



**Happy
Father's
Day!**

NEXT MEETING:

TIME:

LOCATION:

July 20, 2020

7:00 p.m.

Clear Lake Park Building
5001 Nasa Parkway
Seabrook, Texas



INSIDE THIS ISSUE

June Meeting	1	<p><u>June MONTHLY MEETING</u></p> <p>New Club Officers.</p> <p>Hello, I hope everybody is staying safe during this pandemic. I received a notification from Harris County Parks and Services, unfortunately the meeting facility building is still CLOSED for our June, 2020 general meeting.</p> <p>We have new elected officers for the new fiscal year - I announced a few of them in the last newsletter there is an update on this newsletter.</p> <p>Reminder - 2020 membership dues.</p> <p>http://www.clgms.org/</p>
Board/General Meeting Minutes Upcoming events Field Trips.	2-3	
Star Sapphire	3-6	
Upcoming shows	6	

MINUTES OF THE May CLGMS GENERAL MEETING

May 2020 Meeting:

There were no minutes from last month since we did not have any general meeting due to the pandemic (COVID-19).

MINUTES OF THE June CLGMS BOARD MEETING

The current pandemic has been affecting our daily life and our club meetings have also been affected. Luckily, there is an alternative for the meeting even though we have not done it for the general meeting yet.

The last few months of BOD meetings had been using virtual meeting – ZOOM.

It worked quite well and lasted only about 40 minutes. This might be the way for future BOD meetings – we will find out.

The Board has elected Cynthia McGowan as our new Vice President.

Trina Willoughby is our Interim Secretary for the General Meetings and we will find her replacement as soon as possible.

Please see the last page for a complete Officer's listing.

As you all already knew, that the Scholarship deadline had been extended to July 1st, however, the “Official” transcript will be optional since most of school/college administration offices are still close so we can accept the “Unofficial” transcript when apply for the scholarship.

Upcoming events - We are looking forward to the following programs.

Currently we do not have any presenter lined up for July so we will use the time to elect some more officers and plan for the near future.

Field Trips Announcement

The 2 planned field trips were canceled, however, if anybody wants to go to Oglesby, Tx, in search of turritella, they can still go but this will NOT be a club sponsored field trip. Here are the coordinates. They may not be exact, but they should be close. Road 266 is across the street from Coryell Valley Church.

At the location, there is a kinda driveway, that would accommodate two or three vehicles.

31.499326, -97.674364

If you have trouble finding maps, try Google Maps.

Go here:

<http://maps.google.com/maps?q=31.41438,+97.49500+%28Coordinates%29&iwloc=A&hl=en>

The fossil remains of turritella are the shells or the cast of shells from soft-bodied mollusks. Turritella are a type of sea snail with tall spiral shells. They vary in size from about 1/2 inch to 6 inches long.

Star Sapphire

from gemselect.com

About Star Sapphire - History and Introduction

Star sapphire is rare variety of sapphire that exhibits a rare asterism under specific lighting. When viewing star sapphire, a six-rayed star will appear to float across the surface of the stone. The effect is best viewed under a direct light source and while tilting and rotating the stone from different angles. Star sapphires contain unusual tiny needle-like inclusions of rutile.

Aligned needles that intersect each other at varying angles produce the rare phenomenon known as asterism. Star sapphires can range in color from blue in various tones to pink, orange, yellow, green, lavender, gray or black. The most desirable color is a vivid, intense blue. Most star sapphire exhibits a white star, but star sapphire from Thailand is famed for its gold colored asterism.

Sapphire is a member of the corundum family and is closely related to ruby; the red to pink-red gem-quality variety of corundum. All corundum has a hardness rating of 9, making it the second hardest material on earth, second only to diamond. The name 'corundum' comes from the Sanskrit word 'kuruvindam', meaning 'ruby sapphire', while the term 'sapphire' is derived from the Persian word 'safir', which originates from the Greek word for 'blue'.

Identifying Star Sapphire

Star sapphire can be distinguished from other forms of sapphire by its unique asterism. The six-rayed-star effect appears most clearly under natural light, but it can also be viewed using a strong source of direct light such as a penlight or a halogen bulb. It has no distinct cleavage and has a hardness rating of 9 on the

Mohs scale. Chemically, star sapphire is an aluminum oxide and forms as trigonal crystals. Owing to star sapphire's superior hardness and durability, it's nearly unmistakable, despite several other gem types that are known to occur with similar colors and luster. Some commonly confused gems include star garnet and star diopside.

The most important deposits of fine star sapphire today are found in Australia, Myanmar (Burma), Sri Lanka and Thailand. Other significant star sapphire sources include Brazil, Cambodia, China, Kenya, Madagascar, Malawi, Nigeria, Pakistan, Rwanda, Tanzania, United States (Montana), Vietnam and Zimbabwe.

Star Sapphire Color

Star sapphires can range in color from blue in various tones, to pink, orange, yellow, green, lavender, gray and black. The coloring agents in blue sapphire are iron and titanium, and vanadium in violet to purple colored stones. A small amount of iron results in more yellow and greenish tones, while chromium produces fine pink to red tones. Iron and vanadium result in golden to orange tones. The most desirable color is a vivid, intense blue. Thai star sapphire is famed for its golden rayed star.

Star Sapphire Clarity and Luster

Star sapphire is typically opaque. Some finer specimens may exhibit slight translucency. Star sapphire owes its desirable asterism to perfectly aligned needle-like rutile inclusions. The rutile inclusions in star sapphire result in a vitreous to silky luster when cut and polished.

Star Sapphire Cut and Shape

Star sapphires are cut en cabochon typically with very high domes to maximize the desirable star effects. The best cabochons are somewhat transparent to translucent, with smooth domes of good symmetry. One should look for an even roundness to the shape. Many star sapphires will have uneven tops or bottoms, which in many cases is necessary for proper orientation in order to best display asterism.

Star Sapphire Treatment

The most common treatment for star sapphire is heat treatment. Generally before they are cut, stones are heated to between 1700 to 1800 degrees Celsius (3100-3300 degrees F) for several hours. Heating often improves the color and clarity of

the gem. A reputable dealer will always disclose whether a stone has been subjected to heat treatment.

Diffusion treatment is sometimes used to improve the star effect in star sapphire. The sapphire is heated with titanium to create a more distinct star.

Star Sapphire: Related or Similar Gemstones

Star sapphire is a sub-variety of traditional and fancy sapphire. It is a member of the corundum family, which also includes rare red ruby. Sapphire is often marketed using specific varietal trade names based on its color, origin or various other discernible traits. Some examples of varietal trade names include color change sapphire, Ceylon sapphire or Padparadscha sapphire. Since sapphire can occur in a variety of colors, it can be easily confused with other gemstones like garnet, spinel, topaz, tourmaline and zircon.

Star Sapphire Mythology, Metaphysical and Crystal Healing

Sapphire is the birthstone for those who are born in September. On the zodiac chart, it is viewed as the stone for Taurus.

The ancients regarded star sapphires as powerful talismans for protecting travelers and seekers. They were considered to be so powerful that they would continue to protect the wearer even after being passed on to another person.

Abbes Hildegard von Bingen (1098-1179) chronicled the healing powers of gemstones in her book "Physica". According to her view, gemstones are formed through the powerful combination of water and fire; therefore they hold powers corresponding to these phenomena. She also believed that each stone had a certain, divine blessing from God. What she said about sapphire is: "Who is dull and would like to be clever, should, in a sober state, frequently lick with the tongue on a sapphire, because the gemstone's warmth and power, combined with the saliva's moisture, will expel the harmful juices that affect the intellect. Thus, the man will attain a good intellect."

Star Sapphire Gemological Properties:





Chemical Formula: Al_2O_3 Aluminum oxide

Crystal Structure: (Trigonal) doubly pointy, barrel-shaped, hexagonal pyramids, tabloid-shaped

Color:	Blue in various tones, pink, yellow, green, lavender, gray, black
Hardness:	9 on the Mohs scale
Refractive Index:	1.762 to 1.778
Density:	3.95 to 4.03
Cleavage:	None
Transparency:	Transparent, translucent, opaque
Double Refraction or Birefringence:	-0.008
Luster:	Vitreous, silky
Fluorescence:	Blue: none; colorless: orange-yellow, violet



SCFMS and MEMBER CLUB GEM SHOWS					
June 6-7, Summer San Francisco Crystal Fair, Mason Center for Arts & Culture, 2 Marina Blvd, San Francisco, CA 74123 jerry@crystalfair.com	June 19-21, Carlsbad Gem and Mineral Society, Living Desert State Park, 1504 Miehl Drive N. Living Desert State Park, Carlsbad, NM 88220 www.carlsbadgms.org/	June 29-30, Arlington Gem and Mineral Club , Grapevine Conv Center 1209 South Main St, Grapevine TX 76051 www.agemclub.org	July 11-12, TRMS Gem Mineral and Jewelry Show, Tulsa Fairgrounds, 4145 E 21st St, Tulsa, OK 74114 www.tulsarockandmineralsociety.org/		
July 17-19, Conroe, TX Lone Star Convention Center, 9055 Airport Rd www.rmgmpromotions.com	Aug 8-9, Baton Rouge Gem & Mineral Society Show, Lamar-Dixon Expo Center, 9039 S Saint Landry Ave, Gonzales, LA 70737 www.brgemandmineral.org/	Sept 11-20, Denver Coliseum Mineral, Fossil & Gem Show, Denver Coliseum, 4600 Humboldt St, Denver, CO 80216 www.coliseumshow.com	Oct 9-11, Greater Detroit Gem, Mineral & Fossil Show, Macomb Community College Expo, (313) 255-7774 www.michmin.org/show		
Oct 9-11, Big Sur Jade Festival Los Padres National Forest, 69325 Highway 1, Big Sur, CA 93920 https://bigsurjadefestival.com/	Oct 24-25, Akron Mineral Society Show, Emidio & Sons Banquet Center, 48 E Bath Rd, Cuyahoga Falls, OH 44223, www.gemboree.org/	Oct 31-01, O K Mineral and Gem Society Show , State Fair Park, 608 Kiamichi Place, Oklahoma City, 73107, http://omgs-minerals.org/			
STONEY STATEMENTS Clear Lake Gem and Mineral Society, Inc PO BOX 891533 Houston, Texas 77289					
Meeting 3rd Monday of the Month 7:00 P.M. Clear Lake Park Building 5001 NASA Parkway, Seabrook, Texas					

				
		Member of		
Next Annual Show February 20-21, 2021 Pasadena Convention Center			 American Federation of Mineral Societies	 South Central Federation of Mineral Societies
CLGMS is on the Web: http://www.clgms.org 2/20-21, 2021				
Clear Lake Gem and Mineral Society, Inc				
MEMBER: American Federation of Mineralogical Societies and South Central Federation of Mineral Societies				
PURPOSE: To promote education and popular interest in the various earth sciences; in particular in those hobbies dealing with the art of lapidaries and the earth sciences of minerals, fossils and their associated fields.				
2020 OFFICERS:	President Vice President Secretary (Interim) Treasurer Program Director Board of Directors: Newsletter Editor	John Caldyne Cynthia McGowan Trina Willoughby Morgan Davies VACANT Sandra Christiansen Jim Edwards Donna Nelson Sara Tanner Jim Hawkins David Tjiok	832-282-4270 281-546-2662 713-815-0275 281-224-2444	
Annual Show 2020 Sandra Christiansen Constitution & Bylaws.....Sara Tanner Community Benefits.....Charlie Timme Historian.....David Tjiok Publicity (Facebook)..... Cynthia McGowan Membership.....David Tjiok WWW System Admin..Mike Flannigan Refreshments.....John Caldyne Education/Field Trips.....Annabel Brownfield				
Membership Dues Jan. to Dec. 2020: Adult \$15:00, \$5.00 per additional adult at same address, Junior \$5.00, \$5.00 per member with adult at same address, Family Dues \$20.00 (4+) at same address. Send Dues to CLGMS, PO BOX 891533, Houston, TX, 77289				