



San Diego Mineral & Gem Society, Inc.  
A Non-Profit Educational and Scientific Organization

# THE PEGMATITE

## OCTOBER 2018



### SDMG General Meeting

Monday, October 22, 2018

7pm SDMG bldg  
Public Welcome!

### Sally & Jim's summer road trip 2018 – Destination: The Denver Show

Presentation by Jim Parrish

*Read the details on pg 3*



This geode from Mexico has a red- and orange-colored obicular pattern and wide toothy smile of quartz crystals. It's the perfect Halloween jack-o'-lantern for a rockhound. Photo: Jim Parrish.

Official bulletin of the San Diego Mineral and Gem Society, Inc.

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American Federation of Mineralogical Societies  
American Lands Access Association

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**Street Address:** 1770 Village Place  
San Diego, CA 92101-1651

**Mailing Address:** P.O. Box 710783  
(membership apps) Santee, CA 92072  
attn: Angela Cannon

**Phone:** 619-239-8812

**Website:** [www.sdmg.org](http://www.sdmg.org)

**Editor:** Lisbet Thoresen, [editor@sdmg.org](mailto:editor@sdmg.org)

**Layout, Advertising:** [info@sdmg.org](mailto:info@sdmg.org)

**General Information:** [admin@sdmg.org](mailto:admin@sdmg.org)

**Change of Address:** [membership@sdmg.org](mailto:membership@sdmg.org)

**Exchange bulletins:** Send to the Society mailing address

The mission of the San Diego Mineral and Gem Society, Inc., is to disseminate knowledge of mineralogy and earth sciences; to encourage the study of these subjects; to conduct classes in mineralogy and lapidary arts; to conduct field trips for the collection and study of specimens; to encourage interest in mineralogy and lapidary arts among young people; and to procure and maintain a collection related to the earth sciences and lapidary arts.



## PRESIDENT'S MESSAGE

October 2018

by Jim Parrish

[sdmgpresident@sdmg.org](mailto:sdmgpresident@sdmg.org)

**I**T'S OFFICIALLY FALL! Can you believe it? October is still a warm month in Southern California. By Thanksgiving it will be near perfect weather and time to start heading into the back country and desert. Hopefully, you'll have lots of opportunities to go collecting this next season. If you're unable to hike the hills and deserts looking for rocks, you can always go shopping with a silver pick (\$\$) at one of the local shows.

Check out the write-ups in ***The Pegmatite***. This is your guide to upcoming events.

There are so many good shows this month – in Fallbrook, Vista, Trona/Searles Lake, Joshua Tree, El Cajon – and next month there will be the **West Coast Mineral & Gem Show** at a new venue, the Hilton Orange County, in Costa Mesa, just to name a few. Alas, our **Annual Gem Diego Show**, which is traditionally held over the first weekend of November has been cancelled this year, because we lost our venue at Al Bahr Shrine. We're looking for a great new venue in the San Diego area for next year. I welcome any suggestions or leads. In the meantime, I encourage all of you to attend some of the local shows in the months of October and November.

**December Nights**, the annual Christmastime two-day event at Balboa Park will be held on the first full weekend of December, which this year falls on the 7th and 8th. We will have our usual **Open House** featuring a huge selection of reasonably priced items that are mostly donated.

We are always in need of smiling volunteers to staff the booth.

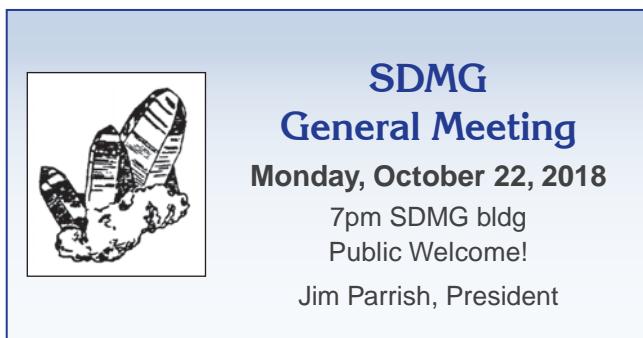


I would like to take a moment to thank **Lisbet Thoresen**, our devoted bulletin/web Editor, for all the work she puts into every issue. It's quite a job just getting everyone to submit their articles in a timely manner!

Thanks to all of you who send in your material on time.

As the new president, I invite any new members and older ones, to help out with organizational side of our Society. It doesn't require a lot of work, if there are enough participants to share the workload. Helping out can be fun and rewarding. We would love to share!

Also, we are in need of a new **Mineral Division** Chairperson. As I'm sure you are aware, my first love is minerals, and I had planned on taking over as **Minerals Division** Chairman. That was before you folks elected me president for two more years. So, there are no **Mineral Division** meetings planned as of this time. Let me know if you would like to help change that! I will be available to assist.



**SDMG**  
**General Meeting**  
**Monday, October 22, 2018**  
7pm SDMG bldg  
Public Welcome!  
Jim Parrish, President

THE THEME OF THE 2018 DENVER SHOW was **Minerals of Mexico**, and I must say, Wow! There really were some incredible displays, along with world class specimens. These were presented by many private collectors and well-known museums like the **Smithsonian** and the **American Museum of Natural History**, just to name a couple. **Cal and Kerith Graeber** displayed their famous Mexico collection.

The program for October will be a travelogue of the September trip taken by **Jim and Sally Parrish** through Utah and Colorado – including the Denver show, with its many venues. So, join us for an evening of fun and travel.

If you have some specimens from Mexico, Colorado, or Utah, bring them to the meeting so we can share the evening. We'll have the usual great door prizes and smiling faces. If for some reason you're unable to bring something, Show up anyhow – you're always welcome! Bring a snack and/or rock to share, along with your friendly faces. Join us for some fun!

oooooooooooooooooooo

The September meeting had a great turnout of approx. 30 people. We had lots of fun and discussion centered around summer's new acquisitions.



*Top.* Eastern Utah overlook.  
*Middle.* Botroyoidal Mimetite from Chihuahua, Mexico.  
*Bottom.* Laguna agate.  
*Left.* Wulfenite crystals. Photos: Jim Parrish.



## JUNIOR DIVISION

Coordinated by  
Dave Smith

THE NEW YEAR HAS BEGUN with a strong showing of returning long-term students and the new summer's additions. As of last September, we have 46 Junior members.

Most of the students have begun new projects with material recently received from various donations. I especially wish to express my thanks to **Mr. Klaus Klemmant** of San Marcos. Due to family reasons, **Mr Klemmant** has closed his lapidary business and liquidated his inventory of various rock rough and equipment to facilitate a move to Tennessee. I personally received several buckets of this rough material on behalf of the Juniors.



The new Junior class with Instructor Elbert McCune.

## Class Closure Schedule 2018

Closure date	Description
Sat, Sept. 1 – Sun, Sept. 9	Labor Day shutdown, one week.
Mon, Sept. 10	Fall classes begin.
Thu, Nov. 22 – Sun, Nov. 25	Thanksgiving shutdown, four days. Reopens Mon, Nov. 26.
Mon, Dec. 17, 2018 – Mon, Jan. 1, 2019	Christmas and New Year's shutdown, two weeks.
Tue, Jan. 2, 2019	Winter Classes begin.

## Parking Lot closures 2018

Spanish Village

**Attention Students and Instructors.**  
Spanish Village will be closing the parking lot in back for special events on the dates listed below. The lot will be closed at 6:00AM Saturday morning and reopened at 6:00PM on Sunday evening. Please note that the lot will be closed at 6:00AM on Friday (not Saturday) on December 7th.

**Closed:**  
**October 6, 7, 13,14**  
**November 10,11**  
**December 7, 8, 9**

**MINI MINERS MONTHLY**  
**A MONTHLY PUBLICATION**  
**FOR YOUNG MINERAL COLLECTORS**

## SEPTEMBER 2018 (vol 10 no 9)

**The entire issue is dedicated to collecting minerals.** Every conceivable aspect of collecting is covered in this 39-page edition of **Mini Miners Monthly**. It includes tips on how to build a collection, what to collect, collecting minerals with a history, safe handling and storage of minerals, essential reference books for your personal library, and lots more!

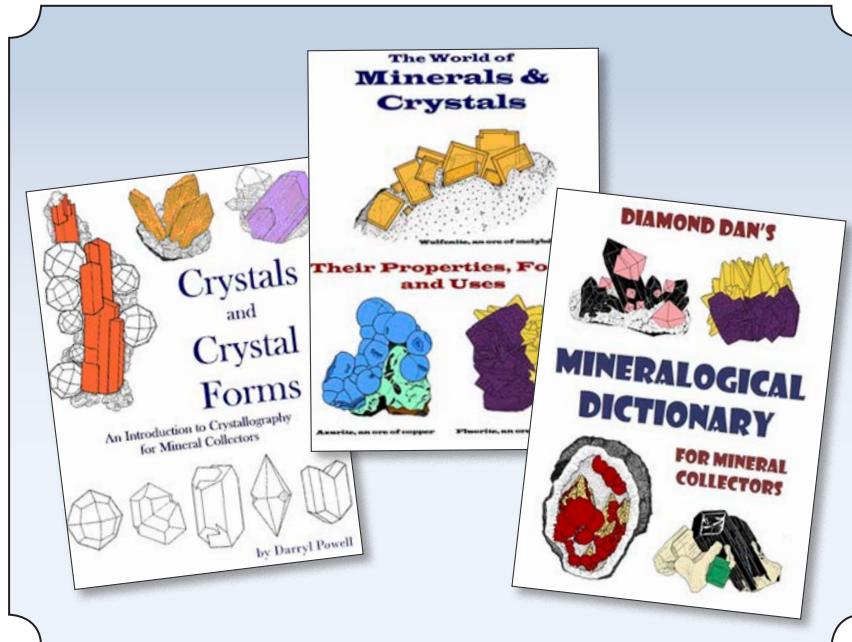
Excerpts from the September Mini Miners  
Monthly  
is available for download  
from the SDMG website  
courtesy of Diamond Dan Publications:

[www.sdmg.org/mmm/Mini\\_Miners\\_Monthly\\_2018\\_v10n9\\_pp1\\_14\\_33-34.pdf](http://www.sdmg.org/mmm/Mini_Miners_Monthly_2018_v10n9_pp1_14_33-34.pdf)

or <https://goo.gl/qsRpXC> (short URL)

Visit the publisher's website at:

[www.diamonddanpublications.net](http://www.diamonddanpublications.net)



Visit  
[DiamondDanPublications.net](http://DiamondDanPublications.net)  
for its wide selection  
of mineral-themed activity books.  
They're ideal  
for curious young readers.

## It's a wrap – Beginning Cloisonné Workshop

by Sheryl Haupt

**I**N THIS FAST-PACED ONE-DAY WORKSHOP, there were seven attendees, most of whom had never done any enameling before. We started with an overview of the entire process. Students prepared their fine silver blanks by “flashing” them with a torch over a trinket kiln. This is a unique way of bringing a high shine to the surface of the metal. Then, we started the enameling process, which consisted of applying a thin layer of flux (clear enamel) on the top surface of the metal. Next, three heavier layers of counter enamel were applied to the back, followed by the cloisonné wire work. The real fun began with layering in and firing thin layers of transparent colored enamels.

We finished the enamel pieces by grinding the top of the enamel to smooth it out and expose the cloisonné wires using a glass brush to clean the surface.



Examples of student work produced during the one-day workshop.

The last and most exciting step was flash firing the piece to create a beautiful pendant. Everyone agreed they would like to continue learning about this process in a subsequent beginner/intermediate workshop.



Instructor Sheryl Haupt demonstrated every step along the way.



Students have time to complete each step of the cloisonné/enameling process.

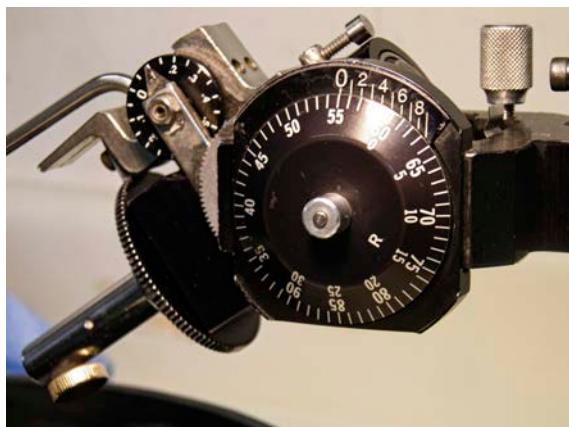
## Summer Faceting Maintenance

by Bob Hancock

JIROD SCHNEIDER and a few volunteers were very active during the summer months, spending time servicing the society's Ultra Tec faceting machines – cleaning, oiling, aligning, and checking each for calibration.

**Jerod** is an **SDMG Faceting Instructor** who volunteers his time by working to ensure that students and instructors have the best quality of highly accurate machines with which to work. He and his crew have put forth much effort to get all of the machines in shape for the fall school semester.

**Jerod Schneider** and **Dave Rose**, both engineers by profession and facetors in the **SDMG Society**,



The Ultra Tec Faceting machine showing the exposed 'Protractor' – the round disk with numbers displaying angle settings.



The Protractor Protective Cover, manufactured by Rich Yarborough, from the design by Dave Rose.

made major contributions to our club by helping to keep the equipment in good working order.

**Rich Yarborough**, working from a design by **Dave Rose**, spent many hours at the city library, printing out protractor protective covers for our 10 Ultra Tech machines. Using a 3-D printer, **Rich** was able to make one cover per session. Each cover required at least two and one half hours to make.

**Dave Rose**, with the **SDMG Society**, is the inventor of the newly manufactured protractor protective covers, which provide much needed safety for the machines when placed in the storage containers. Because of the constant use of the faceting machines and the turnover between classes, the machine dials get pretty worn and damaged in the set-up and storage after each class. A decision was made to help alleviate the problem. **Dave** used Computer Aided Design (CAD) modeling software to enable protective covers to be printed out on a 3-D printer. Making a tight, "Tailormade fitting," the covers are manufactured to close tolerance specifications and exacting engineering standards. It is expected that **Dave's** protective covers will help prolong the life of the **SDMG Society's** delicate and expensive faceting machines.

The **SDMG Society** is most appreciative of our many talented individuals who devote a portion of their time to the common good of providing services, maintenance and repairs to the equipment for the benefit of all.

Well done and Thank You, Volunteers.

**Want to print your own protractor cover?**

**Download the file (zipped)**

*(works with newer machines only)*



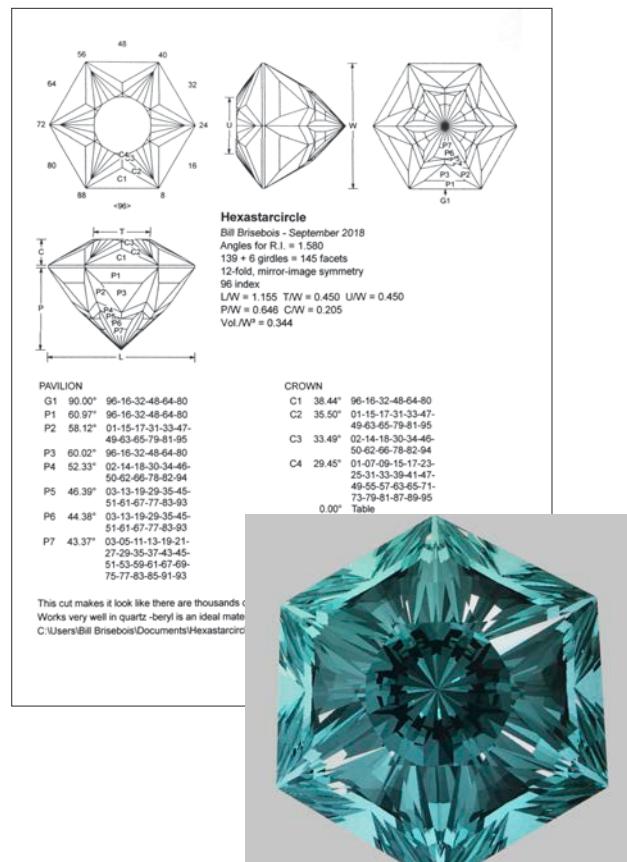
Ultra Tec Faceting machine with the Protractor Protective cover installed.

## Faceting Cut of the Month: Hexastarcircle

SDMG Faceting Instructor **Bill Brisebois** not only is a prize winning faceter, but also is a designer of his own facet diagrams. **Bill** likes to share his creations with the rest of the faceting community, and we all gain much from his knowledge and abilities. We have his permission to publish his diagrams. Download one of his diagram from the SDMG website at:

<https://goo.gl/9ubmjf> (short URL)

*Shown at right.* This cut makes it look like there are thousands of lines in it. Very interesting hexagon cut with mix symmetry. Works very well in quartz. Beryl is an ideal material for this cut.



### GEMOLOGICAL SOCIETY of SAN DIEGO



GSSD General Meeting  
Monday, October 1, 2018  
7:00pm SDMG Building

**J**ADE PRESENTATION by **Bill Cordella**. Bring in your Jade to show, and also bring in a snack to share. Sale of various things related to Gem Identification.

For the November 5th meeting, **Steve Dente** will show how an Electron Spectrometer works. (Other topic to be announced.)

You can find more information on **GSSD** and join the **GSSD** mailing list at:

<http://www.gssd.rocks>

### SAN DIEGO COUNTY FAIR GEMS, MINERALS & JEWELRY DEPT.

by Anne Schafer, Coordinator

#### ANNUAL EXHIBITORS' MEETING COMING UP!

**Date:** Saturday, Oct. 13, 2018  
**Time:** 10:00 am to 1:00 pm  
**Place:** Board Room, on the Fairgrounds

Final decisions about Mineral of the Year, Fossil of the Year and Fair Theme Jewelry will be made at the meeting. Come be heard!

**Need directions? Got questions? Contact:**

**Anne Schafer**, Fair Coordinator  
858-586-1637 or [Agate.Annie2@gmail.com](mailto:Agate.Annie2@gmail.com)

**It's going to be a great Fair again in 2019!**

## This 'n' That...

### General Announcements

#### SDMG October Board Meeting

Monday, September 15, 2018

7pm, SDMG bldg.

Classes are open to Members only

Send in your membership renewal form today.

## SDMG Membership...

### New Applications & Renewals for 2018–19 Due NOW

There are now two ways to apply for or renew your membership –

1.) Send a check with your membership form to the membership secretary. The renewal form can be found on the **SDMG** website at:

[www.sdmg.org/sdmg-public/pdf/sdmg-membership-app-and-renewal.pdf](http://www.sdmg.org/sdmg-public/pdf/sdmg-membership-app-and-renewal.pdf)

OR

2.) Sign up online using major credit cards via PayPal. Visit the SDMG website for details at:

[www.sdmg.org/sdmg-membership/](http://www.sdmg.org/sdmg-membership/)

Pay with mailed check: \$30 – first Adult Member

OR – Pay using PayPal: \$32 – first Adult Member

\$10 – Associate Adult Member at same household

\$10 – Junior Member

\$10 – printed/mailed copy of *The Pegmatite* bulletin

**Subscribe yourself to the eNewsletter at:**

<https://goo.gl/KZqPsc>

published from September thru June at the same time as *The Pegmatite* bulletin (PDF online version)

**Members, you must subscribe yourself, we cannot do it for you!**

## IN MEMORIAM

JACK RHODES

Jack Rhodes has passed away. He was a member of the Board of the **Reno Gem & Mineral Society**, and he was the Museum Chairman of **CFMS**. Condolences to wife **Jennifer** and family.

## SDMG-GSSD Library

SDMG Bldg.

Donna Beers

### Hours:

Wednesdays 9am to 2pm

First & Third Monday of the month 6–7pm

Tuesdays by appt only

*Reference use only, no lending.*

**Access the catalog online at:**

<https://cloud.collectorz.com/sdmgmerklib/books>

### Who may use the Library?

Membership is not required to view the catalog, but only **SDMG or GSSD** members may come use the reference library.

### We Need Volunteer Assistant Librarians.

Members willing to volunteer in the Library will enable us to extend the hours of access.

**If you can help out, contact Donna:**

[librarian@sdmg.org](mailto:librarian@sdmg.org)

## Centuries of Opulence: Jewels of India

An Exhibition at the GIA Museum  
Carlsbad, CA  
closes October 12, 2018

**PARDON THE PUN**, but a gem of an exhibition will finally draw to a close after one year on October 12th, 2018. The 50 selected luxury objects and jewelry are from a private collection never publicly displayed previously, most produced in India's Mughal Empire (1526–1857). They feature intricate goldwork set with precious gems spectacular for their sheer number and quality.

This exhibition is a must-see for anyone who is intrigued by historical jewelry or inspired by the artistic skills of master gem cutters and jewelry artists of any era. [Read more about the exhibition in \*The Pegmatite\*, December 2017 bulletin >>](#)

### Learn more about this exhibit.

<https://www.gia.edu/jewels-of-india>.

<https://www.gia.edu/gia-museum-exhibit-centuries-opulence-jewels-india>



Mughal Horn Pendant. This gold pendant features a 125 carat Colombian emerald engraved in Arabic with salutations of peace. Set with diamonds, Burmese rubies, emerald beads and dangling pearls, it was made for a ruler of the Kingdom of Mysore. Photo: Robert Weldon/GIA. Courtesy of a Private Collection.

### Reservations required.

Call ahead at least 24 hours, no walk-ins.  
+1 800-421-7250, ext. 4116

### Address.

GIA World Headquarters  
and The Robert Mouawad Campus  
5345 Armada Drive, Carlsbad, CA 92008

### ~ SAVE THE DATE ~

**BLM Field Tour & DAC Meeting**  
December 14–15, 2018  
Ridgecrest, CA

The **Bureau of Land Management (BLM)** has submitted a plan to the **Department of Interior** for a 2018 meeting of the **Desert District Advisory Council (DAC)**. The 10-to 15-member council represents stakeholder interests in public land management. Council members communicate stakeholders' concerns and makes recommendations to the agency on topics ranging from ranching and grazing to

recreational uses and conservation values.

The **DAC** has not been convened for a public meeting since March 2018, when a special mid-week meeting was hastily organized to address a possible plan-level review of the largest land use plan amendment in California state history, the **Desert Renewable Energy Conservation Plan (DRECP)**.

If the current meeting plan is approved, a Friday Field Tour and Saturday business meeting of the Council will be held in Ridgecrest. By the December date, the **DAC** will not have met for a regular public meeting in 22 months, so the meeting may be expected to run long if the public is provided adequate opportunity to comment on an extensive backlog of agenda items scheduled for discussion.

**Public Comment Period Open NOW  
for Southern Utah  
BLM Management Plans**  
**Comment Period Deadlines:  
November 15 and 30, 2018**

*Would you like to be able to collect rocks, minerals, petrified wood and common invertebrate fossils on some of the lands that were put off limits to hobby collecting in Southern Utah?*

*Now is your chance to let the BLM know. The agency is considering restoring hobby collecting in some areas and wants your input.*

**GSENM & Kanab-Escalante Planning Area**

A November 30th deadline has been set for the public to submit comments on the **BLM**'s proposed alternatives for the future management of the lands.

Rockhounds are encouraged to support alternative 'D' regarding the Paleontological Resources provisions. (It is not necessary to support alternative D in its entirety or overall, but the Paleontological provision is important for rockhounds).

**BENM &**

**lands excluded by the monument rescission**

To date, rockhounding has not been banned in lands excluded from the **Bears Ears** monument. Currently, a new management plan is not being proposed for the excluded area. For lands remaining inside the **BENM**, **BLM** has opened a public comment period on the draft alternative management plans now under consideration, with the deadline set for November 15, 2018.

Only the proposed alternative 'A' – the "No Change" alternative – would allow rockhounding in the monument. Rockhounds may want to comment on the Paleontological Resources provisions of the **BENM** proposals.

**GSENM &  
Kanab-Escalante Planning Area**  
**Comment period now open**  
**Deadline: Nov 30, 2018**

**Submit comments via:**

- **Mail:** 669 S Hwy 89  
Kanab, UT 84741  
Attn: Matt Betenson
- **ePlanning:** <https://goo.gl/EHvhbc>

**BENM**

**Comment period now open**  
**Deadline: Nov 15, 2018**

**Submit comments via:**

- **Mail:** BLM, Canyon Country District Office  
82 East Dogwood  
Moab, Utah 84532  
Attn: Lance Porter
- **eMail:** [blm\\_ut\\_monticello\\_monuments@blm.gov](mailto:blm_ut_monticello_monuments@blm.gov)

*In your comment for either the GSENM or BENM, be sure to include a reference to a specific page or section of the Draft EIS/Draft RMP.*

**Can you help us prepare a better letter  
with detailed info on collecting sites?**

**Please help us help rockhounds.**

**Share your info, sign a joint letter.**

**Join SDMG's mailing list at:**

<https://goo.gl/KZqPsc>

*select the "Utah public lands" list*

**OR email: [ajhoekstra@yahoo.com](mailto:ajhoekstra@yahoo.com)**

*Be sure to provide:*

*first and last name, city, state*

*if you're a member or officer of a club, list the club,  
city and your role (title)*

**Desert Quartzite Solar Project**

**DOI-BLM-CA-D060-2017-0002-EIS**

**Comment period closes Nov 8, 2018**

A 450 megawatt photovoltaic solar energy facility on BLM-administered public land is proposed for an area covering approximately 3,800 acres and located about 8 miles southwest of Blythe in Riverside County.

**For more info visit the BLM website at:**

<https://goo.gl/xMxdLr> (short url)



## **Hi-Desert Nature Museum Preserving Habitat for Rockhounds in the Mojave Desert**

In Review

**I**N THE WANING DAYS of summer about 55 attendees gathered at midday at the **Hi-Desert Nature Museum** in the town of Yucca Valley to hear a presentation about Rockhounding in the Mojave Desert. **SDMG's** public lands representative **Lisbet Thoresen** gave an overview of some of the desert's most iconic geological features, including Pisgah and Amboy Craters, and some favorite hobby collecting areas. She brought a few examples of rough and cut agates and jaspers for people to handle.

For many members of the audience, the talk was an intriguing introduction to a new and different recreational activity where beautiful hidden treasures could be found right in their own backyard. The variety and (sometimes) strange beauty of mineral specimens that can be found in the desert was a revelation.

Most attendees were well-aware of and concerned about the myriad projects aimed at industrializing the desert, but the negative impact on recreational activities was a curiously unfamiliar issue to a lot of folks. It was the first time for many of them to hear any information about why rockhounds are an endangered species in the desert and why it should be concerning to everyone. It was a message that this audience appreciated.

*Pictured above: A full house at the Hi-Desert Nature Museum in the town of Yucca Valley. Photo: R. Goodwin.*

If you've never been to the **Hi-Desert Nature Museum**, it's worth a visit. The exhibits are quite nice and include some fine mineral specimens from Southern California localities in *our* backyard – the Pala and Mesa Grande Mining Districts of North San Diego County. Thanks to the museum professionals – **Vanessa Cantu** and **Charles Rossow** – who did much of the preparation for the event and provided a warm welcome to all the participants. Thanks especially to **Stefanie Ritter**, who invited a rockhound advocate to come and talk rocks.



After the presentation, several people asked about where to find more information about hobby collecting and its history in the Mojave Desert. A downloadable, print-friendly PDF is available on the **SDMG** website at:

[www.sdmg.org/pdf/public-lands/thoresen\\_rockhound\\_resources\\_201810.pdf](http://www.sdmg.org/pdf/public-lands/thoresen_rockhound_resources_201810.pdf)

<b>Venue:</b>	Hi-Desert Museum, Yucca Valley
<b>Location:</b>	Yucca Valley Community Center Complex just off Highway 62, on Dumosa Avenue between Sage and Highway 247 (Old Woman Springs Road).
<b>Admission:</b>	\$5.00. Free for members.
<b>Website:</b>	<a href="http://hidesertnaturemuseum.org">hidesertnaturemuseum.org</a>

## The Mojave Desert, A Highly Mineralized Region of California

by Stephen P. Mulqueen\*

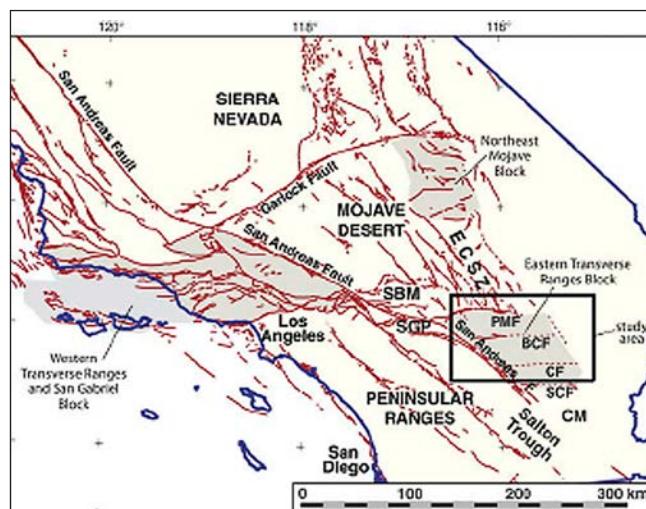
THE MOJAVE DESERT is a vast region containing a wealth of mineral deposits including gemstones, beautiful rocks, metallic ores and industrial minerals. The Mojave also contains a variety of rock units, unusual geology, high mountain ranges and complex tectonic features. Geology instructors throughout the world have recognized the Mojave Desert as one of the best field laboratories for the study of the geological sciences. Rockhounds, mineral enthusiasts and prospectors recognize the Mojave as a collector's paradise due to the variety of rocks, minerals, crystals, fossils and metallic ore deposits. Some collecting sites are concentrated in close proximity to each other.

The Mojave Desert is a special place to visit. For those who frequently travel on Interstate 15 between Victorville and Las Vegas, the Mojave Desert appears to be a giant wasteland. Those who have traveled the back roads of this huge desert region know that it also features beautiful scenery, unusual plant life, a variety of wild animals and a human history that spans several thousand years.

Any travel in the Mojave Desert will reveal thousands of mining features and the remains of old settlements that are common in the region's mountains and valleys. These mine features are indicators of the rich ore deposits scattered throughout the region. If these mines and historic communities could talk, they would reveal a history of the pioneers that chose to make this harsh area a way of life.

### Why is the Mojave Desert so rich in rocks, minerals and ore deposits?

**Plate Tectonics, Faults and Fractured Rocks** – The Mojave Desert is located near the western edge of the North American continent, near the convergent boundary between two major tectonic plates. The Pacific Plate is slowly migrating northeasterly in a collision course with the North American Continent. The San Andreas Fault is a transform fault that absorbs and transmits a major portion of the right-lateral movement created by this active convergent plate boundary. The movement of the Garlock Fault, the second most significant fault in California, is related to the slow advance of the San Andreas Fault and is thought to be also related to active spreading-centers in the Sea of Cortez of Mexico. The Garlock Fault exhibits left-lateral movement along a trend that parallels the Tehachapi Mountains and many other east-west trending mountain ranges. The forces that form faults, fractured rock and cause mountains to rise, features that are common in the Mojave Desert, are related to plate tectonics.



Source: V.E. Langenheim & R.E. Powell. Basin geometry and cumulative offsets in the Eastern Transverse Ranges, Southern California: Implications for transrotational deformation along the San Andreas Fault system. *Geosphere* 5.1 2009: 1–22.

**Stephen P. Mulqueen** is a retired geologist and rockhound enthusiast who has researched and written about the Mojave Desert for many years. He graduated from Cal Poly Pomona in 1978. He is an active member and past president of the Ventura Gem & Mineral Society. He currently resides in St. George, Utah.

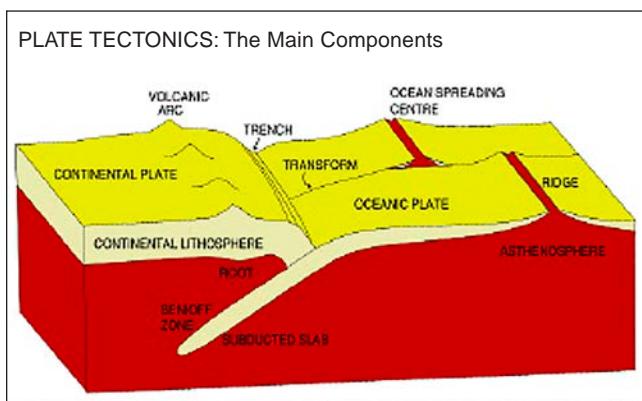


Amboy Crater is an extinct cinder cone located just off of historic Route 66 between Barstow and Needles - the area was bypassed by Interstate 40 in the early 1970s. The inside of the 250' high crater contains two lava dams behind which has formed small lava lakes. These appear flat, covered with light colored clay, which create the impression of miniature "dry lakes." There is a breach on the west side of the crater where basaltic lava poured out over a vast area. Beyond the crater lies 24 square miles of lava flow containing such features as lava lakes, collapsed lava tubes and sinks, spatter cones and massive flows of basalt. Photo: Bob Wick, BLM.

**Volcanism** – From any remote site in the Mojave Desert, the trained eye can observe either dormant volcanoes or volcanic rock units. Volcanic rock-types are prevalent in the Mojave. The forces that created conditions that caused volcanic eruptions in this region are all related to plate tectonics. As the Pacific Plate is subducted beneath the North American Plate, it forms a zone of melting known as the "Benioff Zone." This zone of melting, located at a depth of over 400 miles (over 650 km deep) formed magma chambers that cause the old basalt rocks of the Pacific Plate to re-melt and to rise to the surface as volcanic eruptions. Most basalt found at the surface in the Mojave is recycled rock from the Pacific Plate.

Some volcanic eruptions may be silicic in nature, composed of rhyolites, volcanic ash or volcanic glass. Again, the heat that generated these types of eruptions is related to plate tectonics, especially to the subduction of the Pacific Plate. Most of the beautiful silicate minerals that are common in the Mojave Desert such as agate, jaspagite, jasper, chalcedony, opal and geodes are related to volcanic eruptions. Rocks such as onyx and travertine are related to the hot water emissions associated with the late-stage of volcanic eruptive events.

**Additional References:** Research key words and titles on the Internet under the headings of: Plate tectonics, Pacific Plate, North American Plate, San Andreas Fault, Garlock Fault, the Benioff Zone and subduction.



Source: <https://www.tes.com/lessons/>

This article is reproduced here by permission of the author and courtesy of the Ventura Gem & Mineral Society (VGMS); it is one in a series of articles that originally appeared in *Rockbound Ramblings*, the official bulletin of the VGMS, Vol. 64, No. 9 September 2018: 16–17.

Cite this article: S.P. Mulqueen. The Mojave Desert, A Highly Mineralized Region of California. The Pegmatite, bulletin of the San Diego Mineral & Gem Society, Inc. October 2018: 13–14.



Please be courteous and call the field trip leader to ask if you may participate in the field trip. Be sure to call again if you decide to cancel, so folks aren't waiting around for you. All CFMS affiliate clubs will ask you to sign a waiver, and you must agree to abide by the AFMS Code of Ethics and listen to directions of the field trip leaders.

**Oct 6–7, 2018****Mining District, Hawthorne & Mina, NV****Sponsor:** CFMS / Roseville Rock Rollers Gem & Mineral Society**Sign-up deadline:** Wednesday, October 3rd.**Guests allowed.****Contact:** CFMS Field Trips North Chairman, Jim Barton, 916-847-7321, [geologistl@surewest.net](mailto:geologistl@surewest.net)**Materials:** Microcline feldspar, copper minerals, black quartz crystals, epidote, epidote in quartz and calcite, cassiterite, grandradite and grossular garnet; possibly fossils and petrified wood. The goal of this trip is to locate and collect mineral specimens, not collection of Lapidary materials.**Details:** [www.cfmsinc.org/fieldtrips/y2018/FT1018\\_CFMS\\_FTNorth\\_HawthorneNV.pdf](http://www.cfmsinc.org/fieldtrips/y2018/FT1018_CFMS_FTNorth_HawthorneNV.pdf)**Oct 13–14, 2018****SLGMS 77th Gem-O-Rama 2018, Trona, CA**

Field trips with annual show sponsored by Searles Lake Gem &amp; Mineral Society

**Materials:** Pink Halite, Hanksite and other salt minerals.**More info:** <http://goo.gl/sVGrBJ> (short url)**~ Fee field trips, drive your own car ~****Registration required, unless otherwise specified below**

Register at show, cash or check only: 7:30–9:00am and 1:30–2:30pm

**Searles Dry Lake**

2.5-hour trips on Saturday, 4.5-hour trip on Sunday - no reservations necessary.

**Mud Trip – \$15 per CAR**

Saturday Only, departs ONLY at 9am – Cluster and barrel hanksite, trona, borax

**Blow Hole – \$15 per CAR**

Saturday Only, departs ONLY at 2:30pm – Hanksite, halite, borax, sulfohalite - dry surface

**Pink Halite – \$20 per CAR**

Sunday Only, departs ONLY at 9am – In brine, beneath hard salt

**Pinnacles National Natural Landmark – FREE**

Self-guided, information at show

**Searles Valley Minerals Plants – FREE Tour by Bus**

Saturday only: 10:40am, 11:25am, 12:10pm, 12:55pm and 1:40 pm

**Oct 19–21, 2018****Clear Creek, CA, 2-days/3-nights camping trip****Sponsor:** Conejo Gem & Mineral Society**Sign-up:** [www.whoscoming.com/vgms](http://www.whoscoming.com/vgms) (please remove your name if you signed up but decide not to participate after all.)**Contact/field trip leader:** Chuck Borchard, [chuck.cgmctrips@gmail.com](mailto:chuck.cgmctrips@gmail.com)**Materials:** Serpentine, Agate, Jadeite, Plasma Agate.

## ON THE GO ... TO A SHOW



### OCTOBER .....

#### 3-7 JOSHUA TREE, CA – 43rd Annual Gem & Mineral Show

**Sponsor:** Hi-Desert Rockhounds/Morongo Basin Sportsman's Club of Joshua Tree

**Where:** Sportsman's Club  
6225 Sunburst Street, Joshua Tree, CA 92252

**Hours:** opens daily at 9:00am

**Admission and parking:** Free.

**Contact:** 760-366-2915

or [jtsportsmans@ymail.com](mailto:jtsportsmans@ymail.com)

**Website:** [jtsportsmansclub.com/gem.html](http://jtsportsmansclub.com/gem.html)

or flyer at:

[www.jtsportsmansclub.com>ShowFlyerFall2018.pdf](http://www.jtsportsmansclub.com>ShowFlyerFall2018.pdf)  
Over 60 Dealers featuring rocks, minerals, fossils, gemstones, jewelry, beads, lapidary supplies and items, mining equipment, gemstone rough, findings, geodes, slabs, meteorites, crystals, carvings, jewelry boxes, New Age items, gifts, collectibles, books, tools and more! Free rock and mineral identification, free rocks for Kids, learn techniques of gold panning on Saturday.

#### 6 BORON, CA – Mojave Mineralogical Society Annual Show

**Where:** Boron Recreation Park  
26998 John St., Boron, CA 93516

**Hours:** Sat 9:00am – 5:00pm, Sun 9:00am – 4:00pm

**Admission:** Free

**Contact:** Bruce Davies 760-338-8829  
or [daviesb@yahoo.com](mailto:daviesb@yahoo.com)

**Web:** [www.facebook.com/groups/MojaveMineralogicalSociety](http://www.facebook.com/groups/MojaveMineralogicalSociety)

#### 13-14 TRONA, CA – Searles Lake Gem & Mineral Society 77th Gem-O-Rama 2018

**Where:** SLG&MS Lapidary and Show Bldg  
13337 Main St. (corner of Main and Trona Rd.)

**Hours:** Sat 7:30am – 5:00pm, Sun 7:30am – 4:00pm

**Admission and Parking:** Free.

**Contact:** Jim or Bonnie Fairchild 760-372-5356  
or [slgms@iwvisp.com](mailto:slgms@iwvisp.com)

## Vista Gem & Mineral Society 2018 Show

**October 6 – 7, 2018**

Antique Gas & Steam Engine Museum

2040 N. Santa Fe Ave.

Vista, CA 92083

Parking: \$5.00

Admission: Free

Friday & Saturday 10AM to 5PM

Sunday 10AM to 4PM

### ***Fabulous vendors in a fabulous rustic setting***

If you've never been to a VGMS show at the Antique Gas & Steam Engine Museum, you've gotta see it – it's a hidden treasure!



**Web:** <http://goo.gl/sVGrBJ> (short url)

Purchase Searles Lake pink halite, 20 dealers, 50 exhibits, geode cutting and sales, demonstrations, games, gem dig, grand prize drawing, hourly door prizes, snacks and drinks, pancake breakfast both days, prizes, Old Guest House Museum, Trona's History House and Field Trips both days.

**25th Annual  
Big Sur Jade Festival  
October 5–7, 2018  
The biggest show of its kind  
in North America**

**Vendor Art**

FREE Lectures *and* FREE demonstrations

Fine Food *and* 3 days of live entertainment

The Big Sur Jade Festival features jade and other lapidary arts by artists from all across the USA, Canada, and New Zealand. It is one of the largest lapidary shows of its type in the world.

**Location:** Pacific Valley School  
69325 Highway 1  
Big Sur, CA 93920-9612  
(across from Sanddollar Beach)

**Hours:** Fri noon – 6:00pm  
Sat 10:00am – 6:00pm  
Sun 10:00am – 5:00pm

**Admission &  
Parking:** Free.

**Vendor Info:** [vendors@bigsurjadefestival.com](mailto:vendors@bigsurjadefestival.com)

**Website:** [www.bigsurjadefest.com](http://www.bigsurjadefest.com)



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**FALLBROOK, CA – Fall Festival of Gems**

**Sponsor:** Fallbrook Gem & Mineral Society

**Where:** Fallbrook Gem & Mineral Facility

123 West Alvarado St., Fallbrook, CA 92028

**Hours:** 9:00am – 4:00pm

**Admission and Parking:** Free.

**Contact:** Janice Bricker, 760-728-1130

or [fgms@sbcglobal.net](mailto:fgms@sbcglobal.net)

**Web:** [www.facebook.com/FallbrookGems/](http://www.facebook.com/FallbrookGems/)



**FALL FESTIVAL OF GEMS**

Free Admission - Free Parking. A great place for the entire family!

Mineral Panning, Silent Auctions, Gemstone ID, Wheel of Fortune, Food

Vendors Selling Fabulous Gems, Minerals & Fossils!

Thousands of \$\$\$ in Raffle Prizes!

**FALLBROOK GEM & MINERAL SOCIETY**

SUNDAY, OCTOBER 14TH. 9AM - 4PM

123 W. ALVARADO STREET, FALLBROOK CA

**JOHN E. GARSOW**  
**gems & minerals**

**October 14**

**Fallbrook Gem & Mineral Society's  
2017 Fall Festival**

123 West Alvarado St.  
Fallbrook, CA 92028

**October 20 & 21**

**El Dorado County Mineral & Gem Society's  
28th Annual Gem Show**

El Dorado County Fairgrounds  
100 Placerville Drive, Placerville CA 95667

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Jewelry • Mineral Specimens

[www.johngarsow.com](http://www.johngarsow.com)

**20-21 SANTA ROSA, CA – SRMGS 42nd Annual Mineral & Gem Show**

**Sponsor:** Santa Rosa Mineral & Gem Society

**Where:** The Veterans Memorial

1351 Maple Ave, Santa Rosa, CA 95404

**Hours:** Sat 10am – 6pm, Sun 10am – 5pm

**Admission:** \$6.00, Children under 12 Free.

**Vendor Contact:** Heidi, [SantaRosaRockShow@hotmail.com](mailto:SantaRosaRockShow@hotmail.com)

**Web:** [www.srmgs.org](http://www.srmgs.org)

Come join see Sonoma County's favorite Gem and Mineral Show at the Santa Rosa Veterans Memorial Hall. This show is for rockhounds, collectors, artists and the curious! With over 35 hand-selected vendors, display cases, demonstrations, a crazy raffle, silent auctions and even something for the kids to enjoy!

**20-21 WHITTIER, CA – WGMS 69th Annual Treasures of Rockhounding Show**

**Sponsor:** Whittier Gem & Mineral Society

**Where:** Whittier Community Center

7630 Washington Ave, Whittier, CA 90602

**Hours:** 10am – 5pm daily

**Admission and Parking:** Free.

**Contact:** Frank Winn, 626-239-5457 or [RkhndFW@gmail.com](mailto:RkhndFW@gmail.com)

**Web:** [www.wgmsca.com](http://www.wgmsca.com)

Displays of collections, vendors, lapidary and jewelry demos, educational children's activities, snack bar, silent auction, raffle with hourly drawings and more.

**27-28 LANCASTER, CA**

**Sponsor:** Palmdale Gem & Mineral Club

**Where:** Palmdale Elks Lodge

2705 E Avenue Q, Palmdale, CA 93550

**Hours:** 10am – 5pm daily

**Contact:** Don McClung, (661) 860-4910 or [bigd\\_mcc@aol.com](mailto:bigd_mcc@aol.com)

**Website:** [palmdalegemandmineral.org/rock-gem-roundup](http://palmdalegemandmineral.org/rock-gem-roundup)

**NOVEMBER .....**

**3-4 RIDGECREST, CA – Indian Wells Gem & Mineral Show**

**Sponsor:** Indian Wells Gem & Mineral Society

**Venue:** Desert Empire Fairgrounds

520 S. Richmond Rd., Ridgecrest, CA 93555

**Hours:** 9:00am – 5:00pm daily



**WHITTIER GEM & MINERAL SOCIETY'S 69th ANNUAL TREASURES OF ROCKHOUNDING**

**ROCK STAR!**



**GEM, MINERAL, & JEWELRY SHOW**

**October 20 & 21, 2018, 10AM – 5PM**

**Whittier Community Center  
7630 Washington Ave., Whittier, CA**

**FREE ADMISSION & PARKING**

**SDMG's  
Gem Diego Show  
cancelled in 2018**

**New Venue TBD for 2019**

We lost Al Bahr Shrine as our show venue, so we're looking for a new home in the San Diego area.



If you have a lead on a new venue for the first weekend in November (Fri, Sat, Sun, 1-3) 2019, please contact SDMG President Jim Parrish at [sdmgpresident@sdmg.org](mailto:sdmgpresident@sdmg.org)

**Admission and Parking:** Free.  
**Contact:** John DeRosa, 760-375-7905  
[jfrocks@dsxextreme.com](mailto:jfrocks@dsxextreme.com)  
 Display cases, door prizes, silent auctions, geode cutting.

**3-4 SANTA ANA, CA – 51st Annual Opal, Gem & Jewelry Show**  
**Sponsor:** American Opal Society  
**Venue:** Business Expo Center  
 1960 S. Anaheim Way, Anaheim, CA 92805  
**Hours:** Sat 10am – 6pm, Sun 10:00 – 5pm  
**Admission:** Adults \$5.00, Kids under 15 Free.  
**Parking:** Free.  
**Contact:** [angeldragonoflight@yahoo.com](mailto:angeldragonoflight@yahoo.com) or [editor@opalsociety.org](mailto:editor@opalsociety.org)  
**Website:** [www.opalsociety.org](http://www.opalsociety.org)  
 Opal, Gem and Jewelry Dealers from the USA and Australia; raffle with many prizes of gemstones and jewelry; seminars on gemstone and jewelry topics; demonstrations on jewelry making, gemstone cutting.

**9-11 Costa Mesa, CA – West Coast Gem & Mineral Show – Fall**  
**Sponsor:** LLD Productions Inc.  
**Venue:** Hilton Orange County / Costa Mesa  
 3050 Bristol St., Costa Mesa, CA 92626  
**Hours:** Fri and Sat 10:00am – 6:00pm  
 Sun 10:00am – 5:00pm  
**Admission:** Free. Public welcome.  
**Customer Parking:** \$5.00 per day  
**Website:** [www.mineralshowsLLD.com](http://www.mineralshowsLLD.com)  
 75 vendors dealers, wholesale and retail featuring gems, minerals, fossils, jewelry, beads, meteorites, decorator items, lapidary, and more. (Resale certificate needed or admission to wholesale.)

**17-18 LAKESIDE, CA – Rock & Gem Round-up**  
**Sponsor:** El Cajon Valley Gem & Mineral Society  
**Venue:** Lakeside Rodeo Grounds  
 12584 Mapleview St., Lakeside, CA 92040  
**Hours:** Sat 10:00am – 5:00pm  
 Sun 10:00am – 4:00pm  
**Admission & Parking:** Free  
**Contact:** Mary Ness, 619-449-0759  
 or [ecvgms@gmail.com](mailto:ecvgms@gmail.com)

**Website:** [www.ecvgms.org](http://www.ecvgms.org)  
 Inside and outside vendors featuring rocks, gems, minerals, fossils, slabs, beads, jewelry, lapidary supplies and crafts, and also kids' activities, raffle.

**17-18 OXNARD, CA – 49th Annual Galaxy of Gems Expo – Calcite**  
**Presented by:** Oxnard Gem & Mineral Society  
**Venue:** Oxnard Performing Arts Center  
 800 Hobson Way, Oxnard, CA 93030  
**Hours:** Sat 10:00am – 5:00pm  
 Sun 10:00am – 4:00pm  
**Admission and Parking:** Free  
**Contact:** Stephanie Hagiwara, 805-394-8002 or [webmaster@oxnardgem.com](mailto:webmaster@oxnardgem.com)  
**Website:** [www.oxnardgem.com](http://www.oxnardgem.com)  
 Fifty display cases showcasing the talents and artistic skills of members and guest exhibitors. Some of the displays and activities are directed towards teaching students about the earth sciences. Take the pebble pup quiz, collect 36 dino discovery trading cards, participate in a dino dig, bean bag toss, and kids get a free polished rock.



# West Coast Gem & Mineral Show

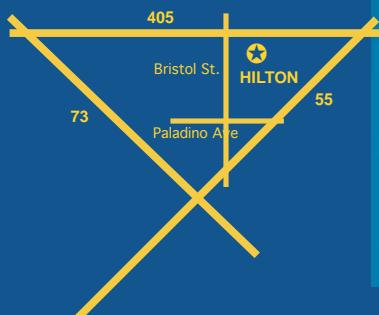
## November 9 - 11, 2018

### NEW LOCATION!

Hilton Orange County

3050 Bristol St., Costa Mesa, CA 92626

**FREE** Admission  
Parking \$5/day  
**OPEN** to the Public



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[www.MineralShowsLLD.com](http://www.MineralShowsLLD.com)

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## SDMG BOARD MEETING HIGHLIGHTS

June 18, 2018

**In attendance:** President Jim Parrish called the meeting to order at 7:02 PM. A total of 14 board members were present: Andy Anderson, Bob Hancock, Rocio Bergum, Ellen Riceman, Anne Schafer, Jennifer Stapp, Tim Bickford, Lois Lukasky, Paul Williams, Donna Beers, John Kruzel, Dee Smith, Dave Smith. **Excused:** Doug Peeler, Sally Parrish, Shirley Leeson, Wayne Moorhead. **Absent:** Adriana Zulewski, Jill Williamson. **Guests:** Letty Evans, Melissa Ordway, Stephanie Griffin. A quorum was present.

**President's Report:** Jim Parrish reported that tonights meeting will be the last board meeting until September.

**Membership:** There have been lots of renewals.

**Treasurer:** Anne Schafer reported that the period from May 21, 2018 to May 31, 2018 total receipts and total disbursements.

**General Meeting:** Jim Parrish reported that for the Juniors May meeting, Junior member Aaron Liu gave an amazing presentation, and the juniors made \$195 in doorprize money. The June meeting will be next Monday and Gerry Alvarado will give a presentation on opal. There will also be the bi-annual election of officers.

**Mineral Division:** Jim Parrish reported that he is looking for a new chairman for the mineral division.

**Juniors:** Dave Smith reported that there were 7 students in class last week, and a lot of interest in working at the fair.

**City Liaison/Spanish Village:** Jim Parrish reported that Spanish Village wants us to join in on their insurance, but we have our own insurance. A motion was made that a letter is written to Village Silversmiths reminding them not to leave the museum unattended, lock the building when leaving to use the restroom or find someone to fill in while they are gone, and was passed by the board.

**School Director:** Wayne Moorhead reported via email that there will be no classes July 1 - 8. Fall classes start on September 10. We have purchased: 10 buckets of saw oil, a new flat lap, red and blue injection wax, 3 clamp on bench pins.

**School Liaison:** Bob Hancock reported that he has been busy with demonstrations at the fair. Faceting classes have been going well.

**Building Superintendent:** No report.

**Library:** Donna Beers reported that Andy Anderson and she have been working on adding books to the library. Rocio Bergum reported that she would be available to open the library on Tuesdays in the fall for a couple of hours.

**Museum Curator:** Jim Parrish reported that we have a new plaque for Elbert McCune's donation of 100 stones, and he is working on the display.

**Field Trips:** A motion was made to remove Adriana Zulewski from the board, and was passed by the board.

**CFMS:** Shirley Leeson plans to attend the annual CFMS Business Meeting in Visalia.

**Donations:** Dee Smith reported that Rick Truillo's family made a large donation to the society.

**SD Fair:** Anne Schafer reported that we are having a really successful fair this year, a third of the entries are from SDMG members.

**Gem Diego Show:** Jim Parrish and Tim Bickford both reported that they were at the gem show at the Escondido Performing Arts Center two weeks ago and a lot of people were upset that we aren't having a show this year. The Escondido Performing Arts Center may be a good venue for us in the future.

**New business:** Jim Parrish reported that online payment is in place, but membership is still \$30. Donna Beers requested that the club buy two new facetron heads instead of a new UltraTek.

A motion was made to nominate Stephanie Griffin to be Historian & Friendship Chairman, and CFMS representative and was passed by the board..

*(Any member may attend Board meetings. The next one is September 17th at 7pm in the SDMG Building.)*



## San Diego Mineral & Gem Society, Inc.

A Non-Profit Educational and Scientific Organization

### Membership Information:

Interested in minerals, fossils, lapidary, gems, or handcrafted jewelry? We are, too!

1.) Send a check with your membership form to the membership secretary (details below).

OR

2.) Sign up online using major credit cards via PayPal.

Visit the SDMG website at:

[www.sdmg.org/sdmg-membership/](http://www.sdmg.org/sdmg-membership/)

.....

Pay with mailed check: \$30 – first Adult Member

OR – Pay using PayPal: \$32 – first Adult Member

\$10 – Associate Adult Member at same household

\$10 – Junior Member

\$10 – printed/mailed copy of *The Pegmatite* bulletin

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Membership application forms  
are available on-line at [www.sdmg.org](http://www.sdmg.org),

and at the Village Silversmiths Shop  
in the SDMG Building,

or by contacting the SDMG Membership Secretary  
[membership@sdmg.org](mailto:membership@sdmg.org)

or by writing to her at:

San Diego Mineral & Gem Society  
attn: Angela Cannon  
P.O. Box 710783, Santee, CA 92072

Please allow up to 3 weeks for processing your application

MAKE CHECKS PAYABLE TO:

**San Diego Mineral and Gem**



## CLASSIFIED ADS

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### TOUR & SCREENING TRIPS:

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please visit [www.digforgems.com](http://www.digforgems.com)

or call Jeff Swanger at 760-415-9143  
Reservations required.

\$75. Adults \$60. Children (ages 5 to 11)  
Family rates available.

### HIMALAYA MINE TAILINGS:

Thursday-Monday, 10:00 am to 3:00 pm.

At the Lake Henshaw Resort on Highway 76.

Adults, \$75 per day. Kids 12-15, half price.  
Screening tables, buckets, and shovels provided.

Call (775) 830-5797  
or (775) 772-7724 for more info

Website:

[www.highdesertgemsandminerals.com/](http://www.highdesertgemsandminerals.com/)

## WEBSITES

SDMG:

[www.sdmg.org](http://www.sdmg.org)

CFMS:

[www.cfmsinc.org](http://www.cfmsinc.org)

AFMS:

[www.amfed.org](http://www.amfed.org)

## PUBLIC LANDS:

[www.amlands.org](http://www.amlands.org)

BLM:

[www.ca.blm.gov](http://www.ca.blm.gov)

## BOB'S ROCK SHOP:

[www.rockhounds.com](http://www.rockhounds.com)

## ROCKHOUND FORUM:

[groups.yahoo.com/neo/groups/la-rocks/info](http://groups.yahoo.com/neo/groups/la-rocks/info)

**CLASS SCHEDULE – 2018**  
**REGISTRATION IS REQUIRED BEFORE ALL CLASSES.**

Email [school@sdmg.org](mailto:school@sdmg.org) for class availability before attending any class to find out when the class starts and ends, if special materials are required and whether you qualify to attend. Fee is \$5.00 per class; it is usually easier for instructors if payment is made for a full month; cash or checks only, please. **Classes are open to members only** and students must read and follow the **School Rules** available in the classroom and at:

<http://www.sdmg.org/class-schedule/school-rules.pdf>

<b>CABOCHONS</b>	Wed	9 – 11:30am	Jim Claypool
	Wed	6 – 9pm	Nita Sani
	Thu	7 – 9pm	Jon Evans
<b>FACETING</b>	Tue	noon – 3pm	Elbert McCune
	Tue	7 – 9pm	Jerod Schneider
	Wed	9am – noon	Bob Hancock
	Wed	noon – 3pm	Donna Beers
	Wed	7 – 9pm	Elbert McCune
	Thu	7 – 9pm	Bill Brisebois
<b>BEG. METALS FABRICATION</b>	Tue	9am – noon	Lois Lukasky
	Tue	noon – 3pm	Lois Lukasky
	Wed	6 – 9pm	Stephanie Griffin
	Thu	9am – noon	Denny Turner
	Thu	1 – 4pm	Denny Turner
<b>ADV. METALS FABRICATION</b>	Tue	7 – 9pm	Al Puente
	Wed	9am – 3pm	Denny Turner
	Wed	9am – 3pm	Jackie Leverone
	Thu	7 – 9pm	Ellen Riceman
	Fri	9:30am – noon	Jill Williamson
	Fri	12:30 – 3:00pm	Jill Williamson
<b>CASTING</b>	Mon	1:30 – 7:00pm	Rocio Bergum
	Tue	9am – 2pm	Dave Smith
	Fri	5 – 7pm	Rich Yarbrough
<b>STONE SETTING</b>	Mon	by appointment	Miguel Asmar
<b>ROCK CARVING</b>	Mon	9am – 1pm	Jan Kunsa
<b>SPHERE MAKING</b>	Sat	1 – 3:30pm	Paul Williams
<b>JUNIORS</b>	Sat	10am – 1pm	Dave Smith
<b>DESCRIPTIVE MINERALOGY</b>	Wed	6:30 – 9pm	Doug Peeler

# Thomas M. Schneider Quality Gemstones



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Al Ramirez, proprietor  
*U.S. Navy WWII South Pacific veteran*

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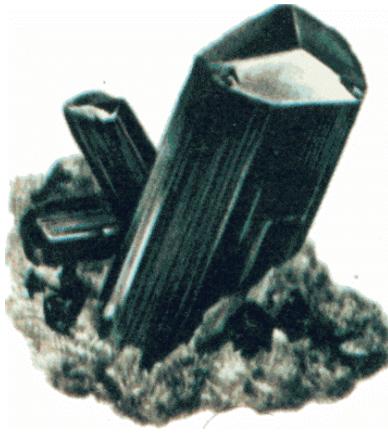
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## San Diego Mineral & Gem Society, Inc.

A Non-Profit Educational and Scientific Organization

1770 Village Place, Balboa Park  
San Diego, CA 92101-1651

[www.sdmg.org](http://www.sdmg.org)

### WELCOME!

The SDMG Building  
is located  
at the north end of  
Spanish Village  
in Balboa Park

SDMG Museum hours:  
11:00am to 4:00pm

Get information  
on classes, events,  
field trips, reports,  
reviews, slideshows  
and more at:  
[www.sdmg.org](http://www.sdmg.org)

### ADDRESS SERVICE REQUESTED



## THE PEGMATITE – OCTOBER 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	1 GSSD General Mtg 7pm, SDMG Bldg	2	3	4	5	6 VGMS show Vista, CA – begin
7 VGMS show Vista, CA – end FGMS show Fallbrook	8	9	10	11	12	13 GMJ, SD Fair Exhibitors' Mtg 10am to 1pm Fairgrounds Board Room
14	15 SDMG Board Mtg 7pm, SDMG Bldg	16	17	18	19	20
21	22 SDMG General Mtg 7pm, SDMG Bldg	23	24	25	26	27
28	29	30	31	1	2	3