Orange Belt Mineralogical Society
Across Street from Rialto City Hall
105 South Palm Avenue
Hours: Sat 9 - Dusk daily
Website: http://OBMSrocks.yolasite.com
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
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Website: www.mineralsocal.org  The Mineralogical Society of California, Inc.

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