

NOC NEWS

NORTH ORANGE COUNTY GEM AND MINERAL SOCIETY, INC.

ALL AMERICAN CLUB
1985, 1986, 1988, 1989, 1990, 1992

A member of the
AMERICAN FEDERATION OF MINERALOGICAL SOCIETIES
CALIFORNIA FEDERATION OF MINERALOGICAL SOCIETIES

Meetings

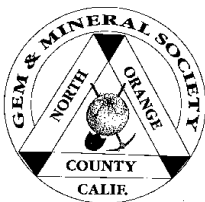
Day and Location:

With the exception of July, August and December,
meetings are held at 6:30 p.m.
the second Wednesday of the month at the
La Habra Community Center
101 W. La Habra Blvd., La Habra

The La Habra Community Center
is located west of Euclid on La Habra Blvd.

For current meeting information,
please call Armando Pedroza First Vice President
(909) 444-2727

North Orange County Gem & Mineral Society, Inc.
Box 653
La Habra, CA 90633-0653
<http://www.nocgms.com>



<http://www.cfmsinc.org>

DATED MATERIAL-DO NOT DELAY
June 2019

NORTH ORANGE COUNTY GEM AND MINERAL SOCIETY, INC.

P.O. Box 653

La Habra, California 90633-653

Regular meetings are held the second Wednesday of each month (excluding July, August and December) at the La Habra Community Center, 101 W. La Habra Blvd., La Habra (west of Euclid).

2019-20 OFFICERS

President	Kevin Smith	(714) 342-1227	nocgemsociety@gmail.com
First Vice President	Armando Pedroza	(909) 444-2727	ForestandSUN@yahoo.com
Second Vice President	Janet Cohen	(562) 691-8012	jannc418@gmail.com
Secretary	Teri Heuer	(951) 640-2923	terishelp@yahoo.com
Treasurer	Theresa Sharp	(562) 440- 3142	tsharp@dusd.net
Federation Director	Loretta Ogden	(909) 598-2456	fbriktr1@aol.com
Director	Don Ogden	(909) 598-2456	donogden@aol.com
Director	Beth Smith	(714) 686-4341	kangenbeth@gmail.com
Director	Alan Heuer	(951) 640-2923	terishelp@yahoo.com
Director	Matthew Pedroza	(909) 444-2727	ForestandSUN@yahoo.com
Director	Open	(.....	x

2019-20 COMMITTEE CHAIRPERSONS

Operating Supplies	Open	(.....	x
Budget & Finance	Theresa Sharp	(562) 440-3142	tsharp@dusd.net
Bulletin Editors	Don & Loretta Ogden	(909) 598-2456	donogden@aol.com
Displays & Education	Loretta Ogden	(909) 598-2456	fbriktr1@aol.com
Door Prizes	Beth Smith	(714) 686-4341	kangenbeth@gmail.com
Field Trips	Richard Sprowls	(562) 448-3126	RichSprowls@gmail.com
Historian	Matthew Pedroca	(909)444-2727	ForestandSUN@yahoo.com
Hospitality & Membership	Nancy O'Connor	(562) 690-6878	oconnornancym@gmail.com
Insurance	Theresa Sharp	(562) 440-3142	tsharp@dusd.net
Librarian	TeriHeuer	(951) 640-2923	terishelp@yahoo.com
Oper. Regulations & By-Laws ...	Open	()	x
Programs	Armando Pedroza	(909) 444-2727	ForestandSUN@yahoo.com
Publicity	Open	(.....	x
Refreshments	Rose Pedroza	(909) 444-2727	ForestandSUN@yahoo.com
Show Chairperson	Armando Pedroza	(909) 444-2727	ForestandSUN@yahoo.com
Social Secretary	Open	(.....	x
Future Rockhounds:	Open	(.....	x

MISSION STATEMENT

The objective and purpose of the North Orange County Gem and Mineral Society is to disseminate knowledge of mineralogy and the earth sciences and to encourage study in these subjects through means of: the presentation of public exhibitions, lectures, slide programs; field trips for explorations, study and collection of specimens; the preparation, publication and distribution of articles and studies pertaining to mineralogy and the earth sciences; the promotion of scientific research in these fields; the encouragement of interest among young people and the fostering of classes in mineralogy and lapidary arts; and all other means which are appropriate to the accomplishment of the primary objectives set forth.

Annual Membership Dues: Individual, \$20; Family, \$20 and \$10 for additional member over 18; Juniors 7-17, \$8. (Initiation Fee: Individual, \$10; Family \$10) - Badges for junior members \$10 1 time fee.

Visitors are always welcome at our regular meetings and field trips.

The North Orange County Gem & Mineral Soc. does not yet have a Junior Division.

Material contained in this newsletter may be used if credit is given.

Please send exchange bulletins to:

Don & Loretta Ogden, Co-Editors
NOC Gem & Mineral Society, Inc.
20904 Trigger Ln.
Diamond Bar, CA 91765
909-598-2456

NOC GEM & MINERAL SOCIETY NEWS

Vol. 38 No, 6

June 2019

President's Message

Welcome to June 2019. This is the biggest month for our club. That's right it is almost time for the BIG SHOW, as I call it. This is where our club shines for all to see. The amount of attention we get is huge and for good reason. We have one of the biggest shows in the state and people from all over come to see what we are all about.

So, when is the show you may ask? Well Its June 7th, 8th, and 9th. 2019. We encourage for all our club members to attend, so come on out and have some fun. It is free to get in and free parking, it does not get any better than that. And while you are there grab some tickets and try to win some of the great prizes, we have instore for you.

The Avocado show was also a great event we had a great time talking to people and having a raffle the winners were very excited to win their prizes. If you missed this event it was held in the La Habra Heights just up the hill from the Community Center. There were a lot of vendors there and a wide variety of things to look at and buy. If you love avocados you would have a great time at this event.

One last note we will go dark for the months of July And August we will be recharging our batteries and planning events and getting ready for the silent auction and the Halloween event and Christmas dinner.

Wow that was a lot of stuff to cover.
See everyone at the BIG SHOW. That's all for now.

Kevin Smith
President NOCGMS



NOC Club Activities

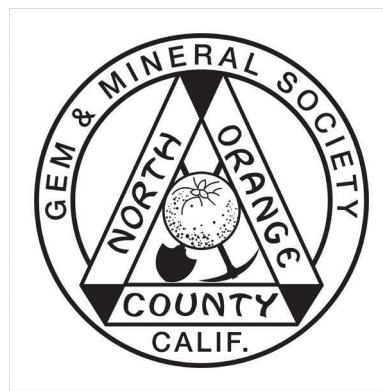
Board Meeting - 6 p.m. 1st Wed. at La Habra
No Board Meeting in July and August
Next Board Meeting September 4
Community Center -
Field Trips - TBD

Program

The program for June 12 will be on collecting old books by Walt Lumbaro of Nevada Mineral & Book Company.

Meeting

Date: Wednesday June 12
Time: 6:30 p.m.
Place: La Habra Community Center
101 W. La Habra Blvd.
No Meeting in July and August
Next Meeting September 11



Shows and Events

2019 SHOWS

JUNE 7, 8 & 9: LA HABRA, CA
North Orange County Gem & Mineral Society
La Habra Community Center
101 W. La Habra Blvd.
Hours: Fri 5-8; Sat. 10-8: Sun 10-4
Contact: Armando Perdoza, 909 598-2456
Email: forestandsun@yahoo.com
Website: nocgms.com

JUNE 8 - 9: GLENDORA, CA
Glendora Gems
Goddard Middle School
859 E. Sierra Madre Avenue
Hours: Sat. 10-5: Sun 10-4
Contact: Bonnie Bidwell, 626 963-4638
Email: ybirwell2@aol.com

JUNE 29 - 30: CULVER CITY, CA
Culver City Rock & Mineral Club
Veterans Memorial Auditorium
4117 Overland Blvd
Hours: Sat. 10-6: Sun 10-5
Contact: Janice Metz, 310 850-4398
Email: culvercityrocks.org
Website culvercityrocks.org

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
Website: omsinc.org

SEPTEMBER 21: LONG BEACH, CA
Long Beach Mineral & Gem Society
Expo Arts Center
4321 Atlantic Avenue
Hours: 10:00 - 5:00
Contact: Carol Kron, 562 577-9044
Email: lbmineralgemsociety@gmail.com

Searles Lake Gem & Mineral Society
Trona Gem Building
13337 Main Street
Hours: Sat 7:30 - 5:00; Sun 7:30 - 3:00
Contact: Jim & Bonnie Fairchild, 760 372-5356
Email: slgms@iwvisp.com
Website: iwvisp.com/tronagemclub

NOVEMBER 2 - 3: ANAHEIM, CA
American Opal Society
Business Expo Center
1916 S. Anaheim Way
Hours: Sat 10 - 6; Sun 10 - 5
Contact: Veronica Purpura, 714 501-9959
Email: info@opalsociety.org
Website: opalsociety.org

OCTOBER 12 - 13: TRONA, CA

NOC News - June 2019

2019 Gem Show Set Up Schedule

Friday Schedule

7:00 AM

Need at least 3 trucks for transporting items from storage.

Meet at Storage located at 999 E. Lambert Rd. La Habra

Volunteers:

Armando and Matt Pedroza, Kevin Smith, Rich Sprowls, Alan Heuer, Ryan Jackson, Mario Sampedro, Dean Wanless

Items needed from storage:

1. Banners: (2) sail/ feather banners (1) rectangle NOC Banner for patio
2. Electrical junction boxes and extension cords
3. (5) Complete Display cases, locks, lighting and inside wall inserts
4. Wood w/glass Grand Prize display case
5. Metal case used for prize display
6. Large Coffee pot
7. Cash boxes
8. Water pitchers
9. Raffle drum
10. Bucket w/door stoppers
11. Spinning wheel and tray
12. Large Black plastic trays, sand and scoops
13. EZ UP

8:00 AM

Meet at Community Center

Volunteers:

Pedroza's, Smith's, Heuer's, O'Connor's, Sprowls, Jackson's, Ogden's, Sampedro, Wanless, Sharp

Set Up:

1. Run electrical w/junction boxes under vendor tables
2. Place additional junction boxes along wall outlets as needed
3. Construct display cases and connect lighting
4. Place prize display cases and raffle drum in raffle area
5. Assemble spinning wheel

8:00 AM to 3 PM

Volunteers:

Smith's, Heuer's, O'Connor's, Sprowls, Jackson's, Ogden's, Sampedro, Wanless, Sharp, Pedroza's

Set Up continues:

6. Set up Geode area
7. Set up Sand Scoop area
8. Skirt Display cases
9. Skirt Registration and Raffle tables
10. Skirt Grab bag table
11. Skirt Demonstrator's tables
12. Skirt Walt Wright's tables
13. Skirt Vendors according to list
14. Tape Vendor Name Tag's on table tops according to map
15. Skirt Geode tables
16. Skirt Spinning wheel table
17. Skirt Sand scoop table
18. Place boxed Coffee Pot and water pitchers in kitchen anywhere on counter top
19. Set up kids room
20. Place all club empty crates, half-filled crates or un-needed supplies in storage room located in the El Camino room.

2:00 PM to 4:00 PM

Demonstrators arrive and set up

4:00 PM to 5:30 PM

Friday Meal Volunteers:

O'Connor's, Terry Sharp and Lisbeth Jaasko

1. Kitchen crew meet w/Nancy O'Connor for kitchen set up.
2. Cleaning up kitchen as it slows down, completely clean by 6:45PM.
3. Wiping down eating tables as needed

5:00 PM

Show Begins

6:00 PM

Scholarship Award presentation by Alan Heuer

8:00 PM

Concludes Show for Friday.

Thank you for all your hard work and getting this year's show off to a good start!.

North Orange County Gem & Mineral Society Meeting Minutes

May 8, 2019 La Habra Community Center
Attendance: Members- 21 Guest- 0

At 7:00 p.m. President – Kevin Smith opened our general meeting. Kevin spoke about the Citrus Fair. He also spoke about the upcoming Avocado Festival. NOC will have a booth from 10 a.m. to 4 p.m. The NOC booth will be used to promote our NOC Club including membership information and our upcoming Gem Show, June 7, 8, and 9 2019 at the La Habra Community Center.

Field Trip will be at Kramer Junctions Opal Mountain off the 395/58 Junction.

Kevin told us members, to let him know “What we would be interested in doing within our club?” Example: Rockhounding, Identification of Minerals, Rocks & Gems, Learning to use Lapidary equipment, learning bead working, etc.....

Vice President – Show Chairman Armando Pedroza brought in our NOC saws to demonstrate how we open GEODES for our show and other community functions. Armando, Heather and Matt work our Geode Booth for our NOC Gem Show.

Raffle Tickets are ready and Alan & Teri Heuer started to distribute the tickets to our NOC club members. All NOC members are responsible for 1 package of 24 Tickets at \$20.00. These tickets are for your own use of to sell. Ticket prices are \$1.00 per tickets or 6 tickets for \$5.00 or 24 tickets for \$20.00. If you are a superstar ticket seller and run out, please text/call Alan at 951-296-8773 or Teri at 951-640-2923 and arrangements will be made to get you more tickets. All prize winners will be contacted and do not need to be present to win.

Snack Time was brought to all of us by our members, Monique Forcier and Heather Bates.

Break time Play, Beth Smith always makes this a fun time.

Scholarship Chair – Alan Heuer will be presenting our 2019 Scholarship award checks to our winners at our NOC Gem Show Friday Night at 6:00PM.

Meeting Adjourned 9:00 p.m.

Minutes by NOC Secretary – Teri Heuer
Please contact Teri Heuer call/text 951-640-2923 for comments, corrections or feedback or for anything.

Email: terishelp@yahoo.com Subject Line: NOC Member... (So I know to look at it right away)

Membership Information

By Nancy O'Connor

Membership Dues are now overdue.
Dues can be paid at the June meeting.

Dues can also be paid by downloading the application and sending it with your check to the P.O. Box below.

All new members must fill out a completed application at that time.

For current members, if your information has not changed, just write your name and complete the payment info section. There is a printable membership application in the club newsletter.

NOCGMS
ATTN: membership
P.O. Box 653
La Habra, CA 90633-0653

2019 NOC Gem Show Information

By Teri Heuer

If you were not present at the meeting and you would like to be involved. Pull up your roster and email, call/text the following gem show team members:

Note: You can always contact our Gem Show Chair Armando Pedroza or Co-Chair Rose Marie Pedroza for everything that has to do with the show, but they do have other Gem show team members in these various areas to assist.

Volunteer to be on gem show set/up breakdown moving show in and out of Community Center from/to storage. Friday morning, Sunday after show: Contact: Alan Heuer.

Volunteer to be on the Skirt Tables and to prep showroom team on Friday morning. Contact: Rose Marie

Volunteer for rover position to come in for an hour or two to work wherever is needed at the time you volunteer. Contact: Rose Marie

Donations from the community, neighbors or NOC members Contact: Teri Heuer

Note on Donations for our Gem Show
Gem Show Raffle Table Chair – Teri Heuer
Our club purchases prizes for our Gem Show Raffle Table, including the Grand Prize.

But it is donations, that really make the NOC Gem Show Raffle table a success. Raffle Prizes are needed here are a few suggestions on what to donate. One thing is for sure, is that it would be something you would like to win if you had a winning ticket drawn.

As with all our past shows, our NOC members request businesses, restaurants that they frequent for donations which can include Gift Cards of any denomination or items that businesses would like to donate.

If a business would like to donate we will place a placard/business card next to their donation in Raffle Table Prize Case and that information will be given to the winner.

Members often donate items to the Raffle that they have made as our members our extremely creative; the winners love to win those types of items. Jewelry, Jewelry and more Jewelry donations are some of the best prizes people love to win. When it comes to Jewelry donations members not only look through their own stuff for duplicates or items that just never get worn to donate, they also reached out to family and neighbors for donations.

As, Always we do like to place a card honoring the donor, though sometimes the donor like to remain anonymous, we are thankful for all donations. Mineral and Rocks are by far the best donations, members in the past have donated some really awesome prizes.

We have found there are many fellow Rockhounds that would like to donate items to our club but have no way to get the rocks or minerals to our show or club. We also have past members who cannot get around as well as they use to but would like to donate and we also have neighbors that would like to donate items to our club. We as NOC members need to reach out to their friends and neighbors, who may enjoy donating or to buy tickets for our upcoming Gem Show, as this fundraiser benefits the La Habra Youth Group and scholarships for our Local Graduating Senior High School Students.

Please call or text Teri 951-640-2923 or terishelp@yahoo.com Subject Line: NOC Donation. I will assist with donations, including calls that need to be made to potential donors, or to pick up items from donors or to assist any member with any of their donating needs.

Reminder you, can also bring your donations to the next NOC General meeting on May 8, from 6:30-9:00 p.m., if they are heavy come into the meeting, I Teri, will be there to assist. Or bring your donation to the show and if the donation is heavy come to the raffle table and Teri or Beth will find assistance to bring item(s) in or bring your donations directly to us at the Raffle table.

Our 2019, NOC Gem Show will be the best ever, because our club is fun, educational and we always put on Great Gem Shows. Raffle Table Chair – Teri Heuer

2019 May Meeting Information

Hi Everyone, We are excited to see everyone tonight at the La Habra Community Center.

Remember you can bring items to share, we are all interested and enjoy looking at each others rocks, minerals, special finds or anything you would like to share.

On the right you will see three of our raffle prizes for our upcoming 2019 Rock & Gem Show, June 7,8,9 at the La Habra Community Center.

Alan & Teri will have tickets packets available for members at the show who have not picked up their member raffle ticket packets \$20 for 24 tickets, yet.

You may bring your donation directly to the show. If we have them early we can take pictures and have time to make donor business/place cards on who donated. If the item(s) are to large or heavy, just come into the show and let someone (a member) help you bring them in.

We as a club appreciate each other and all and every donation. Donations are what allows our non profit club to thrive and allows us as a club to donate to the community including the ability to do all the exciting things, we do do every month.



Amethyst Crystal Druse. 4''w x 5''h x 3 1/4'' thick.



White Quartz Geode. 3 1/2'' across the mouth.
3 3/4'' tall. 6 3/4'' long.



Orthoceras (Squid) 500 - 190 million years old.
7 1/2'' H x 6 1/4'' W.5

Cave of Crystals “Giant Crystal Cave” at Naica, Mexico

from Geology

Discovered by chance, the secret Mexican crystal caves big enough to drive a car through.



The Naica Mine of the Mexican state of Chihuahua is a working mine that is best known for its extraordinary selenite crystals. Located in Maica in the municipality of saucillo, the Naica Mine is a lead, zinc and silver mine operated by Industrias Penoles, Mexico’s largest lead producer. Caverns discovered during mining operations contain crystals of selenite (gypsum) as large as 4 feet (1.2 m) in diameter and 50 feet (15 m) long.

Formation of the Crystals

Naica lies on an ancient fault and there is an underground magma chamber below the cave. The magma heated the ground water and it became saturated with minerals including large quantities of gyp-

sum. The hollow space of the cave was filled with this mineral-rich hot water and remained filled for about 500,000 years. During this time, the temperature of the water remained very stable 50 degrees C (122 degrees F). This allowed crystals to form and grow to immense sizes.



Enormous gypsum crystals in a Naica cavern, found during mining. Note person for scale.

How did the crystals reach such super heroic proportions?

In the new issue of the *journal Geology*, Garcia-Ruiz reports that for millennia the crystals thrived in the cave’s extremely rare and stable natural environment. Temperatures hovered consistently around a steamy 136 degrees Fahrenheit (58 degrees Celsius), and the cave was filled with mineral-rich water that drove the crystals growth.

Modern-day mining operations exposed the natural wonder by pumping water out of the 30-by-90-foot (10-by-30-meter) cave, which was found in 2000 near the town of Delicias (Chihuahua state map). Now Garcia-Ruiz is advising the mining company to preserve the caves.



Water-clear crystal floater from the Naica Mine. weight 2.6 kg

Exploration and scientific studies

A scientific team coordinated by Paolo Forti, specialist of cave minerals and crystallographer at the University of Bologna (Italy) explored the cave in detail in 2006. To survive and to be able to work in the extreme temperature and humid conditions which prevent prolonged incursion in the crystal chamber, they developed their own refrigerated suits and cold breathing systems (respectively dubbed Tolomea suit and Sinusit respirator). Special carving overalls were fitted with a mattress of refrigerating tubes placed all over the body and connected to a backpack weighing about 44 lbs (20 gr) containing a reservoir filled with cold water and ice. The cooling provided by melting ice was sufficient to provide about half an hour of autonomy.

Beside mineralogical and crystallographic studies, biogeochemical and microbial characterization of the gypsum

giant crystals were also performed. Stein-Eiril Lauritzen (University of Bergen, Norway) performed uranium-thorium dating to determine the maximum age of the giant crystals, about 5000,000 years.

Penelope Boston (New Mexico Institute of Mining and Technology), speleologist specialist of extremophile organisms realized sterile sampling of gypsum drill cores by making small boreholes inside large crystals under aseptic conditions. The aim was to detect the possible presence of ancient bacteria encapsulated inside fluid and solid inclusions present in the calcium sulfate matrix from its formation.



A geologist explores the caves of giant crystals inside the Naica

Solid inclusions mainly consist of magnesium and iron oxy-hydroxide but no organic matter could be found associated with the solid hydroxides. No DNA from ancient bacteria could be extracted from the solid inclusions and amplified by PCR.

Microbial studies on fluid inclusions are foreseen to attempt to evidence the

present of ancient micro-organisms in the original fluid solution in which the crystals developed.

Other researchers also cover the fields of palynology (pollen study), geochemistry, hydrogeology, and the physical conditions prevailing in the Cave of Crystals,



Pictures fro the Avocado Show



Prizes

