



A monthly publication of the Clear Lake Gem & Mineral Society

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NUMBER 7



NEXT MEETING: July 15, 2019
TIME: 7:00 p.m.
LOCATION: Clear Lake Park Building
 5001 Nasa Parkway
 Seabrook, Texas

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Meeting Minutes Scholarship Winners,	2- 3	<p>Jacob Proctor will present Microbialites - their growth, their diversity and featuring modern and ancient examples. Microbialites are the oldest life form known on Earth. A recent discovery has revealed they date back as far as 3.7 billion years. The growth of these buildups are controlled by water temperature, salinity, water depth and sediment input. Computed tomography (CT) scanning is a ideal tool to investigate internal fabric and textural variation. This talk will review how to identify between the four primary types of microbialites - stromatolites, thrombolites, dendrolites and leiolites. It will also review a modern and ancient stromatolite from Brazil and giant stromatolites recently discovered in mason county Texas. This work was in part sponsored by Dr. Andre Droxler from Rice university and Ingrain - A Halliburton Service. Special thanks to both institutions for their support. This will open for a general audience. Visitors are always welcomed. clgms.org</p>
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MINUTES OF THE JUNE 17, 2019 CLGMS MEETING

The June meeting of CLGMS was held on June 17th at 7pm at the clear lake park building.

- The Stoney Statements were approved.
- Membership is 50 paid members
- There is currently a library display at the Seabrook library for the month of June.
- John shared ideas for the show to have a roaring 20s contest for children with dress up and rock jewelry where participants would receive certificates and prizes.
- We had a great group show and tell

3 scholarships were given out to Michael Cappelli, Luis Torres, and Aaron Walker



Congratulations to our winners of the three (3) \$2000.00 Scholarships.

Board of Directors (BOD) minutes, June 3, 2019:

There is no formal July Board of Directors (BOD) minutes as the quorum was not met (only a total of 3 people showed up). However, we did a quick discussion on try to figure out on the cleaning up of the storage room especially


dealing with the display cases. We will keep a few good ones and try to see if we can get a cabinet maker to build the collapsible ones.



Ruby is July birthstone, is a pink to blood-red colored gemstone, and a variety of the mineral corundum. Other varieties of gem-quality corundum are called sapphires. Ruby is one of the traditional cardinal gems, together with amethyst, sapphire, emerald, and diamond. The word ruby comes from *ruber*, Latin for red. The color of a ruby is due to the element chromium. A few rubies have been found in the U.S. states of Montana, North Carolina, South Carolina and Wyoming.

Upcoming Program Listing - We are looking forward to programs.

2019 Program drafted listing is updated below with additional topics to make this an exciting year.

Date of Program	Topic	Presented by
July 15, 2019	Gems in the Rough, Carbonate Stomatilites 	Jacob Proctor
August 19, 2019	The healing power of various stones/rocks	Theresa Lowdermilk
September 16, 2019	Identifying Ancient Settlement Patterns through LiDAR in the Mosquitia Region of Honduras. ID of historic patterns of settlement and landuse for a critical valley within the Mosquitia derived from airborne LiDAR scanning and field investigation	Juan Carlos Fernandez Diaz, PhD Senior Researcher University of Houston National Center for Airborne Laser Mapping ncalm.cive.uh.edu/berkeley.edu Airborne Operations Coordinator / Electronics Engineer
October 21, 2019	Magnetic Mars	Christine Shupla, Lunar and Planetary Institute, Universities Space Research Association, Houston, Texas;
November 18, 2019	Show and Tell	Open
December 16, 2019	Show and Tell	Open

“Topaz and Lonestar Cut of Texas”

Topaz, the state gem of Texas, is found only in Mason County. Texas has a special Cut or Facet called the Lonestar Cut.



Topaz: Official State Gem of Texas, and Lonestar Cut: Official Facet of Texas.

Texas blue topaz was designated the official state gem in 1969, and in 1977 the Lone Star cut was adopted by Texas as the official state gemstone cut. The Lone Star cut, designed by two native Texans, is a special gemstone cut that reflects a five-pointed star (the Lone Star of Texas).

Topaz comes in all colors; a golden orange-yellow (called "imperial topaz") is considered the most valuable. Topaz is commonly thought of as a sky-blue gem, but a deep blue hue is rare in nature (colorless and light-hued stones are heat-treated to achieve the blue color).

The largest gem topaz deposits are in Brazil and Russia. Other locations include Mexico and the USA (Texas, Colorado, Utah).

The following is the house declaration for the State stone and facet of Texas:

House Concurrent Resolution No. 12 (1969)

WHEREAS, The State of Texas has not officially designated a state gem or a state stone; and

WHEREAS, The Texas Gem and Mineral Society has adopted appropriate resolutions in support of designating the TEXAS BLUE TOPAZ as the official State gem and PETRIFIED PALMWOOD as the official State stone; and

WHEREAS, It is appropriate that the State Legislature take the necessary action whereby the TEXAS BLUE TOPAZ and PETRIFIED PALMWOOD may be

officially named as the State gem and the State stone, respectively; now, therefore, be it

RESOLVED, By the House of Representatives of the State of Texas, the Senate concurring, that the recommendations of the Texas Gem and Mineral Society be and are hereby adopted, and that the TEXAS BLUE TOPAZ be and is hereby declared to be the official State gem and PETRIFIED PALMWOOD be and is hereby declared to be the official State stone of Texas.

House Concurrent Resolution No.97 (1977)

WHEREAS, The flag of Texas, the public symbol for all to see, has a lone star as its prominent feature; and

WHEREAS, This is reflected in the State slogan "Texas--The Lone Star State"; and

WHEREAS, A special gemstone cut known as the Lone Star Cut has been designed by two native Texans; and

WHEREAS, Any gemstone may be cut in this manner, including the State Gem, the Blue Topaz; and

WHEREAS, The special characteristic of the Lone Star Cut is the appearance to the viewer when looking directly into the stone, in that it reflects the five-pointed star; now, therefore, be it

RESOLVED, by the House of Representatives of the State of Texas, the Senate concurring, That the Lone Star Cut be and is hereby designated as the official State Gemstone Cut of Texas; and, now, be it

RESOLVED, That the specifications for faceting the Lone Star Cut are for an 80 index gear and shall be as follows:

PAVILION

1. Cut 10 facets at 45°. Index 4-12-20-28-36-44-52-60-68-76.
2. Cut 5 facets at 54°, until the star is a measured 65 percent of the diameter of the stone. Index 80-16-32-48-64.
3. Cut 10 facets at 60.7°. Index 2-14-18-30-34-46-50-62-66-78. These are to meet the points of the star exactly.
4. Cut 5 facets at 65°. Index 8-24-40-56-72. These should also meet the points of the star exactly.
5. Prepolish in the same order, then polish from the culet to the girdle.

CROWN

1. Cut 10 facets at 41.5° Index 2-14-18-30-34-46-50-62-66-78. These should be cut until the girdle is of the proper thickness.
2. Cut 5 facets at 52.1° . Index 8-24-40-56-72. Cut these until they match the corresponding facets of the pavilion in width at the girdle. This will insure the proper size for the table.
3. Cut 5 facets at 30° . Index 80-16-32-48-64.
4. Cut the table at 0° until the 30° facets meet at a point.
5. Prepolish in the same order, then polish in reverse order. If desired, the table may be cut and polished last; it depends on your machine. The girdle may be polished or not, as you wish.



Topaz, Cut into the Lonestar Facet: Source: Statesymbolsusa.org

UPCOMING SHOWS AND PROGRAMS

SCFMS and MEMBER CLUB GEM SHOWS			
	Aug 10-11, Gonzales, LA, Baton Rouge G&MS, Lamar Dixon Expo Center, www.brgemandmineral.org	Aug 17-18, Bossier City, LA, ARK-LA-TEX G&MS, Bossier Civic Center, larockclub.com	Aug 24-25, Jasper, TX, Pine Country G&MS, The [Jasper] Event Center, www.pinecountry-gms.org
August 31 – Sept 2, 2019 Silver City, NM: Grant County Rolling Stones Gem & Mineral Society; Grant County Veterans Memorial Conference Center, 3031 Hwy 180 East https://rollingstonesgms.blogspot.com	Sept 14, 2019 Rockford, IL: Rock River Valley Gem and Mineral Society; Odd Fellows Club, 6219 Forest Hills Rd Email: tcdc78@comcast.net	Sept 21-22, 2019 Grand Junction, CO: Annual show; Grand Junction Gem & Mineral Club; Mesa County Fairgrounds, 2785 Hwy 50 www.grandjunctionrockclub.org	Nov 8-10, Humble, TX, Houston G&MS, Humble Civic Center, https://hgms.org
Nov 23-24, Mesquite, TX, Dallas G&MS, Mesquite Rodeo Center Exhibition Hall, www.dallasgemandmineral.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, 2020
 Pasadena Convention Center

American
 Federation of
 Mineral Societies

South Central
 Federation of Mineral
 Societies

CLGMS is on the Web:
<http://www.clgms.org>
 2/20-21/2020

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.

2019 OFFICERS:

President	David Tjiok	
Vice President	John Caldyne	
Secretary	Trina Willoughby	
Treasurer	Morgan Davies	
Program Director	Vince Barrows	
Board of Directors:	Sandra Christiansen	Sara Tanner
	John Caldyne	Donna Nelson
	Jim Edwards	Jim Hawkins
2020 Annual Show	Sandra Christiansen	
Newsletter Editor	Vince Barrows	

Show Chairman	John Caldyne	Membership.....	Mike Flannigan
Constitution & Bylaws.....	Sara Tanner	WWW System Admin.	Mike Flannigan
Community Benefits.....	Charlie Timme	Refreshments.....	John Caldyne
Historian.....	David Tjiok	Education/Field Trips.....	Annabel Brownfield
Publicity.....	Cyndi McGowen	Hands On.....	Theresa Lowdermilk
Facebook.....	Trina Willoughby		

Membership Dues Jan. to Dec. 2019: 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



Lonestar Cut