

UPCOMING SHOWS

2017

May 20-21st Celinka Show- Our Lady of Mt. Carmel, Patchogue

May 22-28th Wildacres Spring Session

July 29-30th LIMAGS Annual Gem, Mineral, Fossil & Jewelry

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

www.suffolkgem.com

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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

March 2017

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
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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
			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!

March Birthdays:

Roberta Besso

Leona Keeley

Rebecca La Barca

Charley Runko

Ryan Winston

UPCOMING MEETINGS & EVENTS:

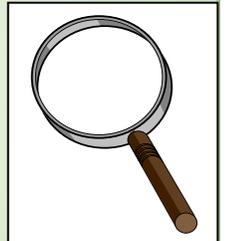
2017

March 20th - Lecture: Judy Ann Olsen

*April 17th - Hands- On
Paint on Rocks with Debbie Winston*

May 15th -Lecture

June 19th - Annual Bragging Rites



Message from the Prez:

This month I am looking forward to our program-guest lecturer, Judy Ann Olsen.

Many of you may remember Judy and her numerous articles found of Gemstoneguru.

This month, Judy will be informing us on the topic:

Mines to Market- How Gemstones are Bought & Sold

I also would like to thank the following people for donating time at our club table at the show hosted by Island Rock Hounds in Old Bethpage:

Saturday: Joan Neary / Charley Runko
Sunday: Fran & Mike Katsar / Kerry Dicker

See you all Monday- March 20th – the Vernal Equinox!

Cheryl Neary
Ciervo.neary@gmail.com

Wildacres Spring Session

Plan Ahead! Bob Jones will be the guest presenter for the Spring Session of Wildacres-

Bob Jones is an incredible young 90+ gentlemen that has so many entertaining stories – you just don't want to leave!

I will be going to the Spring session, so if interested let me know- the session should fill quickly-

**Plan Ahead-
Annual Picnic weekend of:
July 15th Raindate July 16th**

Let the Adventures Begin!

Field Trips for 2017:

Spring: IRH Bus trip- Rosendale Cement Mine & D&H Canal

May- St Lawrence County – (travel on own)

June 23-25 – LIMAGS - Gilsum, New Hampshire /TOVECO

LIMAGS Bus Trip -August 12, 2017- Springfield, Ma OR

August 18– 21 - Kentucky

Any suggestions????

The 52nd annual Gilsum Rock Swap & Mineral Show will be held June 25-26, 2016 RAIN OR SHINE! More than 65 dealers and swappers with gems, jewelry and minerals available for sale or trade in scenic southwestern NH. Pan for minerals, enjoy a hearty pancake breakfast , sit down for a Chicken Barbeque lunch or join us for dinner Saturday evening for the old fashioned New England ham and bean dinner with home made pies!

Saturday

8 AM Exhibits open

8 AM - Noon: Pancake Breakfast

10 AM - 4 PM: Library books sale at the Library

1 PM SPECIAL PRESENTATION in the auditorium: During "Let's find some fossils," paleontologist Dr. Alan Russell will tell visitors where where to find fossils, how to expose them, and how to identify them. He'll also demonstrate how to break open the rock to expose a fossil, and will ask kids to come up and give it a try.

2 PM: SPECIAL PRESENTATION: Steve Garza demonstrates the correct way to break a rock - and let visitors give it their best shot. Steve will provide the hammer and protective gear at dealer space #40. Kids welcome!

4:45 PM: Annual Ham & Bean Dinner with homemade beans and pies! Three seatings beginning at 4:45, 5:45 and 6:45 PM. Tickets on sale at the Rock Swap Central information booth all day and at the church at meal time.

6 PM: Dealer exhibits close

Sunday

8 AM: Exhibits open

8 AM - Noon: Pancake Breakfast

Noon - 2 PM: Chicken Barbecue

10 AM - 2 PM: Library book sale 10:00 - 2:00 at the Library

4:00 PM: Show closes - See you next year!



Outside The Box

Synopsis of Last Month's Meeting:

Officers were sworn in by Denise Buss.

Members participated in a hands-on project: ladder bracelet taught by Kerry Dicker-

Thanks again to Kerry for providing us with another wonderful hands-on

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!

Bob Jones Returns!

by Steve Weinberger, Wildacres Committee Chair

Mark your calendar now!

May 22 – 28, 2017

Bob Jones will return “to the mountain” as our Speaker-in-Residence for the spring session!

Registration opened on January 1.

Tuition for 2017 will be \$400 per person and will include your room and board, and gratuity for the resident Wildacres staff.

Your only additional “out of pocket” expenses will be for the materials used in the class or classes you take and monies you spend at the annual auction, in the canteen or at the tail gate. So....

Mark your calendar now!

**Can't make May – How about the Fall Session?
September 4th – 10th**



Photos courtesy of web

If you know any child interested in joining our club, we are starting a pebbles pup division.

The first meeting will be in the Spring.

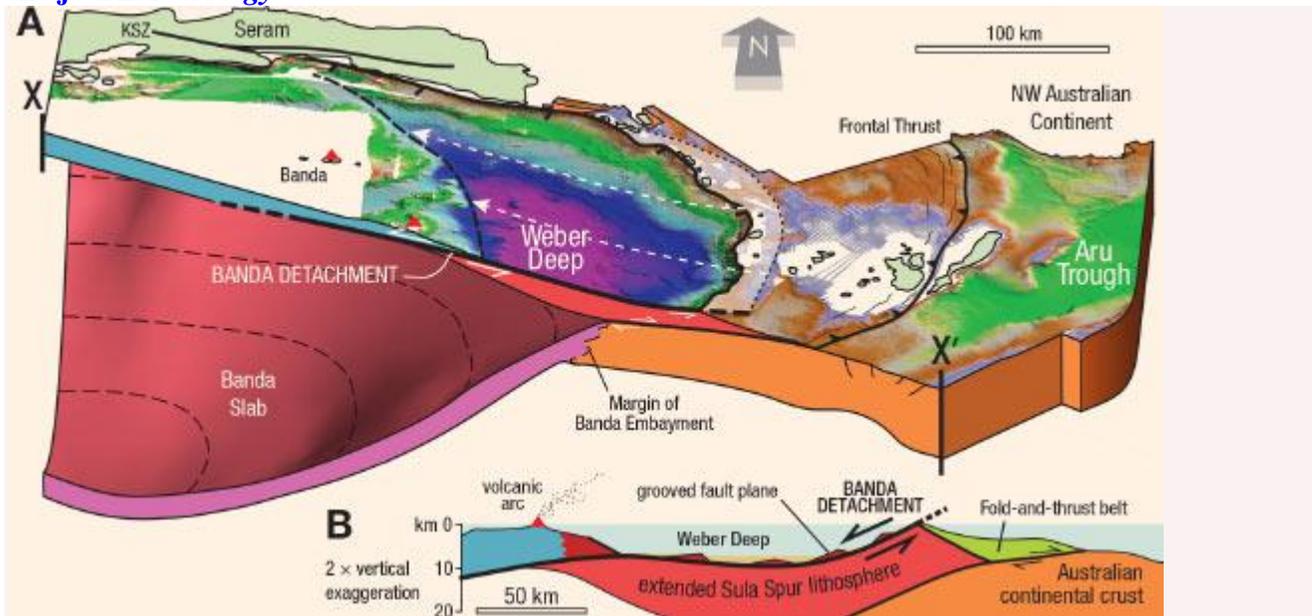
Please have them contact either

Robin Wiley at rcwiley@optonline.net Or Cheryl Neary at ciervo.neary@gmail.com

Geologists Find Largest Exposed Fault on Earth

Nov 29, 2016 by News Staff / Source

An international team of geologists from the Australian National University and Royal Holloway University of London has for the first time documented the Banda Detachment fault in eastern Indonesia and worked out how it formed. The research is published in the journal *Geology*.



The Banda Detachment fault beneath the Weber Deep basin. A – cross section through eastern Banda arc, cut parallel to grooves on fault surfaces and proposed direction of rollback; geometry of proto-Banda Sea slab is inferred from earthquake hypocenter locations catalogued by International Seismological Centre Online Bulletin; KSZ – Kawa shear zone. B – enlargement of Banda detachment showing schematically the configuration of over-riding continental allochthons (dark red); red triangles represent volcanoes. Image credit: Jonathan M. Pownall *et al*, doi: 10.1130/G38051.1.

“The find will help researchers assess dangers of future tsunamis in the area, which is part of the Ring of Fire – an area around the Pacific Ocean basin known for earthquakes and volcanic eruptions,” said lead author Dr. Jonathan Pownall, from the Australian National University.

“The abyss has been known for 90 years but until now no one has been able to explain how it got so deep.”

“Our research found that a 4.3-mile (7 km) deep abyss beneath the Banda Sea off eastern Indonesia was formed by extension along what might be Earth’s largest-identified exposed fault plane.”

By analyzing high-resolution maps of the Banda Sea floor, Dr. Pownall and co-authors found the rocks flooring the seas are cut by hundreds of straight parallel scars.

These wounds show that a piece of crust bigger than Belgium or Tasmania must have been ripped apart by 74.5 miles (120 km) of extension along a low-angle crack, or detachment fault, to form the present-day ocean-floor depression.

“This fault, the Banda Detachment, represents a rip in the ocean floor exposed over 14.8 million acres (60,000 sq. km),” Dr. Pownall said.

“The discovery will help explain how one of the Earth’s deepest sea areas became so deep.”

“This was the first time the fault has been seen and documented by researchers,” said co-author Prof. Gordon Lister, also from the Australian National University.

“We had made a good argument for the existence of this fault we named the Banda Detachment based on the bathymetry data and on knowledge of the regional geology.”

“I was stunned to see the hypothesized fault plane, this time not on a computer screen, but poking above the waves,” Dr. Pownall said.

“Rocks immediately below the fault include those brought up from the mantle. This demonstrates the extreme amount of extension that must have taken place as the oceanic crust was thinned, in some places to zero.”

According to the team, the discovery of the Banda Detachment fault would help assess dangers of future tsunamis and earthquakes.

“In a region of extreme tsunami risk, knowledge of major faults such as the Banda Detachment, which could make big earthquakes when they slip, is fundamental to being able to properly assess tectonic hazards,” Dr. Pownall said.

Jonathan M. Pownall *et al.* 2016. Rolling open Earth’s deepest forearc basin. *Geology* 44 (11): 947-950; doi: 10.1130/G38051.1

Geologists Uncover Three New Uranyl Minerals

Feb 8, 2017 by News Staff / Source

A team of geologists has discovered three new minerals — leosite, leószilárdite and redcanyonite — growing on the walls of old uranium mines in southern Utah.

Leesite, leószilárdite and redcanyonite are like uranium rust and while the glowing green stereotype of uranium is close it's not quite right.

These three yellow minerals represent a small and unique slice of the Earth's crust where human activity spurred the formation of previously unknown minerals.



All three specimens were uncovered by Travis Olds, a graduate student at Notre Dame University, Owen Mills, director of Michigan Tech's Applied Chemical & Morphological Analysis Laboratory, and Shawn Carlson, an independent geologist.

“The only way to better understand the chemistry of uranium is to go out and find new minerals — and describe their topology, their structures,” Olds said.

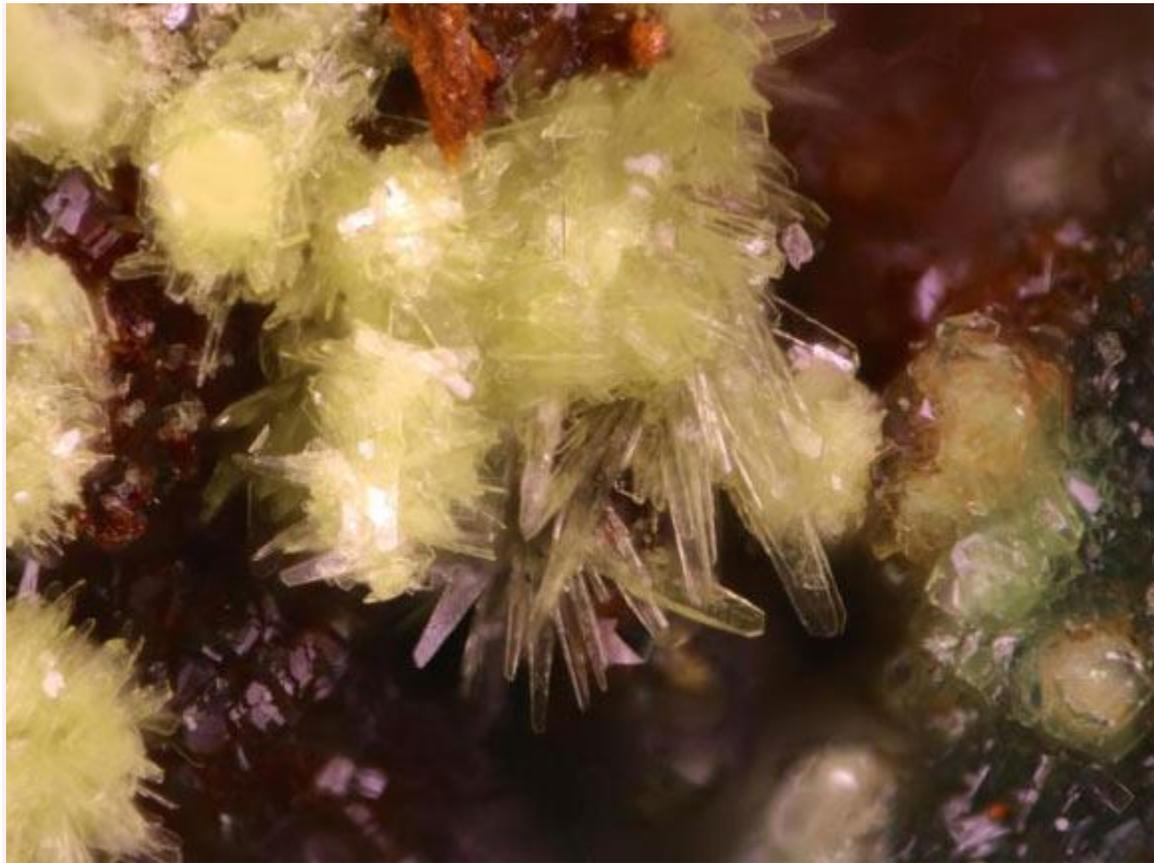
“They teach us a lot about how uranium can then be moved in the environment.”

Though small and barely visible to the naked eye, leesite occurs in bright yellow aggregates of stacked blades or radiating needles up to one millimeter in length.

This mineral also forms powdery masses nestled against a backdrop of companion minerals, most notably gypsum.

Leosite's atom arrangement stacks in alternates of uranium and oxide layers, and potassium is what sets it aside as a new mineral.

Given its chemistry and structure, it's a member of the schoepite mineral family; miners called the general mess of these minerals growing on the tunnel floors 'gummites.'

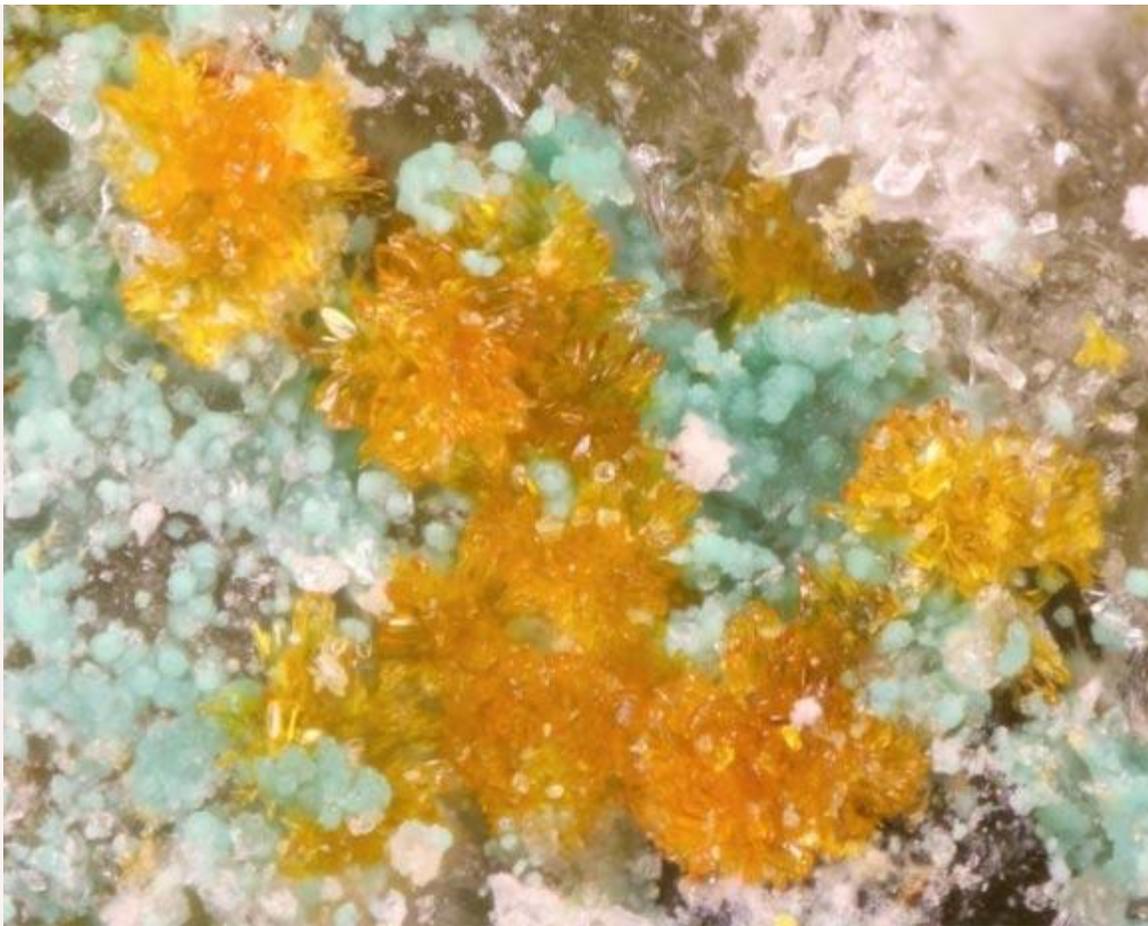


The crystals of leoszilárdite are only a couple millimeters long at most. Image credit: Travis Olds.

Leószilárdite is pale yellow. A carbonate formed through [uranium ore](#) interacting with air, it's also water soluble. Its most distinctive feature are bladed crystals.

“If you look at leószilárdite in a picture, you can kind of pick out that they have an unusual shape,” Olds said.

“But put them under the scanning electron microscope and it's obvious.”



Redcanyonite. Image credit: Travis Olds.

Redcanyonite is named for the area where these rare minerals are found.

This mineral varies in hue from orange to red-orange and the color comes from what chemically makes the mineral new — manganese and ammonium in its structure — and being a sulfate, it is not soluble in water, unlike leószilárdite.

Redcanyonite is one of the rarest [uranyl minerals](#) known because it can only grow within narrow constraints: access to manganese ions is the main driver, but it also can only form in organic-rich layers, the most likely source of ammonium.

The new minerals are described in the December 2016 issue of the [Mineralogical Magazine](#).

U. Hålenius *et al.* 2016. New minerals and nomenclature modifications approved in 2016. *Mineralogical Magazine* 80 (7): 1315-1321; doi: 10.1180/minmag.2016.080.086