



Bulletin of the Mineralogical Society of Southern California

Volume 89 Number 5 - May, 2016

The 933rd meeting of the Mineralogical Society of Southern California

With Knowledge Comes Appreciation

May 13th, 2016 at 7:30 P.M.

**Pasadena City College
Geology Department, E-Building, Room 220
1570 E Colorado Blvd., Pasadena**

**Program: Guadalupe Island (Isla Guadalupe) 6-Day Fishing Trip
To A Volcanic Island: Presented by Rudy Lopez**

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About the Program: Guadalupe Island (Isla Guadalupe) 6-Day Fishing Trip To A Volcanic Island

Presented by Rudy Lopez

Guadalupe Island is a Volcanic Island located 150 miles off the west coast of Mexico's Baja California Peninsula and 250 miles southwest of the city of Ensenada. Guadalupe has a rugged landscape which consists of two ancient overlapping shield volcanoes. This Island was once a major destination for hunting fur seals and home to thousands of goats that devastated the landscape.

Guadalupe Island is noted for the world's largest population of the great white sharks. Fishing for Tuna, Yellowtail, harvesting Abalone and trapping Lobsters' helps a small village survive. Water, food and most staples are brought in by the Mexican Navy.

In this presentation I will take you on a 6-day fishing trip, tell the story of the Island and its' geological make-up. The 24-hour boat ride to the Island was full of surprises and so was our days at the Island.

My back ground is not geology. Through my wife Cheryl, we started our journey into rocks for one of her science classes. In a short time, we became Rockhounds. We did belong to a few clubs prior to joining MSSC. We found MSSC and attend a meeting and decided this was over our head and didn't return. Through a friend, who just so happened lived next door to Bruce Carter, we were invited to attend a meeting and have been here ever since.

From the Editor:

Hello May! Time flies so fast these days! I want to issue a special thanks to Fred for letting me use several of his pics in this bulletin. I was really stumped for something to fill out the bulletin this month and he suggested that I go through our files and use some of them. On that line, it seems to be getting harder and harder to fill the bulletin with interesting material when I end up writing so many pieces myself. This is the MSSC Bulletin not the Linda Elsnau bulletin! More contributions from our members is needed. You need to be sure that if you submitted photos, they are either your photographs or you include permission from the original photographer for me to be able to use them. Same goes for any written material you submit that was written by someone other than yourself. We can't use anything without permission. Linda Elsnau

MEANDERINGS FROM THE PRESIDENT by Ann Meister

With climate change has come some interesting opportunities for a fresh look at areas that have undergone flooding, mud slides or avalanches, and fires. This has exposed terrain that can be explored for mineral finds. One discussion was about how wild fires had cleared chaparral in Southern California mountains, opening areas that had been so dense with manzanita that they were impenetrable. In one case, green tourmaline in float was found in a ravine, but the source not discovered. Where have you explored and what have you found?

And then there's underground exploration: the Oceanview Mine in San Diego County discovered a new pocket. Joseph Leiberz of JTI and Jolyon Ralph of mindat.org were recently invited to participate in the operation. Apparently they broke into top of the pocket, finding some nice, large quartz crystals (about 6" in diameter and 11" long) and many smaller ones. The question is, how deep does the pocket go and what's at the bottom? – since that is where the "good stuff" often ends up. Only time, and a lot of digging, will tell.

The Rock H. Currier Estate Sale is scheduled for May 6 and 7 at his home in Arcadia: 1212 S. Mayflower Ave. The sale is for household items and includes lots of objet d'art, erotica, Asian art, ceramics, sculptures, bronzes, carvings, prints, paintings, porcelains including a massive (approx. 18" diameter x 35" tall) Chinese famille rose porcelain vase with elaborate phoenix floral and other designs, molded hydras, etc., and souvenir memorabilia from his many journeys. Also available will be stereo equipment, tools, CD's, laser disc collection, DVD's, comic books, and "non-mineral" books (including a set of Harvard Classics) and magazines. Among the furniture available are the two "super-sized" green recliner chairs – that can comfortably seat a family. Those who visited Rock in his home will remember a lot of these items, including the large "alligator" ceramic

shoe and the Frederick Remington reproduction sculpture of the cowboy on his horse. You would not believe what else was uncovered in boxes and trunks. Rock was an amazingly omnivorous collector! (NOTE: The mineral collection and library are not available for this sale. They are being handled separately.)

Job Opportunity: Mindat.org is looking for a PHP programmer to update the mineral database on the website from PHP version 5.4 to version 7.1. They would like someone with a scientific orientation but not necessarily a specific knowledge of mineralogy. Please contact Jolyon Ralph at jolyon@mindat.org

MSSC Job Opportunities: In this season of political campaigns and rhetoric, I would like you to consider entering the fray of MSSC elections. I would like to step down from the presidency since I have taken on a nearly full-time, “real” job again. We need candidates for 2017. Think about it...

MINUTES of the April 8th MSSC Meeting

The 932nd Membership Meeting of the Mineralogical Society of Southern California (MSSC) was held at Pasadena City College on Friday, April 8, 2016. The meeting was presided over by President Ann Meister.

Call to order at 7:35 p.m. Ann welcomed guests in attendance and invited all to join in for refreshments and discussion in the office after the meeting.

Regular Business

- Ann Meister asked for approval of the March 2016 Membership Meeting Minutes as published in the April 2016 *Bulletin*. A **Motion** was made by B.J. Ledyard and seconded by JoAnna Ritchey. Before the vote, Ann asked if there were any corrections, additions or discussions. Leslie Ogg pointed out that the Minutes mentioned the *Moon* rover and it should have been the *Mars* rover. Correction noted. Ann called for the vote, which passed unanimously by the members;
- Ann indicated that Linda Elsnaue was not in attendance and designated a deadline to submit items for the May *Bulletin* to be April 21st or 22nd. [Note: Editor Linda Elsnaue subsequently sent an e-mail to assign April 23rd as the deadline for Bulletin submissions];
- Dues were due January 1, 2016. If you didn't receive your *Bulletin* or the latest Roster, please see or contact Cheryl Lopez, Membership Chair, if you have not paid;
- The next Board meeting will be June 12, 2016 and, our Annual Picnic will be August 21, 2016, both at the home of Bruce and Kathy Carter;

Announcements

- UCLA Meteorites lecture, on April 10th at 2:30pm, will be “Ceres in the Light of Dawn” and is to be presented by Kynan Hughson;
- B.J. Ledyard announced that the Huntington's Carnegie Astronomy Lecture Series started April 4th. The first lecture was on the observatories in Chile. The lectures are on Monday evenings. The second of the four lectures will be on April 18th [*A Short History of Planet Formation*]. [Note: The series continues May 2nd [*Exoplanets*] then May 16th [*The Secret Lives of Galaxies*]. The series is free;
- Bob Housley announced that the Friends of Mineralogy outing on March 19th was a success. There were 57 people in total including 5 MSSC members, all on 1 mine dump (the Darwin Lead/Silver Mine) with more field trips on Sunday! The Mineral Locality Symposium was at Jawbone Station in Mojave;

Show and Tell:

- Cathy Govaller brought in some samples she'd collected. The samples were rather large and would be looked at in the refreshment room after the meeting;
- Geoff Caplette brought in a couple of beryl specimens extracted in the last couple of months.

Program

The meeting was turned over to Rudy Lopez, Program Chair, who thanked everyone for their get well cards. His recent hip surgery went well and was "a piece of cake"! Rudy said he appreciated everyone referring speakers for programs in the future.

Rudy introduced the night's speakers, Tony and Sandie Fender. The Fenders spoke about Mount Saint Helens and its recent, geologically speaking, eruption in 1980. Their most recent visit to Mount St Helens was this past winter, not a good time to go but, they had been there many times previously. Their program provided us a before and after look at the famous volcano. Tony and Sandie brought original Mount Saint Helens green glass samples and books about the area.

Tony tells us that Mount Saint Helens is located in southern Washington. It was one of the most beautiful shaped volcanos and many compared it to Mt. Fuji in Japan. At the base of Mount Saint Helens was Spirit Lake. In 1980 the volcano violently erupted. It had been bubbling previously for about a year and a half.

They met an airline stewardess who worked for Northwest Airlines and she was on one of the four planes that flew through the eruption. The plane was a 747 and that lost all the engines due to the blast and ash. The pilot was able to glide the aircraft to SeaTac (Seattle airport) and somehow managed to get one of the engines restarted right before they landed! The woman's experience, she said, was one she never wants to repeat. The plane was over the mountain when it erupted!

The top of the mountain got blown out during the eruption. The magma chamber had been forcing up and pushed out a bulge (*cryptodome*) on the north side. The bulge got bigger and bigger and then an earthquake (*magnitude 5.1*) occurred and the whole side of the mountain slid and that opened the passageway for the magma to release all of the pressure. Tony showed photos taken by Gary Rosenquist, who was located in an area that the blast missed by a small margin of a mile, during the eruption. The photos show the bulge, the beginning of the eruption, the blow out of the bulge, the ash, which went up 40-50 thousand feet into the atmosphere and the huge landslide of debris. The photos are very chilling. [Note: On May 17, 1980, Mount Saint Helens was approx. 9,950 feet. On May 18, 1980 it was 8,636 feet high after the violent eruption!]

The forested lands in the area are harvested by Weyerhaeuser. Tony showed photos of before the eruption where the lands were covered with trees for miles. The after photo showed pure devastation, no trees standing. The shock waves had literally blown flat, pushed over and twisted the trees off their bases, like the tops off of carrots, in the blast zone. There was a section where the blast went up and over the hilltop and the trees on the other side were protected. The force of the blast moved many of the fallen trees to Spirit Lake, which rose 200 feet. At the ash line, frogs, rodents and insects went underground. As for the trees in Spirit Lake, some are still floating today!

The snow in the blast zone instantly melted at the time of the eruption. The melt water went into the Toutle River which carried it to the Columbia. The Columbia silt level became so dense that shipping operations had to be halted. A photo showed that the ash line was very high in the Toutle River area.

People said Mount Saint Helens wouldn't erupt again. The animals that had gone underground came back up and with no predators around, they began to multiply. Within a year the ground squirrels and birds came back. Within two years the elk came back, healthier than before. In fact, the Roosevelt Elk herd there is the healthiest in the United States. The fireweed plant was one of the first of the plants to come back.

Weyerhaeuser called lumberjacks to salvage any lumber they could. The busiest workers were the chain saw sharpeners because the lumberjacks could only use their saws about 20 minutes at a time. This was because rain and melt water mixed with ash makes a cement-like substance and trying to cut through trees covered with it dulls chain saw blades quickly. However, Weyerhaeuser was able to salvage 500 million board feet of wood, 10% of everything that was blown down in the blast.

The Toutle River was a braided river, a forked or two fingered river, but was altered after the eruption and became single. *[Note: The eruption of Mount Saint Helens poured vast amounts of lahar (slurry of pyroclastic material, debris and mud) into the Toutle River, which later had to be dredged by the Army Corps of Engineers to prevent debris from continuing down river.]*

In 2004 there was a small eruption and again in 2005 the mountain began to rumble and steam inside the amphitheater. After the 2004 event, the "whaleback" began to "grow" inside the crater which means the mountain is regenerating itself. The mountain has an interesting cloud formation, so called smoke rings. Tony showed a JPL thermal image that was amazing.

Sandie showed an ash glaze of Mount Saint Helens that comes apart where the mountain blew.

Nearby on the south side, is Ape Cave lava tube. The best light in the cave is by Coleman lantern. You can rent one at the entrance station for the 2-mile long tube hike. Also, it's a good idea to get a permit if you want to hike the south side to the rim. But, apply 9 or 10 months in advance of your visit!

Mount Saint Helens compared with Mt. Vesuvius is very small, and, Vesuvius is about 1/5 the size of Krakatau. No long term weather changes after the 1980 Mount Saint Helens eruption, but immediately after eruption, rain increased by 10%. It took 10 days for the ash from the eruption to circle the earth. All the fish in Spirit Lake were killed because it was the blast zone. At the Columbia River, temperatures increased by 6 degrees Celsius, that's a lot of thermal energy! In Astoria, on the Columbia, there is a mound of ash that is 200 yards wide by 2 miles long and 500 feet high. That is the ash that was dredged out of the Columbia. Wow!

Our thanks go to Tony and Sandie Fender for an informative presentation and for bringing in the green glass specimens from Mount Saint Helens.

The **door prize** drawing was won by Cheryl Lopez who passed it on to our visitor.

The next regular membership meeting will be May 13, 2016 at 7:30 p.m. here at PCC. Our program speaker will be Rudy Lopez, fisherman extraordinaire, who will talk about Guadalupe Island's many treasures.

Adjournment was called at 8:20 p.m. Refreshments served after adjournment.

Respectfully submitted: Angie Guzman, MSSC Secretary Apologies in advance for any misspellings in this
Minutes/aag

List of Upcoming MSSC Events : Mark your Calender!

Event	Date	Comments / Scheduled Program (if known)
Meeting Dates:	June 10, 2016	Chuck Houser - Calcite
	July 8, 2016	Justin Seastrand – Monument Part 2
	September 9, 2016	Gabriel Mosesson - Ethiopian Opals Part 2
	October 14, 2016	Mohamed Elghetari - Mars
	November 11, 2016	Dr. George Rossman – to be announced
Annual Picnic	August 21, 2016	Bruce & Kathy Carter's House
Board Meeting	June 12, 2016	Board Meeting at Bruce Carter's house

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

WEST COAST ~ SPRING GEM & MINERAL SHOW

MAY 13 - 15, 2016

SANTA ANA, CA

Holiday Inn - Orange County Airport
2726 S. Grand Ave.
(Take 55 Fwy Exit 8 for Dyer Rd. to S. Grand Ave.)

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

Reminder of the Request for help at the 2016 LA Urban Festival: Rudy Lopez

We will have a table set up for us again and I am looking for help!

It's a two-day event, we will have a display again of micromounts, also a display case with items found by our members. I need help at our table throughout the Festival. You don't have to be there all day, pick a few hours to help out and go out and look at the Festival. ***I will have free admittance and parking for all volunteers.*** ***Please let me know what day and times you can help out.***

At the present time I have 3 volunteers, we need more help. Have a free day at the museum to look around, I understand the mineral collections have changed a bit and if you haven't been inside the mineral vault, your missing out on some great gems.

Coyotes cross Sunset Boulevard. Lizards scale manzanitas, P-22, Los Angeles' resident mountain lion, explores Griffith Park. Vaux's swifts take cover in downtown chimneys. Western gulls steal your beach picnic. Squirrels are doing summersaults in your front yard. L.A. is a surprising biodiversity hotspot - and it is time to celebrate our urban nature! From the L.A. River rehab, to community gardens, to local collaborations, Angelenos seem increasingly interested in urban nature. Let's take a weekend to see just how green L.A. can get. This festival is packed with hands-on, fun family activities!

L.A. Urban Nature Fest: June 25 and 26, 2016



A two-day celebration of Nature in the City!

What happens to the minerals after a collecting trip? By Linda Elsna

Several years ago, Fred and a friend made a trip to the Blue Bell Mine in San Bernardino Co, CA. Following are a series of pictures that I took while he was going through what he found. The first is the rock as it arrived home. He used a Meister trimmer to isolate the wonderful little wulfenite crystals inside and the rest are the "keepers"

Wulfenite : $\text{Pb}(\text{MoO}_4)$

Locality: Blue Bell Mine (Blue Bell claims; Hard Luck Mine; Hard Luck claims; Atkinson), Baker, Soda Lake Mts, San Bernardino Co., California, USA

All photos ©Fred L. Elsna





Ouch, one trim too far and this crystal popped out and was lost!

With Knowledge Comes Appreciation!

May Featured Mineral: Manganite

Formula: $\text{Mn}^{3+}\text{O}(\text{OH})$

Crystal System: Monoclinic

Name: Named in 1827 by Wilhelm Karl von Haidinger in allusion to the manganese content



irocks.com photo

Manganite : $\text{Mn}^{3+}\text{O}(\text{OH})$

Locality: N'Chwaning II Mine,
N'Chwaning Mines, Kuruman,
Kalahari manganese field,
Northern Cape Province, South
Africa 1.1 cm x 0.8 cm x 0.6 cm



irocks.com photo

Manganite : $\text{Mn}^{3+}\text{O}(\text{OH})$

Locality: Manganese deposit,
Ilfeld, Nordhausen, Harz,
Thuringia, Germany
4 cm x 4.4 cm x 3.6 cm



irocks.com photo

Manganite : $\text{Mn}^{3+}\text{O}(\text{OH})$

Locality: Ilfeld, Nordhausen,
Harz, Thuringia, Germany
3.1 cm x 1.8 cm x 1.4 cm



irocks.com photo

Manganite : $\text{Mn}^{3+}\text{O}(\text{OH})$

Locality: Ilfeld, Nordhausen, Harz,
Thuringia, Germany
5.2 cm x 4.1 cm x 2.7 cm



irocks.com photo

Manganite : $\text{Mn}^{3+}\text{O}(\text{OH})$

Locality: Ilfeld, Nordhausen, Harz,
Thuringia, Germany
6.5 cm x 5.4 cm x 3.8 cm



irocks.com photo

Manganite : $\text{Mn}^{3+}\text{O}(\text{OH})$

Locality: Iron Co., Michigan, USA
9.3 cm x 8 cm x 6.7 cm

Ride Share Listing

Can You Provide A Ride?

Would You Like Company On The Drive To Meetings?

We have heard from several of our members that they would like to ride-share with someone to the meetings. We will list the names, general location and either a phone number or an email address of anyone who would like to connect for a ride-share. If you would like to catch a ride or would like company for the trip, let me know at msscbulletin@earthlink.net and I'll put the information in this section of the bulletin. After that, any

final arrangements made are up to you. Also, If you make a connection that works for you, let me know so that I can remove your information from the bulletin. The Editor

Looking for	Who	Where	Contact at
A ride	Richard Stamberg	North Orange County, near Cal State Fullerton	
A ride	Catherine Govaller	San Bernardino, CA	

Calendar of Events:

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

MAY

May 7 - 8: ANAHEIM, CA

Searchers Gem & Mineral Society
Brookhurst Community Center
2271 W. Crescent Avenue
Hours: Sat 10 - 5; Sun 10 - 4:30
Website: www.searchersrocks.org

May 13 - 15: YUCAIPA, CA

Yucaipa Valley Gem & Mineral Society
Yucaipa Music & Arts Festival
Adams St. & Yucaipa Blvd
Hours: Fri 6 - 9; Sat 11 - 10, Sun. 12 - 6
Website: www.yvgms.org

Glendora Gems & Mineral Society
Goddard Middle School
859 E. Sierra Madre Avenue
Hours: Sat. 10 - 5; Sun 10 - 4

June 25 - 26: CULVER CITY, CA

Culver City Rock & Mineral Club
Veterans Memorial Auditorium
4117 Overland Blvd (@Culver Blvd, Near the
405 & 10 Freeways)
Hours: Sat 10 - 6; Sun 10 - 5
Website: www.culvercityrocks.org

JULY

No Shows are listed for July, 2016

JUNE

June 3 - 5: LA HABRA, CA

North Orange County Gem & Mineral Society
La Habra Community Center
101 W. La Habra Blvd.
Hours: Fri 5 - 8; Sat 10 - 6; Sun 10 - 5
Website: www.nocgms.com

June 4 - 5: GLENDORA, CA

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Mineral-related ads are allowable in the MSSC bulletin. Below is the price per month			
	Business Card	\$5.00	
	1/3 page	\$10.00	
	1/2 page	\$20.00	
	Full Page	\$35.00	
In addition, any advertiser who purchases 12 months of space in advance will receive a discount of 12 months for the price of 10 months. The copy for the ads should be mailed to the editor at bulletin@mineralsocal.org and the payment should be sent to the MSSC Treasurer 1855 Idlewood Road, Glendale, CA 91202			

2015 MSSC Officers:

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

About the Mineralogical Society of Southern California

Organized in 1931, the Mineralogical Society of Southern California, Inc. is the oldest mineralogical society in the western United States. The MSSC is a member of the California Federation of Mineralogical Societies, and is dedicated to the dissemination of general knowledge of the mineralogical and related earth sciences through the study of mineral specimens. The MSSC is a scientific non-profit organization that actively supports the geology department at Pasadena City College, Pasadena, California. Support is also given to the Los Angeles and San Bernardino County Museums of Natural History. The Bulletin of the Mineralogical Society of Southern California is the official publication of the Mineralogical Society of Southern California, Inc.

The MSSC meetings are usually held the second Friday of each month, January, February and August excepted, at 7:30 p.m. in Building E, Room 220, Pasadena City College, 1570 E Colorado Boulevard, Pasadena, California. The annual Installation Banquet is held in January, and the annual Picnic and Swap Meeting is held in August. Due to PCC holidays, meetings may vary. Check the Society website for details.

The Society also sponsors the annual Pacific Micromount Symposium held at the San Bernardino County Natural History Museum during the last weekend of January.

Annual Membership dues for the MSSC are \$20.00 for an individual membership, \$30.00 for a family membership. Bulletins are delivered by email, there is an additional annual \$20.00 fee if you prefer paper bulletins mailed to your address. The Society's contact information:

Mineralogical Society of Southern California

1855 Idlewood Rd.,

Glendale, CA 91202-1053

E-mail: treasurer@mineralsocal.org

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

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MSSC Bulletin Editor
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Glendale, CA 91214-2415

To:



**With Knowledge Comes
Appreciation**

**Your MSSC
Bulletin Is
Here!**