



The Polished Slab

Southern Nevada Gem & Mineral Society



July 2015

A NEWSLETTER FOR ROCKHOUDS SINCE 1940

Volume 75 Issue 7

Upcoming Events

July 30: Board Meeting
Sept 3: General Meeting

See calendar on page 5 for shop hours, classes, trips, meetings, and other SNGMS events

See page 8 for details on scheduled classes and instructor contact

President's Message

From Peggy Sue Moore

Thanks to everyone who made it to the meeting on Monday. Rayette Martin, from Nevada Historical Preservation was giving her presentation when everyone's cell phone Flash Flood Alert Notices started going off. She was a trooper and kept going while we all scrambled to shut our phones off. The streets were clear by the time the meeting was over so everyone was able to drive safely home.

Danny Fesler and Kevin Ware have moved to Washington as Danny took a transfer with the VA Hospital. We will miss them both as they did a lot of work for the Club. We wish them success and fun rock hounding in their new area. Due to the two spots opening up in the Board of Directors, the Board of Directors approved the following replacements for the remainder of the year: Parliamentarian will be Ernie Parrish; Pat Skeary resigned her position as Treasurer in favor of her trainee, Frank Timbers, and has taken Kevin's spot as one year board member. Sounds complicated, but we felt that these moves kept our continuity.

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Tomorrow, Bill and I head out on our trip to Cody, Wyoming, for the 2015 Rocky Mountain Federation of Mineralogical Societies Annual Conference and Rock Show. It looks like there are close to a dozen of us from SNGMS planning on attending the Show and activities. We will tell you all about at the August meeting.

The Club normally has a Silent Auction in June of each year. We missed out on that but we plan on having it at the September meeting. Everyone, please bring your donations of your art work and projects to the shop in a closed container and mark it SILENT AUCTION. Don't forget to put your name on the donation.

We have started a sign-up sheet for the Pot Luck dishes being brought to the memorial services for Ed Rupprecht, on August 22nd, at the Eagles Lodge, at 1 pm. Anyone wishing to sign up to bring a dish, please send me an email at moorepeggysue@gmail.com. We will also have the list out at the August meeting. If you wish to speak about your memorable moments with Ed, please let Jaen know as she is encouraging everyone to participate.

We will see you at the shop having fun with your lapidary endeavors.

Keep on Rockin'.

Board meeting summary

SNGMS Board meeting minutes for 7/2/2015

On July 2nd, 2015, the regular Board of Directors meeting of the Southern Nevada Gem and Mineral Society was called to order at 5:59 PM by the president. The secretary was present. The pledge of allegiance to the flag was recited.

The minutes of the May 28th, 2015 meeting were approved as read.

The treasurer reported that the net income for May was negative.

Shop Report: Lights for the Cab Kings and the C saw are all repaired. John Miller proposed, seconded by Steve Wilson that, "a 60 grit and 180 grit lap be purchased for the new flat lap machine." The board approved. John Miller proposed, seconded by Lorrilee Stackhouse "that six meters be purchased." The board approved.

Unfinished Business:

Shop contest for July is a cabochon, any shape or size with a seascape theme.

New Business:

Pat Skeary submitted a resignation from the office of Treasurer due to transportation issues. Danny Fesler and Kevin Ware have moved, and resigned their positions as Parliamentarian and One-Year Board. The board considered replacements to be recommended and presented for approval by the membership. Lorrilee Stackhouse proposed, seconded by Pat Skeary that Frank Timbers be recommended for Treasurer. The board approved. John Miller proposed, seconded by Shannon Funk that Pat Skeary be recommended for One-Year Board. The board approved. Shannon Funk recommended, seconded by Steve Wilson that Ernie Parish be recommended for Parliamentarian. The board approved.

The silent auction of the Genie will be continued to July.

Cliff Jackson will lead a day/night hunt at Temp Piute on Sept. 19th.

John Miller proposed, seconded by Lorrilee Stackhouse and approved by the board, "that 1,000 tri-folds be printed for publicity.

The meeting was adjourned at 6:45 PM.



general meeting summary

SNGMS General meeting minutes for 7/6/2015

On July 6th, 2015, the regular meeting of the Southern Nevada Gem and Mineral Society was called to order at 6:03 PM by the president. The secretary was present. The pledge of allegiance to the flag was recited.

GENERAL MEETING SUMMARY, CONT.

The minutes of the June 1st, 2015 meeting were approved as corrected.

The treasurer gave her report: The net income for June was negative.

Committee Reports:

Sunshine: Jaen Rupprecht is recovering from surgery. Athena Manasses is in hospice.

Shop: Richard Rawe reports that all equipment is working well. He invites everyone to come to the shop and share in the fun. The shop will be open on the Tuesday after the general meeting from 10 AM.

Membership: John Stackhouse reports 412 adult and 75 child members.

Federation and Show: Sheri Johnson reports that May 7-8 2016 will be our next show. The Rocky Mountain Federation show is in Cody, WY, July 16-18.

Field Trip: No field trips in July due to the heat.

Jr. Members and Rock Stars: Mary Beth Paladino reported on upcoming events. *(see page 6 for details)*

Unfinished Business:

Services for Ed Rupprecht will be August 22nd from 2-5 PM.


New Business:

Danny Fesler and Kevin Ware had to relocate to Washington state due to Danny's job. Pat Skeary resigned from the Treasurer position due to the difficulty she now has with transportation to the bank.

The board recommended the following replacements for vacant board positions: Paliamentarian: Ernie Parrish; One Year Board: Pat Skeray; Treasurer: Frank Timbers. Frank Auerswald moved to affirm these choices, seconded by Mike Kisner, and accepted by the membership.

Classes were discussed. *(see page 8 for class information)*

Meeting adjourned at 7:15.



The speaker for the July 2015 meeting was Rayette Martin from Nevadans for Cultural Preservation. She gave an illustrated talk about the types of artifacts that are found in Nevada, even bringing some museum educational artifacts that we could pick up and examine. For more information contact info@nvfcp.org

If you paid for a book from Michael Green, speaker at the June meeting, but did not get it yet, he will have those books at the meeting on August 3rd. Be sure to be at the meeting or make arrangements for someone else to pick up your book for you.

Discounts Available with your SNGMS membership

All the establishments featured on page 4 offer discounts to SNGMS members. Be sure to show your membership card when making a purchase, and say that the Southern Nevada Gem & Mineral Society sent you!



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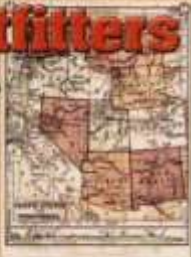
Hours:
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Upcoming events

July 16-18 Rocky Mountain Federation of Mineralogical Societies 2015 Mineral and Gem Show in Cody WY. This is the annual show for our federation and we will be represented by our Federation Director and other members. Consider attending the show, and maybe entering a showcase?

Aug 13-16 Buena Vista CO will host a large outdoor rockshow. Our member, Cliff Jackson is attending and you can contact him for more information

Aug 22 Memorial Service for Ed Rupprecht at the Eagle's Lodge 1 PM. Sign up by emailing Peggy Sue or at the next meeting to bring a dish for the pot luck.

Sep 14 Silent Auction at the General Meeting. bring your donations of your art work and projects to the shop in a closed container and mark it SILENT AUCTION. Don't forget to put your name on the donation.

Sep 19 Cliff Jackson will lead a day/night trip to Temp Piute

July 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
12 Kids Club 3-5	13 Polymer Clay 2-5 Wire	14 Silver Smithing 5-8	15 Shop 12-9	16 Shop 12-9	17 Shop 12-9	18 Metalsmithing 8-10 Shop 10-6
19 Shop 12-5	20 Beading 5-7	21 Silver Smithing 5-8	22 Shop 12-9	23 Shop 12-9	24 Shop 12-9	25 Metalsmithing 8-10 Shop 10-6
26 Shop 12-5	27 Polymer Clay 2-5 Wire Wrapping 5-8	28 Silver Smithing 5-8	29 Shop 12-9	30 Shop 12-9 Board Mtg. 6	31 Shop 12-9	1 Metalsmithing 8-10 Shop 10-6

Aug 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
2 Faceting 8-12 Shop 12-5	3 General Mtg 6	4 Shop 10-5 Silver Smithing 5-8	5 Shop 12-9	6 Shop 12-9 Board Mtg. 6	7 Shop 12-9	8 Metalsmithing 8-10 Shop 10-6
9 Faceting 8-12 Kids Club 3-5	10 Wire Wrapping 5-8	11 Silver Smithing 5-8	12 Shop 12-9	13 Shop 12-9	14 Shop 12-9	15 Metalsmithing 8-10 Shop 10-6



Published monthly by:
 Southern Nevada Gem & Mineral Society
 3111 S. Valley View Blvd, E-125
 Las Vegas, NV 89102



SNGMS 2015 Meetings

Jan 05 General	Jun 01 General	Jul 02 Board
29 Board	06 General	
Feb 02 General	30 Board	
26 Board	Aug 03 General	
Mar 02 General	Sep 10 Board	
Apr 02 Board	14 General	
06 General	Oct 01 Board	
30 Board	05 General	
May 04 General	29 Board	
28 Board	Nov 02 General	

Board Meetings at Shop, 3111 S. Valley View Blvd. Bldg. E. Suite 125, General Meetings at Eagles Lodge, 1601 E Washington

SNGMS General Meeting

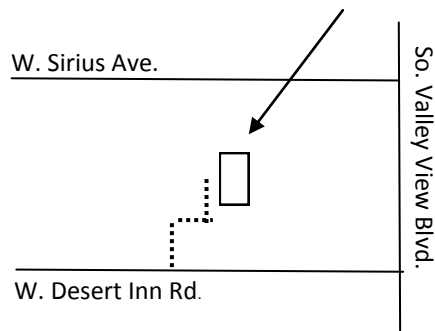
1st Monday of every month
(2nd Monday if holiday falls on the first Monday) No meeting in December.

Non-members welcome!

Eagles Lodge 1601 E Washington Ave.

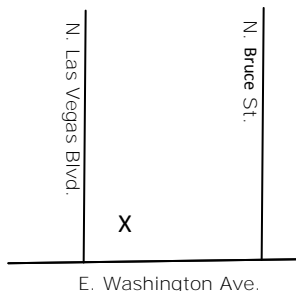
Show & Sell 5-6 PM
General Meeting 6-8 PM

**3111 So. Valley View Blvd,
Building E Shop Suite 125**



Finding the Shop Location

Proceeding west on Desert Inn Road, take the first right past So. Valley View Blvd. into the industrial park area. Drive past the building on your right, then jog right, then left and you will be in front of Building E.



Finding the General Meeting Location

Eagles Lodge #1213
1601 E Washington Avenue, Las Vegas, NV
(702) 642-1213

Kids club / education activities

The Kids Club meets on the second Sunday of most months at the SNGMS Shop from 3-5. As always, for more information or to volunteer to lead an activity contact Mary Beth Paladino at 702-255-1647

The Kids Club meeting for this month is on Sunday, July 12th, from 3 - 5 PM in the Shop. This meeting will focus on igneous rocks and volcanos.

The Holiday party will be held jointly with the Eagles again this year. The date is still to be determined.

The Omni camp went very well. Mary Beth did the program and helped the kids make 'fossils', and Cliff Jackson helped them smash geodes.

August 10-11 Mary Beth will represent SNGMS at the Boy Scout event. She needs someone to volunteer to help give the talks and she also needs small fossils and approximately 300 small pieces of orthoclase. If you have any to donate please take to the shop labeled with Mary Beth's name.

WHY DO MINERALS HAVE DIFFERENT HARDNESS? BY DON PECK

Hardness in minerals is resistance to scratching or abrasion. We all use the scale proposed by Friedrich Mohs in 1822 to estimate the hardness of our unknown finds. There are other scales used by professional mineralogists; the one most commonly used being the Vickers scale. It employs a micro indentation process in which a diamond point is pressed into the mineral.

We know that different minerals have different hardnesses. Why? Well, hardness is related to the strength of chemical bond, the size of the ions or molecules in the structure, the electrical charge on the ions, and the closeness of packing. Calcite is calcium carbonate, CaCO_3 . Siderite is iron carbonate, FeCO_3 . The size of the calcium ion is significantly larger than the iron II ion. Both ions have the same electrical charge and both minerals have the same crystal structure. The packing in siderite is closer than that in calcite, making for slightly stronger ionic bonds; and siderite has a hardness of 4.5 while calcite is 3. Aragonite and calcite are both calcium carbonate, CaCO_3 ; but the crystal structure is different. Calcite has a trigonal packing structure while aragonite is orthorhombic. There is less space in the orthorhombic aragonite, making it more densely packed, thus the ionic attractions are stronger. Its hardness is 4 as opposed to calcite's 3. (Aragonite also has a density of 2.93g/cm^3 against calcite's 2.71g/cm^3).

We all know that diamond is the hardest mineral known and graphite is one of the softest. Both are pure carbon. But while the carbon in diamonds is linked in a three dimensional network of strong rigid covalent bonds, graphite has its carbon atoms linked strongly in flat, two dimensional, hexagonal networks with weak bonds between the stacked layers of nets.

Water of hydration reduces the hardness of minerals. A good comparison is anhydrite to gypsum. Anhydrite is calcium sulfate, CaSO_4 .



Gypsum is calcium sulfate with two molecules of water, $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$. The water molecules do not carry an electrical charge and are loosely bonded in the structure. The result is that gypsum (2) is softer than anhydrite (3.5). Knowing the reasons for differences in hardness will not help us measure it, but it can help in

differentiating between two minerals and in any case, knowing is satisfying.

via The Clackamette Gem, 3/15; via Glacial Drifter 12/14; via SCRIBE, 10 12/14; via The Quarry, 4/08; via Canaveral Moonstone, 2/08; from Chips & Deposits, 1/08, via The monthly newsletter of the Cascade Mineralogical Society, Inc. Kent, Washington Cascade Tumbler; via the Golden Spike News 7/15

Class Information

Wire wrapping, led by Sue Moore meets on most Mondays (except for the General Meeting night). Hours for the class are 5 - 8 PM. The wire wrapping classes for July are led by Scott Edwards and will be the 13th, Tree of Life, and the 27th, Dream Catcher. Beading class is the third Monday of the month. The next class is July 20th, Reversible Bracelet, from 5 - 7 PM at the shop. For more information call Pat Skeary 702-630-6796. .

Silver Smithing meets every Tuesday at 5 PM. with Bill Lemmon leading the class. This class is suitable for beginners, and also for intermediate

to advanced students.

Reversible Bracelet



Polymer Clay Feathers, use for dangles for jewelry



Polymer clay class will be held July 13th from 2-5 PM, and will be a continuation of making feathers. The July 27th class will be announced by email. Contact Lorrilee Stackhouse at 702-631-5291 for more information.

Faceting classes are suspended during July due to Peggy Sue being out of town. They will resume in August

Scott Edwards is teaching

Metalsmithing and Miscellaneous Lapidary Arts every Saturday from 8-10. The last Saturday in July, the 25th, Scott will show you how to make your own custom metal stamping tools easily and inexpensively.

Tree of Life and Dream Catcher



Wire wrapping, beading, polymer clay, metal smithing, and silver smithing have a very modest donation of \$5.00 per session, that goes to the club. Faceting is \$5.00 an hour, the cost of faceting machine use, or a flat \$5.00 if you use your own machine. Other class donations may vary, depending on what is included in the class. All donations go to SNGMS, all instructors volunteer their time and expertise to help extend the knowledge of our members.

SHOP Information

SNGMS Workshop Schedule

Sunday *	12 noon –5 PM
Monday	Closed
Tuesday	Closed **
Wednesday	12 noon - 9 PM
Thursday	12 noon –9 PM
Friday	12 noon - 9 PM
Saturday	10 am – 6 PM

- closed July 12th for Kids Club
- ** open Tuesday following General meeting from 10 AM



Photo courtesy of Caitly Stackhouse

Shop Fee

All equipment is now metered and charge will be:
\$0.50 per 1/10 hour actual use.

Shop Contest for July

Entrant must have at least 1 hour paid shop usage in July, verifiable by shop foreman. For July you may enter any cabochon, of any shape, and size that has a seascape theme. Voting will be by the general membership at the July meeting. A prize will go to the top two winners.

Congratulations to the June Shop contest winner! First Place - **John Brown**

Please, **under no circumstances**, park in front of Unit 124 or Unit 126 (the units next to the Shop). The owners of the units come in at odd hours and need access to their parking spaces. There is ample parking across from the Shop that is not in front of any unit.

Shop Donations Needed

Donations of Newspapers, shop towels, and paper towels are always needed and appreciated. Bring your donations to the shop or to the meeting.

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Happy August Birthday!

If you have an August birthday please bring something for the refreshment table at the August meeting

Mark Anauo. Dottie Auerswald. Neal Baird. Linda Ball. Duane (Glen) Beye. Frank Bradley. Jonah Bradley. Mary Brandt. James Bristow. Theresa Brooks. Maddie Callaway. Beth Carden. Marilyn Day. Rhonda Egimann. Maylee Eide. Ivan Erwin. Jaxson Greene. Kathleen Greene. Steve Hopkins. Bonnie Hughes. Fausto Iulianelli. Andrea Johnson. Debora Johnson. Thomas Karmik. Keenan Kocienski. Deborah Kravitz . Yanping Ma. Jeanette Martinez. Priscilla Messenger. Chris Michael. Michelle Muniz. Marquerta Osborn. Elizabeth Paladino. Nina Persaud. Kera Pipkin. Jessie Poltronieri. Cody Prince. William, Jr. Repola. Emma Robertson. Kelly Salyer. Seth Sampson. Mary Savage. Joann Sprott. Terry Stockman. Jordan Summer. Bruno Syzdek. Phyllis Syzdek. Claudia Townley. Holley Turley. Albert, Jr Villegas. Ward Wasson. Joyce Wertz. William Wertz. Steve Wilson

Welcome New Members!

***A hearty welcome to members who joined or rejoined SNGMS .
We look forward to getting to know you better***

Mark Anauo, Ruth Anauo, David Christiansen, James Fountain, Kathy Gordon, Keenan Kocienski, Tracey Kocienski, Chris Michael, Sherry Schlosser, Leslie Sturek, Brandy Styles

Sunshine Report

from Dottie Auerswald

Please if you hear of any SNGMS member in need of a bit of sunshine due to accident, illness, death in the family or other need, call me—Dottie Auerswald at 648-5886 (recorder on) or cell 703-493-9672. Cards will be sent to let the member know that we care and wish them well.

We wish Jaen Rupperecht a speedy recovery from her recent surgery. We are sorry to report that Athena Manassas is now in hospice. Our prayers go out to her.

2015 Board of Directors

President: Peggy Sue Moore 702-348-9600
 sngms2013@gmail.com
 Vice-President: Tony Duran sngms2013@gmail.com
 Secretary: Lorrilee Stackhouse 702-631-5291
 lorrilee@cox.net
 Treasurer: Frank Timbers
 Parliamentarian: Ernie Parrish

Three Year: Board Steve Wilson
 Two Year Board: John Miller 702-768-2989
 jjnevada@outlook.com
 One Year Board: Shannon Funk & Pat Skeary

Committee Chairmen

Bulletin.....Lorrilee Stackhouse
 ByLaws.....Sheri Johnson
 Communications.....Lorrilee Stackhouse
 Education.....Mary Beth Paladino
 Federation.....Sheri Johnson
 Alt. Federation.....Mary Beth Paladino
 Field Trip.....open
 Financial Manager.....George Messenger
 Shop ForemanRichard Rawe ... 702-421-1330
 Historian.....Jack Toogood
 Hospitality.....Corinne Silvia
 Inventory.....Frank Timbers
 Librarian.....open
 Membership.....John Stackhouse 702-239-0437
 New Member Liason...Tony Duran
 Program.....Cindy Allison
 Publicity.....Scott Edwards
 Raffle.....Diane Burgess
 50-50 Raffle.....Tracy Skeary Pack
 Refreshments.....Ann Harris
 Rock Stars.....Mary Beth Paladino.....702-255-1647
 Rock Hounds
 Show Chairperson.....Sheri Johnson
 Sunshine.....Dottie Auerswald.....702-648-5886
 Webmaster.....Jack Toogood.....702-642-4788

Contact any Board member to volunteer for a position, or a Committee Chairman to offer to help on their committee.

Upcoming Shows

Jul 16 - 18 - Cody, WY, Annual Rocky Mountain Federation Show, Cody HS Sweitzer Gym, 920 Beck Ave., Thu 4-8, Fri 10-8, Sat 10-4

Jul 31 - Aug 2 - Prescott Valley, AZ, Annual show, Prescott Gem & Mineral Club, Prescott Valley Event Center, 3201 North Main St., Fri. 9-5; Sat. 9-5, Sun. 9-4

Aug 13 - 16 - Buena Vista, CO, Contin-Tail show, Outdoor rock sale with 100+ vendors, open 9 - 5, see <http://coloradorocks.org/>

For more details.

Sep 12-13 - Hanford, CA, Annual show, Diggin'sproductions , Hanford Civic Center, 400 N. Douty St, Sat. 10 - 6, Sun. 10 - 6

Sep 25-27 - Tooele, UT, Annual show, Tooele Gem & Mineral Society, Dow James Building; 400 North 400 West; Fri. 10 - 7, Sat. 10 - 7, Sun. 10 - 5

These are only a sampling of shows that are fairly close to the Las Vegas area. There are rock clubs throughout the United States and the computer is your friend in finding information about clubs and shows. Just search for the area you are interested in and rock club and you should find plenty to keep you busy, wherever you are going.

Some links that you may find helpful are:

California Federation -

<http://www.cfmsinc.org/>

Rocky Mountain Federation -

<http://www.rmfmfms.org>

and the Rock & Gem website -

<http://www.rockngem.com/show-dates-display/?ShowState=ALL>

Southern Nevada Gem & Mineral Society
3111 S. Valley View Blvd, E-125
Las Vegas, NV 89102

Return Service Requested



The Southern Nevada Gem and Mineral Society is a non-profit corporation, organized to educate ourselves and the community in the science and arts related to rocks, minerals, gems, fossils, and nature in general. Fostering an understanding and appreciation of the physical world, we can use it and protect it for future generations.

Club Mascot: Rock Wren

Club Gemstone: Turquoise

Club Logo: Rocks-R-Us

Membership is open to anyone with an interest in:
 Rocks, Gems, Geology, Fossils, Lapidary Arts or
 Silversmithing

Annual Dues: Individual - \$25; Family - \$35

Meetings are held the first Monday of the month at the
 Eagles Lodge #1213, 1601 E Washington

No meeting is held in December. Instead we have our
 annual awards dinner.

**Polished Slab
 Advertising Rates**

Ad Size	Six Months	Yearly
Business Card	\$18	\$30
Quarter Page	\$48	\$90
Half Page	\$90	\$170
Full Page	\$150	\$275