

The Line Shaft

The Official Newsletter of the

NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB

December 2017



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973/229-8607

Vice Pres: Andrew Mackey
862/432-1552

Treasurer: Paul Bouscaren
201/602-0273

Secretary: Mary Muys
973/534-6781

Our Web Address: njaemc.org

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

The November 9th meeting was "to be" held at the Administration Building...unfortunately, we had a problem: no key for the building!

We are sorry for the inconvenience this caused many members and the key problem will be solved by the December meeting.



Christmas in January

Due to availability problems with the Conservatory, we have again pushed our annual holiday party to January!

Saturday, January 13th 2017

6PM to 10 PM

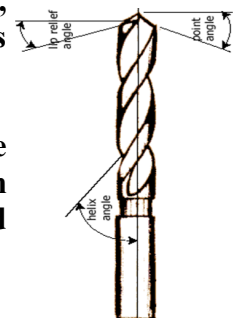


Our next meeting will be at 7 PM on December 14th at the Administration Building. We will have a key for the door, and we will "continue" the discussion of the upcoming 2017 Christmas Party! The event will again be *Christmas in January* and will be held at the CONSERVATORY on January 13th 2018. We need someone to step up and be the EVENT COORDINATOR, so be ready to volunteer at this meeting. We have a strong group of back-up players and a general outline of the steps required to put the event together, we just need a "leader".

Also, the meeting will include the "nominations of officers" and we would like to welcome anyone who would be interested in these positions! Of most importance, Blace is looking to step down in the near future and, we need candidates for President.

Drill Doctor
The Drill Bit Sharpener

Dave Betts will be holding a discussion on drill bit sharpening and will conduct a demonstration of the Drill Doctor 750X sharpener.



See page 2

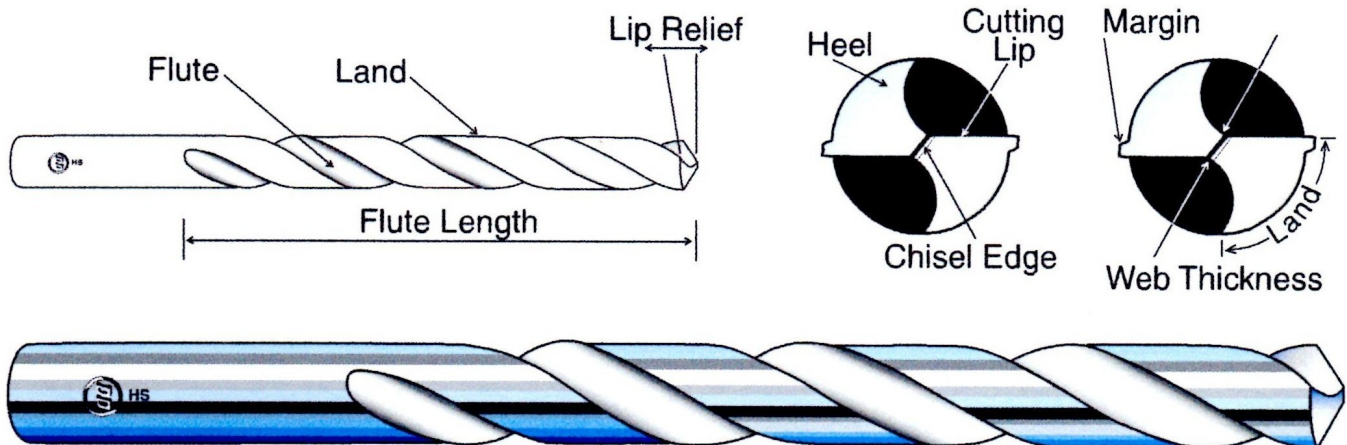
67 Branchville Lawson Rd., Newton NJ 07860

Drill Doctor The Drill Bit Sharpener

Anybody out there have a “full” set of sharp drills?
Doubtful!

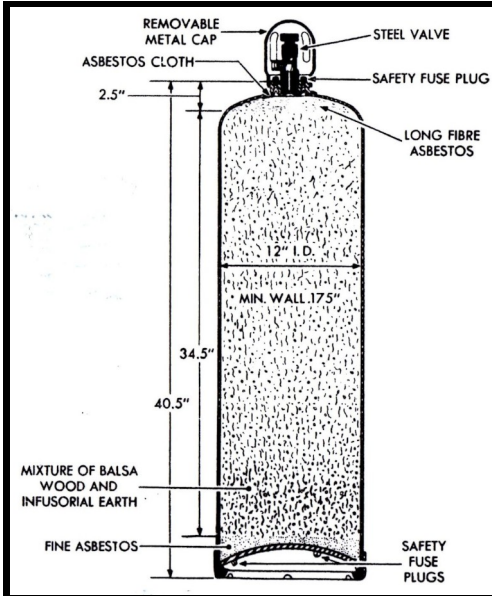
At the December meeting, Dave Betts will lead a discussion on the ANATOMY OF THE DRILL BIT and will be demonstrating a MODEL 750X sharpener for the attendees. The 750X is a professional grade sharpener and can sharpen both twist and masonry drills from 3/32” thru 3/4”, can do point angles from 115 to 140 degrees, and can sharpen carbide, cobalt, high-speed steel, black oxide, and TiN-coated bits. This should be both an interesting and informative meeting.

We will be “giving away” a NEW Drill Doctor Model 750X as a door prize at this meeting...retail value \$139.95. You **MUST ATTEND** the meeting to be eligible for the drawing!



Acetylene Gas and Cylinders!

Acetylene is the most common gas used for fueling cutting torches in general industry, construction and mining. Oxyacetylene is the "hottest" burning of the fuel gases. When mixed with pure oxygen in a cutting torch, an acetylene flame can reach temperatures between 5700°F and 6300°F. Users of this type of equipment are generally familiar with the fire hazards associated with hot flames and the production of hot slag, etc. However, many users may not be aware of the unique characteristics of acetylene itself that create special hazards compared to other fuel gases.



Chemical Composition: An acetylene molecule is composed of two carbon atoms and two hydrogen atoms. The two carbon atoms are held together by what is known as a triple carbon bond. This bond is useful in that it stores substantial energy that can be released as heat during combustion. However, the triple carbon bond is unstable (unpredictable, volatile, erratic, self-explosive), making free-state acetylene gas very sensitive to conditions such as excess pressure, excess temperature, static electricity, or mechanical shock. In short...it can blow up in a heart-beat. Acetylene gas is colorless, but has an odor that is easy to recognize.

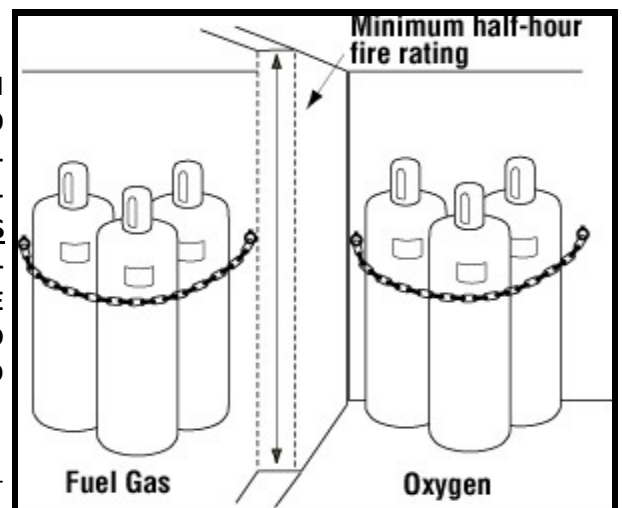
Rate of combustion reaction: Because of its simple chemical make up and sensitive triple bond, acetylene burns at a very fast rate. This very fast burning rate can accelerate the speed at which pressure is generated in an explosion, beyond what would occur from other fuels. This, in turn, can make acetylene explosions more violent than for other fuels.

Storage: Because of acetylene's unstable nature, it must be stored under special conditions. This is accomplished by dissolving the acetylene in liquid dimethylformamide (DMF) or acetone. The liquid end-product is then stored in the acetylene cylinder...which has been filled with a porous (sponge-like) material called AGAMASSEN, a mixture of various materials (it has changed over the years and is different in various regions of the world) to include: balsa wood, coal, charcoal, finely-shredded asbestos, corn pith, portland cement, infusorial (decayed) earth and/or diatomaceous earth. The AGAMASSEN mixture stabilizes the highly self-explosive acetylene mixture. *Note: you may recognize diatomaceous earth, which...when mixed with nitroglycerin "for stability" is called Dynamite!*

Cylinder storage must include the separation of acetylene from oxygen and it should be in a clearly identified, dry, well-ventilated area.

PROTECT ALL CYLINDERS FROM FALLING OBJECTS. AVOID ROUGH HANDLING, DROPPING, OR KNOCKING AROUND OF CYLINDERS TO PREVENT DAMAGE TO THE CYLINDER, FUSIBLE PLUGS, RELIEF DEVICES, CYLINDER VALVES OR GAUGES. STORING ACETYLENE CYLINDERS ON THEIR SIDE MAKES THE ACETYLENE LESS STABLE AND LESS SAFE, AND INCREASES THE LIKELIHOOD OF SOLVENT LOSS AND RESULTANT DECOMPOSITION. ACETYLENE CYLINDERS MUST BE STORED, TRANSPORTED AND USED IN THE UPRIGHT POSITION AND FIRMLY SECURED TO PREVENT THEM FALLING OR BEING KNOCKED OVER.

Use acetylene from cylinders only through pressure reducing regulators and don't use acetylene at pressures greater than 15 PSI. When installing regulators, turn the acetylene cylinder so its valve outlet is pointed away from the oxygen cylinder.



Written by Bryan Bloyd and Robert Triebel, both articles previously appeared in:
EQUIPMENT MANAGEMENT NEWS

NJAE&MC - Upcoming Events

Christmas Party

Event coordinator: to be announced
January 13th at the Conservatory

Veterans Day

November Meeting that wasn't!

We had planned on wishing our veteran members a Happy Veterans Day, however the meeting never came off, so..let us take this moment to belatedly thank them for their service to our country!

Of note: we have an unusually large amount of veterans for a group of our size...thank you "COLD WAR"!

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Here's wishing
everybody a
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Season!**

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