



Bulletin of the Mineralogical Society of Southern California

Volume 96 Number 6 –June, 2023

The 1,014th meeting of the Mineralogical Society of Southern California

With Knowledge Comes Appreciation

A ZOOM Meeting

June 9, 2023 at 7:30 P.M.

Program: Mars Update; Mars 2020 Perseverance Rover, Specifically:
Presented by Kathryn M. Stack

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

About the Program: Mars Update; Mars 2020 Perseverance Rover, Specifically: Presented by Kathryn M. Stack

Katie Stack Morgan is a research scientist at the Jet Propulsion Laboratory in Pasadena, CA, the Deputy Project Scientist of the Mars 2020 Perseverance rover, and a mission scientist on the Mars Science Laboratory Curiosity rover mission. Originally from Cheshire, Connecticut, she graduated with a B.A. in geology and astronomy from Williams College in 2008 and earned her M.Sc. and Ph.D. in geology from Caltech in 2011 and 2015, respectively. For her work on the Curiosity rover, she was named to Forbes' list of 30 under 30 and has earned several NASA Group Achievement Awards, a NASA Software of the Year award, and a NASA Early Career Public Achievement Medal. Katie's research focuses on the Martian sedimentary rock record, using orbiter and rover image data to understand the evolution of ancient surface processes on Mars.



How to Join our ZOOM Meetings by Rudy Lopez

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

For non MSSC Members who want to join this meeting. You must respond to our Programs chair, Rudy Lopez at programs@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 and also will allow time to get everything organized.

From the Editor: Linda Elsnau.

Another interesting program to look forward to this month, Thank you Rudy. A picnic to look forward to and (hopefully) wonderful June weather. Don't forget to send your letter to the BLM to help keep field collecting locations available. Have a great Father's Day and we'll see you next month.

From Our President, Angie Guzman

Welcome to June 2023! Hope your May was spectacular! These past few weeks have been challenging. As you know, we are in the middle of the big push to reopen the Mojave Trails National Monument for collecting. MSSC member, Gregor Losson, has tirelessly worked on this project for many years and he's supplied many of us with *a lot* of information. Bottom line, the June 20th deadline is quickly approaching. Please submit your essential comments to the BLM at BLM_CA_NFO_MTNM_Planning@blm.gov (note 4 underscores). *We must make our case or risk losing the 1.6 million acres in which to do that.* Thank you.

DID YOU KNOW?

Protected Areas: Reading through the differences between federal, state, city, etc., parks, forests, wilderness areas, preserves, national monuments and beyond is mind boggling. There are cross management services, overlapping portions such as land to marine areas and so many rules and regulations with as many government agencies that it is painful just sifting through it all. It's no wonder there's confusion! Hope this helps a bit with *protected areas*.

National Preserve-California: National Preserves in CA are *protected areas* of the United States. They were established by Congress to protect resources often associated with national parks and where certain activities may be permitted (i.e., hunting and mining). There are 21 such National Preserves in California. They **do not allow rock (or plant) collecting or removal UNLESS under a special research permit**. For instance, think of the Mojave National Preserve as a living museum and everything should be left as you find it.

National Forest (U.S.): Forests and woodlands are classified as *protected* and managed federal lands. National Forests are owned collectively by the American people and managed by the U S Forest Service. There

are 154 National Forests in the US. In California, there are state forests (8), state parks (270), state wilderness areas (149) and many other state designated land areas. Unlike national parks, **forest products and natural resources removal is permitted and encouraged**. However, National Forests include 14 national monuments where resource *extraction is restricted*. There are conflicts between the environmentalists and others concerned for endangered species protection and with resource extraction companies and lobbies, such as logging and mining.

National Monuments-California: There are 131 *protected areas* in the U.S. known as national monuments of which 18 are located in California which is tied with Arizona for most in a state. National monuments are proclaimed by presidential designation under the 1906 Antiquities Act. Originally intended for: "...the protection of objects of historic and *scientific* interest." The national monuments are managed by either the National Park Service, Bureau of Land Management, the United States Forest Service or the Fish & Wildlife Service. **Currently, it is prohibited to remove any resource in a national monument.**
[extracted from Wikipedia and other resources]

IN THE FIELD

In 1929, *two years before* MSSC's first official meeting on June 23, 1931, Professor Edwin Van Amringe of Pasadena Junior College, led a field trip to Keeler, CA to tour Natural Soda Products plant. Consider the challenges; transportation by car for the 208 miles (one-way) from Pasadena to Keeler in Inyo County (on the eastern side of Owens Lake) must have been long and difficult. Food, clothing and tools probably took up much of the vehicle's space. Despite the hardships along the way, this excursion fostered other field trips that followed.

On October 25, 1931, MSSC's first official field trip was made to the Crestmore Quarry of Riverside Cement Company. At the time, the Quarry was abundant with a variety of over 73 mineral specimens. The country was in the middle of the Depression, yet, 75 members and friends attended this momentous field trip, establishing the field study of minerals.

Over the past 92 years, just hearing of someone's field story could elicit wonderful memories of field trips and other excursions enjoyed by those who went on the trip. Then later, at a membership meeting, those in attendance would listen to the telling of tales and recounting of adventures. Finally, being able to see and touch the minerals and rocks for themselves in the "Show & Tell" segment brought joy, awe and a determination and desire to join in on the next field trip.

MSSC's Field Trip program has advanced since then and is thriving under Chair Marek Chorazewicz. We are all grateful for his thorough planning and attention to detail.

Over the past few years, he's led our members to exciting locations such as Ord Mountain, Blue Bell Mine, Palos Verdes coast line, Boron, Lead Mountain, Dish Hill, Calico, Yerington (NV), Rosamond, Red Cloud (CA), Randsburg, Topaz Mountain (UT), Tecopa (Death Valley) and Tick Canyon to name a few. Marek has more exciting adventures planned for us in the future.

Educators inspire their students to achieve beyond their expectations. Now, these men and women are facing a narrower and shrinking environment as modern technology pushes to replace the classroom and the "outdoor lab", vital in-the-field, hands-on study. By engaging our youth in more of these outdoor field trips, we can alleviate their suffering from their over reliance on technology.

WHAT YOU CAN DO NOW: Our next Membership meeting is June 9th at 7:30 p.m. **Invite one young person to attend that meeting.** Invite them to participate with others on a field trip or, see if they'd be interested to join us at the Picnic in August. I will ask someone. Won't you do the same?

DATES

June 14 is Flag Day

June 18 is Father's Day

June 20 is Public Comment deadline for MTNM

As always, thanks for your attention.

See you at our Membership Meeting **Friday, June 9, 2023 at 7:30 p.m. Bring a friend!**

MINUTES of the May 13, 2023 ZOOM Meeting

From the President (Angie Guzman)

1. President Guzman called the meeting to order at 7:33 pm and welcomed all present to the 1,013th membership meeting and MSSC's 36th via our ZOOM conferencing license. There were at least 28 people present for the meeting.
2. Guest introductions: there were a few guests, Beth Heesacker, from Oregon, a repeat guest, Maggie Zikrick (Angie's sister also from Oregon), and Janine Jones. There were other guests that did not identify themselves.
3. According to the latest IMA Commission of New Minerals, Nomenclature and Classification (CNMNC) Newsletter (#72) there are 5,941 approved mineral species. A couple of them from the United States are:

| Name and Mineral Symbol | Chemical Formula | Location found |
|-------------------------|---|---|
| Lasmanisite Lmn | Ag ₁₂ Pb ₁₃ Mn ₁₁ Sb ₄₄ S ₉₆ [gold, lead, manganese, antimony, sulfur] | Bear Basin Mines, Buena Vista Mining District in King County, Washington |
| Jimkrieghite Jkg | Ca(C ₂ H ₃ O ₃) ₂ [calcium [carbon, hydrogen, oxygen]] | Pusch Ridge, Santa Catalina Mountains north of Tucson, Pima County, Arizona |

A. Regular Business

Approval of the April 14, 2023, membership meeting minutes as published in the May 2023 Bulletin.

Motion to approve made by George Rossman and seconded by Carolyn Seitz. There were no corrections, additions, or discussion. The motion to approve passed.

B. Reports/Announcements:

1. Board approved picnic Ad Hoc Committee (Cheryl, Rudy, Simona and David): The picnic will be held at Tournament Park on the Caltech campus. We have reserved Saturday August 26, from 12-4pm. There are lots of tables, a BBQ area, running water, etc. The committee is making a list of needed items which will be published in June.
2. Programs (R. Lopez): Programs are booked for all of 2023.
3. Field Trips (M. Chorazewicz): Marek was not in attendance.
4. The next board meeting will be July 9, 2023, at 1pm via ZOOM. All are invited to attend.
5. The next membership meeting will be June 9, 2023.

C. Gregor Losson, Mojave Trails National Monument:

Gregor told us how he got involved in the Desert Advisory Committee (DAC), Mojave Trails subgroup. He showed some maps of the MTNM that highlighted the many mountain ranges in the area, and a number of important mineral collecting areas. The comment period is open now, until June 20, 2023. There is a virtual meeting on May 24th which might give us more information about what the BLM perceives as the right way to comment. There are also three in-person meetings where people can submit comments. The draft management plan will come out in the spring of 2024 for public comment, and the final plan will be published in the fall of 2024. We need to comment now, so that all of our comments are in the system and included in the draft plan. He also stressed that our rock collecting organizations need to comment because the partner organizations with the BLM have lots of pull, so the BLM will listen to comments from organizations such as clubs and universities.

These are some of Gregor's suggestions on how to be an effective commenter:

- “one of the most important things to think about when you submit a comment, is to think that the comment is a tool that lets the BLM help you.”
- “everything the BLM does has to be justified. They can't make decisions randomly because it won't be consistent with NEPA. So, the more detailed, ‘substantive’ is the word that they use, comment you give them the better chance you have, of them using your comment as a tool to help you allow rock collecting in the monument.”
- He said, “we need to teach the BLM what we do, with as much detail as possible.”
- “add anything that would establish a history of collecting sites, the access roads, anything that would establish the history of the activities.”
- “you want to add as much data information as possible. Any history: personal history of collecting or club history of collecting.”
- “any history of routes traveled within the monument, especially on the access road to your sites “
- “If you start to personalize these sites, to them, it's not just a line and a dot on a map.”
- “add things like field guide references, or you can scan or screenshot pages from field guides, photos of specimens from that locality, any kind of mineral data, geology, science or references to those any kind of history, magazine articles.”

Angie stressed, that if you are serious about being able to collect, get involved, make a comment(s). Other clubs and the state (CFMS) and national (AFMS) are also involved in the commenting.

D. Program Presenter Introduction Chair (R. Lopez). Rudy introduced the speaker, Bob Thomas, from Tennessee who will talk about a gold prospecting trip his grandfather made to Death Valley in 1906.

E. Program and Q&A of “Prospecting Death Valley by Steam Car in 1906” Presented by Bob Thomas.

- Brief family history- Bob’s grandfather, Edward Thomas was the youngest son of a tailor. In 1858 they moved to Leavenworth Kansas, “the edge of civilization”. The father died in 1893, which coincided with the worst economic depression the US had experienced. Nineteen-year-old Edward was obliged to help by taking a job at Marshall Fields. The wages were so poor that he soon quit and joined his brothers mining copper in the Arizona territory. The wages driving mules were better, and he soon bought a camera. Many of the photos in this talk were Edward’s.
- The Bomb Maker- Ed went to Independence, Colorado and became manager of the Whole City Mine in 1900 at the age of 23. Unfortunately, the town had labor troubles and a man named Harry Orchard working for the Western Federation of Miners was paid to set bombs in the town. He blew up a mine shaft, the train station, and the former governor of Idaho. He later confessed to working for the Union leadership and testified against them. They were all acquitted and Harry was sentenced to life in prison.
- Life in the year 1906- Bob took us on a tour of many of the important events that occurred in 1906. A few examples: Theodore Roosevelt was President, there were 45 states and 5 territories in the US, Mt. Vesuvius erupted, America had taken control of the Panama Canal and William Gorgus determined that mosquitos were causing malaria and yellow fever. Eradication of mosquitos controlled and limited deaths, the San Francisco earthquake happened, the horseless carriage was being produced, and many more momentous events, inventions and advances in technology occurred.
- Why the travelers chose a steam car- In 1906 there were three types of car propulsion: electric, gas, or steam. The one that worked best when crossing the desert was steam. The White steam engine was more economical and efficient due to the design of the steam boiler. It was well suited for desert travel as it could not overheat.
- The map used to set the route- The prospectors used a map entitled “Official Prospectors and Miners Map of California and Nevada Deserts”, compiled by G.E. Bailey and supervised by the mining committee of the Los Angeles, Chamber of Commerce. The Los Angeles times issued the map in 1905. The map is a highly detailed description of the desert, including the location of springs one would find along the route. They drew the circular route on the map. All of the notes from the trip are on loose scraps of paper. The party left the “small” city of Los Angeles, pop. 200,000-300,000 on Thursday, April 12, 1906, at 11:30 am. It took 15 hours driving time over two days, plus several flat tires to reach

Barstow. They left Barstow and traveled to Johannesburg and on to Borax Lake (now known as Searles Lake).

- Visits to the towns of Ballarat and Harrisburg- Upon arrival in the town of Ballarat the steam powered cars caused quite a stir. The townspeople came out to take a look at the cars.
- Sampling the prospect-Five days after they left Los Angeles, the men arrived at the prospect. They sampled the ore. This prospect was in the area of Skidoo. They repaired the cars and replenished their water, then started their return to LA. Bob has searched the area of the prospect with Google Earth and found no evidence of mining.
- Rescuing a lost prospector- the travelers came across a prospector named Jack Arnold. He saw the quiet steam cars approaching in the dark, their headlights glowing, bouncing orbs, and thought he was hallucinating. The men ran after him and gave him water. He had only an empty canteen and a pistol on him, and he had intended to kill himself if he didn't find water. They left him at Ballarat.
- Murder in the town of Skidoo- James Arnold was the founder of Skidoo, population 500 in 1907. He owned a building with a market, butcher shop and a bank. Joe Simpson a former miner turned pimp, gambler, and saloon owner went to the bank and became abusive toward the banker who would not give him money. Jack Arnold overheard and tried to intervene. He was shot twice by Joe who laughed about it. A few days later, James Arnold was the first person buried in Skidoo, and Joe Simpson was the last man lynched in California.
- The return trip- once they returned to Ballarat, they took a different route back to LA, making the trip a complete circle. The return through Shepherd's Canyon on a stagecoach route; also went through Caliente to Panamint and then on through Coso Springs, Darwin, Keeler, Swansea, Olancho, Little Lake, and eventually to Mojave and back to Los Angeles. Upon return, the samples were assayed in LA and found the area not worth mining.
- Epilogue- Ed Thomas lived in the golden era of mining 1830-1930. After the trip he returned to the mine in Colorado and continued developing the mine and town. Financial misdeeds caused the mine to close. Ed returned to California to develop an oil well in the Kettleman Hills. He also ran mines in Mexico until 1918. After he was forced out of Mexico by political unrest he settled in Los Angeles and worked for a fire insurance company. Edward Thomas died in 1930. What an amazing life!

F. Last Word (A. Guzman) **This information will be available on our website:**

(1) MTNM's Public Scoping deadline to receive/record public comment is on Tuesday, June 20, 2023 (see addresses below).

(2) BLM will host 1 virtual meeting and 3 Open Houses – The Public is invited to give input on what should go into drafting of the MTNM Plan.

Virtual Meeting Wednesday, May 24 6pm pdt – register

https://blm.zoomgov.com/webinar/register/WN_b9ygA6C3RNS_gz-OejL4WQ

(Participants will receive email confirmation to join the ZOOM meeting)

In-Person Events:

Tues, May 30 6pm – Comfort Suites (Conference Room)
2571 Fisher Blvd.
Barstow, CA 92311

Wed., May 31, 6pm – Twentynine Palms Historical Society Founders Hall
6760 National Park Dr.
Twentynine Palms, CA 92277

Thurs., June 1 6pm - El Garces, Harvey House
950 Front St.
Needles, CA 92363

Addresses for written Public Comments: Substantive written comments may be submitted anytime through June 20, 2023

U.S. Mail: Attn: Mojave Trails National Monument Planning c/o

Needles Field Office, 1303 S.U.S. Hwy 95

Needles CA 92363

email: BLM_CA_NFO_MTNM_Planning@blm.gov or BLM_CA_NFO_MTNM_PLAN@blm.gov

G. The president adjourned the meeting at 9:20 p.m.

Submitted by Leslie Ogg, MSSC Secretary

List of Upcoming MSSC Events : Mark your Calender!

| Event | Date | Comments / Scheduled Program (if known) |
|-----------------------|-------------------------------|---|
| Meeting Dates: | ZOOM July 14, 2023 | Paolo Sanchez "Lazurite of Cascade Canyon, California" |
| | ZOOM August 11, 2023 | Mike Sanders: "Digging For Blue Barite at Stoneham, Colorado" |
| | ZOOM September 8, 2023 | Nathalie Brandes' "Silver Mines of Kongsberg, Sweden" |
| | ZOOM October 13, 2023 | Virgil Lueth TBA |
| MSSC Picnic | August 26, 2023 | 12-4:00 PM in the Tournament Park in the Caltech campus |
| Board Meeting | ZOOM July 9, 2023 | ZOOM at 1:00 PM |
| Field Trip | 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.

MINUTES of the MSSC Board Meeting, May 13, 2023 via ZOOM

MSSC Board Meeting, April 30, 2023, minutes

- A. Chair Angela Guzman Called the meeting to Order at 1:05 p.m.
- B. Roll Call, present:
Angie Guzman, Cheryl Lopez, Carolyn Seitz, Leslie Ogg, George Rossman, Pat Caplette, Ahni Dodge, Simona Cianciulli, David Lesperance, Patrick Stevens, Rudy Lopez, Marek Chorazewicz, Bob Housley, Linda Elsnau was excused. There were 13 board members, officers, and committee chairs present and one excused. There was a quorum.
- C. There was one guest, MSSC member Gregor Losson
- D. Business – Angie Guzman
 - 1. Approval of January 15, 2023, Board Meeting Minutes: Motion made by George Rossman, and seconded by Carolyn Seitz. There were no corrections or additions. President Guzman called for a vote on a motion to approve. The minutes were approved by a show of hands.
 - 2. CFMS Scholarship Honoree nomination of Dr. George Rossman was approved. He could not reveal the two students he will be sponsoring. The CFMS will be meeting in Lodi, in June.
 - 3. Picnic – Discussion and Action Item
Ad Hoc committee: volunteers of 3-6 (or more) board members to form a committee to complete plans for the August 2023 picnic. Details of decisions by the committee are to be reported at the Board meeting on July 9, 2023, and to the membership at the July 14, 2023 regular meeting. Goals of the

committee will include picnic date in August, location, menu (including cost estimates), logistics for the auction, method(s) of announcement(s) and other pertinent items. Ad Hoc committee meetings may be via ZOOM conferencing, or by other methods, as needed. The Ad Hoc committee members are Rudy Lopez, Simona Cianciulli, David Lesperance, and Cheryl Lopez.

4. Special Guest Speaker – MSSC Member Gregor Losson gave a Mojave Trails National Monument information/update; he is on the Desert Advisory Committee (DAC) subgroup. He explained how the club and its members can participate in the MTNM process. Gregor will give a brief presentation on this topic to the members on May 12, 2023. He outlined three action steps:
 - a. MSSC Board sent a letter to the MTNM manager this week. Angie is drafting this letter based on an article she wrote for the May bulletin.
 - b. Send a letter to Gregor Losson (DAC) stating that the MSSC would like to be part of the scoping process. Should be done in one month.
 - c. Membership comments during the scoping process. Gregor will teach the members how to give detailed, substantive comments that will help the BLM justify its decision. He has some comments prepared that he will share with us.

Gregor has also agreed to give a brief presentation on this topic to the members on May 12, 2023.

E. Officer Reports

1. Cheryl Lopez - Vice President reviewed the Zoom troubles from the previous meeting. The presenter was using a phone to Zoom, and accidentally shut down the meeting. When the meeting was restarted the transcript of the first part of the meeting was lost and could not be recovered.
2. Carolyn Seitz – Treasurer stated that the club has made a profit this year due to the Pacific Micromount Conference. We started the year with \$16,366, and now we have \$18,617. Bob Housley stated that the auction of minerals from Juanita Curtis’ collection raised a lot of money. There was discussion of ways to fundraise at the picnic, possibilities included: Auction of tickets for a gem show, MSSC gift basket (hat, t-shirt, patch, etc.), subscription to the Mineralogical record. Carolyn also noted that the account has been updated with new signatories.
3. Leslie Ogg – Secretary- no report
4. Angie Guzman – CFMS Director said the meeting was in Lodi, in June. She said she would attend.

F. Director Reports/Comments

1. Ahni Dodge- A group of club members is still meeting monthly for dinner, at Kathleen’s restaurant in Pasadena. All are welcome to attend.
2. Simona Cianciulli reported on the club’s social media accounts. She posts a mineral every Monday with a reel. She also posts announcements for the Zoom meetings, and field trip information. The Instagram account is getting more engagement than the Facebook account. She welcomed club members to send her minerals and information to post.
3. David Lesperance told the board members about a geology trip he took with students from San Diego State. He talked to the students and tried to get them interested in our meetings. His conclusion, college students are not interested in a Friday night meeting!
4. Patrick Stevens commented on Simona’s Instagram post, and the fact that her fingernails matched the color of the Indicolite specimen. He also recollected a similar plan to close off areas of the desert to collecting in the mid-1970s.

G. Committee Reports/Comments

1. Linda Elsnau - Bulletin Editor was excused from attending. President Guzman relayed that Linda says we now have five people who want mailed bulletins. This means her printing and mailing costs will increase. Also, the price of postage is rising again.
2. Marek Chorazewicz – Field Trips: none currently scheduled. He did get the contact information for the Mountain Pass Mine, so maybe in the next year or so, there will be a trip there.
3. Cheryl Lopez – Membership is currently at 104; 7 lifetime/honorary, 59 individuals, and 17 families. Cheryl stated that she now sends an updated membership list to Marek before the field trips. We are also picking up new members out of state/country due to our zoom membership meetings.
4. PMC – Bob Housley said the meeting went well, the attendance was down a bit, but the participants were very enthusiastic. There were lots of minerals for sale and give-away.
5. Programs & Education – Rudy Lopez
 - a. Brochure- We need to update our club brochure if we are going to hand them out during public events. It was suggested that maybe we could condense it into a single page flyer. Angie and Simona said they will review the brochure and make suggestions.
 - b. Programs are filled for 2023 except September. Rudy might have George Rossman speak. Carolyn suggested Rudy get someone from the list she provided. Pat Stevens suggested a talk on tourmalines, George said the maybe Will Larson will speak.
6. Webmaster – Leslie Ogg showed a slide summarizing the website statistics from the last three months. Most of the visits to the site are new, and people find us via search engines. Most visitors access the site via a mobile device (phone). The most visited page is the front page, followed by various field trip pages.

H. Other

1. There was a proposal from Leslie Ogg to change the February membership meeting to the second Friday of the month instead of the third Friday. Angie suggested we think about this, and about moving our meeting to another day of the week. We can't seem to attract any young people on Friday nights. Angie will informally poll the members at the next meeting.
2. Updates or late reports: Angie asked where all the club's historical materials are being stored. We know Ann Meister; the club historian has many items. Rudy has some, and some have been passed to Marek. Marek said he will give some to David Lesperance to look through. Once all the material has been reviewed, we can work on scanning and permanent storage.
3. Next Board meeting –July 9

I. The meeting was adjourned at 2:31 p.m.

Submitted by Leslie Ogg, MSSC secretary.

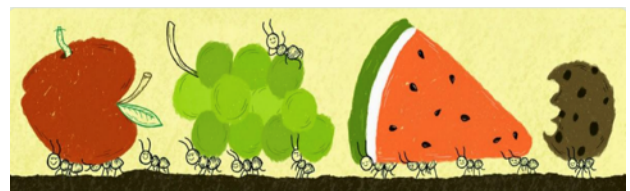
SAVE THE DATE for the MSSC Picnic 2023

Please join us for our annual potluck picnic and silent auction.

Date: Saturday- August 26, 2023

Time: 12:00 noon-4:00 pm

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



Coming mid-June: The RSVP sign up form and Potluck Food Sign up list will be released soon. Also, a Map, directions to Tournament Park, and parking directions will be included.

If you have questions, please feel free to contact any of the MSSC Picnic Committee:

- David Lesperance: dlesperance@signalgeoscience.com
- Simona Cianciulli- simonacian@gmail.com
- Cheryl & Rudy Lopez: rclopez002@verizon.net

OTHER FREE THINGS TO DO...by Ann Meister

The **Watson Lecture Series at Caltech is on hiatus until the Fall semester.** Stay tuned until October! Find past Watson Lectures on [Caltech's YouTube channel](#).

The **Von Kármán Lecture** is on Thursday, **June 22** at 7:00 PM. Available live on YouTube at [NASA Jet Propulsion Laboratory - YouTube](#). The speaker is Dr. Konstantin Penanen, JWST/MIRI Cryocooler Lead, NASA/JPL. The title is “**The Universe of Very Cold: The James Webb Space Telescope, Miri, and the Cryocooler.**” The James Webb Space Telescope (JWST) takes incredible images using infrared light. The optics and science instruments must be incredibly cold, especially JWST’s Mid-Infrared Instrument (MIRI), which needs to be at a temperature of less than 7 kelvins, or -447 F. This is not possible without the Cryocooler, which keeps MIRI’s detectors cool.

The **UCLA Meteorite Gallery** is open. Check the website for hours. The monthly lecture will be presented on Sunday, **June 18** at 2:30 PM. The speaker and title have not been announced. To join via Zoom, click [here](#). If clicking the link does not work, please open your zoom app and enter the meeting ID: 983 0252 9304. Then click "join meeting in progress" (there is no password). If you need further instructions on how to join our meeting via Zoom, click [here](#) or contact Kevin McKeegan at mckeegan@epss.ucla.edu. This meeting is only accessible through the desktop and mobile client. Visit the website and check on events and videos and other neat things about meteorites, go to <https://meteorites.ucla.edu>

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/>

June 10-11, 2023 – Escondido, CA
Palomar Gem and Mineral Club
The Convention Center at the California Center for the Arts – 340 North Escondido Blvd,
Escondido CA 92025
Hours: Sat 10 AM – 5 PM, Sun 10 AM – 4 PM
Website: <http://palomargem.org>

413 E. Lockeford St., Lodi, CA 95240
Hours: Fri & Sat 10 AM – 5 PM,
Sun 10 AM – 4 PM
Adults \$6, Kids 12 & under FREE
Free admission to Military.

June 17, 2023 – Bellflower, CA
Delvers Gem & Mineral Society
DELVERS PARKING LOT SALE,
14515 Blaine Ave., Bellflower, CA 90706
Hours: 10 AM – 4 PM
Website: <https://delversgemclub.wordpress.com/>

July 8-9, 2023 – Culver City, CA
Culver City Gem and Mineral Society
Culver City Veteran’s Memorial Auditorium, 4117
Overland Ave., Culver City, CA 90203
Hours: Sat 10 AM – 6 PM, Sun 10 AM – 5 PM
Website: <http://culvercityrocks.org/fiesta/>

JUNE 23-25, 2023 – LODI, CA
CFMS Show And Convention
Lodi Grape Festival Grounds,

August 4, 5 & 6, 2023 – Nipomo, CA
Orcutt Mineral Society
Nipomo High School, 525 N. Thompson Ave.,
Nipomo, CA 93444
Hours: Aug 4 & 5: 10 AM/5 PM, Aug 6: 10 AM/4 PM

Free Admission and Free Parking

Website: <http://www.omsinc.org>

August 19-20, 2023 – Tehachapi, CA

Tehachapi Valley Gem and Mineral Society

500 East “F” Street, Tehachapi, CA 93561

Hours: 9 AM – 5 PM. Free admission.

Website: <https://www.tvgms.rocks>

August 26-27, 2023 – Arcadia, CA

Pasadena Lapidary Society

Arcadia Masonic Lodge, 50 W. Duarte Rd., Arcadia

CA 91007

Hours: Saturday 10 AM/5 PM, Sunday 10 AM/4 PM

Website: <https://pasadenalapidary.org>

September 16-17, 2023 – San Luis Obispo, CA

San Luis Obispo Gem and Mineral Club

San Luis Obispo Veteran’s Memorial Building, 801 Grand Avenue, San Luis Obispo, CA 93401.

Admission: \$5, Children 12 and under Free. Free parking.

Website: <http://slogem.org>

| MSSC Advertisement Policy: | | | |
|--|---------------|---------|--|
| Mineral-related ads are allowable in the MSSC bulletin. Below is the price per month | | | |
| | Business Card | \$5.00 | |
| | 1/3 page | \$10.00 | |
| | 1/2 page | \$20.00 | |
| | Full Page | \$35.00 | |
| In addition, any advertiser who purchases 12 months of space in advance will receive a discount of 12 months for the price of 10 months. The copy for the ads should be mailed to the editor at bulletin@mineralsocal.org and the payment should be sent to the MSSC Treasurer 13781 Alderwood Lane, #22-J, Seal Beach, CA 90740 | | | |

MINERAL OF THE MONTH: Brazilianite

Formula: NaAl₃(PO₄)₂(OH)₄,

Crystal System: Monoclinic

Name: Named by Frederick Harvey Pough and Edward Porter Henderson in 1945 for the type locality country, Brazil, where it was first found.



irocks.com photo

Locality: [Linópolis, Divino das Laranjeiras, Doce valley, Minas Gerais, Brazil](#)

3 cm x 2.5 cm x 1.6 cm



Rock Currier photo

Locality: [Linópolis, Divino das Laranjeiras, Doce valley, Minas Gerais, Brazil](#)

Pfifer Collection. Scale at bottom of image is an inch with a rule at one cm



irocks.com photo

Locality: [Linópolis, Divino das Laranjeiras, Doce valley, Minas Gerais, Brazil](#)

6.4 cm x 3.9 cm x 3.4 cm

2023 MSSC Officers:

| OFFICERS | | |
|----------------------------|-------------------|--|
| President | Angie Guzman | president@mineralsocal.org |
| Vice President | Cheryl Lopez | vicepresident@mineralsocal.org |
| Secretary | Leslie Ogg | secretary@mineralsocal.org |
| Treasurer | Carolyn Seitz | treasurer@mineralsocal.org |
| CFMS Director | Angie Guzman | |
| Past President | George Rossman | |
| DIRECTORS | | |
| 2022-2023 | Pat Caplette | |
| 2022-2023 | Ahni Dodge | |
| 2023--2024 | Simona Cianciulli | |
| 2023--2024 | David Lesperance | |
| 2023--2024 | Pat Stevens | |
| COMMITTEE CHAIRS | | |
| Bulletin Editor | Linda Elsnaue | bulletin@mineralsocal.org |
| Field Trip | Marek Chorazewicz | |
| Historian | Ann Meister | |
| Hospitality | Laura Davis | |
| Membership | Cheryl Lopez | membership@mineralsocal.org |
| Micro Mount Conf. Chairman | Al Wilkins | |
| Program and Education | Rudy Lopez | programs@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 held via ZOOM conferencing until further notice. The annual Installation Banquet is held in January, and the annual Picnic and Swap Meeting is held in August. Due to PCC holidays, meetings may vary. Check the Society website for details.

The Society also sponsors the annual Pacific Micro mount Symposium held at the 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 delivered 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

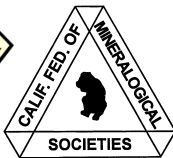
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MSSC Bulletin Editor
3630 Encinal Ave.
Glendale, CA 91214-2415

To:



**With Knowledge Comes
Appreciation**

**Your MSSC
Bulletin Is
Here!**