



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

THE PEGMATITE

JUNE 2018



HOW SWEET IT IS!

June 1st thru July 4th, 2018

Del Mar Fairgrounds

[see details pg. 8](#)

**PALOMAR CLUB
GEM & MINERAL SHOW**

June 9 & 10, 2018

California Center for the Arts
Escondido, CA 92025

[see details pg. 16](#)

Comment period closes

June 14, 2018

on the

WEMO Route Network Project

*Rockhounds, let's keep routes to
desert collecting areas OPEN.*

[learn more pg. 10](#)

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

Affiliations: California Federation of Mineralogical Societies
American Federation of Mineralogical Societies
American Lands Access Association

Sister Club: Kingston Lapidary, Hull, England

Publication: *The Pegmatite* is published monthly (except July and August).

Submission Deadline: 3rd Tuesday of the month preceding next month's publication, unless otherwise indicated in the master calendar, see: www.sdmg.org/pdf/sdmg_master_cal_2017-18.pdf.

Membership:

Anyone with an interest in minerals, fossils, lapidary, gems, or hand-crafted jewelry may join the Society.

Liability: Contact: membership@sdmg.org

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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

Editor: Lisbet Thoresen, editor@sdmg.org

Layout, Advertising: info@sdmg.org

General Information: admin@sdmg.org

Change of Address: 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

June 2018

by Jim Parrish

sdmgpresident@sdmg.org

DID YOU MAKE IT to the Junior-sponsored General Meeting this last month? The Juniors and their new coordinator, Dave Smith, did a great job with lots of door prizes. The speaker, Aaron Liu, a junior himself, gave a program about one of his favorite topics.

We also finished with our **Annual SDMG Barbeque**. This has been an annual event as far back as I can remember. Our **BBQ** chairman Doug Peeler, along with a host of other volunteers, did a great job putting all the details together. Lots of work goes into preparing all the donations for sale. Thanks to all of you!

Don't forget to visit the **San Diego County Fair** this month. Many of our members will be displaying their creations and collections in the Gems, Minerals and Jewelry Department. Dare I say, this county fair probably has the best mineral, gem, fossil, and jewelry displays in the nation, and our own **Anne Schafer** is the coordinator of it all!

Our society's fiscal year ended May 31st. So, be sure and attend the **General Meeting** on Monday June 25th to vote for your new officers. The rest of the evening will be a lot of fun. So, please read the write up for the **General Meeting** on page 3 and plan on attending. This will be the last meeting until September. We are closing out the year with over 810 members, including 77 **Juniors**. Amazing!

Since taking over for **Shirley Leeson** back in January the time has flown by. I would like to thank



Above: High school junior Aaron Liu was the guest speaker at the May General Meeting, which was hosted by the Junior Division. Right: Raffle items at the May General Meeting. Photos: Jim Parrish and Dave Smith.



all those who offered support and understanding. Thank you for the privilege of serving our great organization. We have so many wonderful people donating their time and energy that I believe we will succeed for many years to come.

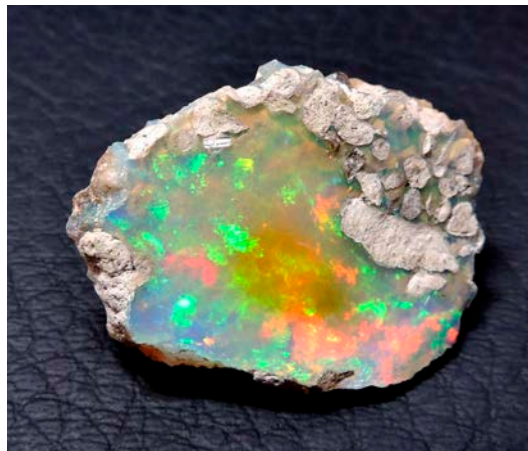
Oh, and special thanks to my wife **Sally**, who not only supplied moral support, but also helped with a lot of the little things.

SDMG
General Meeting
Monday, June 25, 2018

Jim Parrish, President
 7pm SDMG bldg
 Public Welcome!

***Pie Night with voting
 and a great program:***

OPAL
A new updated version
 by "The Gem Guru" Gerry Alvarado



THIS FINAL MEETING OF THE SEASON promises to be fun, important, and entertaining. What else could you hope for?

First, you'll get to vote for our new officers who will serve for the next two years.

Second, I promise to have lots of great door prizes.

Third, our special program will be presented by longtime member and supporter of **SDMG, Gerry Alvarado**, also known on eBay as the "Gem Guru." **Gerry** is a GG and works at **Miner's Gems** in Old Town State Park, San Diego. He has been cutting and has dealt with a wide variety of gemstones over many years and is very knowledgeable. So, please join us when he shares some of his expertise. If you have any questions about your opals, bring them, and you'll have a chance to ask him.

Opal from Tsehay Mewcha, Wegeltena (Wegel Tena), Delanta Woreda, South Welo, Amhara Region, Ethiopia. Opals from the main site in Welo are found in ignimbrites/rhyolites at 2900m elevation in the heart of the Abyssinian high plateau. Only locals have the permit to mine near Tsehay Mewcha. Photo and specimen: Gerry Alvarado.

Fourth, the refreshments will be great since it's up to you to bring your favorite pie to share. My personal favorites are Chocolate and Coconut crème. What's yours?

So, come on down and join us for a fun evening. Don't forget the pies! The Club will provide coffee, tea and punch.

In memoriam

IZZIE BURNS has passed away a week shy of her 90th birthday. She had a long relationship with the rockhounding community and was president of both **CFMS** and **AFMS**. She was also instrumental in establishing the earth sciences group at Camps Zzyzx and Paradise, where she enjoyed attending the events there for several years. She also served on the **BLM Desert District Advisory Committee (DAC)** for several years, working to keep the desert open for rockhounding. Our condolences go out to her family and friends.



SDMG Membership...

New Applications & Renewals for 2018–19

Due **NOW**

(Deadline is August 31, 2018)

Don't forget to send in your membership renewal form by the deadline. **SDMG** classes are open to members only, so don't put it off any longer! 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 at the end of this bulletin or on the **SDMG** website at:

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/

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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: <http://tinyurl.com/qy85geq>

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!)

School News - Summer classes

Wayne Moorhead

Attention Students interested in Summer classes.

Not all instructors will be offering classes during the summer months, and those who do have their own schedules. Email school@sdmg.org if you have questions about time/date and requirements, we'll pass your message along to the instructor.

View the class schedule at the end of this bulletin or online at: http://www.sdmg.org/class-schedule/sdmg_summer_class_schedule_2018.pdf

Parking Lot closures in June

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.

**Closed:
June 9 and 10, 2018**



JUNIOR DIVISION

Coordinated by
Dave Smith

MEMBERSHIP HAS REACHED 78 JUNIORS, according the latest count. As we move into summer, classes will continue on without a break. **Paul Williams**, sphere instructor and occasional **Junior Division** instructor will be absent during June to demonstrate the art of creating boulders into round balls at the **San Diego County Fair**. If attending the **Fair** during the weekends, look for **Paul** and his crew near the

faceting demonstrators along the south wall.

All **Juniors**, parents, other relatives and next door neighbors are needed to volunteer for the **San Diego County Fair** sandbox dates set for the **Juniors**: Thursday, June 28th, and Tuesday, July 3rd. Two hour shifts will be assigned and we'll start at 11:00 am and continue throughout the day.

Please contact me at smith0815@sbcglobal.net to arrange your entry pass at the Will Call ticket office, and if you're volunteering, a ticket will be arranged for a free day at the **Fair**.

Please be sure to look for your cabochons within the class display case. Thank you.

GEMOLOGICAL SOCIETY of SAN DIEGO



GSSD General Meeting
Monday, June 4, 2018
7:00pm SDMG Building

GSSD MEMBERS AND GUESTS will present some of their treasures. Our theme is **"Big is beautiful, but small is sublime."** Bring in your natural large gemstones over 25 carats, and interesting small gemstones under 1 carat for Show 'N' Tell.

We will also have a silent auction at the meeting. Anyone may bring in gem-related items to include in the auction. The society receives 10% of the value of items sold.

The society will have tea and coffee, please bring treats to share.

Right: Gem researcher Kirk Feral with a small fluorescent purple sapphire from Madagascar in LWUV. Photo by Kirk Feral. **Far Right:** Kirk's 0.97ct purple sapphire fluorescing red under Longwave Ultraviolet lamp. Photo by Kirk Feral.



Left: Gem connoisseur Norman Leitman with a large backlit fluorite from Illinois. Photo by Kirk Feral. **Right:** Norman's backlit 147.71ct fluorite. Photo by Kirk Feral.



MINI MINERS MONTHLY A MONTHLY PUBLICATION FOR YOUNG MINERAL COLLECTORS

MAY 2018 (vol 10 no 5)

- NFMS annual meeting and show
- Mineral of the Month: Diamond
- **Introducing Brenna Baker, Artist and Mineral Collector ***
- **Find a gem-mineral society to join ***
- **Let's get digging (rockhounding tools)***
- Mineral Collector's Code of Ethics
- Minerals and Elements Trivia
- How to draw minerals; drawing wulfenite and tourmaline
- New book from Diamond Dan Publications – *Crystals and Crystal Forms: An Introduction to Crystallography for Mineral Collectors*, by Darryl Powell



* Available for download from the SDMG website courtesy of Diamond Dan Publications:

www.sdmg.org/mmm/Mini_Miners_Monthly_2018_v10n5_pp3-5.pdf

or <https://goo.gl/5RER1g> (short URL)

Visit the publisher's website at:

www.diamonddanpublications.net

SDMG Master Calendar
for 2017-18 available online at:
www.sdmg.org/pdf/sdmg_master_cal_2017-18.pdf
deadlines for bulletin submissions listed for every month
(usually the Tuesday after the Board meeting on the third Monday)

Nanodiamonds in meteorite hold secrets of protoplanets' origins

June 1, 2018

by Lisbet Thoresen

A DECADE AGO amateur astronomers tracked a meteoroid's Earth-bound journey on its way to the Nubian Desert of Northern Sudan. Originating in asteroid 2008 TC3, the meteorite was dubbed Almahata Sitta, which is Arabic for "Station Six," a train station near the landing site. Dr. Peter Jenniskens, Senior Research Scientist at the Carl Sagan Center of the SETI Institute, recovered the meteorite fragments with Sudanese astronomer Muawia Shaddad and his students from the University of Khartoum. According to the [SETI website](#): "It was the first time that an asteroid was spotted in space, observed by telescopes, then samples retrieved for study."

Recent analysis performed by researchers in Switzerland revealed that Almahata Sitta is no garden-variety meteorite. It is a rare type of achondrite, or stony meteorite, known as a ureilite, a coarse grained rock composed mainly of olivine and pyroxene. Using transmission electron microscopy, Ph.D. candidate Farhang Nabiei, made an even more exciting discovery – one of the meteorite fragments contained diamonds. The nano-sized crystallites are the largest diamonds discovered to date in a meteorite. More important, according to Nabiei: "It is the first time that we found inclusions in extraterrestrial diamonds." In fact, they were full of mineral inclusions – chromite (Cr_2FeO_4), Ca–Fe–Na phosphate, and iron-nickel sulfides. In [an article](#) for the *The New York Times* last April, Nicholas St. Fleur reported on what makes the inclusions so important to scientists. Quoting Nabiei's colleague, planetary scientist Dr. Philippe Gillet, he wrote:

"What for a jeweler is an imperfection becomes for me something that is very useful because it tells me about the history of the diamond. It has a chemistry which has no equivalent in the solar system today, in terms of planets."

The guest inclusions within the diamonds that had travelled so far across space and time as passengers in the ureilite provide scientists with evidence of the host's likely origins in a planet that was destroyed long ago but orbited the sun billions of years ago. In other words, they provide a portal to the distant past, during



Above (overset): Muawia Shaddad of the University of Khartoum, Sudan, and NASA meteor astronomer Peter Jenniskens join students from the University of Khartoum at the location of one of the larger finds from the Almahata Sitta meteorites in 2008. Below: Like most meteorites, the Almahata Sitta meteorite (number 15 here) is dark gray. Inside are nanodiamonds. Photos courtesy of Dr. Peter Jenniskens, SETI Institute.

the naissance of our solar system. St. Fleur reported: "If confirmed, they [scientists] say, it would be the first time anyone has recovered fragments from one of our solar system's so-called 'lost' planets."

Learn more about Almahata Sitta

ASIMA. 7 October 2008. The Impact and Recovery of Asteroid 2008 TC3. Available online at: <http://asima.seti.org/2008TC3/>.

Jenniskens, P., et al. 2009. The impact and recovery of asteroid 2008 TC3. *Nature magazine*, March 26. DOI:10.1038/nature07920. Available online at: <http://asima.seti.org/2008TC3/nature07920.pdf>.

Kwok, R. 2009. The rock that fell to earth. *Nature magazine*, March 26. DOI:10.1038/nature07920. Available online at: <http://asima.seti.org/2008TC3/Nature-2008TC3.pdf>.

Nabiei, F., et al. 2018. A large planetary body inferred from diamond inclusions in a ureilite meteorite. *Nature magazine*. April 17. DOI:10.1038/s41467-018-03808-6. Available online at: <https://www.nature.com/articles/s41467-018-03808-6>.



Important Exhibitor Information & Dates

Location: Del Mar Fairgrounds

2260 Jimmy Durante Blvd., Del Mar, CA 92014

West of the 5 Fwy., exit Via de la Valle

The Gems, Minerals & Jewelry Dept is located in the south side of the Mission Tower

First day of Fair: Friday, June 1. Hours: 4 to 11 pm

Exhibitor Appreciation Night: Wednesday, June 6. Hours: 6 to 9 pm

Closed Days: Mondays and Tuesdays in June
(Open Monday and Tuesday, July 2nd and 3rd)

Last day of Fair: Wednesday, July 4

Exhibit pickup: Thursday, July 6, 9 am to 8 pm

Website: sdfair.com

NEWS FROM THE ONE & ONLY GEMS, MINERALS & JEWELRY DEPT.

by Anne Schafer, Coordinator

ABOUT 140 entries among a total of 365 – the third largest number ever submitted – were from members of the **San Diego Mineral and Gem Society**. How Sweet It Is, indeed!

There will be lots of cases filled with spheres (some of which will fluoresce), “how to” educational exhibits, the sweet desserts from the Rock Feast, plenty of faceted gemstones, petrified wood and geodes, the **Mineral of the Year – Fluorite** entries, the **Fossil of the Year – Leaves, Cones and Fruits**, 20 cabochons, and a dozen carvings. Did I fail to mention jewelry? **“How Sweet It Is,”** the Fair theme category, has 13 entries; there are 11 pieces in Southwest Jewelry; and

amongst the five handmade bola ties entered will be 100-year old Elbert “Mac” McCune’s favorite bola. Way to go, Mac!

Volunteer! Get a free ticket to the Fair!

Volunteers will receive a free ticket to the Fair on the day you sign up to demonstrate. Parking is free over at “Horse Park,” located east of I-5, about 1.5 miles, on Via De La Valle. Free shuttle buses run continuously and will deliver you right to the main entrance to the Fair. Your fair entry ticket may be picked up at the **Will Call Booth** located on the left hand side (south) of the main entrance to the Fair.

~ Faceting Demos ~
Bob Hancock

rtourmaline2@aol.com or 619-889-6886

All Facetors and Faceting Students, we will be needing volunteer demonstrators at the Fair this year. You do not need to be an accomplished facetor to demo at the Fair. Someone will be on hand to help get you started. If you are a student and still working on your first stone, just bring what you have to the Fair and continue working on it there. Bring your own visors, and a dopped stone. You will be using an UltraTec Faceting Machine.

Volunteer times are 3 hours in length, then you may remain at the Fair until closing, if you so desire. See the sign up sheets located in the Faceting Classroom, at the **SDMG** School Building, please contact **Bob Hancock** to sign up, we could use your help.

~ Other Demos, Info Booth & SandBox ~
Asst. Coordinator Jennifer Stapp

Cat333@san.rr.com

Chain making, Fossil prep, Wax carving, Wire wrap, Bead stringing, and the list goes on. If you have a rock or gem related activity that does not involve an open flame, please contact **Jennifer** to schedule your time slot.

If you like interacting with kids of all ages, and would like to help them screen for a free rock in the sand pile, please sign up for a two-hour slot at the Info Booth. (You can bring a couple of Show 'N' Tell items, too, for fun.) Look for the signup sheets in the Casting Room, in the near future or contact **Jennifer** to schedule your time slot.

Remember: All volunteers will receive a free ticket to the Fair. Just pick it up at Will Call on the day you have signed up for.

We look forward to seeing you at the 2018 San Diego County Fair!

SDMG Library

SDMG Bldg.
 Donna Beers

Hours:

Wednesdays, 3 to 6pm
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** 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

**BLM Field Tour &
 Desert District Advisory Council
 Business meeting**

**June 8 – 9, 2018
 Ridgecrest, CA**

AGENDA: WMRNP

~ CANCELLED ~

BLM's request to the **Department of the Interior (DOI)** to schedule a **DAC** meeting before the June 14th close date for the comment period on the **WEMO (West Mojave) Route Network Plan**, or **WMRNP**, has been denied. The agency originally attempted to schedule a meeting in May but ran afoul of a new **DOI** rule instituting a 60-day advance notice requirement for such requests. The June 8–9 dates fell within the scope of the new rule, but **DOI** then revised the lead time to 75 days. According to **BLM's Stephen Razo**, they hope to schedule a meeting in October.

**Stay current
 with [News.bytes](#)**

The BLM California newsletter

WEMO Route Network Travel Project**Comment Period Deadline: June 14, 2018**

June 1, 2018

by Lisbet Thoresen

THE WEST MOJAVE (WEMO) ROUTE NETWORK PROJECT (WMRNP) is a longterm **BLM** project that has involved hundreds, if not thousands of people providing input. **WEMO's** footprint covers 3.1 million acres containing nearly 16,000 miles of routes. There are two weeks remaining in the comment period for what will become the final travel management plan containing all legal motorized routes on public lands within **WEMO's** boundaries in Southern California's deserts.

There are four alternative plans, including one no-action plan available for comment. It is important for Rockhounds to review **BLM's** four proposed alternative plans and submit comments by June 14th. Motorized routes of access to hobby collecting areas that are left out of the final plan will be off limits in the foreseeable future. Destinations without vehicular access will make it impossible for many Rockhounds to visit them. Areas to park near collecting areas also need to be called out.

**Data accuracy & usability
of the WMRNP maps**

In the [May bulletin](#), **Kim Erb** and I reported some problematic issues and questions that we encountered using **BLM's** maps. There are two versions available for comment: a set of geo-referenced PDFs (<https://goo.gl/Pkm2X9>) and an interactive online map (<https://goo.gl/g7oYLF>). After seeking answers, or at least clarification, to our questions with **BLM's** project coordinator **Matt Toedtli**, some remain unresolved.

Other Stakeholders have encountered some of the same problems that we observed, with usability/user-friendliness of the maps and accuracy of the data being common denominators. Several conservation groups have surveyed selected areas, compared their field observations against the routes output to the maps, and documented specific examples of data irregularities which illustrate three key problems: mileage discrepancies, duplicate routes, and discrepancies among different data sources, i.e., routes in the PDF maps and the interactive online maps do not match (see: <https://goo.gl/Yz6C3m>

**West Mojave Route Network Project
DSEIS/LUPA****Comment period now open****Deadline: June 14, 2018**

The BLM has prepared a Draft Land Use Plan Amendment (LUPA) and Draft Supplemental Environmental Impact Statement (DSEIS) for the West Mojave Route Network Project (WMRNP) within the West Mojave (WEMO) Planning Area of the California Desert Conservation Area (CDCA). A 90-day comment period was opened on March 16th.

Federal Register doc 2018-05272

<https://www.federalregister.gov/d/2018-05272>**Want to receive late breaking updates?**

Join SDMG's mailing list at:

<http://tinyurl.com/qy85geq>

select the "public lands" lists

and <https://goo.gl/gjsrfA>.

These observations call into question the accuracy of other data **BLM** output to the maps and how redundant routes will be handled. For Rockhounds, there are also questions about what route data may have been omitted. (The maps do not have feature labels, so it is hard to discern.) Together, these issues create enormous barriers for individuals who are trying to submit effective comments.

Request for a comment period extension

In the light of the significant problems and unresolved questions encountered by many users, the **WEMO** team of **The Wilderness Society (TWS)** prepared a letter to the **BLM** on May 30, 2018 requesting an extension to September 12, 2018 for the comment period on the **WEMO Draft Land Use Plan Amendment and Supplemental Environmental Impact Study (LUPA/DSEIS)** (see: <https://goo.gl/LwqaWY>). The letter makes a clear, concise case for the public needing more time to comment. It does not plead a values oriented message centered on the goals of conservation stakeholders. It focuses on the bad data and usability of the maps **BLM** made available for comment, with all users impacted negatively and all users standing to benefit from an extension.

Sheara Cohen, California Desert Public Lands Representative for **TWS**, outlined the issues in an email to California BLM Director **Jerome Perez**:

"These errors are of a magnitude that it makes it impossible to understand what the BLM is proposing for some geographies and in terms of

total designated route mileage. In addition, there are significant gaps in the type of information the public has been provided. These issues make it extremely cumbersome to review the DSEIS and provide meaningful comments. The public has a right to accurate information so they can reasonably foresee the result of a proposed action. Unfortunately, this is not what we have received.

These issues add to the already challenging and time-consuming task of reviewing a plan of this scale and complexity. Many have spent a significant portion of the comment period simply trying to obtain information from the BLM, wading through highly inconsistent depictions of the alternatives, and verifying the accuracy of the data with the BLM and against other data sources. Even without the data problems, 90 days is already a tight timeline for evaluating a plan as voluminous and complex as WEMO.”

The letter prepared by **Ms. Cohen** was signed by 39 members of the public, organizations, and other stakeholders who have disparate interests, including conservationists, eight rockhounds, and one paleontological society. We appreciate the outreach that **TWS** extended to other stakeholders who are often on opposing sides of an issue. Here’s one issue everyone can all agree on – an extension on the comment period is needed, the data need fixing, and the usability of the maps need to be more user-friendly.

***Don’t wait for an extension,
comment now – it may be the only opportunity***

It is uncertain whether or not the letter will result in an extension to the comment period, so members of the public should still plan on providing comments before the June 14th deadline. Supplemental comments can always be made, if an extension is granted.

One of the most exasperating aspects of the current **WMRNP** maps is ascertaining what data are reflected in the alternative plans and recognizing what might have been left out that should be in the maps. **Matt Toedtli** confirmed to **Kim Erb** and me that comments submitted on non-**WEMO** projects such as the **Desert Renewable Energy Conservation Plan (DRECP)** were not incorporated into the **WEMO** database, even though they are related components –

WEMO’s geographic boundaries overlay federal lands managed by **BLM** under the **DRECP** guideline.

If Rockhounds have any doubts about whether or not comments they submitted previously on any project are reflected in the current **WMRNP**, they should re-submit their past comment letters by June 14th. Be sure to keep a copy of your comments for future reference/re-submittal. See the box below for the URLs where you can submit comments to the **BLM**.

Where to find BLM’s WMRNP maps.

Comment directly in BLM’s map online
at the short URL: <https://goo.gl/g7oYLF>

or download BLM’s geo-referenced PDF maps
at the short URL: <https://goo.gl/Pkm2X9>

***What Rockhounds need to know
about making comments on WMRNP.***

Be sure to include a reason for every comment you submit. It is not enough to tell BLM what you want done – “connect these two route segments” – you have to tell them that you want to keep a route open to retain motorized access to a hobby collecting area. If the area has been published in a field guide, it can only help to include the page citation with your comment. Be sure to keep a copy of your comments. Is this laborious? You bet.

There are four maps – which one should Rockhounds comment on?

- Alternative 1 is the no-action plan.
- Alternative 2 is the conservation plan.
- Alternative 3 is the recreation plan.
- Alternative 4 is the Preferred plan, the plan most likely to be adopted.

The routes in Alternatives 1 and 4 are close in total miles, but they do not overlap precisely – 800 miles of routes are shown in one and not the other.

BLM will not apply comments across all Alternative Plans, so, the agency advises users who click and comment directly on a route link in any given Alternative Plan, for example, Alternative 3, to include a statement directing BLM to apply the same comment to another plan, for example, Alternative 4.

Map tutorial.

Passed along from Ruth Hidalgo, a tutorial on how to use BLM’s interactive map can be found online at:

[jawbone.org/index.php/seekritmodules/471-](http://jawbone.org/index.php/seekritmodules/471-offroader-s-guide-to-wemo-online-map)

[offroader-s-guide-to-wemo-online-map](http://jawbone.org/index.php/seekritmodules/471-offroader-s-guide-to-wemo-online-map)

or short URL: <https://goo.gl/wVhsXA>

Visit the SDMG website for updates at:

<https://goo.gl/tSyHmh>



FIFTEENTH ANNUAL SINKANKAS SYMPOSIUM Tanzanite & Tsavorite

Review by Gary Thrapp

The speakers, *from left to right, front row:* Meg Berry, Will Larson, Judith Bridges, Raquel Alfonso-Perez, George Rossman; *back row:* Nathan Renfro, Stuart Robinson, Shane McClure, Bill Larson, Bruce Bridges, Robert Gessner (far right). Photo: Jim Parrish.

THE FIFTEENTH ANNUAL Sinkankas Symposium was held on April 14, 2018 at GIA world Headquarters in Carlsbad. The event was co-hosted by the **Gemological Society of San Diego**, the **Gemological Institute of America (GIA)**, and **William Larson, Pala International**. The symposium unfolded before an auditorium full of enthusiastic attendees.

The gem theme this year was **Tanzanite** and **Tsavorite**. 2017 marked the 50th anniversary of the commercial discovery of both gemstones in 1967, in Tanzania; although, **Campbell Bridges** had found some small **Tsavorite** crystals as early as 1961 in what was then Rhodesia (Zimbabwe). Bridges discovered deposits of the green grossular in 1971, in Tsavo, Southern Kenya, which gave the gem its name.

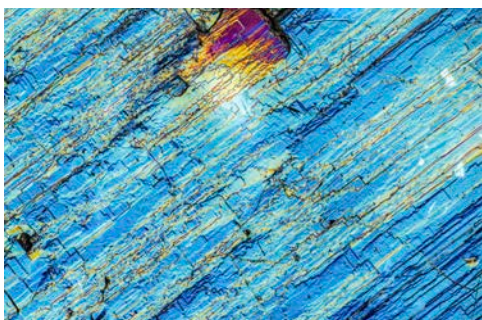
Below are just a few highlights from the all day event. For those who could not attend, print-on-demand copies of the proceedings are expected to be available soon via the official website at www.sinkankassymposium.net.

The event began with morning keynote speaker **Dr. Raquel Alonso-Perez**, curator of the Mineralogical and Geological Museum, **Harvard University**. Her bright, cheerful face lit up the auditorium as she guided us through the geology of the Mozambique Belt of East Africa, which is the source of not only **Tanzanite** and **Tsavorite**, but also many other gem minerals.

Geologist and gemologist **Robert Gessner** discussed the formation of **Tanzanite** as a geological transformation of vanadium-rich green grossular garnet (**Tsavorite**).



Above: Interpenetrant tanzanite crystals. *Below:* tsavorite crystal, collection of Irv Brown. Photos: Jim Parrish.



Above: Etched surface of a tanzanite crystal, FOV 1.44 mm. Below: Graphite inclusions in Tsavorite, FOV 1.03 mm. Photomicrographs: Nathan Renfro.

Nathan Renfro is GIA's Manager of the Gem Identification Department and microscopist in the Inclusion Research Department. He presented stunning photomicrographs of Tanzanite and Tsavorite, explaining the distinctive signature inclusions and features gracing their surfaces and internal landscapes.

Will Larson is a mineral dealer and collection adviser at **Pala International**, in Fallbrook, CA. He discussed the challenges of procuring natural crystals of Tanzanite and Tsavorite. He showed some fine examples that he has obtained for himself and clients.



Left: Will Larson visits the famous Block D Tanzanite mine in the Merelani Hills, Tanzania. Right (overset): Tanzanite crystal, 262.89 cts. (5 x 3.3 x 2 cm). Photo: Mia Dixon, www.palaminerals.com.



Above: Colors of Tanzanite by Meg Berry. Below: Tanzanite color suite by Meg Berry. Photos: Jim Parrish.

Meg Berry is well-known for her award-winning virtuosity faceting gems for more than 40 years in the San Diego area. She is also a master lapidary artist. Her presentation at the symposium focused on her efforts to produce a collection of fancy-color faceted zoisites for a client. While the blue-violet Tanzanite variety is very popular, her client is also interested in the many other colors of zoisite.



Keynote speakers Bruce and Judith Bridges. Photo: Jim Parrish.

Bruce and **Judith Bridges** were the afternoon keynote speakers. They are son and wife of the legendary late **Campbell Bridges**, discoverer and longtime promoter of Tsavorite. They discussed in detail the 50 year history of Tsavorite mining, first in Tanzania and then later at their famous Scorpion mine in Kenya. **Bruce** placed some of the largest and finest Tsavorites in the world in the onsite display case so that



Tsavorite crystals from the storied Bridges Scorpion Mine. Photo: Jim Parrish.

attendees could be within inches of these extraordinary gemstones. While discussing the recent marketing term “Merelani mint garnet,” **Bruce** mentioned that their Tsavorite mines have always produced this paler colored material, which was previously difficult to sell.

Everyone present knew of the tragic death of **Campbell Bridges** in Kenya in 2009. At times, it was obviously difficult for **Bruce** and **Judith Bridges** to maintain their composure when discussing **Campbell** during their presentation, but every person in the audience was pulling for them to continue. It was an emotional and historic moment.

Gemologist **Stuart Robertson** is Research Director of GemWorld International’s GemGuide, the leader in market information on gemstone valuation. He discussed Tanzanite price trends, mentioning some factors that tend to limit the price range for Tanzanite. Large stockpiles of Tanzanite in India enter the market when prices rise. When Tanzanite prices begin to approach blue Sapphire prices, buyers tend to purchase Sapphire instead of Tanzanite. Forecasting of future trends was also discussed.

Gemologist **Shane McClure** is global director of identification services for **GIA**. He presented a discussion of treatments and imitations of Tanzanite and Tsavorite. Heating of Tanzanite is a common practice, but there are other treatments, as well.



Natural zoisite crystals and faceted stones ranging in color from straw yellow to the blue violet of Tanzanite. *From left to right:* 111.83 ct pink tanzanite crystal; pink/purple oval cut tanzanite, 4.49 ct. Blue tanzanite crystal, 61.0 ct; oval cut tanzanite, 4.03 ct. 69.95 ct yellow tanzanite crystal; 3.91 ct oval cut yellow tanzanite. Courtesy of Steve Ulatowski, New Era Gems. Release #3. Photo: Robert Weldon/GIA.

Tsavorite, however, is rarely treated. Some of the imitations of these gemstones which have appeared in the market over the past several decades was also discussed.

Dr. George Rossman is Professor of Mineralogy in the Division of Geological and Planetary Sciences at the **California Institute of Technology** in Pasadena. A speaker at every Sinkankas Symposium since the annual event’s inception, **Professor Rossman** always closes with a recap of the other speakers’ presentations. He provides interesting perspective on questions and notable points raised during the day. His signature topic is causes of color in gemstones.

On the subject of color in Tanzanite, **Professor Rossman** agreed that vanadium plays a major role as the color-causing component, but he questioned the conventional wisdom that it results from intervalence charge transfer from titanium to vanadium during heating. However, he lacked a supply of brown unheated zoisite to investigate further.

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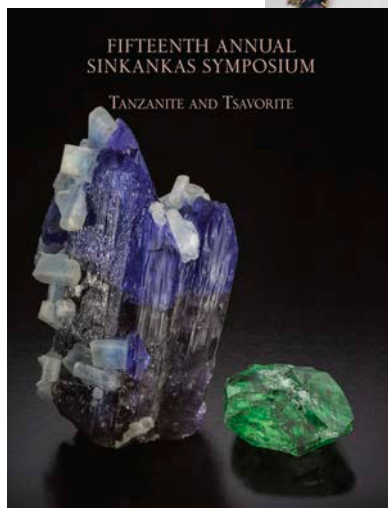
GIA has provided the venue for all 15 of the annual symposia. A supremely professional team of unsung heroes always ensures everything goes flawlessly, and this year was no exception. **Dona Dirlam**, recently retired from **GIA**, lent a guiding

hand, with **Caroline Nelms** and **Kate Donovan** handling most of the logistical details. **Mr. Robert Weldon** was the inimitable master of ceremonies, taking over the hosting role of **Roger Merk**, who passed away in 2015. **Roger** was inspired to create the annual symposium in honor of his friend **John Sinkankas**, and now the event is as much a special remembrance of him as it is for the eponymous honoree.

Special thanks to **GSSD's** volunteers who helped with registration and to **James Porter**, especially, who was treasurer of the event.

The conference proceedings were produced by **GIA** staff under the direction of **Stuart Overlin**, with **Jennifer-Lynn Archuleta** in the role of Associate Editor, design by **Faizah Bhatti**, and production by **Juan Zanahuria**. Most of the photographs were made by **GIA's Robert Weldon**, and **Pala International's Mia Dixon**, with photomicrographs by **Nathan Renfro**. **Lisbet Thoresen** helped with promotion and other support.

Bill Larson, President of **Pala International**, has been the event's biggest booster from the very beginning. Tapping his huge Rolodex, Bill drafts most of the speakers and always underwrites a significant portion of travel expenses and event costs, including the speaker dinner. Indeed, there would be no



symposium without **Bill**. Thanks to **Bob** and **Orassa Weldon** for hosting the speaker dinner this year. It was the perfect ending to a perfect day.

The **Sinkankas Symposium** has become a world-renowned event. Co-sponsorship with the **GIA** has enhanced its fame, along with the program of expert speakers. The gem theme for the **16th Annual Sinkankas Symposium** in 2019 will be **Pearl**.



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.

June 23, 2018

Himalaya Mine – Fee Dig – 10am to 4pm, meet at 9:30am

Materials: Pink and green tourmaline, black tourmaline, quartz crystals, spessertine garnet, lepidolite, clevelandite, and a variety of others

Sponsor: Conejo Gem & Mineral Society

Contact: Adrian Ruiz, 805-512-3383

Sign-up (required) & details online: whoscoming.com/vgms

July 26 – 29, 2018

Davis Creek

Material: Obsidian

Sponsor: CFMS-North

Contact: Dick Pankey, 925-439-7509 or dickpankey@juno.com (preferred)

64th Annual Palomar Gem and Mineral Club's

Gem, Mineral & Jewelry Show

Saturday June 9, 2018 10am - 5pm
Sunday June 10, 2018 10am - 4pm

California Center for the Arts, Escondido
340 N. Escondido Blvd
Escondido, CA

Admission \$5 for Adults
Children 12 and under FREE

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- Gem Identification
- Lapidary Art Demos
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Details at: www.palomargem.org

PALOMAR CLUB GEM & MINERAL SHOW **June 9 & 10, 2018**

California Center for the Arts
340 N. Escondido Blvd.
Escondido, CA 92025

by Dawn Vickers

A LITTLE KNOWN HISTORY of San Diego County is its mining history. In the gem and mineral world, San Diego is famous for its gem mines that produce tourmaline, garnets, morganite (a stone named after J. Pierpont Morgan), kunzite (named after George Kunz, mineralogist and buyer for Tiffany and Co.), and other gems. The **Palomar Gem and Mineral Club** honors that mining history with its **64th Annual Gem, Mineral, and Jewelry Show** at the prestigious California Center for the Arts, Escondido 340 N Escondido Blvd, Escondido, CA 92025.

Beautiful mineral specimens, cut gems, gem rough, fossils and eye catching jewelry made from gems and minerals may be purchased. Demonstrators will be showing their skills to attendees and giving them the opportunity to learn about some of the lapidary arts promoted through our club, including faceting, silversmithing, and other arts. There will also be Gem Identification. Find out what gem is in the ring your grandmother gave you. There will even be a rock treasure dig for kids. **Hours are Saturday June 9 from 10am – 5pm and Sunday June 10, 10am – 4pm.**

Escondido is a gateway to the Southern California Gem mining districts of Pala and Mesa Grande.

Tourmaline there was first found by local children in the Mesa Grande area. They brought it to the Mesa Grande store and traded it for marbles or candy. The Himalaya mine was founded. In the very early part of the last century, large amounts of tourmaline were found. Much of it was sold to the Dowager Empress of China for carving. More recently, the Pala District and Mesa Grande have continued to produce tourmaline and other pegmatite minerals.

The **Palomar Gem and Mineral Club** promotes the interest in all minerals that come from mining in our area and around the world. Attendees to our show will see minerals from around the world.

We have monthly meetings, often with a speaker educating our members and guest on some aspect of gems and geology. Our show is our major fund raising event for our club to help fund our lapidary shop for our members. At our shop, which is equipped with gem cutting equipment, we offer classes on how to cut gems to bring out their greatest beauty. Once you have cut a gem, you can set that stone in a silver setting that you made in one of our silversmith classes.

For more information about our club, visit our website at: www.palomargem.org.

ON THE GO ... TO A SHOW



JUNE

8–10 LA HABRA, CA

North Oange County Gem & Mineral Society

(NOC) 2018 Show

Venue: La Habra Community Center

101 W. La Habra Blvd., La Habra, CA 90631

Hours: Fri 5:00– 8:00pm;

Sat and Sun 10:00am – 5:00pm

Admission: Free.

Contact: Armando Perdoza,

forestandson@yahoo.com

Web: www.nocgms.com

Exhibits, prizes, unique rocks, gems, jewelry.

Tools, geode cutting, Kids' grab bags.

9–10 ESCONDIDO, CA

Palomar Gem & Mineral Club

64th Annual Gem, Jewelry & Mineral Show

Venue: California Center for the Arts

340 N. Escondido Blvd., Escondido, CA 92025

Hours: Sat 10:00am – 5:00pm;

Sun 10:00am – 4:00pm

Admission: Adults \$5.00; Kids 12 and under

Free with paid Adult admission.

Parking: Free.

Contact: Dawn Vickers, dawnjvickers@gmail.com

or 760-415-3806

Web: www.palomargem.org

Dealers selling gems, rock rough, finished stones, jewelry, findings and supplies, beads, other rock related products. Free gem identification, lapidary and jewelry demonstrations, educational displays.

9–10 GLENDORA, CA

Glendora Invitational Gem & Mineral Show

Sponsor: Glendora Gems & Mineral Society

Where: Goddard Middle School Gymnasium

859 E. Sierra Madre, Glendora, CA 91741

Hours: Sat, 10:00am–5:00pm

Sun, 10:00am–4:00pm

Admission: Free.

Contact: Bonnie Bidwell, 626-963-4638

or Ybidwell@aol.com

23–24 CULVER CITY, CA

57th Annual Fiesta of Gems

– Jade is the featured gem

Sponsor: Culver City Rock & Mineral Club

Where: Culver City Veterans Memorial Aud.

4117 Overland Ave., Culver City, CA 90230

Hours: Sat 10:00am–6:00pm;

Sun 10:00am–5:00pm

Admission & Parking: Free.

Contact: Janice Metz, 310-850-4398

Website: www.culvercityrocks.org/fiesta.htm

Club displays and exhibits, Kid Zone, craft demonstrations, book sales, tool dealers, 30+ gem and jewelry dealers, free hourly door prizes, grand prize raffle.

JOHN E. GARSOW

gems & minerals

June 9–10

Glendora Invitational

Gem & Mineral Show

Glendora, CA 91741

Goddard Middle School Gym

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AUGUST**3–5 NIPOMO, CA****51st Annual Rainbow of Gems Show****Sponsor:** Orcutt Mineral Society**Where:** Nipomo High School

525 Thompson Avenue

Hours: Fri-Sat 10am – 5pm, Sun 10am – 4pm**Admission & Parking:** Free. (No pets, alcohol, or tobacco).**Contact:** Sylvia Nasholm, 805-481-0923or sylvianadon@cs.com**Web:** www.omsinc.org

Sixty dealers inside and outside; displays and lapidary arts demonstrations. Barbeque on Saturday at 5:30pm; Treasure Chest drawing on Sunday at 3pm. Kids' activities, Treasure Chest, Gold Prospectors, and great food.

4–5 SAN FRANCISCO, CA
**64th Annual Golden Gateway To Gems,
Gem & Mineral Show and Sale – show
theme: Gems & Minerals of the Far East**
Sponsor: San Francisco Gem & Mineral Society**Where:** San Francisco County Fair Building (Hall of Flowers)

9th Avenue & Lincoln Way, Golden Gate Park

Hours: Sat 10am – 6pm; Sun 10am – 5pm**Admission:** Adult \$10.00; \$2.00 off for Seniors & Students with ID. Children under 12 Free (with paid adult).**Contact:** Ellen Nott, ellen_nott@yahoo.com**Web:** www.sfgemshow.org

Dozens of gem, mineral, and lapidary dealers. Dozens of exhibits showcasing collections and work by society members. One free Door Prize Ticket w/ each entry ticket purchased; purchase additional raffle tickets at the information table inside the show. Winners must be present claim a door prize when ticket numbers are announced. Live demonstrations in lapidary arts and jewelry fabricating techniques, and free lectures with renowned experts on many topics of interest in the gem and mineral world. Rock, Mineral and Gem Identification courtesy of The Bay Area Minerologists (BAM).

18 CHICO, CA**CFMS Convention Registration Deadline**

Registration form: www.cfmsinc.org/shows/2018_AdvanceRegistration_FeatherRiver.pdf

18–19 TEHACHAPI, CA**TVGMS Annual Show****Sponsor:** Tehachapi Valley Gem & Mineral Society**Where:** Tehachapi Senior Citizen Center
500 East F Street, Tehachapi, CA 93561**Hours:** 9am – 5pm daily (tentative)**Admission & Parking:** Free.**Contact:** Chuck Overall, 661-821-4650or luckydog5433@aol.com; Ronald Myrick,661-972-1117 or tehachapivgms@outlook.com**Web:** www.tvgms.org

Very rare and hard-to-find material to common rough, slabs, cut and finished, mineral specimens, crystals, fossils, cabochons, jewelry, raffle. Approximately 20 vendors, spinning wheel with great prizes, Mountain Fest.

SEPTEMBER**14 CHICO, CA**
**79th CFMS Convention Vendor and CFMS
Guest Dinner**
Time: 3:30pm**15–16 CHICO, CA**
**79th CFMS Convention and
FRLMS Annual Show**
Sponsor: Feather River Lapidary & Mineral Society**Where:** Silver Dollar Fair Grounds
2357 Fair St., Chico, CA 95928**Hours:** Sat 9:30am – 5pm; Sun, 9:30am – 4pm**Admission:** Adults \$4, under 16 Free.**Contact:** John Scott, 530-321-6331or jweazel@sbcglobal.net**Web:** featherriverrocks.org

CFMS flyer: www.cfmsinc.org/shows/2018CFMS_Convention_at_FRLMS_Show.pdf

Jade, opal, rough rock, crystals, fossils, minerals, jewelry, and beads, demonstrations in wire wrapping, jewelry making, rock carving and painting, and geode cutting, display cases, kids' wheel of fortune, treasure hunt, grab bags, fossilized shark tooth necklace for the first 250 kids both days.

West Coast Gem & Mineral Show

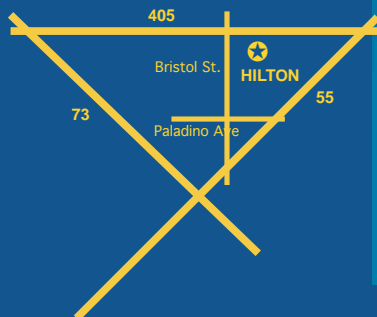
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SDMG BOARD MEETING HIGHLIGHTS

May 21, 2018

In attendance: President Jim Parrish and Board members Andy Anderson, Bob Hancock, Rocio Bergum, Ellen Riceman, Anne Schafer, Doug Peeler, Jill Williamson, Jennifer Stapp, Tim Bickford, Paul Williams, Donna Beers, Lois Lukasky, Dee Smith, Dave Smith. **Absent:** Adriana Zulewiski. **Guests:** Letty Evans, Melissa Ordway. A quorum was present.

Excused: Shirley Leeson, Sally Parrish, Wayne Moorhead, John Kruzel. **Absent:** Adriana Zulewiski.

Guests: Letty Evans, Melissa Ordway.

Membership: Total membership in SDMG as of this date is 810, including 77 Junior members.

General Meeting: Jim Parrish reported that the juniors will be the hosts of the May meeting, the speaker will be Aaron Lui. Aaron is a junior member of SDMG and he won first prize at the Science Olympiad. The speaker for the June meeting will be Gerry Alvarado, and it will also be Pie Night. Everyone attending is encouraged to bring their favorite pie on Monday June 25th.

Mineral Division: Jim Parrish reported that the next meeting date is TBD.

Museum: Jim Parrish reported that he purchased two specimens for the museum. The first is a Campo Meteorite for \$70, and the second one is a nice Creedite specimen from Mexico for \$200. A motion was made to buy the Campo meteorite and the Creedite crystal for the museum for \$270 and was passed by the board.

Spanish Village: Jim Parrish reported that the parking lot closures for the back lot are: June 9–10, October 6–7 and 13–14, November 10–11, and December 7–9.

Juniors: Dave Smith reported that there were five students last week (5/19), and things are going well. The juniors will be running the sandbox at the Fair on June 28th and July 3rd. Aaron Liu will be giving a presentation on minerals at the General Meeting on May 28th.

School Director: Wayne Moorhead reported via email that only about half the regular classes will be

held over the summer. The new Titan units have been installed, a new Covington Arbor and splash pans have been installed by Randy Welborn. A new shop vac has been purchased. Paul Williams replaced the motor on the sphere machine and a switch on the slab saw.

School Liaison: Bob Hancock reported that the Wednesday faceting class is full. A motion was made to allow Bob Hancock to take the V5 faceting machine to the 2018 SD County Fair for demonstrations; it was passed by the board.

Librarian: Donna Beers reported that we have had some complaints about the tables and chairs in the classroom being uncomfortable. Jim Parrish reported that he received a donation for the library of a pamphlet from 1905 from the San Diego Gem Company.

Donations: (1.) Jim Parrish reported that we received a donation from Eve Anderson of seven boxes of minerals. (2.) Anne Schafer reported that we received a donation of \$325 from Jason Brockman and a donation of a carving from Erin Savitch.

December Nights: Jim Parrish reported that he is getting donations together for 2018 December Nights.

BBQ: Doug Peeler reported that 173 people registered for the Silent Auction.

SD Fair: Anne Schafer reported that the set up for the fair is almost done.

Gem Diego: Jim Parrish reported that we need to find a venue for the 2019 show.

New Business: A motion was made to raise membership fees to \$32 for electronic renewals, and \$35 for renewals after September 1st and was passed by the board.

A motion was made and passed by the board to recognize the San Diego Mineral & Gem Society officers as Jim Parrish –President; Anne Schafer – Treasurer; and Ellen Riceman – Secretary.

(Any member may attend Board meetings. The next one is June 18, at 7 pm in the SDMG Building.)



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A Non-Profit Educational and Scientific Organization

Membership Information:

Interested in minerals, fossils, lapidary, gems,
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Adults (18 and older): \$30.00

Second adult, same address: \$10.00

Junior (under 18): \$10.00

Membership application forms
are available on-line at www.sdmg.org,

and at the Village Silversmiths Shop
in the SDMG Building,

or by contacting the SDMG Membership Secretary
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

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WEBSITES

SDMG:

www.sdmg.org

CFMS:

www.cfmsinc.org

AFMS:

www.amfed.org

PUBLIC LANDS:

www.amlands.org

BLM:

www.ca.blm.gov

BOB'S ROCK SHOP:

www.rockhounds.com

ROCKHOUND FORUM:

groups.yahoo.com/neo/groups/la-rocks/info



SUMMER CLASS SCHEDULE – 2018

GRAYED OUT Classes will not be held in July or August.

Cabochon class is a prerequisite to all other classes. You should attend 4 consecutive weekly cab classes to get the most out of the instruction. Fee is \$20.00 for 4 weeks, payable at your first class, cash or check only. **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>

CABOCHONS	Tue	6 – 9pm	Tim Bickford
	Wed	9 – 11:30am	Jim Claypool
	Wed	12:30 – 3:00pm	Jim Claypool
	Wed	6 – 9pm	Nita Sani
	Thu	7 – 9pm	Jon Evans
FACETING	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
BEG. METALS FABRICATION	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
	Sun	5 – 8pm	Dee Smith
ADV. METALS FABRICATION	Tue	7 – 9pm	Al Fuente
	Wed	9am – 3pm	Denny Turner
	Wed	9am – 3pm	Jackie Leverone
	Thu	7 – 9pm	Ellen Riceman
	Fri	9:30am – noon	Dee Smith
	Fri	12:30 – 3:00pm	Dee Smith
	Sat	4 – 7pm	Stephanie Griffin
CASTING	Mon	1:30 – 7:00pm	Rocio Bergum
	Tue	9am – 2pm	Dave Smith
	Fri	5 – 7pm	Rich Yarbrough
STONE SETTING	Mon	by appointment	Miguel Asmar
ROCK CARVING	Mon	9am – 1pm	Jan Kunsu
SPHERE MAKING	Sat	1 – 3:30pm	Paul Williams
JUNIORS	Sat	10am – 1pm	Dave Smith
DESCRIPTIVE MINERALOGY	Wed	6:30 – 9pm	Doug Peeler

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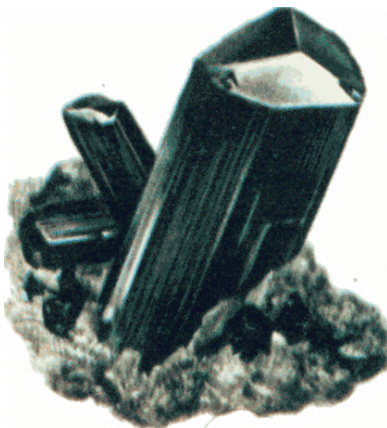
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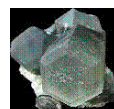
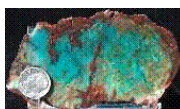
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San Diego Mineral & Gem Society, Inc.

A Non-Profit Educational and Scientific Organization

1.) Make Check Payable to: **SDMG** 2.) Send Application + Check to:
San Diego Mineral & Gem Society, Inc.
attn: Angela Cannon
P.O. Box 710783
Santee, CA 92072

MEMBERSHIP APPLICATION/RENEWAL

Check on the membership classification/s you are applying for (check as many as apply):

Adult **Associate** (Adult in same household as primary Adult member) **Junior** (Ages through 17)

Last Name: _____ First Name: _____

Associate Name: _____ (First and Last Name, if different from primary adult member)

Junior Name (1): _____ Junior Name (2): _____

Address: _____

City: _____ State: _____ Zip/Postal Code: _____ (+ 4 digit suffix)

Phone: _____ eMail: _____

I, the undersigned, hereby apply for membership in the San Diego Mineral and Gem Society, Inc. As a member, I will participate in SDMG activities and will help to promote knowledge of and interest in minerals, fossils, lapidary, and related subjects.

SIGNED: _____ DATE: _____

Membership dues for the period beginning July 1 and ending June 30. Dues Schedule:

\$30 – annual dues for ADULT member, anyone 18 or older.

\$10 – annual dues for ADDITIONAL ADULT (Associate) member at same address. Additional adult member will have the right to enroll in lapidary classes.

\$10 – annual dues for JUNIOR member, ages through 17. Entitles Junior member to enroll in Saturday Junior class and attend other Juniors' activities.

Optional – ADD \$10/yr. for each mailing address for which you would like a printed bulletin mailed via USPS.

The Pegmatite, SDMG's bulletin is published monthly September through June. To receive it, members should join our mailing list at: <http://tinyurl.com/qy85geq> (short url). The **eNewsletter** goes out on or about the first of every month. It contains the link to the PDF version of **The Pegmatite** online. (Sign-up is a two-step process: you'll get a confirmation email from our bulk mail provider asking you to verify that you want to join **SDMG's** list – just click the link in the message body to complete the process. If you don't, you won't get our emails.)

In addition to adding your name to the newsletter list, you may also add your name to other topic-specific lists that interest you. From time to time, we send out time-sensitive notices or reminders about a forthcoming event or activity.

Your membership in **SDMG** continues to be the best deal in town, and we hope that you will agree. When you mail in your check, please note any corrections to your area code, address and include your zip+4 on your check. Please write "NO EMAIL" on your check, if you do not have an e-mail address.

You can fill in the form, then print it out, or you can print it out, fill in the form manually, and send it in with your check. Alternatively, you can bring your completed membership form and your annual dues to your first class (cash or check only).

If you need help with your renewal or have any additional questions, please contact the membership secretary via email at: membership@sdmg.org.



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1770 Village Place, Balboa Park

San Diego, CA 92101-1651

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

ADDRESS SERVICE REQUESTED



THE PEGMATITE – JUNE 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	28	29	30	31	1 First Day - SD Fair 4-11pm 	2
3	4 GSSD Mtg 7pm, SDMG bldg	5	6 SD Fair Exhibitor Appreciation 6-9pm 	7	8	9
10	11	12	13	14	15	16
17	18  SDMG Board Mtg 7pm, SDMG bldg	19	20	21	22	23
24	25  SDMG General Mtg 7pm, SDMG Bldg	26	27	28	29	30