

UPCOMING SHOWS

And Events - 2018

June 23-24 New York Summer Show, Watson Hotel, NY

July 28-29 LIMAGS – Mattituck-Cutchogue High School, Mattituck

Sept 3-9 Wildacres – Fall session

EFMLS Convention & Show

The 2019 (68th) EFMLS Convention will be held in Monroe, New York, hosted by the Orange County Mineral Society. The dates for the convention and show will be Friday, May 31st to Sunday, June 2nd . .

For other Gem and Mineral shows: <http://www.amfed.org/EFMLS/calendar.htm>

www.suffolkgem.com

P. O. Box 302
Bohemia, L.I., NY
11716



To promote cultural, educational, and scientific interest in mineralogy, and develop member's skills in lapidary arts and jewelry crafts

June 2018

THE CONGLOMERATE

The Monthly Bulletin of the Suffolk Gem & Mineral Club, Inc.

Monthly Club meetings held at the Bay Shore-Brightwaters Library, Montauk Highway, Brightwaters starting at 7:00pm.

Refreshments served at 7:00 pm.

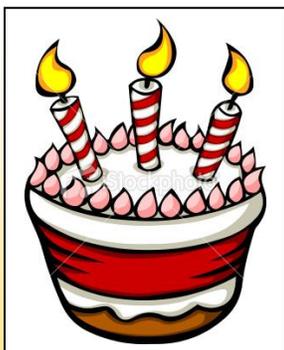
OFFICERS

The Conglomerate Editor - Cheryl Neary
Club Webmaster - Kerry Dicker

| | | | | |
|------------------|-----------------|-------------------|--------------------------|---------------|
| President – | Cheryl Neary | 516.449.5341 cell | Director - Elaine Casani | 631-567-3342 |
| Vice President – | Kerry Dicker | 631-277-0994 | Director – Lucy Jackson | 631- 289-2328 |
| Treasurer - | Roberta Besso | 631-666-8023 | Director - John King | 631-775-7035 |
| Asst. treasure | Joe LaBarca | 631-242-5290 | Director –Debbie Winston | 516-238-8370 |
| Secretary – | Rebecca LaBarca | 516-768-4438 | Director –Pat Seostrom | 631.654.0746 |
| Liaison – | Cheryl Neary | 516.449.5341 cell | Director – Michael Jung | 631.698.3018 |

Cell phones are to be turned off during all Club meetings.

More importantly, there should be no disturbances during any guest presentations.



Happy Birthday Wishes!
 May Your Year Be Filled
 with Hugs & Kisses!

June / July/ August

Sam Dholakia

Trudy Kusche

Nick Mercurio

Mario Serrano

Denise Buss

Elaine Casani

Jean Coleman

Mary Correale

Diane Godlewski

Lucy Jackson

Fred Kruger

Joan Neary

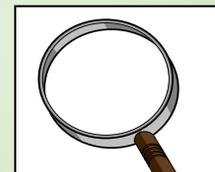
Barbara Kruger

Elaine Colon

UPCOMING MEETINGS & EVENTS: 2017 - 2018

June 18th - Bragging Rites (Lucy Jackson and I will be crusing Alaska! - that's what I am bragging about!!)

July 14th - Annual Picnic



Message from the Prez:

Hi all –

I have been busy as a beaver the last few days, especially since I am trying to get ready for my Alaskan trip with fellow member, Lucy Jackson!

If you are interested in the bus trip to Springfield you will need to pay in full by the meeting date of 6/18/18.

The picnic will be held on July 14, 2018. Please sign up at the meeting and notify Roberta of what you intend to share with your club members.

This month is bragging rights! Elaine and Michael will be moderating the meeting- I hope we have many participants in the four categories for “bragging rights”:
 Best Self- Collected (rock, mineral or gem)
 Best Purchased Item – Rock , mineral or gem
 Best Purchased Item- Lapidary (jewelry-other)
 Best Self- made - Lapidary (jerwelry-other)

Let the Adventures Begin!

LIMAGS Field Trips:
Springfield, MA – August 11th 2018
\$40.00 per person
Full payment due 6/18/18
More information to follow for the above

Wildacres Fall Session

Plan Ahead!

Alfredo Petrov will be the guest presenter for the Fall Session of Wildacres-

Please see last page for the classes offered for the September 3-9, 2018 session

I truly love Wildacres – and I wish you all could take the week off to spend some enjoyable quality time with fellow rockhounds!

Anyone interested in helping Kenny Klecak fund his trip to the mysterious Machu Picchu, he is selling part of his collection –

Call Kenny at 631-649-5272 to make arrangements

Machu Picchu, located in Peru, built by the Incas possibly as a royal estate in the 15th century and later abandoned sits at a elevation of 7,970 feet above seal level. In 1983 Machu Picchu was declared a UNESCO World Heritage Site and voted one of the New Seven Wonders of the World in a worldwide internet poll!

Pebble Pups!
Join us on 7/22/18
Orient Point
For a picnic and collecting!

Call Cheryl for more details if interested!



Outside The Box

Synopsis of Last Few Month's Meeting:

Dr. Brett Bennington, Chairperson of Hofstr'was our guest speaker. The lecture was on dinosaurs in our neighboring states! Over a century and a half, southern NJ was the site of the first nearly complete dinosaur skeleton – 8', 14' long duck billed hadrosaurus- found in a quarry in Haddonfield in 1858!

There were other interesting stories as well!

What is a Member in Good Standing?

One that:

- **Attends (4) Meetings**
- **Contributes Time to Club Show or the Celinka Show-at the Club Table**

(If you are unable to attend the show, there is other show activities you can volunteer for- please see Elaine or Cheryl!)

Participates in Club Fundraisers

Remember-this is your club!

This club needs you to participate, in order for the club to grow-

If you have any suggestions for a program, please speak to one of the Board members listed above. If you have an idea for a field trip, please speak to a Board member as well!

Ask what else you can do!

If you know of any child interested in joining a Pebbles Pup Club

Please have them contact either:

Paula Rodgriuez at

Robin Wiley at rwiley@optonline.net

Cheryl Neary at ciervo.neary@gmail.com

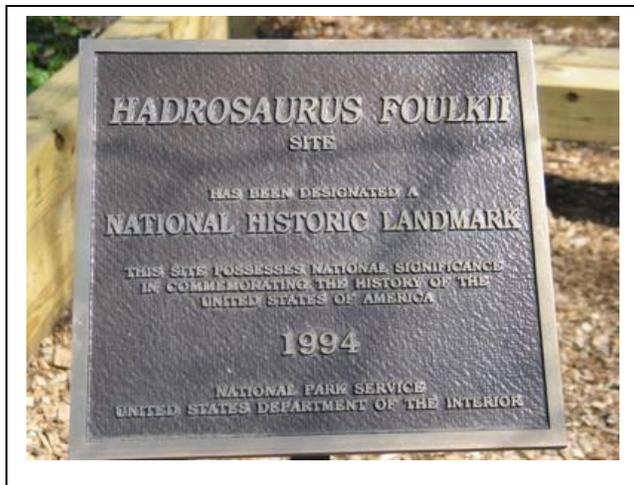
DinoTrivia

What is the State of New Jersey's Dinosaur?

As Dr. Bennington informed us at our last meeting, at one time the area we know as New Jersey, was once under the sea; and an ancient seacoast, with forests and swamps. During the Cretaceous period, southern New Jersey was approximately 100 feet under sea water, with the coastline near what is now Philadelphia. Ancient Cretaceous marine deposits were home to the bones of what is today known as *Hadrosaurus foulkii*, a duckbilled dinosaur. This dinosaur was approximately thirty (30) feet long, and ten (10) feet in height, weighing up to eight (8) tons. From the teeth gathered, it was noted that *Hadrosaurus* was a vegetarian. The name *Hadrosaurus* means “bulky lizard”.

In 1858, the skeleton was “unearthed” and scientifically documented. The discovery of the bones was made by William Parker Foulke, who was on vacation in the area. However, the bones were first discovered by John Estlin Hopkins as he was digging a pit in New Jersey in 1838. William Parker Foulke called paleontologist Joseph Leidy and between the two of them they began to study the bones. It was found in unconsolidated sedimentary rock of clay and lime known as marl. This was the first most complete dinosaur unearthed at its time, making the discovery an important one. In 1868, it was also the first mounted dinosaur displayed in the world.

The *Hadrosaurus foulkii* became the official State dinosaur of New Jersey in 1991. This all happened due to the persistence of Joyce Berry and her fourth grade classes at Strawbridge Elementary School in Haddon Township.



A 13-year old Boy Scout, Christopher Brees earned his Eagle Scout badge for clearing, preparing and promoting the site for visitation and commemoration in 1984.



Hadrosaurus foulkii sculpture, Haddonfield, N.J.,

Photo: Hoag Levins

The above picture is from www.hadrosaurus.com
Photography by Hoag Levins

Dino-Trivia:

- The word “dinosaur” was coined by English botanist Sir Richard Owen in 1842. The term “Dinosauria” is from two separate Greek words: ‘deinos’, which means ‘terrible’, and ‘sauros’, which means ‘lizard’. Therefore ‘dinosaur’ means ‘**terrible lizard**’
- The smallest adult dinosaur was approximately the size of today’s chickens
- The tallest dinosaur belonged to the Brachiosaurid group of sauropods, with very long necks. The average dinosaur in this group was approximately 43 feet. However, Sauroposeidon was probably close to 60 feet tall. Imagine the dinosaur as being close to the size of eleven-point star foundation of the Statue of Liberty which is 65 feet tall. (The total height of the Statue of Liberty is 305 feet; with the statue 151 feet and the stone pedestal 89 feet)
- The heaviest dinosaur was the Brachiosaurus at over 85 tons - or 170,000 pounds. My car an Elantra 2013 is approximately 2,700 pounds - so you would have to imagine the weight of 63 of my cars equalling the Brachiosaurus’ weight!
- The largest dinosaur is the titanosaur Argentinosaurus huinculensis, who reach a length of approximately 130 feet, found in Argentina
- Characteristics of a dinosaur:
 - Reptilian
 - Straight legs projecting downwards from body.
 - Lived on land.
 - (Most) could not fly.
 - Lived from the early Triassic period to the end of the Cretaceous period.
- There are two main types of Dinosaurs- which are classified as reptile, based on the structure of the hip
 - Lizard-like hip - Saurischia
 - Bird-like hips - Ornithischia
 - The prominent visible difference between the two types of hip is the orientation of the pubis

The two types of dinosaur were identified by British paleontologist Harry Seeley
- Dinosaur remains have been found on every continent
- During the Triassic period the climate was dry and warm. There was only one supercontinent known as Pangaea, which means “all Earth”

- During the Jurassic period Pangaea began to split into two main landmasses known as Laurasia and Gondwana. During this time the climate began to cool and there was more rain
- Approximately 66 million years ago, the Earth was devastated by a sudden, dramatic occurrence that cause 75% of all plant and animals species to become extinct – this period is a known as the Cretaceous-Paleogene (K-Pg) extinction event
- There are many theories for the K-Pg extinction including: massive volcanic eruptions; changes in global temperature; asteroids reaching the earth; and the meteorite theory
- Geologists have identified a narrow band of sedimentary rock that runs between rocks formed in the Cretaceous and Paleogene periods known as the K-Pg boundary. The rock contains high concentrations of a rare metal – iridium. This rare metal is found in the center of the Earth, asteroids and comets
- Theory has that the meteorite impact would have caused an explosion 2 million times greater than a nuclear bomb. This would have caused a huge gas cloud – which in turn would cause years of darkness – dropping temperatures dramatically (Think how the latest volcanic eruptions in Guatemala have caused gas clouds and destruction!)
- Most scientists today consider birds to be related a tyoe of dinosaur known as theropods
- Dinosaurs existed for 170 million years while modern humans have existed for only 200,000 years
- Most dinosaurs hatched from eggs, They could not fly or live in water
- Currently there are over 330 dinosaur species, with the number growing with new finds
- The oldest dinosaur is Eoraptor, an omnivore (meat-eater) that lived 228 million years ago
- The state of Utah has one of the largest collection of Jurassic bones ever found. Colorado, Wyoming and Montana also prolific producers of fossils

What special tool was used to uncover the oldest dinosaur eggshell ever found in New Mexico?

The special tool used to uncover a one-square-inch (6.5-square-centimeter), 150-million-year-old dinosaur eggshell was a toy backhoe. This “sophisticated paleontological device” was wielded by three-year-old David Shiffler of New Mexico. His family had stopped along the Rio Puerco after a camping trip. Seizing the opportunity, David began to dig in a sandy spot with his toy backhoe, uncovering a small object he declared was a dinosaur eggshell. David’s father later took the object to paleontologists, who confirmed that it was indeed a dinosaur eggshell from the Late Jurassic. This makes the dinosaur eggshell the oldest one found in New Mexico, and one of the oldest found anywhere. It also means that David is probably the youngest person ever to make a major paleontological discovery.

The paragraph on the left-side is from the Elibrary.net – The handy dinosaur answer book



Pebble Pups Corner:

Word Search- Horizontal/diagonal/
vertical/backwards



S C C A S V Z M F O S E L D S
T U R A I I C J C U Y E T R U
R K R E Q S U C R J S X M O R
I Z R U T R A U F O M A P M U
A H G O A A A R T R E C S I A
S B E S L S C H U A B N E C S
S J S T O O O E G A E N N E O
I I I R W S G N O L L B O I E
C J D Z A T A Z N U L N D O T
W A M U J P L G F A S Z O M A
H O R N W Q Z I P M R R O I L
V U M V Z C H W P F N Y R M P
S T E G O S A U R U S T T U O
S U R U A S O I H C A R B S Y
R A N A W D N O G N V P S W U

BRACHIOSAURUS
GONDWANA
LAURASIA
PLATEOSAURUS
TROODON

CRETACEOUS
HADROSAURUS
LESOTHOSAURUS
STEGOSAURUS
TYRANNOSAURUS

DROMICEIOMIMUS
JURASSIC
PANGAEA
TRIASSIC

Wildacres Spring Classes – September 3-9, 2018 – Speaker-in-Residence: Alfredo Petrov

| Class & Instructor | Description |
|--|---|
| Chasing & Repousse Morning Sherrod | This is a four day class in which students will learn the ancient art of moving metal into a three dimensional shape. This is accomplished using a set of tools called chasing liners and repousse punches. Planishing tools for smoothing and texture punches for pattern background finish off the process. All this is performed on a bowl of warm German red pitch. Lab fees include the use of all tools and materials. We will learn on copper. As you become more confident in your skills you may purchase silver sheet from the instructor or bring your own. 22 gage, 24 gage if fine for sheet metal. No experience needed. |
| Electro-Etching I Micha Kirby | Class will learn a design driven approach to Electro-Etching, gain knowledge using multiple masking techniques, oil based marker, and vinyl resists on copper or bronze. Using a non-caustic and non-gas producing electrolyte solutions with a low voltage power supply source to initiate etching. Class will produce two pendants and a pair of earrings . Finish with tumbling. 2-day class offered 1st semester. No experience needed. |
| Electro-Etching II Micha Kirby | Class will learn a design driven approach to Electro-Etching, gain knowledge using multiple masking techniques, P-n-P, and photosensitive paper as resists on copper, bronze and adding a second non-caustic solution for silver. Class will produce a pendant, cuff form and finish with tumbling. 2-day class offered 2nd semester. |
| Geology I Rob Robinson | A basic introduction to rocks and minerals and the study of the earth. The class will include a discussion and class activity about how geologists interpret rocks to tell geologic history related to their formation, deformation and sequence and timing of events. Weather permitting there will be a field trip to local rock exposures to illustrate local rock types, the deformation types, and how a geologist maps and interprets structures (limited walking is required.) Please bring a loupe or other magnification, hiking boots or sturdy shoes and outdoor clothes for the half-day field trips. Geologic hammer and safety glasses are also desirable. (Do not bring a nail hammer – they are unsafe to hit rocks.) 2-day class offered first semester. No experience needed. |
| Geology II Rob Robinson | An overview of plate tectonics, geologic history and the geology of the Blue Ridge region and its minerals. We will discuss the geologic environments hosting mineral and gem collecting sites. Come prepared to identify some of your collecting localities to be part of this exercise. Weather permitting there will be a field trip to the Blue Ridge Museum showing local rocks and geologic history and another to see local geology. (A one-mile walk over gentle trails is required for the geology trip.) Some knowledge of basic geology preferred. Please refer to Geology I for suggested tools,. Clothing and magnification. 2-day class offered second semester. |
| Loop-N-Loop – Basic Chuck Bruce | Students will learn the ancient technique of fusing fine silver jump rings and linking them together into a chain. We will explore 2 different patterns - Roman Fold-over and Single Fold-over (Foxtail) and students should be able finish a bracelet and pair of earrings in each. (These ancient beautiful designs are quite different from chain maille). No prior experience is needed. 2-day class offered 1st semester |
| Loop-N-Loop – Advanced Chuck Bruce | Students will learn the ancient technique of fusing fine silver jump rings and linking them together into a chain. We will explore 2 different patterns - Double Fold-over (Foxtail) and Sailor’s Knot; students should be able to finish a bracelet and pair of earrings in each. (These ancient beautiful designs are quite different from chain maille). No prior experience is needed, but Semester 1 helpful. 2-day class offered 2nd semester. |
| Silversmithing – Basic Richard Meszler | Have fun learning the basics of working silver sheet and wire to fabricate jewelry. The projects will introduce you to annealing/bending/shaping/texturing metal, soldering, piercing and polishing. Students will receive a kit containing the necessary metals and supplies to complete these projects as well as a detailed written step by step description of each project. 2-day class offered 1st semester. No prior experience necessary. |
| Silversmithing – Intermediate Richard Meszler | Continue your education working with metals by doing a more complex project. You will learn to make a bezel setting & bail into which you will set a cabochon to make a pendant. Students will receive a kit containing the necessary metals and supplies to complete this project as well as a detailed written step by step description of each project. Prerequisite: Basic silversmithing experience including soldering. |
| Wire Wrapping – Jacqueline Campbell Session I Session II | Using pliers, gold-filled or sterling silver wire, assorted beads or gemstones, and a few basic wirecraft techniques, learn how to create your own fashion rings, bracelets, pendants and earrings to add that perfect accent to your jewelry wardrobe or to give as gifts. All tools and materials will be provided. Session I: Designed for beginners, participants will make an adjustable ring, two bracelets, a pendant and two pairs of earrings. 2-day class offered first semester. Session II: Designed for those with some experience (or a brave beginner) participants will make a fitted ring, two pairs of earrings, a cabochon pendant and a bracelet. 2-day class offered second semester. |