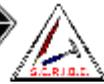


Orcutt Mineral Society, Inc.



# Ore-Cutts



Volume LIII, Issue 7

## THE PRES BOX—JULY 2019

Wayne Mills, OMS President



**OUR SHOW IS BREATHING DOWN OUR NECKS. ONE MONTH TO GO! ARE YOU READY TO HELP MAKE IT A GREAT ONE?**

Our **next highway clean-up** is July 13. Southeast Corner of

101 and Route 166 East at 8:00 a.m. I am always hoping for more than the 6 folks who usually show-up. Come see what you have been missing. It is kind of fun, and somebody usually finds something interesting! Treats on the club at Country Kitchen are an added bonus, as is the incentive prize that Wes usually brings. At least the prize is fun when Wes doesn't win it (like he has twice this year already)!

Our **Semi-Annual Meeting** was Saturday, **June 8** in Pioneer Park. Wes Lingerfelt, Truman Burgess and Dick Bazzell are to be thanked (warmly) for handling the barbecue including furnishing the wood (Truman). Wes and Jeannie brought and cooked the bread, beans and top sirloin. Sylvia and Don Nasholm took care of the coffee and iced tea. Sally Griffith helped served sausages and helped with food prep. We had a LOT of rocks for the Silent Auction, and lively bidding on several of them. Thank you to all who brought side dishes and rocks to round-out the afternoon.

**The Gem Show at the Veterans Hall in Cambria** was a fun show. Kim Noyes and his crew are to be

*(Continued on page 7)*

## JULY OMS MEMBERS

### BIRTHDAYS & ANNIVERSARIES

Greetings and Congratulations go out to our members who are having birthdays or anniversaries this month:



#### BIRTHDAYS

Mike Henson 7/17

#### ANNIVERSARIES

Joe & Lisa Azevedo 7/8

## TREASURE CHEST

### DONATIONS NEEDED!!!

**PLEASE also consider** donating a rock-related item to our Treasure Chest. **Jeanne Watkins** is heading that effort this year. **Remember** that the money we make from our show helps fund our scholarships.





*Semi-Annual Meeting & BBQ*  
Saturday  
June 8, 2019  
At Pioneer Park  
we meet for  
Good Food,  
Good Conversation,  
&  
Good Rocks  
Saturday, June 8th 11am



## THE MANY FORMS OF CALCITE

Pictures & part of text by Wayne Mills, OMS  
(many definitions from <https://www.minerals.net/mineral/calcite.aspx> )

Calcite (calcium carbonate) has many forms and is widely distributed. Since seashells are made of calcite, and since the oceans cover  $\frac{3}{4}$  of our planet, this is not hard to imagine. When shells decompose, they form **limestone** (calcium carbonate). When the oceans recede and the limestone is exposed on the land, amazing things can happen to it. As rain and surface water contact the limestone, dissolution can take place (as limestone is relatively easily dissolved).

**Caves** and **sink holes** are formed by the dissolution of limestone. After the cave is formed, precipitation of lime from dripping water can form an amazing variety of cave formations including **stalactites** (hang from the top of the cave), **stalagmites** (built up from the bottom of the cave), **helictites**, **soda straws**, **flowstone** and other shapes. When lime-rich water is bubbled to the surface of the earth at Hot Springs, the mineral **travertine** is formed. This is also a form of calcite.

Slice of Stalactite (Cave Onyx) from Kokoweef Mountain, San Bernardino County, CA



**Aragonite** has the same chemical formula as calcite ( $\text{CaCO}_3$ ... *calcium carbonate*) but it has a different atomic structure. **Aragonite** replaces Halite (Salt) at Point Sal (salt in Spanish) to form **pseudomorphs** (false forms) of the original salt hopper crystals (which were huge (imagine an individual (cubic) crystal of salt 2 inches on a side!))



Crinoidal Limestone Sphere from China

Flowstone (Cave Formation) location unknown



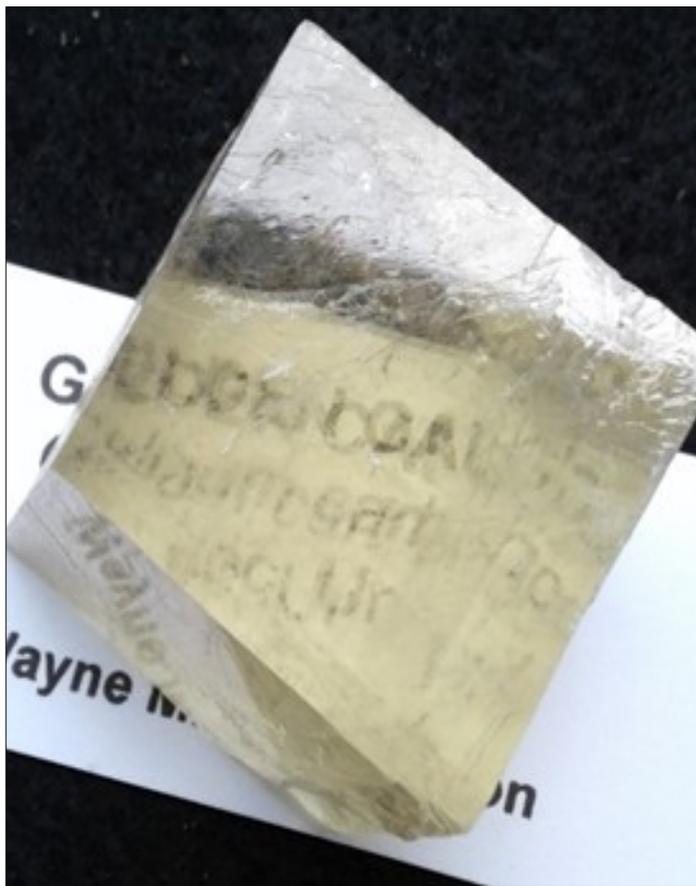
Aragonite after Hailiote Pseudomorph from Point Sal, Santa Barbara County, CA

Near Yeso, in De Baco County, New Mexico, **Dolomite** (*calcium magnesium carbonate*) has replaced hexagonal aragonite crystals creating **pseudomorphs** nicknamed "Aztec Coins".

**Cobaltocalcite** refers to an intermediary mineral between Calcite and Sphaerocobaltite in a solid solution series. It is most often perceived as a cobalt-rich variety of Calcite with a rich pink color. (Cobaltocalcite may also be mistakenly used as a synonym for Sphaerocobaltite).

**Dogtooth Calcite:** Calcite has many crystal forms. One of these is the scalenohedron. An individual or grouping of scalenohedral calcite crystals is sometimes called Dogtooth Calcite.

**Iceland Spar (Optical Calcite):** A translucent, double refractive and rhombohedral form of calcite coming from Iceland (surprise!) and other locations. Due to its unique double refractive property, optical calcite



Optical Calcite showing double refraction, location unknown

was used for bombsites during World War II (and maybe afterward?).

**Rice Grain Spar:** Calcite grouping of small, white scalenohedral crystals appearing as grains of rice.

**Sand Calcite** has trapped sand particles in its interior while it formed. Some neat examples are the calcite crystals from Rattlesnake Butte, Jackson Co., South Dakota.



Sand Calcite from Rattlesnake Butte, Jackson County, S. Dakota

## BITS & BYTES

### Vietnam's Infinite Cave - Hang Son Doong Cave

<https://www.youtube.com/watch?v=lgBF1847z-4>

“Carsten Peter...shares stories and images from a cave system in Vietnam that may be the world’s largest.”



### Clifden Caves (Free Glowworm Caves in New Zealand)

[https://www.youtube.com/watch?v=Z\\_nXTAIVSoc](https://www.youtube.com/watch?v=Z_nXTAIVSoc)

“The Clifden Caves is a limestone caves filled with glowworms....We also get the opportunity to see New Zealand glowworms close up and as blue lights on the ceiling.”

### 10 Free Glowworm Caves in New Zealand

<https://www.backpackerguide.nz/free-glowworm-caves-in-new-zealand/>

A wide-angle photograph of a beach at sunset or sunrise. The ocean waves are breaking on the shore, and a cliff is visible in the background. The sky is a mix of orange and blue. In the foreground, several smooth, colorful beach stones are scattered on the sand. Overlaid on the image is the text for an event.

*Gems by the Sea*  
Presented by the San Luis Obispo Gem and Mineral Club

**September 7<sup>th</sup> and 8<sup>th</sup>, 2019 • 10 AM to 5 PM**  
South County Regional Center • 800 W. Branch St., Arroyo Grande

(The Pres Box Continued from page 1)

congratulated for their efforts on this non-sponsored show.

The San Luis Club will host a show on the weekend of September 7<sup>th</sup> and 8<sup>th</sup> in the South County Regional Center in Arroyo Grande. Their show will be called "Gems by the Sea". Nostalgia anyone...? (OMS held their annual show there in the 1990's when I joined the club.)

**Our Monthly Breakfast** will be at 8:30 a.m. on July 27<sup>th</sup> (4<sup>th</sup> Saturday) at Little Bits in Grover Beach (151 North 7th Street). The 2019 breakfasts are listed in the 2019 Red Book. "The more the merrier" as the saying goes.

**Our July Program** will be a DVD about Caves presented by President-Elect Bill Brown. The display for July is Forms of Calcite (which is what most caves are made of). You can always bring anything else (rock-related) to display or have identified.

**Our Gem Show is coming up** in a month (August 2-4 at Nipomo High School). **Please** look hard at the sign-up sheets at our July meeting. A few hours from everybody for the three days of our show should get us through it.

This message from The Gold Coast (Queensland, Australia) Lapidary Club newsletter Snippets says a lot! "Nobody can do everything, but everybody can do something".

Also, consider putting in a display. It is fun sharing your treasures with other folks. Elisabeth attached the display sign-up form to our e-mailed June Newsletter. **Please let Elaine Von Achen know if you would like to display** at our show. We have a few more cases that we could lend out for displays.

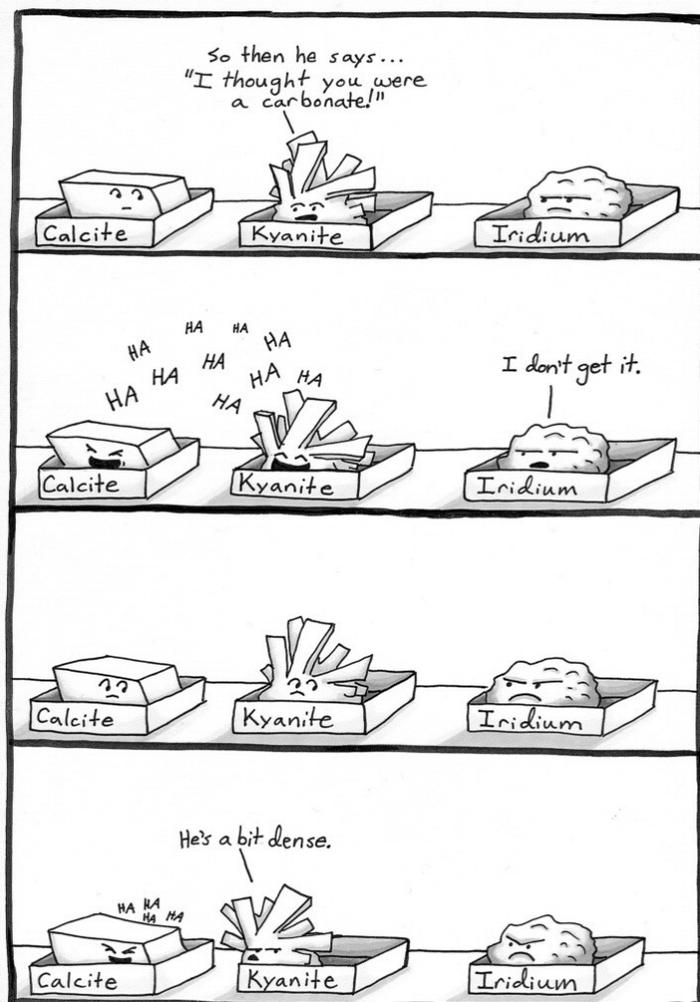
Be Safe Out There,

*Wayne Mills*

## MINERAL HUMOR

By DonyaQuick

<https://www.deviantart.com/donyaquick/art/Mineral-Humor-69033878>



## UPCOMING CFMS SHOWS

**August 2, 3 & 4: NIPOMO, CA**

Orcutt Mineral Society  
Nipomo High School  
525 Thompson Avenue  
Hours: Fri-Sat 10 - 5, Sun 10 - 4  
Contact: Wayne Mills, (805) 481-3495  
Email: [wwmills50@hotmail.com](mailto:wwmills50@hotmail.com)  
Website: [omsinc.org](http://omsinc.org)

**September 7 - 8: ARROYO GRANDE, CA**

San Luis Obispo Gem & Mineral Club  
South County Regional Center  
800 West Branch Street  
Hours: 10 - 5 daily  
Email: [info@slogem.org](mailto:info@slogem.org)  
Website: [slogem.org](http://slogem.org)

## OMS CALENDAR

JULY 2019	
<b>Tue, Jul 1 7 to 8 p.m.</b>	<b>OMS Board Meeting, Nipomo Chamber of Commerce</b> 239 W Tefft St, Nipomo All members are welcome.
<b>Tue, Jul 8 7 to 9 p.m.</b>	<b>General Meeting: Oasis Senior Center</b> 420 Soares Av, Santa Maria, CA <b>Program:</b> Caves by Bill Brown <b>Display:</b> Forms of Calcite or ANYTHING rock or mineral <b>Refreshments</b> will be Cakes brought by the Azevedos, Browns, Hensons, and Nasholms.
<b>Sat, Jul 13 8 a.m.</b>	<b>Highway Clean-up</b> Southeast Corner Hwy 101/166 East
<b>Sat, Jul 27 8:30 a.m.</b>	<b>OMS Monthly Breakfast</b> Little Bits, 151 N 7th, Grover Beach
AUGUST 2019	
<b>Wed - Mon July 31 - Aug 5</b>	<b>OMS 22nd Annual Gem Show</b> <b>Set-up:</b> Wed 9 a.m. & Thu 8 a.m. <b>Show:</b> Fri-Sat 10 a.m. - 5 p.m., Sun 10 a.m. - 4 p.m. <b>Take-down</b> Sunday 4 p.m. - 7 p.m. <b>Dinner:</b> Sunday 7:30 p.m. Las Cazuelas <b>Clean-up:</b> Monday 9 a.m.
<b>Tue, Aug 6 7 to 8 p.m.</b>	<b>OMS Board Meeting, Nipomo Chamber of Commerce</b> 239 W Tefft St, Nipomo All members are welcome.
<b>Tue, Aug 13 7 to 8 p.m.</b>	<b>General Meeting: Oasis Senior Center</b> 420 Soares Av, Santa Maria, CA <b>Program:</b> To be chosen by Bill Brown <b>Display:</b> Forms of Calcite or ANYTHING rock or mineral <b>Refreshments</b> will be Cookies brought by Azevedos, Truman Burgess, Debbie Hood, and Don Nasholm.
<b>Sat, Aug 8:30 a.m.</b>	<b>OMS Monthly Breakfast</b> Hometown Buffet 1431 S Bradley Rd, Santa Maria

## 2019 OMS OFFICERS

<b>President</b>	Wayne Mills	(805) 481-3495
<b>President-Elect</b>	Bill Brown	(805) 481-1811
<b>Secretary</b>	Debbie Hood	(805) 481-6860
<b>Treasurer</b>	Jeanne Watkins Brown	(805) 481-1811
<b>Imm. Past Pres.</b>	Sylvia Nasholm	(805) 481-0923

## 2019 OMS BOARD MEMBERS

Dick Bazzell	(805) 736-5033
Dyanna Cridelich	(805) 937-4347
Jan Ferguson	(805) 474-9977
Alexis Van Natta	(805) 937-4347
Renea Sutcliffe	(805) 929-2783

## CFMS FEDERATION DIRECTOR

Renea Sutcliffe	(805) 929-2783
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**OMS Membership:** \$24 for Individual, \$34 per couple, \$5 Each Additional Family Member, \$5 for Juniors under age of 18. One-time \$10 initiation fee for new members.

### Membership Chairperson:

Debbie Hood (805) 481-6860

**OMS Webmaster:** Bill Brown (805) 481-1811

OMS web site [www.omsinc.org](http://www.omsinc.org)

e-mail [info@omsinc.org](mailto:info@omsinc.org)

**Ore-Cutts Editor/Publisher:** Elisabeth Nybo

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**ORCUTT MINERAL SOCIETY BOARD MEETING  
LUIS OASIS SENIOR CENTER  
ORCUTT, CA  
MAY 7, 2019**

Members present: Wayne Mills, Jan Ferguson, Jeanne Brown, Bill Brown, Debbie Hood, Renea Suttcliffe and Dick Bazzell.

Meeting opened at 7:05 p.m. by President Wayne Mills.

Minutes of the May General Meeting published in newsletter and accepted as published.

**Treasurer's Report:** given by Jeanne Brown and accepted as given.

**Correspondence:** Lee Central Coast Newspapers bill-Sylvia is dealing with this, Salvation Army solicitation for donation, OMS bulletins for Moniah M. and Debbie Hood returned due to address issues-given to Elisabeth Nybo, AFMS Newsletter-given to Elisabeth Nybo, ad for Chase Business Banking services x 2.

**Committee Reports:**

**Bulletin:** is out and looks good.

Refreshments: Sally noted that everybody will bring dishes for the Semi-Annual Meeting.

**CFMS:** Renea, no report.

**Membership:** Debbie still has not heard from Fred Campbell. Wayne will try to call him.

**Field Trip:** Wayne reported the 18 May trip to Ozena was fun.

**Adopt-A-Highway:** Wayne reported they had 6 people helping in May. Wes Lingerfelt won door prize, again!

**Breakfast:** Will be June 22, at Denny's in Santa Maria at 0830.

**Education:** Wayne had no report.

**Library:** Alexis was absent, no report.

**Sunshine:** Mike Henson is doing better. Don Nasholm is better. Alexis Van Atta & Dyana Credilich are improving,

**Scholarship:** Wayne reported no response yet from Santa Barbara City College to his request for help at the show or a program in November.

**Show:** Insurance has come through for the high school, still awaiting contract with the school. Beachwalk BBQ has backed out of their contract for the Sat BBQ, Jeanne Brown found and booked Popolo to replace them. Tickets will be \$20.00 for a Santa Maria style BBQ-

members who work at least 3 shifts will pay \$10.00. Give Treasure Chest items to Jeanne Brown. Sign up for display cases with Elaine Von Achen.

**Old Business:** Insurance form is in to City of Santa Maria. All is ready for the semi-annual meeting.

**New Business:** Program for July will be Bill Brown on Caves, display is any form of Calcite.

Jeanne Brown reported that the Chamber map is not really for us, but an ad in the Chamber Newsletter will be better.

Meeting adjourned at 8:08pm.

Respectfully submitted,  
Deborah Hood, Secretary OMS

The ORE-CUTTS, named after William Orcutt, was first published in 1966. Member Helen Azevedo was the first editor.

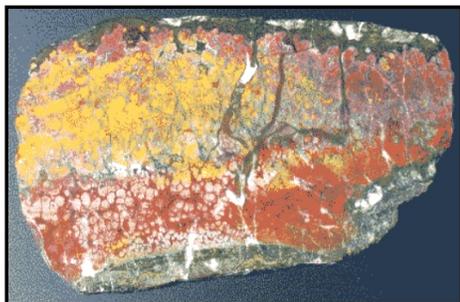
The Orcutt Mineral Society (OMS) was founded in 1958, was also named after William Orcutt. He was a geologist and civil engineer who, in 1888, worked in the Santa Maria Valley as a District Manager for Union Oil Company. In 1889, William Orcutt discovered the mineral and fossil wealth of the La Brea Tar Pits in Los Angeles, on the property of Captain Alan Hancock there. The La Brea Tar Pits are one of the most significant fossil finds in paleontological history.

OMS is a public-benefit, non-profit organization dedicated to stimulating an interest in the earth sciences. The club offers educational programs, field trips, scholarships, and other opportunities for families and individuals to pursue an interest in the collecting and treatment of lapidary materials, fossils, gems, minerals, and other facets of the Earth Sciences.

Additionally, another goal of this Society is to promote good fellowship and proper ethics in pursuit of the Society's endeavors. Operating Rules have been set forth to guide the officers and members of the Society in accomplishing these aims. OMS affiliations include American Federation of Mineral Societies, and California Federation of Mineral Societies.



# ORCUTT MINERAL SOCIETY - 52<sup>nd</sup> ANNUAL RAINBOW OF GEMS SHOW



"Flower" Jasper—Figueroa Mt.

**Friday - Sunday  
August 2 - 4, 2019**

**Nipomo High School  
525 N. Thompson Ave  
Nipomo, CA**



Marcasite Agate —Nipomo



"Happy Star" — New Cuyama  
*Vaquerosella coryei* ~15 mya



"Jaws" — Gaviota Coast  
*Isurus sp.* ~15 mya



Aragonite Sagenite Agate—SLO-1

**Friday - Sunday August 2 - 4, 2019**

**(10-5 Fri & Sat, 10-4 Sun)**

**Nipomo High School**

**525 N. Thompson Ave, Nipomo, CA**

**50+ Inside and Outside dealers, displays  
and lapidary arts demonstrations, Plus Kid's activities,  
Treasure Chest, Gold Prospectors and great food!**

**Barbecue Saturday at 5:30 pm  
Treasure Chest Drawing Sunday at 3 pm**

**ADMISSION AND PARKING ARE FREE**

(District Policy forbids pets, alcohol, and tobacco)

**"Come for the weather, stay for the rocks!"**

Information at [www.omsinc.org](http://www.omsinc.org)

