



A monthly publication of the Clear Lake Gem & Mineral Society

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

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April Meeting	1	<p><u>APRIL MONTHLY MEETING</u> The April program "California Jade" will discuss Traveling to California and looking at jade from the area, with some samples of various jades and not-jades. Discussion will include types of Jade used in beautiful jewelry. This will be a talk for a general audience. Visitors are always welcomed. clgms.org (website link)</p>
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MINUTES OF THE APRIL 1, 2019 CLGMS BOARD MEETING

Due to the skilled work of CLGMS members, we are pleased to be able to award three (3) Two Thousand dollar (\$2000) scholarships this year.

Reminder that scholarship applications are due this month. Please reach out to your friends, family, students, and remind them of their chance to win one of three \$2000 scholarships.

A heartfelt thanks to all! This is a huge honor to be able to give back to the community and continue the education into the earth sciences. This is credited to the great outpouring of support from members, volunteers, visitors, & vendors.



Application Deadline: Applications must be received or post marked not later than the 1st of May of the year to be awarded.

Please log in to view the scholarship application requirements here:

<http://www.clgms.org/page6.html>

The CLGMS Gem Mine was operated at Ross Elementary school on 3/30/2019 and Montessori School on 4/6/2019. Thanks to Morgan Davies and Carson Davies who raised about \$150 worth of Gem Mine tickets for the school in 4 hours. Morgan Reported that Kids were enthusiastic and seemed to really like the mine. Some students like the gem mine so much that they came back as many as 11 times. School thanks CLGMS at the end of the Program. Awesome jobs. Thank you for the successful school events.

This month, Sigrid is presenting on Jade, an ornamental mineral. Color of Jade is mostly know for its green varieties although it comes in lavender, red, yellow, white, and black. It can refer to either of two different minerals: nephrite, a silicate of calcium and magnesium, or jadeite, a silicate of sodium and aluminium. Jade is featured prominently in ancient Asian art, but also has an important place in many other cultures.

JADE CONG, [BRITISH MUSEUM](#), 2500 BC



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
April 15, 2019	"California Jade " Traveling to California and looking at jade from the area, with some samples of various jades and not-jades.	Sigrid Stewart
May 20, 2019	Spectroscopy and advanced gem identification tools.	Bob Wilkinson
June 17, 2019	Gems in the Rough, Carbonate Stomatilites	Jacob Proctor
July 15, 2019	Show and Tell	Open
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

Calcium Carbonate Minerals that Color Seashells (Wikipedia)

Calcium carbonate is a chemical compound with the formula CaCO_3 . It is a common substance found in rocks as the minerals calcite and aragonite (most notably as limestone, which is a type of sedimentary rock consisting mainly of calcite) and is the main component of pearls and the shells of marine organisms, snails, and eggs. Calcium carbonate is the active ingredient in agricultural lime and is created when calcium ions in hard water react with carbonate ions to create limescale. It is medicinally used as a calcium supplement or as an antacid, but excessive consumption can be hazardous.



Cuban Tree Snails Photo: Bailey Mathews Shell Museum

Cuban Tree Snails have colorful shells that are composed of Calcium Carbonate. The snails create out of their environment. The mollusks separate the calcium carbonate into three layers to make their shells. Three distinct substances involved in shells include an outer layer of the horny substance conchiolin, an intermediate layer of calcite, and a smooth inner layer composed mainly of calcium carbonate.

Color of shells varies slightly due to environment, even with the same species. The mollusk's blood is rich in a liquid form of calcium. A soft, outer organ called the mantle concentrates the calcium in areas where it can separate out from the blood, forming calcium carbonate crystals. The mantle deposits sheets of the crystal in varying thicknesses. The individual crystals in each layer vary in shape and orientation. Different species of shells tend to have distinct color and patterns. Cleaning seashells can enhance the color of the crystalline forms of calcium carbonate of shells. Collectors can clean shells, revealing color and patterns that would otherwise be unseen.



Family Pectinidae Photo: Bailey Mathews Shell Museum

UPCOMING SHOWS AND PROGRAMS

SCFMS and MEMBER CLUB GEM SHOWS			
	April 13-14, 2019 Abilene, TX, Central TX G&MS, Abilene Convention Center, kmcdaniel23@suddenlink.net	April 19-21, 2019 Alpine, TX, Chihuahuan Desert G&MC, Alpine Civic Center, ocoent895@gmial.com	May 4-5, 2019 Waco, TX: Waco Gem and Mineral Show; Extraco Exhibits Building; 4601 Bosque Blvd.; Waco, Texas
May 25-26, 2019 Ft. Worth, TX, Fort Worth G&MC, Will Rogers Memorial Center, www.forthgemandmineralclub.org	June 1-2, 2019 Lubbock, TX Lubbock G&MS, Lubbock Memorial Civic Center, www.lubbockgemandmineral.org	June 6-9, 2019 Austin, TX Natures Treasures of Austin, Norris Conf. Center, https://ntrocks.com/international-exposition-of-agate	July 5-7, 2019 Raleigh, NC: Treasures of the Earth, Inc.; North Carolina State Fairgrounds, 1025 Blue Ridge Rd
June 29 - 30, 2019 Arlington G&MC, Grapevine Convention Center, 1209 S. Main St.; Sat. 9-6, Sun. 10-5; Adults \$6, seniors and children over 12 \$5 www.agemclub.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
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