

The Line Shaft

The Official Newsletter of the

NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB

January 2018



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



Happy New Year! Christmas in January

Saturday, January 13th

6PM to 10 PM

The Conservatory at the Fairgrounds

If you have not already been contacted, please contact Blace or Mary and let us know how many people are coming and what food you will be bringing:

See page 2 for phone, text and email addresses!

Gifts are \$10.00 - \$15.00, wrapped, no name...(1) exchange allowed!

We will be having a monthly meeting on January 11th at 7 PM at the administration building to firm up and finalize the party!

We need volunteers to arrive at 5PM to set up tables etc.



Dues are due for 2018...please remit with your check and a completely filled out 2018 Membership Renewal Slip to Mary Muys!

67 Branchville Lawson Rd., Newton NJ 07860

December 14th meeting

Blace welcomed the members attending. The annual Christmas party will take place on January 13th at the Conservatory. In Lieu of any volunteers, Blace and Mary will be heading up the event, and we need a head count of those attending with their families, so we have enough food etc. Please call Blace Flatts at 973/229-8607 or text Mary Muys at 973/534-6781 or email Mary at marym165@hotmail.com. We will be sending out an email the week before the party noting what food is already being brought, so we reduce redundancy!

Blace mentioned that he had located a small "cheap" trailer that might work as the dedicated trailer for the CARTS (see page 3)...he will look into it and it will be a topic of the next meeting.

Paul Bouscaren proceeded with the Treasury Report for October & November and the clubs bills for December.

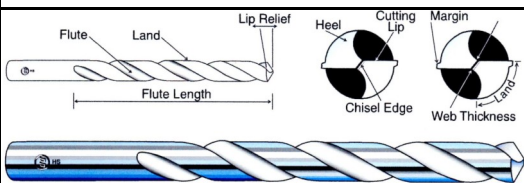
Howard Squires thanked the members for showing up at the Denville parade and asked about getting a membership roster, so we can better contact on another if need be. We will make it a topic of next months

Bob Triebel brought up the DIE-CAST John Deere/ERTEL "collector" models available thru the club for \$35.00 each. Bob had brought a selection to the September end-of-season dinner and we handed out fliers at this meeting. Thanks to Andy Skellenger, all proceeds will go to the club as a donation, and we will sell these to the public as well as members. We received orders for (2) by the end of the meeting. If anyone wants to buy a model or get the flier sent to them or their friends, contact Dave Betts (908/303-1994) or Bob Triebel (973/600-0899). Note, we sold 2 models at the meeting!

The meeting also included the nomination of offices for 2018...see Page 4!



The 2nd half of the meeting was an very interesting hands-on technical presentation on drill bits and in particular the **Drill Doctor**, a line of state-of-the-art drill re-sharpening



power tools...presented by Dave Betts and Bill Castimore. Initially they passed out a copy of **Anatomy of a Drill Bit** (a Drill Doctor flier) and Dave and Bill went into a discussion of the TWIST Drill...the standard



"common" everyday drill bit that we all know and love. The discussion covered the cutting lip, lip relief, heel, chisel edge and the helical flutes, which carry the chips or shavings up and out of the hole being drilled. The geometry and sharpening of these lip angles etc. is critical to the performance of the bit. They also covered the material the TWIST drill bit can be made of, the most



common being High Speed Steel, which has largely replaced softer materials, is generally considered your average drill bit and can drill most metals and wood. The addition of cobalt and/or Tin-coatings will allow drilling of harder materials, at higher speeds...but will break easier! Also drills bits come in various lip relief point angles (standard is 118 degree, which will cut metals, wood and plastic well) with more aggressive angles used for soft plastic and shallower-flatter angles used for harder/tougher materials.

We moved on to the focus of the meeting, sharp-



ening of worn bits with the 750X. With only a little knowledge on your part, the **Drill Doctor** will position, align and guide the drill thru the process required to achieve the correct geometric angles etc. to correctly sharpen the bit. This is not an attachment for your grinding wheel, the actual grinding stone is part of the tool. Within minutes the tool can be set up and the grinds made and with a little practice this is a very “fast” process. Sharp drills, like all tools, are safe tools, will get the job done quickly and produce perfect holes...dull or chipped bits will waste time and, if they drill at all, will produce a poor, sloppy hole. Before you head to the store for a new drill bit, sharpen your old bit...even the lowest grade, heavily damaged OLD drill bit can be returned to service in a few minutes with the **Drill Doctor**. Late in the presentation, Martin Little brought up his 10 year old Drill Doctor and the group proceeded to sharpen bits with it. We could see where the updates in the newer model made it somewhat easier, but the older grinder did a fine job. Dave recommend Martin purchase a coarser grind stone for the initial grind on heavily worn bits...he had one for the 750X and used it during the presentation.



We wrapped up the evening with the presentation of a New 750X as a door prize...see page 4!



Denville Parade...11/26/17

Members attending: Chuck Klim, Paul Bouscaren, Blace Flatt, Howard Squire, Clayton Squire, Bill Castimore, and Tom Tunstead.

Paul took several pictures at the staging area as the trailers arrived (see above). The transport of the CARTS to off-site parades etc. was a major topic of the November Director's meeting and as always: “pictures are better than a thousand words”. The thought at the meeting was that the CARTS will not hold-up for the long-haul unless we come up with a dedicated trailer for the CARTS...preloaded (properly so the carts are not banging into each other) and “ready” to go for these events. This will be a topic at the December meeting and more info will be found on page 2 of the newsletter.

John Stickle

1936-2017

We mourn the loss of our friend and fellow club member John Stickle, who passed away on December 2nd 2017.

A handy guy and always a “willing” wrench; the club members..and particularly your friends at the club...will be miss you dearly. Rest in Peace John, your club legacy will be the many projects you worked on and the events you and your Ford 8N participated in! We would like to express our sympathy to John's family & particularly his cousin Blace Flatt.



NJAE&MC - Upcoming Events

Christmas Party

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

Milt Jager won the door prize at the December meeting...a NEW Drill Doctor 750X donated to the club by the manufacturer

The 750X can sharpen 3/32" - 3/4" drill bits!



HISTORY OF THE TWIST DRILL

The twist drill as we know it was invented in 1861 by Steven A. Morse of East Bridgewater MA. He was issued U.S. Patent # 38,119 on 4/7/1863. The patent covered a drill made from a cylindrical rod (most previous drills were made from flat materials), with a cutting head and double helical spiral grooves (flutes) that acted as a type of screw conveyor and were used to remove the borings and chips from the hole being drilled.

The original method of manufacture of these grooves was to cut 2 vertical grooves on opposite sides of the round rod and then to "twist" the bar to create the helical flutes...TWIST DRILL! Note: today the flutes are ground into a much harder rod.

Nomination of Officers 2018!

President: Blace Flatt
Vice President: Andy Mackey
Treasurer: Paul Bouscaren
Secretary: Mary Muys

Dues are do for 2018

Please remit with your check and a completely filled out 2018 Membership Renewal Slip to:

Mary Muys !

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