Bulletin of the Mineralogical Society of Southern California

Volume 98 Number 7 July, 2025

The 1,040th meeting of the Mineralogical Society of Southern California

With Knowledge Comes Appreciation

A ZOOM Meeting

July 11, 2025, at 7:30 P.M.

***Program:* "Bob Jones, A Life to Celebrate" Presented by Evan Jones**

In this Issue:

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

Program: Bob Jones: A Life to Celebrate" Presented by: Evan Jones

Bob & Evan Jones

Author, educator and collector Bob Jones is a legend among mineral collectors and rockhounds. Bob's mineral stories and exploits are well documented in his Rock & Gem articles and numerous lectures. However, in this presentation, Bob's son Evan documents aspects of his father's family life from the very beginning. In the words of famed radio host Paul Harvey, this is "the rest of the story."

Longtime mineral collector and dealer Evan Jones, son of well-known author Bob Jones, started collecting minerals at age 9 and with his father visited museums, attended mineral shows, went on collecting trips and visited mineral dealers from an early age. A graduate of the geology program at ASU in Tempe, Arizona, Evan has been a full time mineral dealer since 1986 and is currently co-owner of the fine mineral dealership Unique Minerals, Inc. Evan has attended every Tucson Gem & Mineral Show since 1981 and won several awards including Walt Lidstrom, Miguel Romero and Dick Bideaux trophies. He has written articles for Mineralogical Record, Rocks & Minerals, LAPIS, Mineralien-Welt magazines and given talks around the country on the subject of Arizona and Mexican minerals, mines and history and recently was awarded the Best Article of 2021 in Mineralogical Record magazine by Friends of Mineralogy for his article on the Milpillas Mine in Mexico. His collection of Arizona minerals is considered one of the finest in the world.

How to Join our ZOOM Meetings

MSSC members are automatically included in the invite list each month.

For non MSSC Members who want to attend this meeting. You must respond to our Programs chair, Carolyn Seitz speakers@mineralsocal.org. no later than the Thursday prior to the next scheduled meeting. Please include "*current month* ZOOM Meeting" in the subject line of your response. This response date will allow time for us to send you the information needed to participate in the ZOOM meeting.

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From the Editor: Linda Elsnau.

Wow, the year is officially half gone! Happy July 4th to one and all.

It's been quite a year so far, and let's hope the rest of 2025 is less stressful. July is off to a good start with an interesting program and a national holiday.

I'm again requesting articles from our membership to help keep our Bulletin interesting. How did you become interested in minerals? What is your favorite mineral? What interesting field trips have you been on? Have you been to any interesting shows? Write a review. You can write a paragraph or two and a multi page article if you wish. Inclued picturs if you have them. We would love to see your answers here!

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From Our President : Angie Guzman

July 4, 2025

HAPPY BIRTHDAY, AMERICA!

I'm going to celebrate USA's Birthday by honoring her Independence! As part of my commemoration, I will hold and cherish the freedoms this country enjoys. I offer a huge THANK YOU to our forefathers for their intuitiveness in the framing of our Declaration of Independence, their belief in the United States of America as a nation and for their courage and authority in passing this doctrine to the citizenry. This document together with the Constitution of the United States of America, ensures our sovereignty and, thereby, **our freedoms which endure today.** And, to all those who've safeguarded those freedoms since 1776, my deepest gratitude. Happy 249th Birthday, America!

♦ ♦ ♦

Did you hear what happened to Lithium?
He was arrested for *battery charges*!

What is the difference between a drunken brawler and a lithium chloride power cell?
One is charged with assault and battery and the other's a battery charged with salt.

https://jokojokes.com › cation-jokes.html

♦ ♦ ♦

The Element and the Mineral

The Element, Vanadium

Rarely found in nature, atomic number 23, **vanadium**, (V) is a hard, silvery-grey malleable transition metal. Discovered in 1801 by Spanish-Mexican scientist Andres Manuel del Rio. Del Rio was analyzing compounds of vanadium from a new lead-bearing mineral he referred to as "brown lead." He found that the elements' salts exhibited a wide variety of color and as a result named it *panchromium*. Later, he renamed it *erythronium* because most of the salts turned red after heating. He was erroneously convinced by French scientist Collet-Descotils that the compound was actually chromium. On top of that, a friend of del Rio, Baron Alexander von Humboldt, corroborated Collet-Descotils' erroneous claim. Wow, a setback for del Rio! In 1830, however, Swedish chemist Nils Gabriel Sefström generated chlorides of vanadium, thus proving there was, in fact, a new *element*, not a new mineral. Sefström named it "vanadium" after the Scandinavian goddess of beauty, Vandís (Freyja). In 1867 Henry Enfield Roscoe produced the metal by reduction of vanadium (II) chloride with hydrogen. In 1927 pure vanadium element was produced by reducing vanadium pentoxide with calcium. Meanwhile and in a weird twist, del Rio's "brown lead" was named vanadinite, but more on that later.

Large-scale industrial use of vanadium was in the steel alloy chassis of Ford's Model T. Vanadium steel allowed reduced weight while increasing tensile strength in 1905. Vanadium was mined by American Vanadium Company in Peru at Minas Ragar. Just so happened, there was a rising demand for uranium and one major uranium ore was carnotite which contains vanadium and, as such, became a byproduct of uranium production.

"Vanadium is an average-hard, ductile, steel-blue metal. It is electrically conductive and thermally insulating." Described as "soft," malleable (because it is ductile) and not brittle. It is harder than most metals and steel, has good corrosion resistance and is stable against alkalis and sulfuric and hydrochloric acids. It oxidizes in air at

933K (660 ° C, 1220 °F) although a passivation layer of oxide forms at room temperature (a shield against corrosion).

According to Wikipedia, vanadium occurs naturally in 65 or so minerals and in fossil fuel deposits. It's produced in China, South Africa and Russia from steel smelter slag at a combined world supply of 96% - China producing 70% of that! In other countries, it is produced directly from magnetite, flue dust of heavy oil or as a byproduct of uranium mining. Vanadium is used to produce specialty steel alloys. The most important compound, vanadium pentoxide, is used as a catalyst to produce sulfuric acid. The vanadium redox battery for energy storage may be an important application in the future.

There is a rising demand with much of the vanadium production now being sourced from vanadium-bearing magnetite found in ultramafic gabbro. If this titanomagnetite is used to produce iron, most of the vanadium goes into the slag and is then extracted from it.

Vanadium is found in bauxite, deposits of crude oil, tar sands, oil shale and coal. When oil products are burned, traces of vanadium may cause corrosion in engines and boilers. Black shales are also a potential source of vanadium.

Ferrovanadium or a steel alloy are approximately 85% of vanadium produced. Vanadium forms stable nitrides and carbides which results in significant *increase in strength of steel*. It is used in axles, bike frames, crankshafts, gears and other critical components. The two groups of vanadium steel alloy are high-carbon (contains 0.15-0.25% vanadium) and high-speed tool steels (HSS) (contains 1-5% vanadium). HSS is used in surgical instruments and tools. Powder-metallurgic alloys contain up to 18% vanadium with tools and knives being a few of the applications.

In the universe, the cosmic abundance of vanadium is 0.0001% making it nearly as common as copper or zinc. It is detected in light from the Sun spectroscopically and sometimes in light from other stars. Some mineral springs contain the vanadium ion in high concentrations. For example, the springs near Mt. Fuji contain as much as 54 microns per liter.

Ref: Wikipedia

The Mineral, Vanadinite

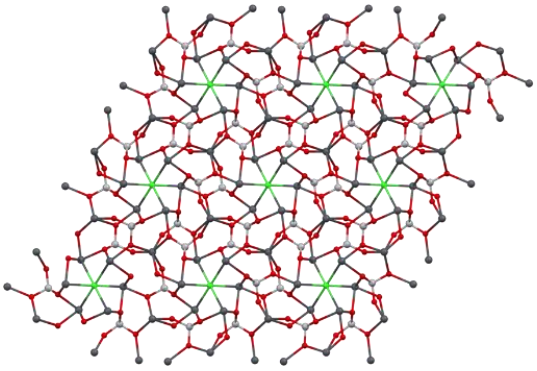
One of the main industrial ores of vanadium, plus a minor source of lead, is the **mineral**, yep you guessed it: **vanadinite.** Vanadinite belongs to the apatite group of phosphates and has the chemical formula $Pb_5(VO_4)_3Cl$. Its usual form is red hexagonal crystal. It is a dense and brittle mineral. It is formed by oxidation of lead ore deposits.

It was discovered in 1801 in Mexico by Andres Manuel del Rio (see above) and has since been unearthed in various places worldwide. The mines in Mibladen and Touisset (Morocco), Tsumeb (Namibia), Cordoba (Argentina) and in the United States of America, Sierra County, New Mexico and Gila County, Arizona are notable vanadinite mines of the 400 mines worldwide.

Interestingly, the uncommon mineral is actually a secondary mineral because it occurs as result of chemical alteration to pre-existing material(s). It's found in arid climates and forms by oxidation of primary lead minerals (ore deposits and galena). Associate minerals are wulfenite, limonite, cerussite, calcite, mimetite, barite and several other minerals.

Vanadinite is composed of lead (73.15%), vanadium (10.79%), oxygen (13.56%) and chlorine (2.50%). Structurally, each unit of vanadinite has one chlorine ion surrounded by six divalent lead ions at corners of a regular octahedron with one of the lead ions provided by an adjoining vanadinite molecule. The octahedron shares two opposite faces with that of neighboring vanadinite units forming a continuous chain of octahedrons. Each vanadium atom is surrounded by four oxygen atoms at the corners of an irregular tetrahedron. Three tetrahedrons adjoin each of the lead octahedrons along the chain. Is your head spinning yet? There will NOT be a test later!

Take a look at these images. They give the ball and stick model of part of the crystal structure of vanadinite. The color code is opposite, on the right. I hope it helps with the composition information I have here from Wikipedia.



Color code:

- Lead, Pb: dark grey
- Vanadium, V: light grey
- Oxygen, O: red
- Chlorine, Cl: green

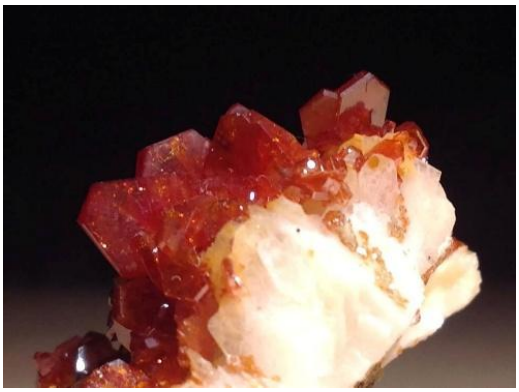
Public Domain images found on Wikimedia Commons: This work has been released into the public domain by its author, Benjah-bmm27. [Ben Mills]

Vanadinite is bright-red or orange-red but may present brown, red-brown, grey, yellow or colorless. It's popular among mineral collectors because of its distinctive color. The streak for vanadinite is either pale yellow or brownish-yellow. It may be translucent, transparent or opaque. Its luster ranges from resinous to adamantine. Vanadinite is anisotropic – some of its properties differ when measured along different axes. This mineral is very brittle, produces small conchoidal fragments when fractured and has a hardness of 3-4 on the Mohs scale. It is heavy for a translucent mineral and has a specific gravity of 6.6 to 7.2 because of impurities.

This mineral is a source of lead. It is one of the main industrial ores of the element vanadium along with carnotite and roscoelite. *To extract vanadium from vanadinite*, heat vanadinite with NaCl (salt) or Na_2CO_3 (sodium carbonate) at 850 °C to produce sodium vanadate. Dissolve the vanadate in water and treat with ammonium chloride to get the orange-colored precipitate of ammonium metavanadate. This is melted to form V_2O_5 (vanadium pentoxide). Reduction of the V_2O_5 with calcium gives you pure vanadium.

ELEMENT: Vanadium (V) Oxide

Public Domain Image: Wikimedia Common



MINERAL: Vanadinite (Morocco)

Public Domain Image: Wikimedia Common

Ref: Wikipedia

♦ ♦ ♦

MSSC's **FIRE VICTIMS FUND**

Now accepting tax-deductible donations by **check**, **money order** or **gift card**. This fund will remain open through September 30, 2025. Kindly visit **www.mineralsocal.org** for full details on how you can help. **THANK YOU**.

♦ ♦ ♦

Public Domain Image

COMING SOON: MSSC Officer and Director nominations and elections.

(October and November 2025)

♦ ♦ ♦

CONTRIBUTIONS WELCOME

Long ago, in the not-so-distant past, the **MSSC Bulletin** was chock-full of interesting tidbits contributed by various members. Over the years, the lack of contributions has made the Bulletin somewhat thin, for lack of a better term. Today, aside from the standard items and announcements about the upcoming speaker, the President's article, the minutes, Other Things to Do, CFMS shows, the back page list of officers and the rich history of MSSC, there doesn't seem to be contributions from *you*, the members of MSSC. Our current Editor has contributed articles on minerals and other informational mineral related items to help supplement the newsletter.

Here's an excerpt from MSSC Bulletin from February 2004 as written by the then Editor, Janet Gordon*: "…this is your bulletin, and the responsibility for its content rests with each MSSC member. Please send me your contributions, large or small, so that I can be an editor instead of an author…."*

It's simple. Have you seen a mineral lately? Was it on the ground, at the beach, in your yard, on another mineral, under a microscope, on your finger? Did you see an interesting documentary about minerals, mines, jewels or gems? Will you do a short write up about whatever it was and send it to our Editor? The catch: Linda's deadline is the 22nd of each month. So, actually, you have plenty of time. Thanks for reading this and thinking about it.

See you next time…

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MSSC Membership ZOOM Meeting Minutes, Friday, June 13, 2025

Welcome

President Angela Guzman welcomed 26 members and guests to the 1,039th membership meeting of the Mineralogical Society of Southern California. The meeting was called to order at 7:21 pm (it is MSSC's 61st Zoom conference meeting). No new guests were present.

Business:

Membership meeting minutes of May 9, 2025, as published in the June 2025 Bulletin: President Guzman asked for a motion for to approve the minutes. A motion was made by Tony K. and seconded by Bert V. Angie asked for any additions, corrections, or discussion; hearing none she called for the vote to approve the motion. The motion was approved on a voice vote.

Approved Mineral Species Update

According to the International Mineralogical Association (IMA) there are 6,145 approved mineral species as published on the New IMA List of Minerals, May 2025 (6151 from mindat.org) The IMA/CNMNC list is currently published every other month. Tony K. said he had just submitted his 400th new mineral, it is a uranium mineral.

Program

President Guzman turned the meeting over to our Speaker's Chair, Carolyn S. who introduced the speaker, Michael Cox. Michael Cox is known for bringing a Keyence digital microscope to micromineral conferences. Many take advantage of the instrument to collect depth-focused images of wee critters under study. Cox believes that the real power of digital imaging is collaborative inspection of samples. Unlike passing around a sample from one microscope user to the next, and trying to explain where to look, a digital scope feeds the virtual image to an LCD screen or projector and that allows simultaneous inspection and discussion. Digital instruments are also amenable to modifications, such as different light sources and analyzers.
Purpose and Background information

- He will demonstrate an industrial inspection microscope (commonly used to inspect integrated circuit packages).
- The purpose of a microscope is to make the invisible visible. Contrast (including relief) and resolution in a microscope are two reciprocal variables, meaning they work against each other. Many features of a digital microscope are analogous to a film camera. Knowing how these variables work together can produce a great photo.

The Differences - Digital versus a standard visible light microscope

- Eyepiece(s) replaced by camera sensor (CMOS)
- Telecentric (no change in magnification regardless of the object's position or distance from lens within the field of view)
- Software driven - computer controlled.
- Rapid acquisition - built in image stacking and stitching.
- Analytical functions - measure 2D and 3D (angles, areas, and perimeters)
- Finely tuned LED lighting

"Microscopes and their accessories are like potato chips ...It's really hard to have just one!"

Mike showed his original research workstation with at least 5 microscopes present. A digital microscope can replace many of these and simplify the process.
Why did I purchase the scope and for what? Mike provided a list of the features he used when buying his microscope: features, ease of use, versatility, productivity, visual scanning, imaging, measurement, and collaboration.

The purchase process
Mike provided this list of leading microscope makers and offerings.

- Evident (formerly Olympus Corp.) MX Series, DSX Series, and CX Series https://evidentscientific.com/en/material-science-microscopes/digital
- Hirox Co. Ltd, HRX Series https://www.hirox-usa.com/products/3d-digital-microscope/
- Keyence Corp. (TYO:6861) IM Series and VHX Series https://www.keyence.com/products/microscope/digital-microscope/
- Leica https://www.leica-microsystems.com/products/digital-microscopes/
- Nikon (bio focus) https://www.microscope.healthcare.nikon.com
- Phaos Technologies https://phaostech.com/product/pt-zoom/
- Zeiss https://www.zeiss.com/microscopy/us/products/light-microscopes/digital-microscopes.html
- Lots of economy makers and models, for example: https://microscopecentral.com/collections/video-inspection-microscopes?page=1

He said, *"buying a digital scope is like buying a car"* He negotiated over a period of 3-4 years to get the deal he wanted.

- Economy versus top-end models
- Pricing is an issue.
- Total cost of ownership is an issue.
- Ease of use
- Quality, durability, serviceability, and warranty

- Performance (resolution, color and shape accuracy, speed)
- Cost of ownership (parts, support, and obsolescence)
- Long-term viability of the maker

Mike turned to his own microscope for a live demonstration. He started with some green beads that might have been Jade. He demonstrated how to polarize the light to emit glare and reflection of the LED light source. The beads had gold-colored inclusions and upon closer inspection also contained circular air bubbles. He concluded that they are manufactured beads.
The second sample he examined was hoppered hyacinth quartz crystals from Spain. Looking closer you can see the crystal is etched. He demonstrated how the software can take many images and stack them to produce a 3-D view of the crystal. This took seconds! It can also produce a 3-D model of the crystal which can be moved about.
The scope has many lighting options; you can experiment to get the information you want. There are measurement tools.

The third sample was a nicer sample of the hyacinth quartz in matrix. He was interested in the surface pits on the terminations of the hoppered crystal. These pits do not show up in the nicer unetched quartz.

Next a sample of fused silica glass from the Kilauea volcano. He used the microscope to produce a stacked image of the bubbles in the sample at 200x.

The last sample is from the McDermitt Mine, it was a bright red orange terlinguacreekite. There were small crystals of kuznetsovite (a mercury mineral). Both minerals are UV light sensitive and will change color; the mineral color will revert when you store it in the dark. He switched to a higher power lens 100x to 1000x. Light is more critical at the higher magnifications. He took the view of the kuznetsovite up to 800x; you start to lose contrast and depth of field. He produced a stacked image at 700x that showed inclusions or aberrations that were not previously visible.

Findings and recommendations

- A high-quality stereoscope with digital camera and a good-quality Raman or table-top powder XRD is the better option for hunt and grunt mineralogy.
- The digital scope decision depends on use (application) and user (institutional versus individual)
- The Hirox system appears to be worthy of consideration: https://www.hirox-usa.com/products/3d-digital-microscope/
- The Keyence entry-level digital scope is useful for rapid image acquisition, inspection, and measurement.

Bonus slide: Microscope Education Resources

- Do a web search of "top microscopy education" and lots will come up.
- Nikon and Evident (Olympus) have online resources well liked by the author.
- Wish list: https://www.mccrone.com/hookecollege/
- A few favorites: https://www.microscopyu.com/ https://zeiss-campus.magnet.fsu.edu/
- https://evidentscientific.com/en/learn https://www.virtualmicroscope.org/
- http://www.microscopy-uk.org.uk/

Angie thanked Mike Cox and all in attendance. It was a fascinating talk.

President's Messages

- Angie sent MSSC's Fire Victims Fund flyer to ± 30 local societies and clubs and to AFMS. The flyer requests donations for the MSSC members/associates affected by the January 2025 firestorms that raged through Southern California. She said hopefully, we will have responses (and donations) to report at our next meeting. To make a tax-deductible donation, we accept personal checks, money orders and gift cards. If you submit a check, remember to make it payable to Mineralogical Society of Southern California (or MSSC) and, in the memo section, please indicate "Fire Victims Fund." The Last date to donate is September 30, 2025. Please go to our website for full details www.mineralsocal.org She said on behalf of these good people who lost their homes, and everything in them, thank you.

Announcements and Reports

- Field Trips update (Marek C.) Not present. David L. suggested we plan a visit to the LA Natural History Museum. Tony said we should contact Aaron Celestian, current curator.
- August Picnic (Rudy L.) Saturday August 24; 12-4. The sign-up sheet for food is coming soon (Leslie said she has the sign-up sheet updated). He said we have no materials for the raffle. Rudy will need volunteers to help set up on Saturday morning (8 am).
- October Prehistoric OC. Rudy has materials for kids.

Last Words:

- The next membership meeting will be at 7:30 pm on Friday, July 11, 2025, via Zoom. If there is someone you know who would like to attend, please notify Carolyn at treasurer@mineralsocal.org
- The next MSSC board meeting will be Sunday, July 20, 2025, at 1:00 pm via Zoom conferencing. Guests and visitors are welcome to attend. Please let Carolyn know at treasurer@mineralsocal.org.
- Administrative seats are open for the next term: President (2026 term) and Treasurer (2026 term) and one Director seat (2026-2027 term). Elections are held at the November membership meeting.
- Bert V. said he will be board member. We also need a President and Treasurer, or the society will have to disband.
- Angie thanked all for attending tonight's meeting. She said, your membership and attendance are much appreciated. See you next time!

Adjournment: President Guzman adjourned the meeting at 8:55 pm.

Respectfully submitted, Leslie Ogg, MSSC Secretary

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List of Upcoming MSSC Events : Mark your Calender!

Event	Date	Comments / Scheduled Program (if known)
Meeting Dates:	ZOOM August 8, 2025	John Rakovan: *Sakura Ishi* (Cherry blossom stones) from Kyoto, Japan: Mica pseudomorphs of complex cordierite - indialite intergrowths
	Zoom September12, 2025	TBA
	Zoom October 10, 2025	TBA
Board Meeting	ZOOM July 20, 2025	ZOOM at 1:00 PM
MSSC Picnic	Saturday, August 23, 2025	Great food & Silent Auction
Field Trip	*In The Works*	TBA.

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

The Ride Share Listing is being temporarily discontinued until such time as MSSC starts holding in-person meetings again.

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Mineralogical Society of Southern California (MSSC)
Board of Directors Approved Apr 6, 2025

FIRE VICTIMS FUND

For the benefit of MSSC members and associates who lost their homes during the January 2025 firestorms that ravaged Southern California.

- 100% of your *tax-deductible* donations will be shared equally with the fire victims:

Laura Davis **Keith Harshbarger**
Alexandria Dorozhkinsa **Ann Meister**
Alyssa Morgan

- Send checks, Money Orders or Gift Cards to:

MSSC
13781 Alderwood Ln, #22-J
Seal Beach, CA 90740

Make checks or Money Orders **payable to: MSSC**.

In the Memo section please write "Fire Victims Fund."

- *The deadline to donate is September 30, 2025.*

DONATE NOW while it's on your mind!

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MSSC Picnic 2025

Saturday, August 23, 2025

12:00-4:00 pm

Location: Tournament Park on the campus of CALTECH.
1200 E. California Blvd.
Pasadena, CA 91125

Our Annual picnic is just around the corner. Time to think of what to bring!
We will post the food signup sheet this month.
Silent Auction and raffle items are needed. I just picked up a donation from Kathy Carter. The Carter donation will be use for the picnic and our Kids Program. We will need a lot more to make the picnic a great success.

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Recap: CFMS Board of Directors Spring Meeting, Lancaster, CA May 9-11, 2025

(Note: these are notes from CFMS Board Meeting, May 2025)

1. **CFMS Convention Meeting** called to order by President Susan Chaisson-Walblom after presentation of the colors and verification of a quorum.
2. Executive Board put forth a proposal, which was made into a motion, to spend $1,000 for purchase of awards and trophies for various CFMS "contests" (achievement, bulletin, Rockhound of the Year, etc.). After discussion/questions the item was put to a vote. The motion passed by the majority with (1) No and (1) Abstain.
3. It was reported there were six (6) delinquent societies.
4. There was one (1) new member application approved: Hayward, CA.
5. Committee Reports:
   a) All American Club entries (2) and
   b) Bulletin Aids entries (28).
   c) Cab cases are available - at no cost - if you have a show and need them.
   d) Earth Sciences Studies: 65 people have already signed up for Camp Paradise (lapidary).
   e) Field Trip North: Topaz Mountain, Ut will be 9/5-9/28-contact Roseville Rock Rollers if you are interested in going at eugene.doyle@sbcglobal.net;
   f) Golden Bear Award: two (2) awarded, Tony and Sandie Fender for work on behalf of CFMS;
   g) Be sure your club has Director & Officer insurance;
   h) Junior Activities: Even if you only have 1 child in your club, that child can participate;

i) Next CFMS Convention will be November 2025 in Visalia;
j) No Newsletter for June 2025;
k) Public Lands: John Martin reports MTNM and Chuckwalla NM do allow "recreational rockhounding" including mineral collecting as neither management plan is finalized at this time;
l) Scholarships are still available for CFMS and AFMS (graduate students only);
m) Announcement: A Guzman of MSSC announced Fire Victims Fund established to help those who lost everything in the January 7, 2025, firestorms. Request for donations, flyers handed out.

The meeting was adjourned timely. The Board was invited to support the concurrent Antelope Valley Gem and Mineral Show. Reminder to attend the CFMS Banquet later in the evening.

CFMS Banquet was held at a local restaurant at which several certificates of achievement(s), ribbons, trophies and awards were presented to honor awardees of various competitions sponsored by CFMS. A few clubs had several entries in different categories. Two young rockhounds dominated and won competitions for the Juniors. Show display case awards were presented. The top winner was Sue Dekany, Pasadena Lapidary Society Secretary, who received the *Novice* Award and the *President's Award* for her display case exhibiting damage and effects of her mineral collection as caused by the Eaton Fire.

Submitted by
Angie Guzman, CFMS Director
Mineralogical Society of Southern California

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OC PARKS PREHISTORIC OC 2025 UPDATE

After careful consideration, we regret to inform you that Prehistoric OC 2025 has been cancelled. While we know this news may come as a disappointment, we want to express our deepest gratitude for your past participation and continued support.

Prehistoric OC has always been made special by the incredible contributions of vendors and exhibitors like you. Whether you've joined us once or have been part of our event for many years, your passion and expertise have helped us inspire thousands of visitors.

At this time, we do not yet have plans for a future event, but we will be sure to keep you informed should that change.

Thank you again for being a valued part of our community. If you have any questions or would like to stay connected, please don't hesitate to reach out.

Rudy Lopez

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OTHER (FREE) THINGS TO DO...by Ann Meister

The **Watson Lecture Series at Caltech is on hiatus until the Fall semester.** Watson lectures will return in October! Find past Watson Lectures on Caltech's YouTube channel.

The **Von Kármán Lecture** is on Thursday, **July ??** at 5:00 PM. Available live on YouTube at NASA Jet Propulsion Laboratory - YouTube. Date, speaker, and topic were not available at the time of publication. Check website for information and past lectures Lecture Series (nasa.gov). Previous lectures are available on YouTube.

The **UCLA Meteorite Gallery** is open to the public weekdays from 9 am to 4 pm and on Sundays from 1 to 4 pm when it is staffed with volunteer docents. Admission is always free. The monthly lectures seem to have been discontinued but the gallery is well worth exploring. Visit the website and check on events, videos, and other neat things including resources for teachers, Go to https://meteorites.ucla.edu

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With Knowledge Comes Appreciation

Calendar of Events:

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

No shows scheduled for July, 2025

August 1-3, 2025 – Nipomo, CA
Orcutt Mineral Society
Nipomo High School, 525 N. Thompson Ave.,
Nipomo, CA 93444
Hours: Fri & Sat 10 AM – 5 PM, Sun 10 AM – 4 PM
Website: www.oms-inc.org

August 16-17, 2025 – Tehachapi, CA
Tehachapi Valley Gem & Mineral Society
Tehachapi Senior Center,
500 East "F" St., Tehachapi, CA 93561
Hours: 9 AM – 5 PM both days
Website: http://tvgms.org

September 20-21, 2025 – Pasadena, CA
Pasadena Lapidary Society
Arcadia Masonic Center, 50 W. Duarte Rd., Arcadia
Hours: Sat 10 AM – 5 PM, Sun 10 AM – 4 PM
Website: https://pasadenalapidary.org/pls-2025-show/

September 20-21, 2025 – Monterey, CA
Carmel Valley Gem & Mineral Society
Monterey Fairgrounds, 2004 Fairgrounds Road,
Monterey, CA 93940
Hours: Saturday and Sunday 10 AM – 5 PM
Website: http://cvgms.rocks

September 27-September 28, 2025
San Luis Obispo Gem and Mineral Club
San Luis Obispo Veteran's Memorial Building,
802 Grand Ave., San Luis Obispo
10 AM to 5 PM both days
Website: Gems by the Sea – SLO Gem & Mineral Club

MSSC Advertisement Policy:
Mineral-related ads are allowable in the MSSC bulletin. Below is the price per month

Business Card	$5.00
One-third page	$10.00
One-half page	$20.00
Full Page	$35.00

In addition, any advertiser who purchases 12 months of space in advance will receive a discount of 12 months for the price of 10 months. The copy for the ads should be mailed to the editor at bulletin@mineralsocal.org and the payment should be sent to the
MSSC Treasurer 13781 Alderwood Lane, #22-J, Seal Beach, CA 90740

2025 MSSC Officers:

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President	Angie Guzman	*president@mineralsocal.org*
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2025--2026	David Lesperance	
2025--2026	Pat Stevens	
2024-2025	Pat Caplette	
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Field Trip	Marek Chorazewicz	
Historian	Ann Meister	
Hospitality	Laura Davis	
Membership	Linda Elsnau	*membership@mineralsocal.org*
Micro Mount Conf. Chair	Al Wilkins	
Program and Education	Rudy Lopez	*programs@mineralsocal.org*
Speaker Bureau	Carolyn Seitz	*treasurer@mineralsocal.org*
Webmaster	Leslie Ogg	*webmaster@mineralsocal.org*

About the Mineralogical Society of Southern California

Organized in 1931, the Mineralogical Society of Southern California, Inc. is the oldest mineralogical society in the western United States. The MSSC is a member of the California Federation of Mineralogical Societies and is dedicated to the dissemination of general knowledge of the mineralogical and related earth sciences through the study of mineral specimens. We are a scientific non-profit organization that actively supports those endeavors through public outreach, field study and related programs. The Bulletin of the Mineralogical Society of Southern California is the official publication of the Mineralogical Society of Southern California, Inc.

The MSSC meetings are usually held the second Friday of each month, January, February, and August excepted, at 7:30 p.m. in Building E, Room 220, Pasadena City College, 1570 E Colorado Boulevard, Pasadena, California. However, due to current health considerations, MSSC meetings are conducted via ZOOM conferencing until further notice**.** The annual Installation Banquet occurs in January, and the annual Picnic and Swap Meeting are in August. Check the Society website for details.

The Society also sponsors the annual Pacific Micro mount Symposium held at the Fallbrook Mineral Museum during the last weekend of January.

Annual Membership dues for the MSSC are $30.00 for an individual membership, $40.00 for a family membership. Bulletins are sent by email, there is an additional annual fee if you prefer paper bulletins mailed to your address. The Society's contact information:

Mineralogical Society of Southern California
13781 Alderwood Lane, 22-J, Seal Beach, CA 90740
E-mail: *treasurer@mineralsocal.org*
Website: ***www.mineralsocal.org*** **The Mineralogical Society of California, Inc.**

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MSSC Bulletin Editor
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To:

With Knowledge Comes Appreciation

Your MSSC Bulletin Is Here!