



# The Rockhound

Official Publication of the Gem & Mineral Society of the Palm Beaches, Inc.

[www.gemandmineralsociety.org](http://www.gemandmineralsociety.org)  
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## President's Message

Greetings and Happy New Year to all of our Club Members and Friends!

As we roll on into the new year, it is time to look at new things we want to do, and things we want to improve! Here are a few things we are working on, and some opportunities to get involved with your Club:

Our First Vice President, Dianna Ray, is working on starting a "member outreach" program. She is looking to assemble a team who can assist in reaching out to our members, old and new, a few times a year just to touch base. This would usually be a phone call, just to say "Hi!" or "We miss you," and "What would you like to see from your club?" If you are interested in helping with this effort, please contact Dianna, and be thinking about what you'd like to see different (and how you can help to make it happen)!

We are beginning to plan social activities (like the Steak Dinner and Auction) and field trips for 2020. If you have donations for the auction, they can be dropped off at the shop or pick-up can be arranged. If you would like to help with the planning, please let me or another board member know. If you have a favorite field trip location in mind, and are willing to help plan a trip for club members, let us know too!

Speaking of field trips, the EFMLS Annual Convention is taking place in Hickory, NC at the end of March. I'll be attending, and am still figuring out my travel plans. The Hickory area has many activities for side trips, and there is a planned field trip to Probst Farm for sapphires on Monday, March 30th. If you are available to travel in late March, this is a great chance for rockhounding, comparing notes, and making new friends. Here are links to [more information](#) from the EFMLS site and the [hosting club site](#).

Thank you all for your support throughout the last year; here's looking forward to many more ahead!

Rock On!

— Laura Simmons, President

## Membership Meeting

Thursday, January 16  
7:30 PM

4800 Dreher Trail North  
West Palm Beach FL 33405  
at the Multi-Purpose Center

**K.C. Foster:**  
**"Crystallography, Not Such a Mystery"**

We will learn how to use basic crystallography in the identification of gemstones and minerals. Most minerals have different, predictable shapes. These shapes can help to determine what minerals they are.



## *IN THIS ISSUE*

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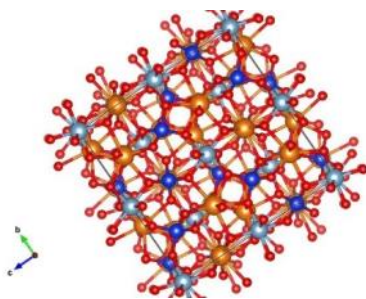
# January Birthstone: Garnet

The birthstone for January is the garnet. While most people tend to think of garnets as deep red stones, garnets are found in many different colors from colorless to black.



Photo by Moha 112100 on Wikipedia  
 See: <https://creativecommons.org/licenses/by-sa/3.0/deed.en>

The word garnet refers to a group of minerals and not just one mineral. Naturally occurring garnets have the general formula  $X_3Y_2(SiO_4)_3$  where the X's and Y's are different metals where the X's have a +2 charge and the Y's have a +3



charge. The photo at the top is of Andradite garnet. The drawing at left shows the crystal structure of garnet oriented so that you can see some of the crystal symmetry.

Name	X	Y
Almandine	Fe (iron)	Al (aluminum)
Pyrope	Mg (magnesium)	Al (aluminum)
Spessartine	Mn (manganese)	Al (aluminum)
Andradite	Ca (calcium)	Fe (iron)
Grossular	Ca (calcium)	Al (aluminum)
Uvarovite	Ca (calcium)	Cr (chromium)

Garnets are found all over the world. Closer to home garnets are found in the mountains of Georgia and more widely known in the mountains of North Carolina. The North Carolina garnets tend to be very deep red and are referred to as rhodolite which is a mixture of Pyrope and Almandine. The North Carolina

garnets tend to have many inclusions and low clarity but clear garnets are found. The color is caused by the iron in the almandine. If the stone were absolutely pure pyrope it would be colorless. A Google search for colorless garnet did turn up colorless garnet known as leuco garnet which is very rare and is not pyrope but instead is grossular garnet.

There are many locations in North Carolina where garnets can be found (just Google "Gem mines in North Carolina") an interesting one is known as the Little Pine Garnet Mine. The Little Pine mine belongs to:

### Sandy Bottom Trail Rides

1459 Caney Fork Road  
 Marshall, NC 28753

Of course this is a 10-12 hour drive depending on the route you take from here and would probably be best done as part of a more extended trip. You get to the mine either on horseback or wagon for the less adventuresome. Anything you find at the mine is yours to keep. They claim that gem quality garnets are found there.

### References:

- <https://help.thediamondstore.co.uk/gemguides/garnet/>
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- <https://www.sandybottomtrailrides.net/index.php/gem-mine>
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- <https://www.americangemsociety.org/page/januarybirthstone>
- <https://en.wikipedia.org/wiki/Garnet>
- <https://en.wikipedia.org/wiki/Rhodolite>

-Article compiled by Richard Tracey



# HOLIDAY BANQUET



Saturday, December 6, 2019



*Club members celebrated the holidays in our usual meeting place with great food catered by Too Jay's and lots of holiday cheer! 2020 officers were installed, gifts were exchanged, and we voted in two competitions—the Ugly Holiday Sweater Contest and the Holiday Centerpiece Contest.*



# HOLIDAY BANQUET CENTERPIECE CONTEST

#1  
Cindi Taylor



#2  
Shir-Lee  
Rosenberg



#3  
Jenny  
Wright



# Sunshine News



## Holiday Banquet Ugly Sweater Contest Winners

#1

Angela Juliano

#2

Arlene Lazzaro

#3

Stephanie Rosicci

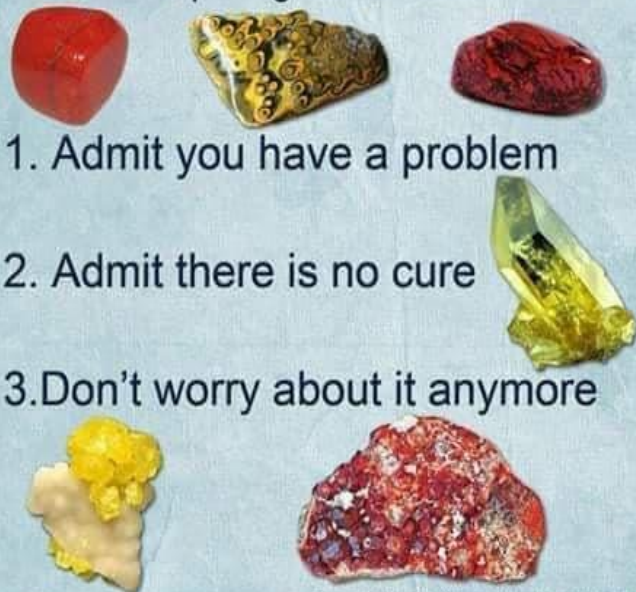
Thanks to all that came and helped to make our holiday party fun and to welcome our officers for another year.

Thanks also to all the hard work that went into our Annual Show in November. Without your help, it would not have been the great success it was.

Feel better, Susan Cairl!

## Rock Collectors Anonymous

A Three Step Program for Rockaholics



1. Admit you have a problem

2. Admit there is no cure

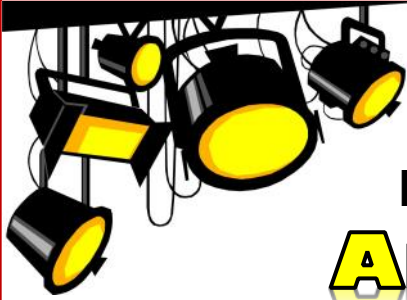
3. Don't worry about it anymore

Facebook.com/CrazyRockLadyRocks

## 2019 Annual Show Report

We had a very successful Annual Show in November! We will be able to give the club an amount of money similar to 2017. We also have over \$1300 to add to our Scholarship Fund. We want to thank all the volunteers for their hard work in making the show a success. For the most part, vendors were very pleased, and some expressed an interest in having larger booths in 2020. Attendance was up over 2018 by 30% due in large part to advertising on Facebook.

There will be a show meeting the 2nd Monday in February. Come join us!



## Member Highlight: **Arlene Lazzaro**

One of our most active and talented club members is Arlene Lazzaro. She joined the club with her daughter Samantha some 14 or 15 years ago. It was Samantha's interest in jewelry making that spurred the journey for both of them. Soon they were taking classes at the shop as well as at William Holland, later teaching their skills to others.

Arlene might be best known to club members for the many classes she teaches at the shop, including a whole series on cold connections. She also won the display case competition at our annual show, both in 2018 and 2019. Her creativity and artistic eye are outstanding. She credits her creative instincts to her background in interior design. You may also have seen her demonstrating various techniques at the annual show and volunteering for various club projects. She's also very active behind the scenes, putting together refreshments for our monthly meetings, and serving on the Nominating Committee.

Arlene and Samantha currently travel to gem shows all over Florida, and both teach classes. Arlene teaches cold connections at Wildacres and the Great Bead Escape, while Samantha teaches enameling at William Holland and Wildacres. They belong to three gem clubs in South Florida. This month, Arlene will also be teaching a class at our shop on wire wrapping for beginners. Information on the wire wrapping class is on the next page.

Arlene hopes to continue recruiting people to join the club and get involved!

The Gem and Mineral Society of the Palm Beaches appreciates and thanks Arlene and her daughter Samantha for all their hard work in support of the club. How could we do it without you?



**Arlene Lazzaro's #1 Display Case at GMSPB's 2019 Annual Show (you see why she won, right?)**

### Club Purpose

To associate persons of the Palm Beach area of Florida who are interested in earth sciences, to work together as an organization in the gathering, cutting, displaying, and studying of rocks, shells, artifacts, and any kind of scientific objects of interest to the individual and the organization, to promote community interest in these objects.

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*Sheri Hecoeks  
Angela Juliano  
Mark Kucera  
Samantha Lazzaro  
Marlon Leon  
Jennifer McIntyre  
Aiden Northrup  
Dennis Rietwyk  
Charlotte Simo  
Mary Ann Stamper  
Carol Swete  
Marian Wells*

Birthdays are nature's way of telling us  
to eat more cake.

## *Cabbing with Lee Miller*

**Saturdays, starting January 4, 2020  
11 AM—2 PM**

**Instructor: Lee Miller**

*This six-session cabbing class begins in early January. If you missed the first session, it's not too late to join.*

*The classes are three hours long. Once completed, you will be certified to work with the cabbing equipment on your own.*

*If you want to sign up or you have questions, please contact Lee Miller at 561/329-8872 or wilfred12244@yahoo.com.*



## **WIRE WRAPPING FOR BEGINNERS**

Friday, Jan. 17  
10 am—5 pm  
GMSPB shop  
Instructor:  
Arlene Lazzaro

\$30 Class fee  
\$45 Materials  
fee



This class is intended for beginners. Arlene will be concentrating on wire wrapping a cabochon pendant, since so many of our club members create their own. If time permits, we will also wire wrap a ring.

We will be working with copper wire, which will be supplied, as well as tutorials and other goodies. Bring your own cabochons and tools if you wish, or they will be available from Arlene.

Please contact Arlene Lazzaro if you are interested. Class size is limited and the class is filling fast, so speak up soon!

**Arlene Lazzaro  
516/810-3495  
polka.girl4@yahoo.com**

# Second Annual SFMS Rockhound Round-Up

A "Good Old-Fashioned Rock Swap"  
for members of SFMS Clubs

March 6-8, 2020  
Spirit of Suwannee Music Park  
3076 95th Drive Live Oak, FL 32060  
(386) 364-1683  
[www.musicliveshere.com](http://www.musicliveshere.com)



For Buyers Only: The only cost to attend is the Admission Fee for the Park.  
For Sellers: \$25.00 for a 10' x 20' 'booth' to be a Vendor, plus the Park Admission.

For more information, or to apply for a booth, please contact  
Jerri Heer at [jheerx6@aol.com](mailto:jheerx6@aol.com).



<https://www.facebook.com/events/spirit-of-the-suwannee-music-park/first-annual-sfms-rockhound-roundup/307301066630003/>

## TY PARK Tri-Club Picnic and Rock Swap & Sale

**Sunday, January 19, 2020 from 10:00AM-4:00 PM**  
**Pavilion #9 at TY Park (see map)**

- ◆ Relax and mingle with members of the Palm Beach, Gold Coast, and Miami clubs
- ◆ Bring a **potluck dish** to share, your **table service** and **drinks** (no glass containers)
- ◆ Bring **items to donate** to Raffles and Bingo, which pay for pavilion
- ◆ Arrive around 9:30-10:30 if you wish to set up a table to sell club related items (no charge), just bring **table** and **chairs**
- ◆ Lunch begins at 11:30
- ◆ Volunteers are needed to help set-up, sell tickets, call bingo, and clean-up.
- ◆ For more info, call Sean Branigan at 954/592-1503 or KC Foster at 561/523-4600.



**DIRECTIONS:** From I-95 go West on Sheridan Street. Go North (right turn) on North Park Road. The Park entrance will be on the right (east) side. *Park admission is \$1.50 per person.*



## World's Oldest Fossil Trees Discovered in New York

from [geologyin.com](http://geologyin.com)

Fossilized trees dating back 386 million years have been discovered at an abandoned quarry in New York.

It is believed the extensive network of trees, which would have spread from New York all the way into Pennsylvania and beyond, is around 386 million years old.

This makes the Cairo forest around 2 or 3 million years older than what was thought to be the world's oldest forest at Gilboa, also in New York State and around 40 km away from the Cairo site.

The new findings, which have been published today in the journal *Current Biology*, have thrown new light on the evolution of trees and the transformative role they played in shaping the world we live in today.

A team led by scientists at Binghamton University, New York State Museum and Cardiff University have mapped over 3,000 square meters of the forest at the abandoned quarry in the foothills of the Catskill Mountains in the Hudson Valley.

Their investigations showed that the forest was home to at least two types of trees: cladoxyloids, primitive tree-fern-like plants, which lacked flat green leaves, and which also grew in vast numbers at Gilboa; and *Archaeopteris*, which had a conifer-like woody trunk and frond-like branches which had green flattened leaves.

A single example of a third type of tree was also uncovered, which remained unidentified but could possibly have been a lycopod.

All these trees reproduced using only spores rather than seeds.

The team also reported a 'spectacular' and extensive network of roots which were more than eleven meters in length in some places which belonged to the *Archaeopteris* trees.

It is these long-lived woody roots, with multiple levels of branching and small, short-lived perpendicular feeder roots, that transformed the interactions of plants and soils



The rooting system of the ancient tree *Archaeopteris* at the Cairo fossil Forest site. Credit: Charles Ver Straeten

and were therefore pivotal to the co-evolution of forests and the atmosphere, the researchers state.

Until this point in time, trees such as the cladoxyloids only had ribbon-like and mostly unbranched roots which had to be constantly replaced as the plant above ground grew.

They believe the forest was eventually wiped out by a flood due to the presence of many fish fossils that were also visible on the surface of the quarry.

"It is surprising to see plants which were previously thought to have

had mutually exclusive habitat preferences growing together on the ancient Catskill delta," said co-author of the study Dr. Chris Berry from Cardiff University's School of Earth and Ocean Sciences.

"This would have looked like a fairly open forest with small to moderate sized coniferous-looking trees with individual and clumped tree-fern like plants of possibly smaller size growing between them."

The research team say that the Cairo forest is older than the one at Gilboa because the fossils were lower down in the sequence of rocks that occur in the Catskill mountains.

"In order to really understand how trees began to draw down carbon dioxide from the atmosphere, we need to understand the ecology and habitats of the very earliest forests, and their rooting systems," continued Dr. Berry.

"These remarkable findings have allowed us to move away from the generalities of the importance of large plants growing in forests, to the specifics of which plants, in which habitats, in which types of ecology were driving the processes of global change. We have literally been able to drill into the fossil soil between the trees and are now able to investigate geochemical changes to the soil with our colleagues at Sheffield University.

"We are really getting a handle on the transition of the Earth to a forested planet."

The above story is based on materials provided by [Cardiff University](http://CardiffUniversity.com).

# The Psychology of COLOR & Jewelry Design



Design  
Idea  
E85S

by Anne Marie Hunter, Exclusively for Fire Mountain Gems and Beads®

Reprinted from the [FireMountainGems.com](http://FireMountainGems.com) site.

Fire Mountain Gems is one of the most popular beading/jewelrymaking sites on the Internet.



Design  
Idea  
73H9

Simply, color comes from light. On Earth, we are surrounded by electromagnetic waves of energy, of which color is just a small part. Composed of varying wavelengths of energy, each color has its own properties, unique wavelength and frequency, and is measured in units of cycles or waves per second. And, color is one of the few forms of energy we can actually see.

Though the color energy that comes from light can be described scientifically, human beings do not react to color in a logical way. Instead, we respond emotionally and psychologically to color and its different frequencies. We have unique preferences and feelings about different colors.

For peace or a sense of well-being, many of us even feel needs for certain colors. Often a catalyst for mood changes, color can be integral to our feelings. We also express ourselves or make a statement through the colors we choose to wear and surround ourselves with.

Certain colors are considered to be healing for the mind and body. Color therapy, or chromotherapy, is a holistic and non-invasive therapy that dates back thousands of years. Evidence of this practice can be found in ancient texts from India, China and Egypt. Ancient practitioners of chromotherapy built great halls for color healing, where individuals entered and were bathed in light that was filtered through various colored glass panels or windows.



Design  
Idea  
E83Z

## The Psychology of Color & Jewelry Design (continued)

In chromotherapy, red was thought to bring warmth and activate the body and mind; yellow, the color of the sun and representing the life force, was used to stimulate the nerves; blue was considered to purify and soothe the mind and body. Thoughts about healing properties attributed to specific colors have remained consistent from ancient times to today. Also, for thousands of years, gemstones of various colors have also been incorporated in healing practices and color therapy.

In her article, "[The Power of Color in Jewelry: What Color Messages are You Sending?](#)", Susanne Kathol writes, "Colors can create physical and emotional reactions, acting on both the body and mind. Scientists have found that actual physiological changes take place in human beings when they are exposed to certain colors. Colors can stimulate, tranquilize and create a feeling of warmth or coolness." And, each of us has our own unique response to different colors.

As a jewelry-artist, color is one of the most significant design tools you have. In this easy-to-read guide, explore common colors, the personality traits they represent and the types of first impressions, feelings and emotions they may invoke. An excellent reference, you'll find product suggestions to creatively incorporate color into designs.

By understanding the symbolic meaning of color (or the psychology of color), you can choose the right color to support and emphasize your design. Informed, thoughtful choices about color can infuse your designs with heightened meaning.

Along with awareness of the psychological and emotional impact of color, knowledge about color theory and the color wheel are important to consider when making color choices as a designer. In this video, learn about [The Basics of Color](#), as you explore the infinite possibilities of color in jewelry design. In addition, the color wheel offers guidelines that can be used to make a variety of color combinations. Color design is exciting. Experiment to see how you like the look and feelings generated with new color possibilities. No one color is "good" or "bad." Instead, color is a compositional element integral to your designs.

When designing jewelry, consider the inspiration or significance colors might have for those who wear your creations. Open your imagination as you shop by color for gemstones, Swarovski crystals and more. Color is a language of the soul. As a jewelry artist, it is a beautiful, meaningful language you speak with every design you create.

Reprinted from the [FireMountainGems.com](http://FireMountainGems.com) site.



Design  
Idea  
E31G

# What is a “Successful” Mineral Collector?

By Darryl Powell

Reprinted with permission from Mini Miners Monthly, Vol. 12 No. 1,  
a monthly newsletter for children and beginners.

<http://diamonddanpublications.net/>

*Many years ago I had the opportunity and thrill to visit Mr. Martin Zinn at his home in Colorado. Marty Zinn is known as having (sic.) one of the best mineral collections in America. He had an eye for the best specimens. In his home he created a special display room where his mineral treasures were carefully displayed for people to enjoy. Walking into his mineral room was a “WOW!” experience. I didn’t know where to look first. I was looking at some of the best mineral specimens ever recovered. The colors, forms, sizes, combinations...it was a very special experience.*

*And then I thought of my own specimens. My first thought was that, by comparison to his collection, I only had a bunch of mineral scraps. To me, Mr. Zinn was who and what a successful mineral collector should be: excellent specimens displayed in the best of cabinets with perfect lighting. Mr. Zinn had worked hard and had earned the money he needed to build up this museum-quality mineral collection.*

*Does this mean that a “successful” mineral collector has to have a lot of money? What does it mean to be “successful” as a mineral collector?*

*What is success? Some people say having the best, most expensive mineral specimens. Some say having a lot of mineral specimens. Others would say finding their own specimens in the field. Others would say finding a really great specimen at a really low price.*

*Here’s what some experts have to say about “success”:*

*One man said, “Success is hitting your goals.” One dictionary definition is “the accomplishment of*

*one’s goals.” I like this attitude. You are a mineral collector. What is your goal or what are your goals? Make a list of your goals for mineral collecting. When you reach them, guess what? You are a success! On the next page is a place for you to list your goals. THEN GO FOR THEM!*

*What are your goals, your wishes and dreams, as a mineral collector? Another said, “Being happy!” This is a great thought. What would make you happy as a mineral collector? Is there a specimen from a certain mine that you want? Might it be a number of different minerals from a specific locality that you find really pretty? Maybe it’s a specimen that has to come from a very old collection (personally, I’d love to have a small cabinet-sized specimen of silver wires from Kongsberg, Norway. Who knows? It just may happen some day!)*

*What makes you happy?*

*Here’s one that may surprise you: Success in mineral collecting is making good friends. Through the years of being part of mineral clubs, I have met a lot of really wonderful people. They are fun, really smart, generous and willing to share their wisdom. In the process we all added some really great specimens to our collections. But the friendships are much more important than the specimens. The wonderful people met along the way have made mineral collecting successful to me.*

*Are other collectors and friendships important to you?*

*What is your definition of success? What would make you be able to say, “I’m a successful mineral collector!”?*

# The best spots for fossil hunting in America

Find the remains of megalodons, trilobites, and saber-tooth salmon.

Reprinted from [maps.roadtrippers.com/trips/20150022](https://maps.roadtrippers.com/trips/20150022)

Something about fossil hunting makes you feel like a kid again. Maybe it's the childlike excitement you feel over finding a really cool rock, or it's just the sheer joy of remembering that dinosaurs are really freaking awesome. Either way, fossil hunting is a simple, kind of addicting activity that's perfect for all ages. Whether you're digging up trilobites in shale out West, or you're searching for megalodon teeth on the East Coast, fossils are buried treasure that you can find pretty much all over the country... if you know where to look and have the right tools. Here are some hot spots for prehistoric fossils, and hints on how to find them!



## Westmoreland State Park, Virginia

Hidden in the sand on the edges of the Potomac's riverbanks in Westmoreland State Park are gems: Megalodon teeth. The area was once a shallow ocean where these dino-sharks swam. Like most sharks, they had lots of teeth (each had about 250 teeth spanning 5 rows in their mouths). The megalodons died out, and their teeth and bones were fossilized under more rock. The ocean where they lived disappeared... but their layers of rock containing their fossils were exposed as the Potomac River eroded away the layers rock above. There are loads of other Miocene fossils to be found on the riverbanks, including those from early gators, dolphins, whales, fish, and assorted mammals. These are all about 23-25 million years old! Take the park's Beach Trail from the visitor center to the river for the best fossil hunting. Other features of

Westmoreland State Park include hiking trails, fishing, swimming, and camping.

## Purse State Park, Maryland

Purse State Park (or the Purse Area of the Nanjemoy Wildlife Management Area) is a remote little spot that's loaded with fossils. In addition to shark teeth found on the beaches of the Potomac River's Wades Bay, you can also find Cibicides shells. The Cibicides, according to Wikipedia, "is a genus of cosmopolitan benthic foraminifera". You can identify the shell by its "multichambered, plano-convex trochospiral, with a flat or dished-out evolute spiral side and a strongly arched, involute umbilical side". Translation: it looks real cool. The day-use park has no facilities, so come prepared; a picnic lunch makes a great break from fossil-hunting. Plus, the free admission and lack of crowds mean you get access to primo fossil-searching.

## Big Brook Park, NJ

New Jersey is also a hotbed for fossil finds. The teeth and vertebrae of goblin sharks, mackerel sharks, crow sharks, angel sharks, sawfish, rays, drumfish, and, my favorite, saber-tooth salmon can be found at Marlboro's Big Brook Park. Remains of Mososaurs (which are late Cretaceous marine lizards), mollusks and Belemnites (which were squid-like cephalopods) can also be found. If you didn't already know, the continent's very first (nearly) complete dinosaur skeleton was discovered not in the West, but right here in New Jersey. It helps to look up the different kinds of fossils from some of these creatures, or to see what kinds of fossils can be found at these sites, so you have a good idea of what to look for when you start hunting.

# The best spots for fossil hunting in America

Find the remains of megalodons, trilobites, and saber-tooth salmon. (continued)

## **Penn Dixie Fossils**

Fossil parks are surefire bets for those who really want to leave with treasure. Penn Dixie Fossils in New York state is open from late April until late October, and for less than \$10 a person, you get the chance to find one of the most prized of all fossils: trilobites. They're also home to prehistoric crabs, sea lilies, starfish, mollusks, coral, snails, and more, along with petrified wood and paleozoic fish. They have an annual "Dig with the Experts" event as well, which features extra digging equipment and scientific experts onsite to help you identify your finds. Everything is from the Middle Devonian period, meaning the fossils are more than 300 million years old.

## **Fossil Park, Ohio**

375 million years ago, Northwest Ohio was also underwater. Now, it's not. Fossil Park in Sylvania is a rock quarry where you can dig up the remains of the area's watery past, including brachiopods, coral. There are 5 acres of Devonian-era booty to dig up, and the best part is that it's all free. There's also a nice walking path, and interpretive signs to help you figure out what fossils you've found.

## **Mineral Wells Fossil Park, Texas**

Mineral Wells Fossil Park is an old 1990s borrow pit that's been found to be filled with fossils after 20 years of erosion. Keep your eyes peeled for crinoids (sea lilies), echinoids (urchins), brachiopods, pelecypods (bivalves), bryozoans, corals, trilobites (arthropods), plants and even primitive sharks. This is another site that's primitive, but free to visit, so come prepared to load up on fossilized finds.

## **Florissant Fossil Quarry, Colorado**

Colorado is another spot famous for dino bones and fossilized remains. The shale at the Florissant Fossil Quarry hides preserved remains of bugs and

plants. They provide all the tools and instruction you need to split the shale and reveal fossils. Or, if you'd rather hunt for fossils in the comfort of your own backyard, they sell bags of their shale to-go and will tell you everything you need to know to find the fossils inside. While you're in the area, you can stop by the Florissant Fossil Beds National Monument. You can't remove fossils from the National Monument, but you can see some amazing specimens and great examples of what you might find at the quarry.

## **Fossil Safari at Warfield Fossil Quarries, Wyoming**

This might come as a surprise to you, but Wyoming was also once covered by water. That's why there are so many fish fossils at the Fossil Safari at Warfield Fossil Quarries. You'll split shale in search of Eocene-age fish species of all sizes, like Knightia, Diplomystus, Phareodus, Mioplosus, Amphiplaga, and Priscacara. They guarantee that within two hours, you'll have found a satisfactory amount of 40-60 million-year-old fossils, which means more reward for less digging. They also offer guided night digs at another of their quarries, for those who want to avoid the heat. That experience doesn't come cheap, but it will be unforgettable!

## **U-dig Fossils, Utah**

Another prime spot for trilobites, U-dig Fossils in Utah has a 40-acre quarry with loads of gems to find. They claim that the average visitor can find ten to twenty trilobites in a four-hour period, along with brachiopods, sponges, worm tracks, phyllocarids and other mid-Cambrian fossils. They can be pretty small, but they're pretty well preserved. They'll provide the tools and info you need on splitting shale to get to the fossils.

Reprinted from [maps.roadtrippers.com/trips/20150022](https://maps.roadtrippers.com/trips/20150022)

## UPCOMING EVENTS

January 10-12, Largo, FL: **PINELLAS GEOLOGICAL SOCIETY'S 44th ANNUAL GEM, MINERAL & JEWELRY SHOW and SALE.** Central Park Performing Arts Center, 105 Central Park Drive, Largo, FL. Fri & Sat 10-5; Sunday 12-5. For more information contact 727/709-3236.

January 18-19, Deland, FL: **TOMOKA GEM & MINERAL SOCIETY 45th ANNUAL JEWELRY, GEM, MINERAL, AND FOSSIL SHOW & SALE.** Sat 10am-6pm; Sun 10am-5pm. Volusia County Fairgrounds (Tommy Lawrence Arena), 3150 E. New York Ave, Deland, FL 32724. ¼ mile east of I-4 at Exit 118A, Rt. 44. Hourly Drawings, Silent Auction, Grand Prize Drawing, Coquina Kid's Table, Demonstrations. Slabs, beads, tools, jewelry, specimens, fossils by 50+ vendors. Free Parking. \$4.00 Adult, 12 and under free, \$1 off coupon on website. Contact Show Chair: Mary DeJan 386/871-6221 or tomokagmsvendor@gmail.com. Website: www.tomokagms.org

March 6-8, Live Oak, FL: **SFMS ROCKHOUND ROUND-UP.** See [Page 8](#) for information.

Looking to travel to one of the top gem and mineral shows in the USA? Check out the list here: [http://www.geologyin.com/p/with-literally-hundreds-of-places.html?fbclid=IwAR2zclomNwYZ8VKpYZ-hEn\\_OORxz2gxau0VV3YwuiaDwjzIKxMOx8NOYG0#bcTfcb7ksLdJi1q.99](http://www.geologyin.com/p/with-literally-hundreds-of-places.html?fbclid=IwAR2zclomNwYZ8VKpYZ-hEn_OORxz2gxau0VV3YwuiaDwjzIKxMOx8NOYG0#bcTfcb7ksLdJi1q.99)

## A CALL FOR OUTREACH VOLUNTEERS

Feeling "connected" is important to all of us.

Sometimes we get so involved in what we are familiar with that we forget about some of our co-members in our club. I am setting up an outreach to include more of our members to enjoy what we love to do and participate in more events. We want everyone to feel important and included.

If you are interested in being part of this outreach please contact **Dianna Ray** at **561/707-6753**—call evenings/weekends or text anytime.



## *It's Time to Renew for 2020*

*It's that time of the year!*

*Membership forms are available on the next page, and also at club meetings. Online membership signup and renewal is also available on the club website under the About menu.*

[www.gmspb.org](http://www.gmspb.org)



*Which one is fuller?*

## Gem and Mineral Society of the Palm Beaches, Inc. Membership Application

**Check ONE Only: \***

- \_\_\_ \$20.00 - Individual Membership - Any single adult 18 years of age or older  
\_\_\_ \$30.00 - Family Membership - Two adults, all minor children & students up to age 21 in household.  
\_\_\_ \$10.00 - Junior Membership - A child under the age of 18 joining with the permission of a parent or guardian.

**Check ONE Only:**

- \_\_\_ New Membership  
\_\_\_ Renewal Membership

Please provide us with your name(s), address, telephone number and email address (if you have one). We need a mailing address and telephone number for contact purposes. Any information provided will be kept private and secure and will not be shared with any outside persons, organizations or entities. Members information may be published in the annual Society Roster for the sole distribution to other Society members.

NAME: \_\_\_\_\_ Month & Day of Birth: \_\_\_\_\_

SPOUSE OR PARTNER: \_\_\_\_\_ Month & Day of Birth: \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE ZIP \_\_\_\_\_

HOME PHONE \_\_\_\_\_ CELL PHONE \_\_\_\_\_

SPOUSE'S PHONE \_\_\_\_\_ CELL PHONE \_\_\_\_\_

EMAIL ADDRESS \_\_\_\_\_

SPOUSE'S EMAIL \_\_\_\_\_

Family Membership additional names (year of birth required for children under the age of 18)

CHILD'S NAME \_\_\_\_\_ mm/dd/yyyy of Birth \_\_\_\_\_

CHILD'S NAME \_\_\_\_\_ mm/dd/yyyy of Birth \_\_\_\_\_

CHILD'S NAME \_\_\_\_\_ mm/dd/yyyy of Birth \_\_\_\_\_

CHILD'S NAME \_\_\_\_\_ mm/dd/yyyy of Birth \_\_\_\_\_

(Minor's Information required so that we may include them for Eastern Federation Dues and third-party liability insurance.)

By signing below, I hereby submit my application for membership into the Gem and Mineral Society of the Palm Beaches.

Signature \_\_\_\_\_ Date: \_\_\_\_\_

Amt. Enclosed: _____	
<input type="checkbox"/> Cash	<input type="checkbox"/> Check
Check # _____	
Date Received: _____	



# JANUARY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Bring on the NEW YEAR!	2 Open Shop 12:30-3:30 PM General Work <b>BOARD MEETING</b> 7:00 PM	3 Open Shop 6-9 PM General Work Susan 561/293-1298	4 Open Shop 10-2 General Work <b>CABBING CLASS</b> 11-2
5	6 Open Shop 10:30AM - 5 PM General Work Samantha 631/764-6556	7	8	9 Open Shop 12:30-3:30 PM General Work Dennis 561/255-0292	10 Open Shop 6-9 PM General Work Susan 561/293-1298	11 Open Shop 10-2 General Work <b>CABBING CLASS</b> 11-2
12	13 Open Shop 10:30AM - 5 PM General Work Samantha 631/764-6556	14	15	16 Open Shop 12:30-3:30 PM General Work <b>MEMBERSHIP MEETING</b> 7:30 PM	17 Open Shop 6-9 PM General Work <b>WIRE WRAPPING</b> 10-5	18 Open Shop 10-2 General Work <b>CABBING CLASS</b> 11-2
19 <b>TRI-COUNTY PICNIC AT TY PARK</b> 10 AM-4PM	20 Open Shop 10:30AM - 5 PM General Work Samantha 631/764-6556	21	22	23 Open Shop 12:30-3:30 PM General Work Dennis 561/255-0292	24 Open Shop 6-9 PM General Work Susan 561/293-1298	25 Open Shop 10-2 General Work <b>CABBING CLASS</b> 11-2
26	27 Open Shop 10:30AM - 5 PM General Work 631/764-6556 Samantha	28	29	30 Open Shop 12:30-3:30 PM General Work Dennis 561/255-0292	31 Open Shop 6-9 PM General Work Susan 561/293-1298	

# February

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						<b>1</b> Open Shop 10-2 General Work  <b>CABBING CLASS</b> 11-2
<b>2</b>	<b>3</b> Open Shop 10:30AM - 5 PM General Work Samantha 631/764-6556	<b>4</b>	<b>5</b> <b>BOARD MEETING</b> 7:00 PM	<b>6</b> Open Shop 12:30-3:30 PM General Work Dennis 561/255-0292	<b>7</b> Open Shop 6-9 PM General Work Susan 561/293-1298	<b>8</b> Open Shop 10-2 General Work  <b>CABBING CLASS</b> 11-2
<b>9</b>	<b>10</b> Open Shop 10:30AM - 5 PM General Work  <b>SHOW COMMITTEE MEETING 7PM</b>	<b>11</b>	<b>12</b>	<b>13</b> Open Shop 12:30-3:30 PM General Work Dennis 561/255-0292	<b>14</b> Open Shop 6-9 PM General Work Susan 561/293-1298	<b>15</b> Open Shop 10-2 General Work Lee 561/389-8584
<b>16</b>	<b>17</b> Open Shop 10:30AM - 5 PM General Work Samantha 631/764-6556	<b>18</b>	<b>19</b>	<b>20</b> Open Shop 12:30-3:30 PM General Work  <b>MEMBERSHIP MEETING</b> 7:30 PM	<b>21</b> Open Shop 6-9 PM General Work Susan 561/293-1298	<b>22</b> Open Shop 10-2 General Work Lee 561/389-8584
<b>23</b>	<b>24</b> Open Shop 10:30AM - 5 PM General Work 631/764-6556 Samantha	<b>25</b>	<b>26</b>	<b>27</b> Open Shop 12:30-3:30 PM General Work Dennis 561/255-0292	<b>28</b> Open Shop 6-9 PM General Work Susan 561/293-1298	<b>29</b>



## AVAILABLE CLASSES

CLASS	INSTRUCTOR	COST	DATE/TIME/NOTES
◇ Introduction to Chainmail ◇ How to Use the Jumpringer ◇ Introduction to Metalsmithing  ◇ Viking Wire Weave	Laura Simmons 407/234-0444	\$30 + \$10 materials fee \$10 + \$5 materials fee \$50 + \$30 materials (copper) or \$60 materials (silver) \$30 + \$15 fee	Contact instructor to arrange.
Cabochon sessions Six 3-hr sessions	Susan Cairl 561/293-1298	\$75 + \$20 materials fee	Contact instructor to arrange.
Cold Connections Class Series: ◇ Explosion Pendant ◇ Fold Forming Bracelet w/Beveled Stone Setting ◇ Scrapbook Bracelet (rivets) ◇ Metal Etching & Air Chasing Bracelet ◇ 3D Pendant w/Druzy Stone Slice NEW!	Arlene Lazzaro 516/810-3495	\$40 + \$35 materials fee \$40 + \$35 materials fee \$40 + \$35 materials fee \$40 + \$40 materials fee \$40 + \$40 materials fee	Contact instructor to arrange.
Enameling	Samantha Lazzaro 561/372-2359	\$40 + \$50 materials fee	Contact instructor to arrange.
Flat Lap	Susan Cairl 561/293-1298	\$40 + \$10 supplies fee	Contact instructor to arrange.
Gem Tree	Dianna Ray 561/707-6753	TBD	Contact instructor to arrange.
Metalsmithing: ◇ Alien Prong Ring	Arlene Lazzaro 516/810-3495	\$40 + \$15 materials fee	Contact instructor to arrange.
Wire Fan Bracelet Class	Debi Kachman 561/568-8736	\$30 + \$20-50 materials fee (depending on metal) OR supply list can be provided	Contact instructor to arrange.
Wire Sculpture Class	Debi Kachman 561/568-8736	\$30 + \$20-50 materials fee (depending on metal) OR supply list can be provided	Contact instructor to arrange.

## The Rockhound

Official publication of the Gem & Mineral Society of the Palm Beaches, Inc.

### MEMBERSHIP DUES

Junior Membership—\$10.00  
(Under age 18)  
Single Membership—\$20.00  
(Over age 18)  
Family Membership—\$30.00  
(Includes 2 adults and children under age  
18 in a single household)

*Membership expires on December 31st  
each year and is due by the end of  
February of the new year.*

To renew your membership, make your  
check or money order to:

Gem & Mineral Society of the Palm  
Beaches, Inc. and mail to:

Membership Coordinator  
Gem & Mineral Society  
P.O. Box 18095  
West Palm Beach, FL 33416-8095

### NAME TAGS

Available from:  
Ace Marking Devices (\$12.00)  
3308 S. Dixie Hwy.  
West Palm Beach, FL 33405  
561/833-4073

### SHOP FEES

Up to 3 hours shop time - \$5  
Over 3 hours shop time - \$7

SEE CALENDAR FOR OPEN SHOPS

### SHOP STEWARDS

Head Shop Steward:  
Susan Cairl 561/293-1298

Laura Simmons 407/234-0444  
Dennis Rietwyk 561/255-0292  
Samantha Lazzaro 561/372-2359

**Shop Phone:**  
561/585-2080

### 2020 OFFICERS

President*	Laura Simmons	407/234-0444
1st Vice President*	Dianna Ray	561/707-6753
2nd Vice President*	Barbara Ringhiser	561/379-4307
Secretary*	Clara Pflueger	201/566-6492
Treasurer*	Jenny Wright	561/634-1427

### 2020 DIRECTORS

Head Shop Steward*	Susan Cairl	561/293-1298
Membership*	David Taylor	561/644-1888
Newsletter Editor*	Laura Phillips	561/523-3594
Member-at-Large*	Lo Rain Dudley	561/827-5793
Show Chairman*	Walter Triche	561/628-1031
Webmaster*	Richard Tracey	561/318-6891

### COMMITTEE CHAIRPEOPLE

Hostess	Samantha Lazzaro	561/372-2359
Jr. Rockhound Program	Mitchell Turk	561/506-4655
Librarian	Shop Steward on Duty	
Programs	Barbara Ringhiser	561/379-4307
Raffle Coordinator	Lo Rain Dudley	561/827-5793
Refreshments	Arlene Lazzaro	516/810-3495
Sunshine Committee	Lo Rain Dudley	561/827-5793
Social Events	Open	
Webmaster	Richard Tracey	561/318-6891

\*Denotes a Voting Member of the Executive Committee.

### WEBSITE

[www.gemandmineralsociety.org](http://www.gemandmineralsociety.org) or [www.gmspb.org](http://www.gmspb.org)

### Club Email Addresses

membership@gmspb.org  
newsletter@gmspb.org  
president@gmspb.org  
show@gmspb.org  
vendorinfo@gmspb.org  
webmaster@gmspb.org

Link to our [smile.amazon.com](https://smile.amazon.com) account:

[http://smile.amazon.com/ch/59-6196330](https://smile.amazon.com/ch/59-6196330)

The Gem & Mineral Society of the Palm Beaches, Inc. is a 501 (c) (3) corporation and a member of the Eastern and Southeastern Federations of Mineral and Lapidary Societies, and is affiliated with the American Federation of Mineralogical Societies. Monthly meetings are held on the third Thursday of the month except for December, which is held on the second Thursday. Meetings start at 7:30 PM at the former Garden Club building (across from the Science Center), 4800 Dreher Trail North, West Palm Beach, FL 33405.

*The opinions, beliefs and viewpoints expressed by the various authors in this newsletter do not necessarily reflect the opinions, beliefs and viewpoints of the Gem and Mineral Society of the Palm Beaches ("GMSPB"). GMSPB does not verify any claims made for accuracy, and is not responsible for the views expressed. Nothing contained herein constitutes any sort of professional advice, including but not limited to legal, medical, or financial advice. Any action you take based on information published in The Rockhound is strictly at your own risk.*

Send comments or submissions to [laurajeanphillips@gmail.com](mailto:laurajeanphillips@gmail.com)