



The Line Shaft

The Official Newsletter of the

NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB

March 2016



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Our Web Address: njaemc.org

Founded on October 15th, 1979 by: Arthur Goble, Fred W. Westbrook, John Snook, Roy Bischoff & Lewis Quince

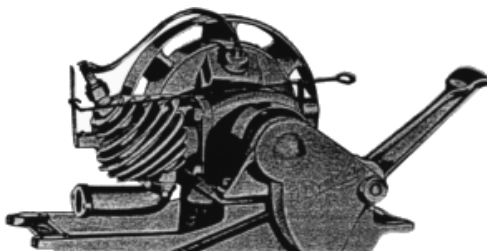


The February 11th meeting was held at the administration building with 26 people attending. AnneMarie gave the treasury report and asked for approval on several club bills...all were approved. Jeff read the minutes from the last meeting and we had a short discussion on the LOCKTITE presentation, which all members agreed was excellent.

We continue a discussion, from last meeting, on the refurbishment of several washing machines and Maytag engines. John Stickle has been struggling with one of the engines...a piston seizure problem. He has had it apart so many times that he can reassemble it in the dark and is thinking about putting zippers on it instead of bolts and nuts. Thru the efforts of Bruce Mitchell and Clay & Howard Squires, the units have been cleaned and sand-blasted and at least one bowl is cracked but Blace feels it is repairable. The project continues.



Blace now turned the meeting over to Andy Mackey, who put on a presentation of **radioactive materials** in the home and **fluorescent rocks**...see page 2 & 3.



We would like to thank Martha Carson for a \$200.00 donation to the Club!

Dues are OVERDUE!

The March 10th meeting will be held at the administration building and will start at 7PM.

Andy, aided by his son Andy, started off his presentation with a discussion on radioactive materials in the home...covering the full gamete from food ware, to Chinese checkers and toy marbles, to yours or your Daddies OLD glow-in-the-dark wrist watch. Andy had some Fiesta Ware dinnerware and is holding a Fiesta glass (and a Geiger Counter) in the picture. Fiesta brand dinnerware was produced from the 1930s thru the early 1970s. The ORANGE-RED Fiesta bowls, cups and plates were all glazed with reasonably high levels of Uranium Oxide. The IVORY dinner ware has lower levels and even smaller



amounts of Uranium Oxide can be found in all Fiesta branded dinnerware. Fiesta was not alone using pure



or depleted uranium in their glaze, as prior to WW II it's use in dinner ware (particularly red colors) was a common industry practice. The EPA warns consumers not to use radioactive grade ceramics for food and particularly not

to use them with acidic foods (per Andy...think tomato). On the watches...luminous glow-in-the-dark watch dials and faces, painted with phosphorescent compounds of radium and later tritium, were also radioactive.



Andy had one and his Geiger Counter gave an audible "bark" as he brought the two together. The radium watches, plus clocks and other instruments were produced by many manufactures between 1910 thru the late 1960's and were "very" popular in the military. More injuri-

ous to the factory workers than the end-user, they were a very popular consumer item. Tritium, with very low radioactive levels, continued thru the end of the 20th century, but has now been completely replaced with other non-radioactive paint compounds.

The Geiger Counter...is an instrument used to measure ionizing radiation. It came to market in the late 1920s as the Geiger-Muller tube. The modern version, using a halogen tube, was invented in 1947 by Sidney Liebson of the University of Maryland to detect enemy radar. The modern Geiger Counter contains both a meter and audible signal. Per Andy, Geiger Counters can quite often be found in the "used" market as they were very popular during the COLD WAR in bomb shelters!

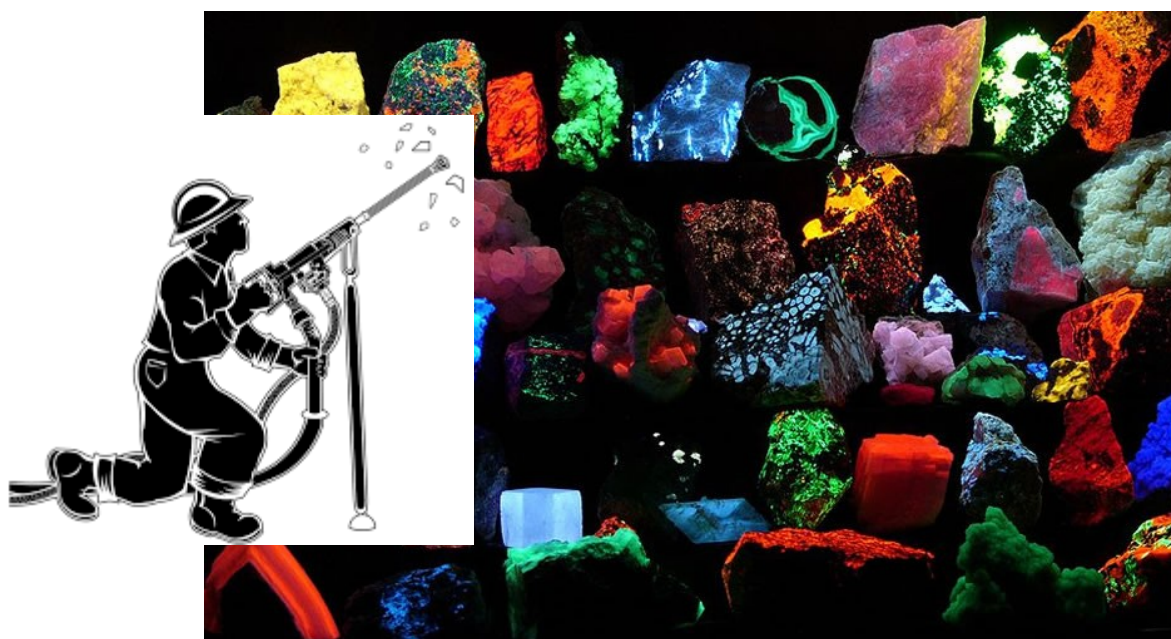
We had to share the conference room in the Administration Building for this meeting, which made the meeting area some-what cramped. You will note, from the above picture, that Andy's presentation area/podium is in the conference room's KITCHEN! You do what you gotta do!

Andy now moved on to the 2nd part of his presentation...fluorescent rocks and minerals. All minerals have the ability to reflect light and some have a physical property known as “fluorescence”. These minerals have the ability to absorb ultraviolet light (not visible to the human eye) and re-release the light in a different color...as seen by the human eye. The color change is spectacular when observed in a dark environment. Again, aided by his son Andy and using both long-wave and short-wave BLACK LIGHTING, Andy showed us many specimens from his collection. Each specimen glowed in a distinct “color”, but had unimaginable names...mostly ending in *ite*...we picked up on Willemite and Zinkite, but after that the names all sounded alike or were too complicated to remember. That’s probably because Franklin NJ is known as *THE FLOURESCENT MINERAL CAPITAL OF THE WORLD*...with over 100 minerals within its borders (361 types if we include Ogdensburg and the surrounding area), many of them fluorescent and 25 found no where else on earth!

The Sterling Hill Mine (now the Sterling Hill Mining Museum) and the Franklin Mine, are known for the variety of fluorescent minerals that have been extracted from them since the 1630s. The Sterling mine has 35 miles of underground tunnels, going down more than 4,500 feet below the surface.

When the mines were operational, here was a practical application of the fluorescent nature of the stone...mine geologists would drill a core sample, prior to blasting, and the fluorescent color would tell them if they were following the correct mineral seam. Note: mineral core sampling is also done in the oil drilling industry and the core fluorescents are used to determine heavier or lighter weight oil deposits.

We thank the Mackey’s for interesting presentations!



Another discussion topic at the Meeting was the dismal response to our continued request for:

Someone to step up...and become an officer.

Please take a few moments and think about the club and what it's meant to you in the past and perhaps it is time to give something back. Any questions or thoughts should be directed to: Dave Betts (973) 303-1994 or Chuck Klim (973) 948-0693 or any of the current board members, whose phone numbers are above.

MARKETPLACE

For Sale: Wheel Horse Lawn Tractor...needs motor work , no attachments,
\$200.00 or BEST OFFER...Call Danny H. 862/266-7362

For Sale: TROYBILT Tiller...horse model, includes: dozer blade, furrow plow, pick tines and all manuals...\$450.00
Call Dave Betts 973/303-1994

For Sale: Steam bent ash plow handles, \$30.00 a pair
Call Bruce Mitchell 973/702-1012

For Sale: 1952 Ford 8N w/grader blade & York Rake, asking \$2,500.00
Call Jim Dunlap 973/219-9694

Wanted: Manuals & Parts for Witte 6-HP horizontal diesel
Call Andy Mackey 862/432-1552

Wanted: Front dozer blade for 1953 Huber M180 Road Maintainer
glenn_hermel@excite.com or 201/787-3275

For Sale: 1920ish IH 1-bottom steel wheel pull behind plow, \$100.00
Call Jeff 973/997-5284

A donation to the club would be appreciated if the item is SOLD!

Dustless Blasting

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Uses recycled glass and water

Free Estimates

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You should have noticed last months promotion of various businesses that have contributed to our club...going forward, we will be alternating the business advertisements with the MARKETPLACE on a bi-monthly basis. Please continue to patronize these businesses!

Telephone: 973/383-1717

A large variety of Automotive Parts, Paint, Tools, Batteries, Farm & Implement Parts, Bailing Twine, & Hydraulic Hoses!

Monday-Friday: 7:00 A.M. - 5:00 P.M.

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