

UPCOMING SHOWS

2015

September 19-20

Mid-Hudson Valley Gem & Mineral Society

46th Annual Gem, Mineral, Fossil Show & Sale

September 26-27

Island Rock Hounds – Building America- Railroads @

October 3-4

Old Bethpage Village Restoration – Long Island Fair

Oct. 17 -18

Bristol 43rd Annual Gem & Mineral Show

Beals Community Center, Bristol, Ct.

November 7-8

Stamford Mineralogical Society's 27th Annual

Gem , Mineral, Jewelry & Fossil Show

Eastern Greenwich Civic Center

November 14-15

New York Mineral Club

Holiday Inn-440 W57th NYC

December 5-6

Suffolk Gem & Mineral Club Annual Show

Our Lady of Mt. Carmel

North Ocean Ave., Patchogue

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

September 2015

THE CONGLOMERATE

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

Monthly Club meetings held at the Bay Shore-Brightwaters Library, Montauk Highway, Brightwaters starting at 8:00pm.

Refreshments served at 7:30 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
Secretary –	Kerry Ann Hilliard	631-277-0994	Director –Rebecca LaBarca	516-768-4438
Liaison –	Cheryl Neary	516.449.5341 cell	Historian –Kerry Ann Hilliard	631-277-0994

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!

**Caryn Ann Bosak
Barbara Bruce
Tom Dicker
Paul Engelhardt
Joanna Engelhardt
Kathy Guerreri
Joseph Kuri
Marlene Rust
Debbie Winston**

Congratulations to SGMC Scholarship Recipients 2015:

**Rebecca LaBarca
&
Ryan Winston**

Please note if you or a family member is interested for the 2016 Scholarship, please speak to a Board Member to find out the requirements.

UPCOMING MEETINGS & EVENTS:

2015

September 21 - Show & Tell
October 19- Rock Cycle- Igneous Rocks
Mica Project
November 16-Hands-On:
Chainmaille Bracelet
December 5-6: Annual Rock & Gem
December 21-Rock Cycle-
Sedimentary - Hands-On
January 2016- Date & place to be determined
Tentatively scheduled for Sunday, Jan.3rd
Holiday Party



This month we are hosting:
Show & Tell-

The idea is that we show and tell about what we did in our summer hiatus.

Did you take a trip?

Did you go to Springfield?

Did you find something intriguing at home?

Please bring any specimens, lapidary or stories that you can share with us!

Welcome Back!

Special thanks to Roberta & Marty Besso for organizing the annual picnic and purcsing the food provided by the club.

Thanks to all that helped and participated- it was a good time for all!

Let the Adventures Begin!

The Board has set an agenda of lectures and hands-on projects around the theme of the rock cycle.

Do you know who developed the rock cycle? James Hutton, known as the father of modern geology, was also a noted physician, naturalist, chemical manufacturer and agriculturalist. In fact, it was from his work and experimenting with both plant and animal husbandry that he developed a love for geology.

He made great observations concerning the world around him and developed the reasoning and valid geological arguments to support his theories. James Hutton presented to the world in 1785, this ideas on uniformitarianism, now a fundamental principle in geology, that geological processes examined in the present time explain the formation of older rocks.

Hutton published, *Theory of the Earth: With Proofs and Illustrations* – a study which reveals the remarkable extent of Hutton's geological knowledge – his investigations and observations. He examined many different rock types and their structural relationship to one another, along with the mineralogical and chemical composition of each rock. He studied the physical processes operating on the earth's surface and found support for his conclusions in European and American literature.

The most important advance in geological science was Hutton's theory of a cycle which involved the gradual degradation of the land surface by erosion; the transport of eroded matter to the sea and deposited as sediments; and the consolidation of sediments on the sea floor, followed by their elevation to form new land surfaces, in turn subject to erosion.



Outside The Box

Last Meeting- June:

Bragging Rites – an Entertaining Evening
Thanks to all participants who brought their items to earn bragging rites and shared their reason for why they deserved to be bragging!

Everyone did a great job, however, there can only be one bragger in each group!

Congratulations to the following:

Best Purchased Lapidary:

Elaine Casani - Amber Necklace

Best Self Collected:

John Peser- Petrified wood
PJ Gerald - Quartz crystal from NJ

Best Made Lapidary Piece:

Marty Besso (presented by Roberta) - Petrified wood cabbed & polished \$ set in silver (design by Marty)

Best Purchased Rock, Mineral or Fossil:

Ryan Winston. Azurite/malachite

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!

A basic concept in geology is the rock cycle. The cycle describes dynamic changes through geologic time of the three (3) main rock types: igneous, sedimentary and metamorphic. Each of the rock types are altered or destroyed by forces of nature which include:

Plate tectonics
Spreading Ridges
Subduction Zones
Volcanoes
Earthquakes
Weathering
Erosion

The rock cycle starts with Magma –

Crystallization (freezing of rocks)- IGNEOUS –

Erosion-sedimentation-SEDIMENTARY-

Rocks-tectonic forces and metamorphism-METAMORPHIC

Melting- magma and on and on.

James Hutton's famous quotes sum it all up:

“We have the satisfaction to find, that in nature there is wisdom, system and consistency. For having, in the natural history of this earth, seen a succession of worlds, we may from this conclude that, there is a system in nature; in like manner as, from seeing revolutions of the planets, it is concluded, that there is a system by which they are intended to continue those revolutions. But if the succession of worlds is established in the system of nature, it is vain to look for anything higher in the origin of the earth. The result, therefore, of our present enquiry is that we find

No vestige of a beginning, - no prospect of an end”

“Theory of the Earth”, 1788

“(It) is the little causes, long continued, which are considered as bringing about the greatest changes of the earth”

“Theory of the Earth, with Proofs and Illustrations”- Volume 2, 1795

This song is from the website: cmase.uark.edu/teacher/workshops/GEMS.../Rock_Cycle_Song.

Rock Cycle Song (Sing to the tune of "Row, Row, Row Your Boat")

SEDIMENTARY rock
Has been formed in layers
Often found near water sources
With fossils from decayers.

Then there's IGNEOUS rock
Here since Earth was born
Molten Lava, cooled and hardened
That's how it is formed.

These two types of rocks
Can also be transformed
With pressure, heat and chemicals
METAMORPHIC they'll become.

I also found on the website Songs for Teaching (www.songsforteaching.com) a song available on J.P. Taylor's [Singing Songs of Science](#)

**Now Plate Tectonics is the theory
That crust is movin' under me
Continents they drift apart
'Cause molten rock is in Earth's heart
Scientists say there are three ways
That plates can move around these days
Convergent, Divergent, and Transform-Fault
Is what this rumbling's all about**

Chorus:

**Let it rock! the rock cycle
Let it rock! the rock cycle
The rock cycle, the rock cycle, let it rock!**

**Two hundred million years ago
Pangaea was the land below
Continents they drift apart
Heat and pressure is the start
Check the seismograph it shakes!
Plates are moving - EARTHQUAKES!
Rumble underground below
Better run, she's gonna BLOW!**

Chorus

**Now magma pushes through the crust
And when it cools it's Igneous
The next in line is elementary
Weathering makes it Sedimentary
Then heat and pressure make rocks change
The stuff inside can rearrange
The final rock, you can't ignore it,
Yeah, you know, it's Metamorphic!**

Chorus