



P. O. BOX 51
SANTA ANA, CA. 92702



SANTA ANA ROCK & MINERAL CLUB

BOARD OF DIRECTORS

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Secretary	Leah Harden-O'Brien	714-963-3708
Treasurer	Charlotte Spalding	714 531-4058
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COMMITTEE CHAIRMEN

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SARM EMAIL: sarmclub@gmail.com
 WEB SITE: <http://www.sarmclub.org>
 WEB MASTER: pam1.greene@gmail.com

WORK SHOP: At the Greene's (members only)
 first full weekend of the month
 9 am to noon
 call Pam Greene at 949 548-0752
 to request flexible times

Santa Ana Rock & Mineral

P.O. Box 51
 Santa Ana, CA 92702

CLUB PURPOSE

The purpose of the Club is to offer an opportunity for those who are interested in rocks, minerals and fossils, to gather at regular meetings, display and examine items of interest in the hobby, to promote and also encourage the art and practice of lapidary, to exchange experiences and ideas, to organize field trips for members and guests, and to promote the general interest in and knowledge of the hobby.

MEETING: Visitors are welcome!
 7:00 PM, 3rd Wednesday of the month
 except July & December.

WHERE: 10739 Los Jardines West
 Fountain Valley, Ca 92708

SARM is a member of CFMS
 (California Federation of Mineralogical Societies)

For more information on shows and events check
 out their web site at :<http://www.cfmsinc.org>



CLUB PUBLICATIONS: All items may be quoted unless otherwise noted, we only ask that credit be given and we'll do the same.

BARTER ADS: Free lines to members for trading items - as space permits.

CLUB CALENDAR -AUGUST, 2016

AUG.	1	MONDAY 6:30 PM BOARD MEETING TO UPDATE BY-LAWS AT JIM DEMARCO'S
AUG.	6 & 7	*** SATURDAY & SUNDAY *** WORKSHOP 9:00 AM NOON
AUG.	17	WEDNESDAY 7 PM GENERAL MEETING SPEAKER: WALTER LOMBARDO TOPIC: BIRTHSTONES
AUG.	27	SATURDAY - 11:00 AM ANNUAL PICNIC AT PAM & DON GREENE'S
SEPT.	3 & 4	*** SATURDAY & SUNDAY *** WORKSHOP 9:00 AM NOON

FLEXIBLE WORKSHOP

If you want to use the workshop at times other than the scheduled days, call Pam or Don at (949) 548-0752 to see if we're going to be home. We're pretty flexible. Short notice is fine. If we'll be home you can use it.

Men Are Just Happier People ;

What do you expect from such simple creatures? Your last name stays put. The garage is all yours. Wedding plans take care of themselves. Chocolate is just another snack. You can never be pregnant. You can wear a white T-shirt to a water park. You can wear NO shirt to a water park. Car mechanics tell you the truth. The world is your urinal. You never have to drive to another gas station restroom because this one is just too icky. You don't have to stop and think of which way to turn a nut on a bolt. Same work, more pay. Wrinkles add character. Wedding dress \$5000. Tux rental-\$100. People never stare at your chest when you're talking to them. New shoes don't cut, blister, or mangle your feet. One mood all the time. Phone conversations are over in 30 seconds flat. You know stuff about tanks. A five-day vacation requires only one suitcase. You can open all your own jars. You get extra credit for the slightest act of thoughtfulness. If someone forgets to invite you, he or she can still be your friend. Your underwear is \$8.95 for a three-pack. Two pairs of shoes are more than enough.. You almost never have strap problems in public You are unable to see wrinkles in your clothes. Everything on your face stays its original color.. The same hairstyle lasts for years, maybe decades. You only have to shave your face and neck. You can play with toys all your life. One wallet and one pair of shoes -- one color for all seasons. You can wear shorts no matter how your legs look.. You can 'do' your nails with a pocket knife. You have freedom of choice concerning growing a mustache. You can do Christmas shopping for 25 relatives On December 24 in 25 minutes.

No wonder men are happier

President's Message for August, 2016

I hope everyone is enjoying the summer activities. Please remember our August 17th meeting at 7:00 PM where Walter Lombardo will be our guest speaker. Also, schedule in Saturday, August 27th; we will be having our usual club picnic at the Greene's home. We begin around 11 AM until we end. With all this in mind, please continue collecting rocks for our upcoming Silent Auction on September 21st. Our goal is to make this a very successful Silent Auction. I look forward to seeing all of you at these events.

Patricia Voss, President Trish Voss



SANTA ANA ROCK AND MINERAL CLUB
MINUTES OF THE GENERAL MEMBERS MEETING
HELD ON JUNE 15th, 2016

Meeting called to order by President at 7:10pm with the Pledge of Allegiance. 12 members in attendance and 6 visitors.

CLUB BUSINESS:

HOSPITALITY: Officer Claudia provided refreshments including fresh coffee, water and cookies.

TREASURER'S REPORT: For May took in \$43., spent \$10.47 balance \$2749.

FEDERATION: Officer Jim reports; picnic at Green Valley successful. Pieces were sold and lots of club brochures given out.

MINUTES: May minutes approved as printed in April newsletter.

WORKSHOP: Now has small Kiln so members can work on dichroic glass projects.

NEW BUSINESS:

SHOW & CROW: Carol shared a recent find at local thrift store; two large petrified wood bookends for \$8. Jim brought cabochons for sale and Robert talked about his recent travels finding new mineral specimens.

NAME CHANGE: New member suggestions to a new name for 'Show & Crow' were added to list to be voted on at August meeting. List of suggestions so far are: Show & Shine; Bring & Bling; Bling & Tell; Show, Shout & Shine; Share & Care; Show, Story & Sell; Exhibit & Educate; Show & Sell; Show, Shine & Sell and Teasing Table. Think of new suggestions and tell Secretary at next meeting.

Break before activity at 7:15.

ACTIVITY: At 7:30 Pam instructed members how to make a wire wrapped pendant. Pam brought lots of examples of her own handmade pieces showing a variety of what is possible to make with wire wrapping. Materials were provided by club. Members learned new techniques and left with a complete new piece of jewelry.

Opportunity drawing tickets sold 3 for \$1.00 by Jim and winners called at end of activity.

Door Prizes: Donated by Paul Berg and Robert Burson.

Meeting adjourned at 8:35 pm.

Secretary, Leah Harden-O'Brien

GENERAL MEETING

WEDNESDAY, AUGUST 17, 2016

Our speaker for August will be Walter Lombardo, a geologist with over 30 years experience related to mining and mineral exploration. For 16 years, he managed the Las Vegas Office for the Nevada Division of Minerals. He has also worked for several mining and exploration companies, most recently managing the North American exploration program for a Canadian junior mining company. Walt's expertise is mineralogy and geologic information.

His topic for the evening will be Birthstones.

Walter is now the owner of the Nevada Mineral & Book Company, an earth science bookstore and natural history gallery with the largest inventory of earth science publications (new, used and rare) in North America. The store is located at

342 S. Tustin Street,
Orange, CA 92866
Ph. 714-633-1549



AUGUST BIRTHSTONE

Those born in August have two birthstones to choose from: Peridot and Sardonyx.

Peridot is said to host magical powers and healing properties to protect against nightmares and to bring the wearer power, influence, and a wonderful year.



As peridot is a gemstone that forms deep inside the earth and brought to the surface by volcanoes, in Hawaii, peridot symbolizes the tears of Pele, the goddess of fire and volcanoes.

Today, most of the peridot supply comes from Arizona; other sources are China, Myanmar, and Pakistan. This gemstone comes in several color variations ranging from yellowish green to brown, but most consumers are attracted to the bright lime greens and olive greens.

Peridot, in smaller sizes, often is used in beaded necklaces and bracelets.

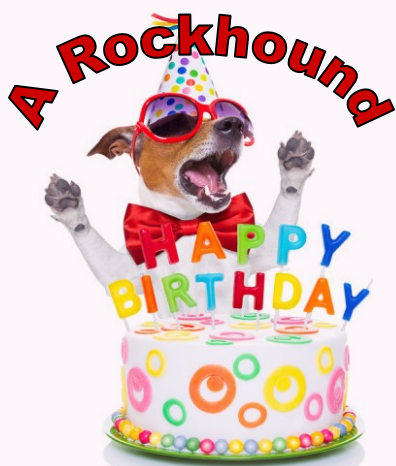


Sardonyx is a form of onyx and is recognized by its layers of reddish-brown and white banding. This gemstone is found throughout the world. The most attractive specimens are found in India, but material also is mined in Czechoslovakia, Brazil, Uruguay, Germany, and in the United States.



It was popular with the ancient Greeks and Romans who carried into battle talismans of sardonyx engraved with images of heroes such as Mars or Hercules, believing that this would bring courage and victory.

Because of its attractive banding, sardonyx has long been used to fashion cameos (carved raised figures) and intaglios (the reverse of cameos).



Aug. 1 Cynthia Di Paolo
Aug. 4 Mathew Barber
Aug. 18 Carl O'Dell

SHOP HINTS

CLEANING STEEL SHOT: Steel shot in a vibratory or rotary tumbler works great to burnish up your finished silver pieces. Surfaces are shined and hardened by the shot impinging on it. Carbon steel shot can get rusty and even stainless steel can develop a blackish coating that's hard to remove. My solution of choice to clean the shot is Classic Coke. Just pour an ounce or two over the shot and let the tumbler run for an hour or so. A bad case might require a second cleaning. I'm no chemist, but I've heard that it's the phosphoric acid in Coke that does the trick. While you're waiting for the shot to clean up, just settle back and enjoy the rest of the Coke.



BenchTips by Brad Smith are at: Yahoogroups.com/group/BenchTips
via Rocky Review 12/2011

RECLAIM CUTTING OIL: To Reclaim cutting oil, use ½ gallon milk cartons. Pour in the old oil and add a small amount of water. Let the sludge settle for a few days, then put the cartons in the freezer. The water will freeze, and the oil will rise to the top and can be poured off.

Cosmetic Minerals of Ancient Egypt

Minerals have been used for adornment for millennia. The Egyptians made an extensive use of many familiar minerals, and, according to recent discoveries, synthesized other compounds using relatively sophisticated chemical techniques.

Egyptians were fond of eye and face coloration of white, green and black. Generally these were mineral powders mixed into pastes with fats. Minerals commonly used to make black powders were galena (PbS), manganese oxides such as pyrolusite, magnetite (iron oxide), cuprite and tenorite (copper oxides), and stibnite (antimony sulfide).



Green eye paints used malachite (copper carbonate) and chrysocolla (hydrated copper silicate). White face paint often came from cerussite (lead carbonate). One might speculate on the health effects of spreading such poisonous compounds thickly over one's face!

The above mentioned minerals are common in deposits accessible to the Egyptians. Recent work on cosmetic powders preserved in their original containers and stored in the Louvre has turned up several rare minerals used as pigments. These minerals were either very rare or are unknown in Egyptian deposits. These are phosgenite (a lead chlorocarbonate) and laurionite (a lead chlorohydroxide). Both would be suitable for white pigments, if found in quantity. Laurionite is a famous mineral from the ancient deposits at Laurium Greece, where it is formed by the action of salty water on slags. It also occurs rarely in other oxidized zones over ore deposits, such as in Cornwall, England. Phosgenite is a bit more common, and can form with laurionite and other minerals in oxidized zones. The conditions of preservation of

these minerals in Egyptian cosmetics make it unlikely that they are the effects of subsequent weathering of the cosmetics, but were originally pigment components.

A recent article in Nature, speculates that the phosgenite and laurionite were synthesized by the Egyptians. Both could form from mixtures of smelted lead oxides in the presence of carbonate and salt water. Scientists were able to form these minerals using techniques accessible to the ancient Egyptians. They followed recipes for medicines described on papyrus. This called for lead oxide mixed in water with salt, natron. The reaction is slow and delicate, but produced laurionite that matches morphologically that found as face paint in Egyptian tombs. A similar technique should produce phosgenite. The delicacy of the process suggests a surprising knowledge of wet-chemical techniques 4,000 years ago. Clues for their formation could have come from observations during the processing of galena or weathering of lead articles. These papyrus list in addition, over 100 recipes using minerals or synthesized compounds for treatment of a variety of ailments. It is apparent that ancient Egypt harbored its own creative scientists inspired by observations on minerals to create desired (if unhealthy) products.



- via MOROKS 8/2013

The Aragonite Group of Minerals

The aragonite group of minerals has chemical formulas that are very similar to the calcite group minerals. They all have CO₃ molecules. Each mineral species in this group has a different element in it. Look at the table below. Aragonite has calcium (Ca), witherite has barium (Ba), strontianite has strontium (Sr) and cerussite has lead (Pb). There is another difference between the aragonite group of minerals and the calcite group: the aragonite group all crystallize in the orthorhombic crystal system (where the calcite group minerals crystallized in the hexagonal (rhombohedral) system). In addition, all of the aragonite group minerals often have three individual crystals that intergrow and form a single crystal that looks like it has six sides. In other words, they look like they crystallize in the hexagonal crystal system when, in reality, they do not. The mineral species that belong to the aragonite group are aragonite, witherite, strontianite, and cerussite. Aragonite can be white or gray. Many of the crystals from Aragon, Spain (from where this mineral gets its name) can be white with hints of purple.

Aragonite	CaCO ₃
Witherite	BaCO ₃
Strontianite	SrCO ₃
Cerussite	PbCO ₃



Witherite



Strontianite



Aragointe



Cerussite

Via the Rock Slab News 5/2015

UPCOMING CLUB SHOWS & EVENTS

August 5 - 7: NIPOMO, CA
 Orcutt Mineral Society
 Nipomo High School
 525 North Thompson Avenue
 Hours: Fri/Sat 10 - 5; Sun 10 - 4

August 13 - 14: SAN FRANCISCO, CA
 San Francisco Gem & Mineral Society
 San Francisco County Fair Building
 9th Avenue & Lincoln Way
 Hours: Sat. 10 - 6; Sun. 10 - 5

September 16 - 18: PLACERVILLE, CA
 77th CFMS Show & Convention
 El Dorado County Mineral & Gem Society
 El Dorado County Fairgrounds
 100 Placerville Drive
 Hours: Fri - Sun 10 - 5 daily

September 17 - 18: CHICO, CA
 Feather River Lapidary & Mineral Society, Oroville
 Silver Dollar Fairgrounds
 2357 Fair Street
 Hours: Sat 9:30 - 5; Sun 9:30 - 4

September 24 - 25: LODI, CA
 Stockton Lapidary & Mineral Club
 Lodi Grape & Harvest Festival Grounds
 413 East Lockford Street
 Hours: 10 - 5 daily

September 24 - 25: MONTEREY, CA
 Carmel Valley Gem & Mineral Society
 Monterey Fairgrounds
 2004 Fairgrounds Road
 Hours: Sat 10 - 6; Sun 10 - 5

September 24 - 25: REDWOOD CITY, CA
 Sequoia Gem & Mineral Society
 Community Activities Building
 1400 Roosevelt Avenue
 Hours: 10 - 5 daily

September 24 - 25: SANTA ROSA, CA
 Santa Rosa Mineral & Gem Society
 Wells Fargo Center for the Art
 50 Mark West Springs Road
 Hours: Sat 10 - 6; Sun 10 - 5

ANNUAL CLUB PICNIC - BBQ SATURDAY, AUGUST 27, 11:00 AM UNTIL IT'S OVER Plan on a leisurely day of good food, good friends, and good fun!!

The annual club picnic will be at Pam & Don Greene's again this year .

This club event is for everyone, so bring friends, family and visitors. We visit, play games, eat good food, and just enjoy the day. It's an opportunity to get to know your fellow club members, get your friends and family interested in your club, and have a good time.

We'll have games to play for big and little kids, and lots of great food. The club will provide hot dogs & hamburgers with all the trimmings, drinks, plates, and tableware. Each family should bring a potluck dish to share (dessert, salad, main dish or whatever takes your fancy), and if you have some favorite games, bring them along to share.

Since the shop is now at the Greene's it will also be available for use, and if you want to share your craft ideas bring them too. They don't necessarily have to be rock related.

The address is: 2567 Westminster Ave., Costa Mesa.

If you get lost call Pam or Don at (949) 548-0752.

Hope to see you there.



SHOP HINTS

When working with a soft stone such as onyx or marble, soak it in water for a few days before cutting to keep oil from soaking in to discolor the stone. It also results in a higher polish.

Rock Chips 10/88

To avoid spilling small stones on a field trip, have a can with a plastic lid handy. Cut a plus sign in the lid and simply push the stones through the plus. A cloth or paper cushion in the bottom of the can protects the stones.

Rocky Review, via Breccia 9/97