

Bulletin of the Mineralogical Society of Southern California

Volume 89 Number 1 - January, 2016

The 929th meeting of the Mineralogical Society of Southern California

With Knowledge Comes Appreciation

MSSC Annual Banquet

Saturday, January 9th, 2016

Social Hour 5:30 pm. Dinner 6:30 pm; Speaker 7:30 pm

Oak Tree Room (next to Coco's)

1150 West Colorado Boulevard

Arcadia, CA 91007

Program: The Many Species of Silica: There Is More to It Than Quartz.

Presented by George Rossman,

In this Issue:

| <i>TITLE</i> | <i>Page</i> |
|--|--------------------|
| Banquet Reservation Reminder | 2 |
| Program: The Many Species of Silica: There Is More to It Than Quartz. Presented by George Rossman, | 2 |
| From the Editor: Linda Elsnau | 2 |
| Meanderings from the President: Ann Meister | 3 |
| Minutes of the December 11, 2015 Meeting | 4 |
| List of Upcoming MSSC Events | 6 |
| A quick comment from our Treasurer, Jim Kusely | 6 |
| Field Trip Announcement: Rudy Lopez | 6 |
| Program Chair Thank you: Rudy Lopez | 7 |
| Guadalupe Island: Rudy Lopez | 7 |
| Here's a Challenge for You: Linda Elsnau | 8 |
| Ride Share Listing | 8 |
| January Featured Mineral: Thénardite | 9 |
| Calendar of Events | 10 |
| 2016 Officers / About MSSC | 11 |

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

**Our annual MSSC Banquet is just around the corner on
Saturday, January 9, 2016**

Join us for a great evening with friends, a presentation from George Rossman, silent action and a great dinner.

There is still time to make your reservations as the deadline is Jan 7th.

You can pay at the door.

The cost of the Banquet is \$38.00.per person

Call or email Rudy Lopez to make your reservation today!

(programs@mineralsocal.org).

There is plenty of seating available.

If you made a reservation and circumstances change where you or your guests cannot attend, please notify **Rudy Lopez before Wednesday, January 6th, 2015. Thereafter you will be responsible for paying \$38.00 for each individual reservation regardless of attendance.** It would be a shame to miss this event because you delayed making that reservation.

Don't Forget to Bring Your Silent Auction Contributions!



About the Program: The Many Species of Silica: There Is More to It Than Quartz.

Presented by George Rossman,

Quartz is the most common mineral that has the chemical formula SiO₂. But there are many colored varieties of quartz including amethyst, citrine, and smoky quartz. In addition, there are several other minerals that have the formula SiO₂. These include cristobalite, tridymite, and moganite as well as a variety of high-pressure polymorphs.

The focus of the banquet presentation will be to explore the various colored varieties of quartz and to gain some insight into the origin of their attractive colors. Metal ions, inclusions, and external radiation are part of the materials and processes that give quartz its beauty.

We will also examine the various polymorphs of silica including well-known ones like the high-temperature cristobalite and the high-pressure coesite as well as the recently described silica clathrates, bosoite and chibaite.

Remember! Dues are Due!

Even if you hold a Life or Honorary Membership, you should still fill out the 2016 Membership form so we have all of your current information and preferences. Has anything changed, your phone number, address, email address, or roster preferences?... You should use the membership form to let us know.

From the Editor: Linda Elsnau

Here we are at the beginning of a new year! My how time flies -- it seems the older I get, the faster time goes by! May the coming year be a wonderful year for everyone.

Here I am at the beginning of my 4th year as your Bulletin Editor. I must admit, sometimes putting the bulletin out is a real chore, but most of the time I really enjoy working on it. It's a task that I work on all month long in bits and pieces with one big push at the end. During the month, I'm usually researching articles, or trying to get permissions on something I've found or you have submitted to me. I try to use everything you've sent me, but some things just don't work out. Please continue to send me things you feel may be of interest to the rest of the members. Also, If you can also provide the source and contact information, that would save me a lot of time tracking down what you may already know. I'm looking forward to another fun filled year of the bulletin with you.

HAPPY NEW YEAR! I wish you health and happiness in 2016.

Thank you, MSSC officers, directors, and members for a successful 2015! A special thanks to the officers and directors who are continuing in their positions in 2016. (Hmmm, looks like the faces are the same as last year.) An extra special THANK YOU to *Bulletin* Editor Linda Elsnau who is publishing the best *Bulletin* ever! She would appreciate it if you, MSSC members, would provide more content; it's not her job to write all the articles for the *Bulletin*. (Linda, my New Year's resolution is to get my Meanderings to you on time in 2016!) Thank you to program and field trip chairman Rudy Lopez who has found outstanding speakers and interesting field trips such as The California Oil Museum and Oil Seeps led by Steve Mulqueen and the UCLA Meteorite Gallery as well as making us aware of the Multi-Club Field Trip Schedule. Our membership chairman Cheryl Lopez, Rudy (also Education Chair), Secretary Angie Guzman, Federation Director Jo Anna Ritchey and Marek Chorazewicz staffed a booth at the Natural History Museum's L.A. Urban Nature Fest which was a hit with the children. Our Webmaster Leslie Ogg authored a survey to find out what members and site visitors wanted from the Society. Please take a look at the website and take the survey. Laura Davis hosted the refreshments at the meetings; Kathy Carter hosted the refreshments at the Board meetings. Bruce Carter has "fixed" parking tickets and been our liaison with PCC. Jim Kusley is a dedicated Treasurer who reports that we have a healthy treasury; George Rossman as Vice-president has stepped in when required as well as being a favorite speaker; Al Wilkins and Bob Housley have put together an increasingly successful Pacific Micromount Conference. A thank you to all who attended the monthly meetings, the Annual Installation Banquet, the Picnic, and the annual JTI Open House. I thank all of you for your efforts and participation! I hope to see some new volunteer faces in 2016. Is there any special activity you would like to see?

I look forward to see all of you at the upcoming Installation Banquet and Silent Auction on January 9, 2016 at the Oak Tree Room in Arcadia. Remember that reservations are required. Please contact Rudy Lopez per the instructions on the announcement elsewhere in the *Bulletin*. As always, there should be interesting things on the silent auction tables, but only if you provide them! Remember, this is also a primary money-raising activity to support the Society (along with the Pacific Micromount Conference).

I also hope to see many of you at the Pacific Micromount Conference at the San Bernardino County Museum in Redlands on January 29 -31. The schedule was in the December *Bulletin*. **Even if you don't have a microscope or an interest in micro minerals, the speakers are outstanding with talks focused on localities.** This conference is the epitome of minerals and field collecting for those of you who are looking for places to go. Some of the top currently active field collectors attend this conference so it gives you a chance to rub elbows with collectors from around the US and some from outside the US. Advance registration is \$15 (\$20 at the door). That includes Saturday lunch. Come for the esoteric pot-luck buffet on Friday evening and hear Herwig Pelckmans' talk on "The Minerals of Belgium."

As the year closes, I have been working on the Rock Currier estate, cataloging the book collection, mineral collection, art collection and other odd jobs. Even though I was a member of the Geo-Literary Society a number of years ago, I was never privileged to personally see some of the rare old books that I am now handling. For example, Philip Rashleigh's *Specimens of British Minerals*, Part 1 from 1797 and Part 2 from 1802. Then there's James Sowerby's 1804-1817, 5 volume *British Mineralogy*. Both of these include hand-colored plates that are fantastic. Then there's Reinhold Braun's *Das Mineralreich* from 1903 which has unbelievable plates using a new technology called chromolithography. In 1697, Thomas Burnet published a unique geology-theology book in which the Earth is known to be 5,000 years old(!), *The Theory of the Earth: containing an account of the original of the Earth and of all the general changes which it hath already undergone, or is to undergo till the consummation of all things*. "The two first books concerning the deluge, and concerning paradise," and "The two last books, concerning the burning of the world, and the new heavens and new Earth." The challenge is the many languages: from German and French to Czech, Greek, Russian and Chinese. What would I do without a computer? There will be more to come on this topic...

Membership Meeting Minutes December 11, 2015

The 928th Membership Meeting of the Mineralogical Society of Southern California (MSSC) was held Friday, December 11, 2015 at Pasadena City College's Geology Department. The meeting was called to order at 7:32 p.m. by Vice President George Rossman.

Regular Business

- Vice President George Rossman welcomed all members and guests;
- George asked if there were any corrections or additions to the Minutes of the November 13, 2015 meeting as published in the *Bulletin* for December 2015, and hearing none, a **Motion** was made by Rudy Lopez and seconded by Angie Guzman. The vote to approve the Minutes was taken and **passed** unanimously;
- Deadline for Bulletin items is December 23, 2015;
- Dues are due. Cheryl or Rudy will take the money if you have it available. The dues are \$20 per year;
- The Installation Banquet will be next month at the Oak Tree Room at Coco's on January 9, 2016. The speaker will be someone (George Rossman) from CalTech who will speak on silica, silica minerals and discoveries. Surely, eye candy full of exciting information. See Rudy for reservations; the deadline is January 6th. You can pay dues at the Banquet. There will be a Silent Auction, bidding slips are available up here at the desk or via e-mail. Print as many as you need for your items;
- The Pacific Micro Mount Conference is coming up January 29, 30 and 31, 2016. It will be held at the San Bernardino County Museum. There will be a talk on Friday evening by a speaker from Belgium, Saturday Paul Adams will speak on uncommon mineral localities in Nevada and there will be several other speakers throughout the event. There will be a giveaway table, silent auction and a verbal auction. If you don't have a microscope, don't let that stop you from attending, others are willing to help and the talks are great;
- Ann is sick tonight so this is the first time the Vice President is leading the meeting, for the first time in his career and a little faster than usual;
- The Suiseki Exhibit will be at the Huntington Library December 26 thru January 3rd. This aspect of geology is the Japanese culture of rocks and forms.

Announcements

- Rudy Lopez, Program Chair, reports (1) no Field Trips scheduled, (2) the Banquet is January 9th. Rudy brought forms for the Banquet and Membership Dues, (3) Speakers are booked through June 2016. Rudy will present in July on Guadalupe Island, a volcanic island and a good place to fish!

Show & Tell

In 2009 Dan Krawitz had an opportunity to visit Molycorp, the rare earths mine in the Mojave Desert. He brought in several original vials he'd traded for while there. The vials contain *lanthanum*, *neodymium*, *europium* and other metals extracted from the rare earths mineral deposit there. Dan also brought in printouts of the PowerPoint Presentation used for informational purposes.

Program

George turned the floor over to Program Chair Rudy Lopez who introduced Justin Seastrand, Environmental Coordinator with the United States Department of Agriculture (USDA), Forest Service. Justin brought handouts and compact discs regarding the Revised Land Management Plans and Final Environmental Impact Statement for Angeles National Forest, Cleveland National Forest, Los Padres National Forest and San Bernardino National Forest. These and other information are available at USDA offices in Arcadia and on their website.

Mr. Seastrand began his presentation by stating USDA has plans currently underway to develop a new Management Plan for the San Gabriel Mountains National Monument, in October 2014 President Obama made a portion of the National Forest into the National Monument. Ultimately, he says, there may not be much change between the National Forest and the National Monument.

Using maps as visual aids, Justin described his branch of the Forest Service's jurisdiction. He pointed out that a bulk of the San Gabriels are in Los Angeles County, then there is the San Bernardino National Forest to our east and to our west is Los Padres National Forest. Cleveland National Forest is somewhat east and south in San

Diego and Orange Counties. The boundary lines for the San Gabriel Mountain National Monument (SGM) were shown on his map. The Forest Service office in Glendora has primary responsibility over the SGM. Of interest to the group were the “withdrawn” lands, previously covered areas and newly designated ones, which prohibit resource extraction.

Justin described an overview of the Management Plan: (1) Vision (Desired Conditions), (2) Strategy and (3) Design Criteria (Standards). The Standards are of interest to MSSC because in the 1976 Management Plan, standards were set. As an example, phrasing from the Management Plan states: “...*To personally collect minerals or rocks, you do require coordination and permission with an authorized officer.*” “Personally” here means not collecting for commercial use.

The Vision goals portion of the Plan is to provide beautiful wildlife habitat and still be able to provide wood and mineral commodity. For instance, Northern California’s national forests are in the business of selling wood but whereas California’s are not. Overall, the resources must remain sustainable in order to be maintained for future generations! The Desired Conditions (Vision) consists of community protection (i.e., fire), restoration of forest health, guard against invasive species to plants (i.e., aquatic types such as frogs and other amphibians), and managed recreation in natural settings and, finally, the wilderness areas. Wilderness is more primitive and used in mining, not for recreation.

“Withdrawal” is a term used for land that has been withdrawn from the federal mining laws. Federal mining laws include: (a) mining leases: gas, oil and coal, (b) claims for “hard rock”: gold, silver, copper, (c) mineral sales of the more common minerals such as stone, sand and gravel and (d) energy: renewable energy such as hydro plants, transmission lines, etc. There will be no further claims accepted in the so called wilderness areas in the monument and no selling of material. However, existing claims will be honored and claim owners are allowed to work their claims (mostly gold mining).

In a more relaxed segment, Justin was asked to describe mining. For instance, George Rossman wanted to know if picking up a rock and putting it in his pocket is a violation of withdrawal. Justin said there are some provisions to allow for collecting. He said to let the local office know if you’re interested in taking some rock. For most personal use, the office will probably not issue a permit. There is some discretion on each side, though it is a little vague. Generally, it’s a good idea to let the office know you may do some personal collecting. George asked if it is allowed to gold pan in the East Fork. The short answer is no. The Forest Service does not make a distinction, when they say “withdrawal” – that means “prohibited”. How that is enforced in the field is discretionary. The Forest Service is bound by the law. The local office will issue Special Use Permits for education, clubs and non-profits (i.e., MSSC). Tongue-in-cheek, George brought up the mercury issue, which is in with gold at East Fork. Would the Forest Service like us to remove the mercury and, therefore, the gold? Justin said no, no mercury removal by the public. Mercury removal would fall under the Clean Water Act. Regarding mercury, The Forest Service issues fish consumption advisories for anglers about not eating too much fish.

Bob Housley wanted to know about disturbances up at the reservoir near the dam. Justin explained there is a sediment disposal site up there that is operational. The disturbances may be from those permitted sites. There was discussion about those operations and the fish balance, as well as other conservation issues.

Geoff, Dan, Angie and others joined in with comments and questions and lively discussion: Justin mentioned that all areas of the Station Fire locale are open. George said he had a group of students in the Mill Creek area looking at rocks while on a geology field trip. The group was approached by a Ranger who told them to leave because they didn’t have a permit. In that case, Education did not get free pass. There was other discussion about wildlife including snakes and wild sheep. On another topic, transient camping is allowed up to 14 days. He said it’s difficult to prove duration of the stays unless someone is observing 24/7; enforcement is just as difficult.

Justin talked about withdrawal areas where gold is claimed. 90% of claims in the area are gold claims. There’s tungsten mining in withdrawal monument areas, as well. Only claim holders of record are allowed to extract or remove claim minerals. He was asked if a non-claim holder can remove minerals other than the claims mineral.

Justin said he'd have to find out the answer to that one...good questions! Geoff mentioned that the Himalaya Mine was a gold claim. George wanted to know about Pacoima Canyon. Collecting? No mineral prospecting, panning, dredging, sluicing of any type are permitted within withdrawn areas of the National Forest. Geoff mentioned there is a certain zircon pegmatite up in that area. Justin said maybe it would fall under educational but to check with the local office. George came back to his original question of mining: if you pick up a little piece of mineral, would that be mining? Justin said yes. Under the regulations and laws, it would be mining or prospecting.

Angie wanted to know how long the wilderness areas have been "withdrawn". The answer, various areas at various times: 1964, 1984 and 2009, but, he would have to check the website and maps to be certain of times and areas. Justin was asked if fossils and minerals are treated the same way in those areas. No, he said, they're not. In 2010 there was a more restrictive law passed regarding paleo items. Again, collecting is a no-no. Finally, Justin mentioned that the City of Pasadena is working on having fish back in the Arroyo.

Justin continued with his presentation and mentioned Strategy and Standards. Standards are legally binding, governed by "rules" and Federal regulations. They are monitored by a reporting criteria scheduled every 2 years.

George asked about firearms use in the National Forest or National Monument. Justin said that they are prohibited anywhere near facilities and cannot be fired within 150 yards of campgrounds or recreation facilities. Those are the federal regulations. Locally, the County of Los Angeles also has regulations that the Forest Service honors and enforces.

There was a lot of dialogue in this interesting, lively and informative presentation by Justin Seastrand of the Forest Service. Thanks, Justin. We won't kill the messenger!

Check the website for more information: <http://www.fs.usda.gov/angeles/>

Door Prize drawing was not held at this meeting.

Adjournment was called at 9:10 p.m. Refreshments were served in the office after the meeting.

Respectfully submitted, Angie Guzman, MSSC Secretary

Apologies in advance for any misspellings in this Minutes/aag

List of Upcoming MSSC Events : Mark your Calender!

| Event | Date | Comments / Scheduled Program (if known) |
|-------------------------|--------------------|---|
| Meeting Dates: | February 19, 2016 | Bruce Carter... Title to be Announced |
| | March 11, 2016 | Alan Rubin, UCLA Meteorite Museum; Hot Meteorites |
| | April 8, 2016 | Tony & Sandy Fender; Mount St Helens |
| | May 13, 2016 | Martha House: Micro Minerals |
| Micro Conference | January 29-31 2016 | San Bernardino County Museum, Redlands, CA |
| Board Meeting | March 6, 2016 | Board Meeting at Bruce Carter's house |

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

A quick comment from our Treasurer, Jim Kusely:

If you didn't get your membership or banquet payment check to MSSC before December 23rd, we were not able to have it clear our bank before Dec. 31st. We will make every effort to have all checks cleared as soon as possible.

Field Trip Announcement: Rudy Lopez, Field Trip Chairman

What: Walking with Dinosaurs near St. George, Utah

When: Friday, Saturday & Sunday: *Date Pending...*

Trip Leader: Stephen Mulqueen

Objective: The group will see two dinosaur trackway sites, each containing multiple trackways, located within southwestern Utah in the St. George area. These unusual exposures are in the far eastern edge of the Basin & Range Geomorphic Province. We will also collect marine fossils from the Kaibab Formation at a location on the far western edge of the Colorado Plateau southeast of Hurricane, Utah.

1. St. George Dinosaur Discovery Site at Johnson Farm, museum tour.
2. Warner Valley Dinosaur Trackways, on BLM open land
3. Kaibab Formation, Fossil Mountain Member, collect Permian brachiopods and other marine fossils in a limestone matrix.

Proposed Dates to choose from: March 18 – 20 or March 25 – 27, 2016

Contact Rudy at: programs@mineralsocal.org if you are interested in joining the trip and if you have a date preference. More details to follow.

Rudy Lopez: Programs and Education Coordinator

I would like to thank Justin Seastrand of the Forest Service for an informative presentation on the National Forest's current Land Management Plan, on Friday, December 12th



Justin Seastrand Environmental Coordinator, presented an overview of the land management planning program of the Angeles National Forest. The focus was on the National Forest's current Land Management Plan and its long term goals for sustainable resource management. Justin explained how this landscape level plan guides individual actions and projects. The discussion expressed the current effort to amend this plan for the San Gabriel Mountains National Monument.



Justin Seastrand Environmental Coordinator
Environmental Coordinator
Forest Service in Angeles National Forest
Photo by Angie Guzman

Guadalupe Island/Alijos Rocks Baja California: Rudy Lopez

I recently went on a 5-day fishing trip to Guadalupe Island. Guadalupe Island is a volcanic Island and has very interesting structure and great fishing

I took a ton of pictures of the Island that I want to share with everyone

I will give a presentation in July on Guadalupe Island and Alijos Rocks. Both are volcanic, with interesting structure and great fishing

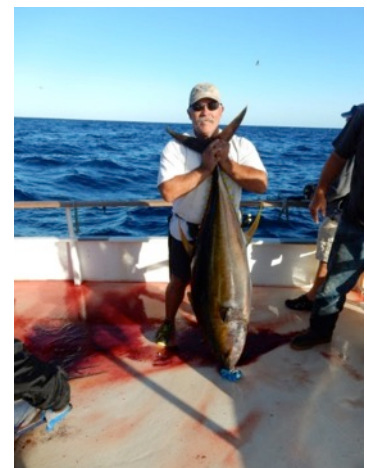


Guadalupe Island



Alijos Rocks

Photos provided by Rudy Lopez



Of course the fishing was great

Here's A Challenge for You: You Could Find & Name A New Carbon Mineral, by Linda Elsnau

All you need to do is participate in the “**Carbon Mineral Challenge**” sponsored by the [Deep Carbon Observatory](#) (DCO). DCO Executive Director Robert Hazen (Carnegie Institution of Washington, USA). Full information is available on the challenge website: <http://mineralchallenge.net> . This project was started in December 2015, and will run until September 2019

What is the challenge? A four-year search for new carbon minerals, open to both professional and amateur mineral collectors to make their mark in mineral history by discovering never-before described minerals

Why is this challenge being done? New research predicts at least 145 of Earth’s carbon-bearing minerals remain undiscovered. The Carbon Mineral Challenge was started to focus attention on these minerals and increase their rate of discovery. Carbon is one of the most chemically diverse elements, and occurs in compounds with almost every element of the periodic table.

Where should I start looking for new carbon minerals? While there is no treasure map for finding the missing carbon minerals, there are some potentially rewarding localities to consider. These include the Poudrette Quarry in Canada, Kukisvumchorr Mountain in Russia, and Clara Mine in Germany. Mineral collectors shouldn’t rule out the possibility of a new carbon mineral hiding out in their own back yard or mineral cabinet.

What to do if you think you have a new carbon mineral: if you are an amateur or professional mineral collector who has never verified a mineral before, please consult our [International Advisory Board](#) to find a partner in your area who can help verify your discovery. Amateur and professional mineral collectors should follow the procedures outlined by the [International Mineralogical Association Commission on New Minerals, Nomenclature and Classification](#). Once the commission has approved the new mineral, the team responsible for its discovery and verification should submit its entry to the [Carbon Mineral Challenge via mineralchallenge.net](#). Interested collectors may contact [Carbon Mineral Challenge International Advisory Board](#) members in their region with questions about mineral analysis and verification.

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 | |

Pseudomorph: plural noun: pseudomorphs

Noun: a crystal consisting of one mineral but having the form of another which it has replaced.

Verb: replace (another substance) to form a pseudomorph

January Featured Mineral: Thénardite

Formula: Na₂SO₄

Crystal System: Orthorhombic

Color: Colorless, very light grey, light brown;
colorless in transmitted light

Hardness: 2½ - 3

Name: Named after Louis Jacques Thénard (1777-1857), Professor of Chemistry, University of Paris (France). Originally named thenardite; renamed thénardite in 2014 (IMA 14-A).



irocks.com photo

Thénardite : Na₂SO₄

Locality: Soda Lake, Carrizo Plain, San Luis Obispo Co., California, USA

Dimensions: 9.6 cm x 6.4 cm x 5.8 cm



irocks.com photo

Thénardite : Na₂SO₄

Locality: Soda Lake, Carrizo Plain, San Luis Obispo Co., California, USA

Dimensions: 4.5 cm x 3.9 cm x 3.3 cm



irocks.com photo

Thénardite : Na₂SO₄,

Mirabilite : Na₂SO₄·10H₂O

Locality: Boron, Kramer District, Kern Co., California, USA

Dimensions: 3.8 x 3.8 x 0.0 cm.

tan Thénardite pseudomorphing mirabilite crystals

Don't Forget!

The 50th Pacific Micromount Conference: January 29 and 30, 2016 at the San Bernardino County Museum, 2024 Orange Tree Lane, Redlands, CA

See Your December, 2015 Bulletin for full information or check out the information on our website <http://mineralsocal.org/>

Join us for a fun and information filled conference

| 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 | | | |

WEST COAST ~ SPRING **GEM & MINERAL SHOW**

MAY 13 - 15, 2016

SANTA ANA, CA

**Holiday Inn - Orange County Airport
2726 S. Grand Ave.**

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

80 Top Quality Dealers

Minerals ★ Fossils ★ Gemstones ★ Jewelry

Beads ★ Decorator Pieces ★ Meteorites

Lapidary ★ Metaphysical

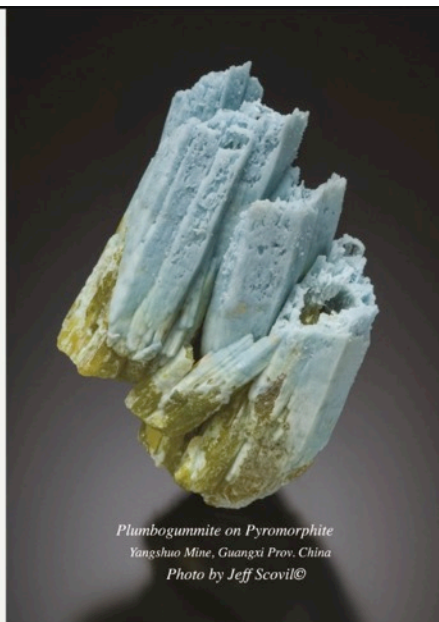
FREE ADMISSION ★ FREE PARKING ★ WHOLESALE ★ RETAIL

Show Hours: Fri. & Sat. 10 - 6 ★ Sun. 10 - 5

LLD Productions, Inc., P.O. Box 665, Bernalillo, NM 87004, Fax: (303) 223-3478, mzexpos@gmail.com

www.mzexpos.com

facebook.com/mzexpos



*Plumbogummite on Pyromorphite
Yangshuo Mine, Guangxi Prov. China
Photo by Jeff Scovil©*

Calendar of Events:

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

JANUARY

January 16 - 17: EXETER, CA

Tule Gem & Mineral Society, Visalia
Exeter Veterans' Memorial Building
324 N. Kaweah Avenue
Hours: Sat 10 - 5; Sun 10 - 4
Website: www.tulegem.com

FEBRUARY

February 12 - 21: INDIO, CA

San Gorgonio Mineral & Gem Society
Riverside County Fair & National Date Festival
82-503 Highway 111
Hours: 10 - 10 daily

MARCH

March 5 - 6: ARCADIA, CA

Monrovia Rockhounds
Los Angeles Arboretum-Ayres Hall
301 Baldwin Avenue
Hours: 9:00 - 4:30 daily
Website: www.Moroks.com

March 5 - 6: VENTURA, CA

Ventura Gem & Mineral Society
Ventura County Fairgrounds
10 West Harbor Blvd.
Hours: Sat 10 - 5; Sun 10 - 4
Website: www.vgms.org

March 12 - 13: SAN MARINO, CA

Pasadena Lapidary Society
San Marino Masonic Center
3130 Huntington Drive
Hours: Sat 10 - 6, Sun 10 - 5
Website: www.pasadenalapidarysociety.org

APRIL

April 2 - 3: TORRANCE, CA

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

April 8 - 10: VISTA, CA

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

2015 MSSC Officers:

| OFFICERS | | |
|----------------------------|-------------------|--|
| President | Ann Meister | president@mineralsocal.org |
| Vice President | George Rossman | vicepresident@mineralsocal.org |
| Secretary | Angie Guzman | secretary@mineralsocal.org |
| Treasurer | Jim Kusely | treasurer@mineralsocal.org |
| CFMS Director | Jo Anna Ritchey | |
| Past President | Geoffrey Caplette | |
| DIRECTORS | | |
| 2015--2016 | Bruce Carter | |
| 22015--2016 | Bob Housley | |
| 2015--2016 | Leslie Ogg | |
| 2016-2017 | Pat Caplette | |
| 2016-2017 | Pat Stevens | |
| COMMITTEE CHAIRS | | |
| Bulletin Editor | Linda Elsna | bulletin@mineralsocal.org |
| Hospitality | Laura Davis | |
| Membership | Cheryl Lopez | membership@mineralsocal.org |
| Micro Mount Conf. Chairman | Al Wilkins | |
| Program and Education | Rudy Lopez | programs@mineralsocal.org |
| Publicity | Linda Elsna | bulletin@mineralsocal.org |
| Webmaster | Leslie Ogg | webmaster@mineralsocal.org |

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

Website: www.mineralsocal.org **The Mineralogical Society of California, Inc.**

Permission to reproduce and distribute original material published herein, in whole or in part, for non-commercial purposes, is hereby granted provided the sense or meaning of the material is not changed, the editor is notified, and the author's notice of copyright is retained. **All other articles used in our bulletins are with the specific permission of the author. Permission to use these documents must be obtained from the author for each use**

DISCLAIMER: The Mineralogical Society of Southern California, Inc. is not responsible, cannot be held responsible or liable for any person's injuries, damages or loss of property at or traveling to or from any general meeting, board meeting, open house, field trip, annual show or any other MSSC event.

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

To:



**With Knowledge Comes
Appreciation**

**Your MSSC
Bulletin Is
Here!**