

The Line Shaft

The Official Newsletter of the

NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB

October 2017



President: Blace Flatt
973/229-8607

Our Web Address: njaemc.org

Vice Pres: Andrew Mackey
862/432-1552

Treasurer: Paul Bouscaren
201/602-0273

Secretary: Mary Muys
973/534-6781

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



Pot-Luck-Picnic

Additional pictures on Page 2

Our September 14th 2017 meeting was our annual end of summer "pot-luck-picnic and included a "short" business meeting. Paul Bouscaren got approval to pay some invoices and expenses and we discussed some up-coming expenditures and reserving the *Conservatory* for the Christmas Party...Blace shelved the party discussion for the October meeting.

Blace thanked everyone for their effort put out during the State Fair!

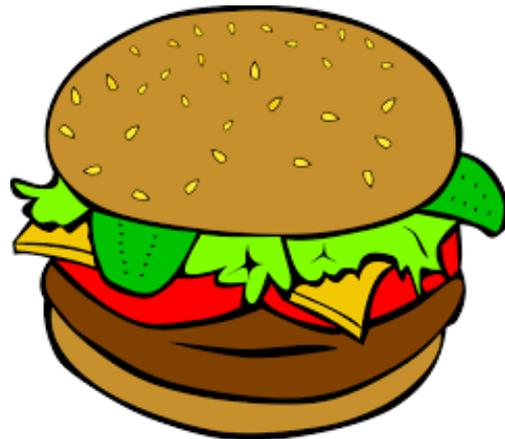
Bob Triebel held a brief discussion on 15 vintage Deere tractor models that former member Andy Skellenger would like to donate to the club, for resale...with the \$ going to the club as a contribution. The club approved the plan as a good winter project.



Our next meeting will be at 6 PM on October 12th at the SHED and will include the closing and winterization of the shed!!

67 Branchville Lawson Rd., Newton NJ 07860

As in previous years, the club provided the hamburgers and hotdogs (and fried onions...thank you Paul) and the members provided the side dishes and desserts!



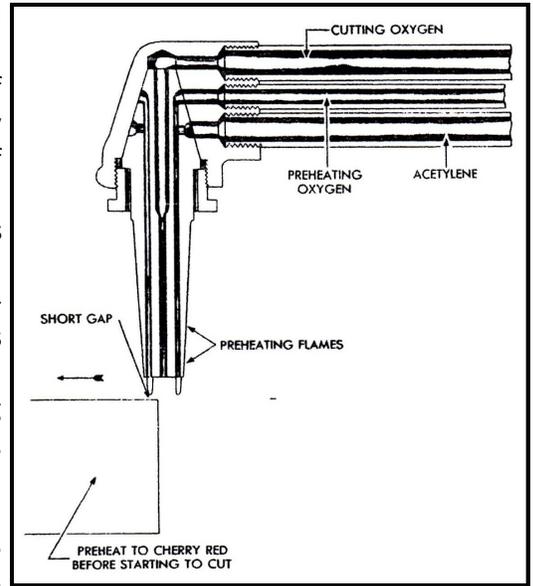
Toy Tractor Raffle Winner from the State Fair!

Judy Lovas of Newton NJ



Oxy-acetylene Cutting, etc!

The acetylene torch was invented at the beginning of the last century and credit for producing the first operational torch is generally given to Frenchman Edmund Fouche...who is also credited with developing the first SAFE way of compressing acetylene gas into cylinders. In 1903 Fouche sent one of his early torches to the USA. On the American side of the Atlantic, John Harris (later of *Harris Calorific*) exhibited an updated torch at the St Louis Worlds Fair of 1904, L.W. Stettner (a blacksmith and iron worker) developed the stem-type gas regulator and a torch with a lever operated valve to deliver the cutting oxygen and founded the *Victor Equipment Company* in 1913...and Elmer Smith established *Smith Equipment Company* in 1916. By the 1920's these early pioneers had developed the combination welding and cutting torch and gas welding and cutting equipment that has barely changed to the present day...excepting some safety features. These safety features include; two-stage regulators, flash-back arrestors and/or reverse flow check valves.

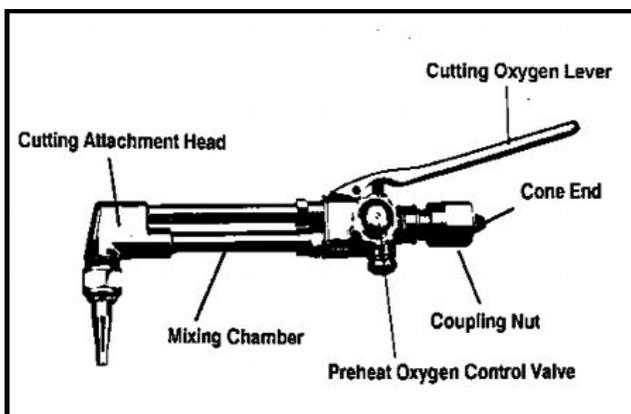


The electric welding processes has almost completely taken over the "production" welding field, producing excellent welds at a faster rate than the oxy-acetylene process. However, the oxy-acetylene welding-cutting equipment continues to beat it "hands-down" for **versatility**. It can be used to weld, braze, silver-solder, "heat" metals (for hardening, softening, bending and forming and for the loosening or removal of stubborn bolts, nuts or other rust seized parts) and most importantly...can **CUT** thru **heavy-heavy** steel. The actual cutting process is thru "rapid" oxidation, the combining of the highly pre-heated metal with oxygen and the chemical reaction created both burns and, aided by the oxygen cutting stream, blows the molten slag thru the metal. The cutting process only works on metals that can oxidize (rust)...i.e. Steel!

It remains a significant tool on the REPAIR side of industry and its use has expanded every decade since its inception in the early 1900s.

Approximately 50,000 NEW complete torch sets (torch, hoses, regulators) are sold each year in the United States and the average equipment life span is 50 plus years. Where you find steel you find the "cutting torch"...all the way from the steel mill to the scrap yard. Oxy-fuel cutting has never been an exclusively oxy-acetylene process and other fuels are also widely used, including propylene, liquefied petroleum gas (LPG), propane, butane, natural gas, hydrogen, gasoline and MAPP gas. Acetylene does not work well under water and hydrogen is the accepted fuel alternative. However, acetylene still remains the primary fuel for general oxy-fuel welding and cutting and is definitely the fuel of choice for repair work...and...**more welding/cutting torches are operated with acetylene than "all" the other gases combined.**

You will need a "selection" of welding/brazing, cutting, scarfing, gouging, and heating tips in a multiple of orifice sizes in order to accomplish a wide range of tasks on various thicknesses of steel, etc.



As with most tools there is a "knack" to using the torch...preheating to the correct temperature (developing a puddle), angling the torch correctly and maintaining the correct welding/cutting speed for the thickness of the metal being worked on.

And...as always ...practice makes perfect!

Written by Bryan Boyd and Robert Triebel, this article previously appeared in:
EQUIPMENT MANAGEMENT NEWS

NJAE&MC - Upcoming Events

November Meeting

Blace Flatt 973/299-8607
November 9th, 2017 at the shed!

Fall Harvest & Sawmill Show

Event coordinator: Mary Muys
October 21st-22nd

Denville Parade

Event coordinator: Howard Squires 973/886-1872 howardsquire@aol.com
November 26th, 2017

Christmas Party

Event coordinator: to be announced
Actual date not confirmed

MARKETPLACE

1952 Ford 8N Tractor

Call: John Stickle - 862/397-3782

Price Negotiable

1940 John Deere L Tractor

Call: - 862/397-3782

New tires-Excellent condition!

\$2,800.00 or Best/Offer

A donation would be appreciated for all items SOLD!

The Blue Mountain Antique Gas & Steam Engine Association's

FALL HARVEST AND SAWMILL SHOW

Jacktown Grove, Bangor Pa.

Tractor Pull: 9AM Saturday October 21st

NJAE&MC members will be PULLING!



Drill Doctor:
The Drill Bit Sharpener

Winter Meeting
2017-18

Dustless Blasting

Eco-Friendly On-Site Blasting

Uses recycled glass and water

Free Estimates

CUSTOM METAL DESIGNS LLC
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