



A monthly publication of the Clear Lake Gem & Mineral Society

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NEXT MEETING: September 17, 2018
TIME: 7:30 p.m.
LOCATION: Clear Lake Park Building
 5001 Nasa Parkway
 Seabrook, Texas

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September Meeting	1	<p><u>SEPTEMBER MONTHLY MEETING</u> This month we will not have an official presentation, however, this is the time that we, CLGMS members and guests, have fun. It's ICE CREAM time, come early and have dessert(s) on us. The club will provide several ice cream flavors and also some popular toppings. If you have your favorite toppings please bring some and share. After a quick formal business session, we will have a social time and try to get to know each other. Visitors are always welcome.</p> <p>http://www.clgms.org/</p>
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MINUTES OF THE September CLGMS BOARD MEETING

There was no September Board meeting due to the Labor Day Holiday on Monday the 3rd. We could not get a date that week to have the room reserved.

Ms. Joanna Turner from the Helen Hall Library in League City Texas, would like to say thank you to the CLGMS club by loaning a good rocks display. The display consisted mainly of various roughs and their cabochons. The display lasted for about 2 months in June and July and received a lot of compliments.

As announced, due to job relocation, Vince has moved away and stepped down as the president. David has moved from the role of vice president to president. We need a new vice president.

The August newsletter was not completed. This was being done by Vince. We will need a new newsletter editor. Will anyone volunteer for this?

The September board meeting will be cancelled as the board figures things out in Vince's absence.

There are currently 78 members.

Next month's program is an ice cream social with show and tell. Please bring your rocks and tell the club about them.

For the library, there was an idea to put together a list of books club members have and who to contact to borrow them.

Charlie is going to send off the official letters to schools for our annual purchase of library books to schools. He is targeting 3 middle schools in Clear Lake and a middle school in League City. Charlie has attempted to call and leave messages, but no one has called back.

4 folks had shown and tell:

1. Trina – Selenite from the salt flats of Oklahoma
2. Tom – Petrified wood from Wyoming and palm heart from Utah
3. Caroline – Rhinestone jewelry
4. Charlie – Petrified wood from Mission TX and other places

The presentation was by Jerry Howard on petrified wood from around the world. He had magnificent specimens to show us.

No August meeting minutes or August board meeting minutes were submitted.

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

The October 1st CLGMS board meeting will be held at the Clear Lake Park building and members are welcome to attend. September 2018 CLGMS Meeting will be an **“Ice Cream Social”** & show and tell. Please bring any specimens, field trips findings or purchases that you would like to share with the club members and guests.

The Clear Lake Gem & Mineral Society will hold their monthly meeting on Monday, September 17th, at 7:30 p.m. at the Clear Lake Park Building located at 5001 Nasa Parkway, Seabrook. Visitors are always welcomed.



The October board meeting is planned for Oct 1, 2018. The October meeting is scheduled for October 15th. Unfortunately, the field trip to Caddo mounds on October, 20th, 2018 is cancelled due to the leader, Vince, has relocated to a different state. We will instead have auction on some specimens, decorations and jewelries.

August Birthstone(s): Peridot (American Gem Society ®)

The original birthstone for August was Sardonyx, and then peridot was added, becoming August’s primary gem. The addition of spinel, which can be found in a variety of colors, gives August babies a plethora of options!



Though peridot is widely recognized by its brilliant lime green glow, the origin of this gem's name is unclear. Most scholars agree that the word "peridot" is derived from the Arabic faridat which means "gem," but some believe it's rooted in the Greek word peridona, meaning "giving plenty." Perhaps that's why peridot is associated with prosperity and good fortune.

Peridot is the rare gem-quality variety of the common mineral olivine, which forms deep inside the earth's mantle and is brought to the surface by volcanoes. In Hawaii, peridot symbolizes the tears of Pele, the volcano goddess of fire who controls the flow of lava.

Rarely, peridot is also found inside meteorites.

Peridot's signature green color comes from the composition of the mineral itself—rather than from trace impurities, as with many gems. That's why this is one of few stones that only comes in one color, though shades may vary from yellowish-green to olive to brownish-green, depending how much iron is present.

Most of the world's peridot supply comes from the San Carlos Reservation in Arizona. Other sources are China, Myanmar, Pakistan and Africa.

Peridot only measures 6.5 to 7 on the Mohs scale, so while the raw crystal is prone to cracking during cutting, the finished gemstones are fairly robust and easy to wear.

Also known as "the Evening Emerald" because its sparkling green hue looks brilliant any time of day, peridot is said to possess healing properties that protect against nightmares and evil, ensuring peace and happiness. Babies born in August are lucky to be guarded by peridot's good fortune.

Images courtesy of Wixon Jewelers.



Spinel (American Gem Society®)



The spinel is often assumed to be other gemstones because it tends to resemble either a ruby or sapphire. In fact, some of the most famous rubies in history have turned out to be spinel. But its distinguishing features, like its octahedral crystal structure and single refraction, are what sets it apart from other gems. Spinel also has a lower Mohs hardness than ruby and sapphire.

Significant deposits of spinel have been found in Cambodia, Myanmar, Sri Lanka, and Thailand. It has also been found in Afghanistan, Australia, Brazil, Madagascar, Nepal, Nigeria, Tadzhikistan, Tanzania and the U.S.

Vivid red is the most desirable color of spinel gemstones, followed by cobalt blue, bright pink and bright orange. The more affordable stones are often those with paler colors, like lavender. You may also find spinel in black, violet blue, greenish blue, grayish, pale pink, mauve, yellow or brown. So many choices!



September Birthstone: Sapphire (Wixon Jewelers).



When hearing the word Sapphire many people immediately envision a stunning violet-blue gemstone because the word “Sapphire” is Greek for blue. For centuries, the Sapphire has been referred to as the ultimate blue gemstone. Since Ancient times the Blue Sapphire represented a promise of honesty, loyalty, purity and trust. To keep with this tradition Sapphires are one of the most popular engagement gemstones today.

Sapphire is found in many parts of the world, but the most prized Sapphires are from Myanmar (Burma), Kashmir and Sri Lanka. Sapphires with highly saturated violet-blue color and “velvety” or “sleepy” transparency are more rare. The purer the blue of the Sapphire, the greater the price. However, many people find that the darker hues of Sapphire can be just as appealing.

Sapphires are not only blue, they come in almost every color of the rainbow: pink, yellow, orange, peach, and violet colors. The most sought-after color fancy Sapphire is the rare and beautiful Padparadscha: a pink-orange corundum with a distinctive salmon color reminiscent of a tropical sunset. These ultra-rare, ultra-expensive stones are among the most coveted gems in the world.



Lucky Strike in the Western Australia Outback Could Spark 'mini gold rush' for Prospectors and Miners



Photo: Geologists Lachlan Kenna and Zaf Thanos with the gold that made headlines around the world.
(ABC Goldfields-Esperance: Jarrod Lucas)



\$15 million in gold recovered in just four days. Read more about it here:

<http://www.abc.net.au/news/2018-09-12/lucky-strike-in-outback-wa-could-spark-mini-gold-rush/10233130>

Geological Trip: Petrified Forest National Park (Wikipedia)

Petrified Forest National Park

U.S. National Park



The Tepees

Named for: Petrified wood found in the park

Country [United States](#)

State [Arizona](#)

Counties [Apache](#), [Navajo](#)

Location [Near Holbrook](#) ^[1]

- elevation [5,436 ft \(1,657 m\)](#) ^[1]

- coordinates [35°05′17″N 109°48′23″W](#)[Coordinates: 35°05′17″N 109°48′23″W](#)

Highest point

- elevation [6,235 ft \(1,900 m\)](#) ^[2]

Lowest point

- elevation [5,300 ft \(1,615 m\)](#) ^[2]

NPS fee area [146,930 acres \(59,460 ha\)](#) ^[3]

- Designated wilderness [50,260 acres \(20,340 ha\)](#) ^[4]

National Park [1962](#) ^[5]

- National Monument [1906](#)

Management [National Park Service](#)

Visitation [627,757 \(2017\)](#) ^{[6][7]}

IUCN categoryIb - Wilderness Area ^[6]

Location of Petrified Forest National Park in Arizona. Inset: Arizona in the U.S.

Website: [Petrified Forest National Park](#)

Petrified Forest National Park is a [United States national park](#) in [Navajo](#) and [Apache](#) counties in northeastern [Arizona](#). Named for its large deposits of [petrified wood](#), the fee area of the park covers about 230 square miles (600 square kilometers), encompassing semi-desert shrub [steppe](#) as well as highly eroded and colorful [badlands](#). The park's headquarters is about 26 miles (42 km) east of [Holbrook](#) along [Interstate 40](#)(I-40), which parallels the [BNSF Railway's Southern Transcon](#), the [Puerco River](#), and historic [U.S. Route 66](#), all crossing the park roughly east–west. The site, the northern part of which extends into the [Painted Desert](#), was declared a [national monument](#) in 1906 and a national park in 1962. The park received 643,274 recreational visitors in 2016, representing a decrease of 19% from the prior year and slightly below the ten year average of about 660,000. Typical visitor activities include sightseeing, photography, hiking, and [backpacking](#).

Averaging about 5,400 feet (1,600 m) in elevation, the park has a dry windy climate with temperatures that vary from summer highs of about 100 °F (38 °C) to winter lows well below freezing. More than 400 species of plants, dominated by grasses such as [bunchgrass](#), [blue grama](#), and [sacaton](#), are found in the park. Fauna include larger animals such as [pronghorns](#), [coyotes](#), and [bobcats](#), many smaller animals, such as [deer mice](#), snakes, lizards, seven kinds of [amphibians](#), and more than 200 species of birds, some of which are permanent residents and many of which are [migratory](#). About half of the park is designated [wilderness](#).

The Petrified Forest is known for its fossils, especially fallen trees that lived in the [Late Triassic](#) Period, about 225 million years ago. The sediments containing the fossil logs are part of the widespread and colorful [Chinle Formation](#), from which the Painted Desert gets its name. Beginning about 60 million years ago, the [Colorado Plateau](#), of which the park is part, was pushed upward by [tectonic](#) forces and exposed to increased erosion. All of the park's rock layers above the Chinle, except geologically recent ones found in parts of the park, have been removed by wind and water. In addition to petrified logs, fossils found in the park have included Late Triassic ferns, [cycads](#), [ginkgoes](#), and many other plants as well as fauna including giant reptiles called [phytosaurs](#), large amphibians, and early dinosaurs. [Paleontologists](#) have been unearthing and studying the park's fossils since the early 20th century.

The park's earliest human inhabitants arrived at least 8,000 years ago. By about 2,000 years ago, they were growing corn in the area and shortly thereafter building [pit houses](#) in what would become the park. Later inhabitants built above-ground dwellings called [pueblos](#). Although a changing climate caused the last of the park's pueblos to be abandoned by about 1400 CE, more than 600 [archeological](#) sites, including [petroglyphs](#), have been discovered in the park. In the 16th century, Spanish explorers visited the area, and by the mid-19th century a U.S. team had surveyed an east–west route through the area where the

park is now located and noted the petrified wood. Later, roads and a railway followed similar routes and gave rise to tourism and, before the park was protected, to large-scale removal of fossils. Theft of petrified wood remains a problem in the 21st century.

Petrified Forest National Park is known for its [fossils](#), especially of fallen trees that lived in the [Late Triassic](#) period of the [Mesozoic](#) era, about 225 million years ago. During this period, the region that is now the park was near the equator on the southwestern edge of the supercontinent [Pangaea](#), and its climate was humid and sub-tropical.^[12] What later became northeastern Arizona was a low plain flanked by mountains to the south and southeast and a sea to the west. Streams flowing across the plain from the highlands deposited inorganic sediment and organic matter, including trees as well as other plants and animals that had entered or fallen into the water. Although most organic matter decays rapidly or is eaten by other organisms, some is buried so quickly that it remains intact and may become fossilized.^[13] Within the park, the sediments containing the fossil logs for which the park is named are part of the [Chinle Formation](#).^[12]



SCFMS and MEMBER CLUB GEM SHOWS			
Oct 13 - 14, Amarillo, TX, Golden Spread GM&TS, Amarillo Civic Center, amarillotreasure.com	Oct 13 - 14, Temple, TX, Tri-City G&MS, Mayborn Civic Center, Iroiston@ht.rr.com	Oct 19 - 21, Austin, TX, Austin G&MS, Palmer Events Center, www.agms-tx.org	Nov 9 - 11, Houston, TX, Houston G&MS, Humble Civic Center, www.hgms.org
Nov 17-18, Mesquite, TX, Dallas G&MS, Mesquite Rodeo Center Exhibit Hall, www.dallasgemandmineral.org	Jan 20 - 21, 2019, Fredericksburg, TX, Fredericksburg Rockhounds and SCFMS Convention, Lady Bird Johnson Park		
Oct 5 - 7, Albuquerque, NM, Jay Penn, NM State Fairgrounds, www.albfallshow.wix.com/abq-fall-show	Oct 12 - 13, Mount Ida, AR, Mount Ida Chamber of Commerce, Montgomery Cty Fairgrounds, 31st Annual Armature World Championship Quartz Digging Contest, www.mountidachamber.com	Oct 26 - 28, Glen Rose, TX, Dallas Paleontological Society, Somervell Cty Expo Center, dallaspaleo.org	Oct 27 - 28, Oklahoma City, OK, Oklahoma City M&GS, Oklahoma State Fair Park, www.OMGS-minerals.org
<p>STONEY STATEMENTS Clear Lake Gem and Mineral Society, Inc</p> <p>PO BOX 891533 Houston, Texas 77289</p>			

Meeting 3rd Monday of the Month
 7:30 P.M.
 Clear Lake Park Building
 5001 NASA Parkway, Seabrook, Texas



Member of

Next Annual Show
 February 23-24, 2019
 Pasadena Convention Center

CLGMS is on the Web:
<http://www.clgms.org>
 2/23-24 2019



American
 Federation of
 Mineral Societies

South Central
 Federation of Mineral
 Societies

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.

2018 OFFICERS:	President	David Tjiok	832-423-4802
	Vice President	VACANT	
	Secretary	Trina Willoughby	713-815-0275
	Treasurer	Jerry Newberry	281-333-2113
	Program Director	VACANT	
	Board of Directors:	Sandra Christiansen	
		John Caldyne	
		Jim Edwards	
		Sandra Christiansen	
	Newsletter Editor	VACANT	

Annual Show 2018	VACANT	Membership.....	Mike Flannigan
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Community Benefits.....	Charlie Timme	Refreshments.....	John Caldyne
Historian.....	David Tjiok	Education/Field Trips.....	Annabel Brownfield
Publicity.....	VACANT		
Facebook.....	Trina Willoughby		

Membership Dues Jan. to Dec. 2018: 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