

# The Line Shaft

*The Official Newsletter of the*

**NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB INC.**

**May 2023**



**President: Albert (Chuck) Klim**  
973/903-3583

**Vice Pres: Richard Muys Sr.**

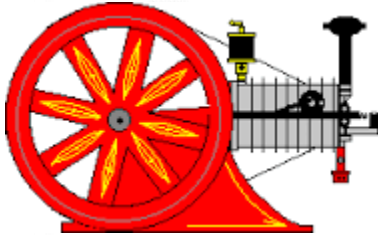
570/903-5063

**Treasurer: Linda Klim**

973/948-0693

**Secretary: Sandra Betts**

973/600-3425



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

**April 13<sup>th</sup>, 2023, NJAE&MC INC. Meeting was held at the Fairgrounds Administration building!**

President, Chuck Klim, called the meeting to order, followed by the Pledge of Allegiance to the flag.

Minutes were read from the last meeting by Sandy Betts.

Treasurer, Linda Klim, reported the general account and raffle account balances. Accounts Payable were reviewed. Newsletter invoices submitted by Bob Triebel were approved for payment and an \$18.00 trailer registration was paid for by the club. Also: Linda Klim has gotten her vendor license and purchased some shirts for re-sale. Other bills included postage, *Newton Trophy* plaques, balloons, a toy tractor, printers ink and paper and a \$250 deposit on shirts from *Jersey Shirt and Design* (total will be \$580). A picture was shown of the toy tractor purchased that will be raffled during the fair and the quilt to be raffled will be ready in a couple of weeks. The Treasurers report was motioned for payment and approved.

Engravings were picked up from *Newton Trophy* and will be placed on the plaque, memorializing deceased Club Members.

#### NEW BUSINESS

Commercial Property, General Liability and Crime Insurance increases were then discussed at length. Linda has spoken with our agent regarding an insurance \$ increase and the fact that the club is incorporated. The increase was due to our coverage including the contents of the building. Cyber Security \$50 and Terrorism Risk \$25 will be removed from the policy. Tractors are not covered under the Club policy as this is the "owner's responsibility". A brief discussion followed...recommending reasonable insurance companies for tractor owners. We will be checking with Fair Officials to see if their insurance covers any of the above, to avoid double coverage and overpayment.

On Saturday, June 10<sup>th</sup> at 5:00 PM, the *Fairgrounds* will be doing a *Boots, Bourbon & Barbecue Fundraiser* to cover improvements to the recreational area. This will include a twenty-one and over banquet and an auction. The club was asked to display tractors in the *Richards Building* for that night. They also asked if we could provide a tractor/wagon with driver that would go around and pick up people needing transport from the parking lot...and asked for something to auction off. It was discussed that a reserve of \$1000 be placed on our buckboard wagon and offered as a donation for the auction. Also discussed were other avenues to sell this wagon.

The proposed 14' X 38' addition to the Club shed was reviewed by Chuck. The grant, previously discussed this past fall, was denied. Lumber and metal pricing was discussed and noted that the metal header beam, costing \$2017.00, would take approximately 2 weeks to deliver. *Northwest Supply* will provide our metal needs and *Kuiken Brothers*, the lumber. *Kuiken Brothers* has offered to donate \$250 towards our addition and the store manager offered an additional \$250. Requests were also made to enlist younger members and families to help complete the construction of this project.

*Continued on page 2*

**May's meeting will be on TUESDAY May 9th at 7PM at the SHED!**

Our Web Address: [njaemc.org](http://njaemc.org)

**67 Branchville Lawson Rd., Newton NJ 07860**

Up coming Events: include the *May 29th Branchville Memorial Day parade* and *Sandyston Township's parade on August 19th*.

Plow days will be held at *Wesselhof Farms*. They have three fields available to plow; date or dates to be announced. However, we may have only one plow day due to the impending construction needs on the shed. Also, the body on our wagon needs to be relocate, so it can safely turn corners when hooked up and towed by a tractor...which is another club project.

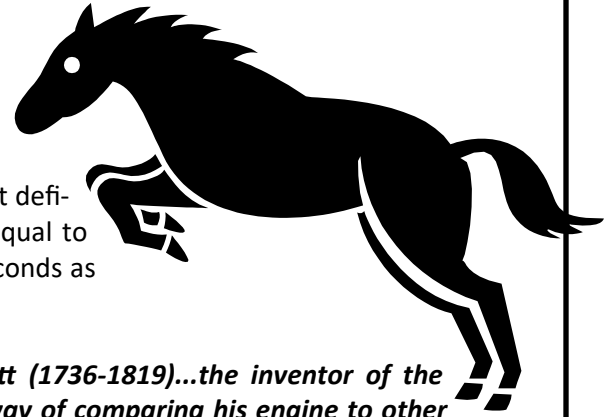
Meetings will continue to be held on the second Tuesday of each month.

Two new members joined the Club at the meeting: Jason Wesling and Bill Hull.

Bob Triebel requested a new photographer to step up and take the position to cover club "photo" events...particularly parades. He is no longer satisfied with his ability and the responsibility to converse parade routes. This job will need to be filled promptly.

A Motion was made to adjourn the meeting by Paul Colianni and seconded by Rich Muys Sr.

## HORSEPOWER!



**Mechanical horsepower** is defined as "work divided by time" and the exact definition of "one" horsepower is 33,000 lb. ft./minute. One horsepower is equal to lifting 33,000 lb...one foot...in one minute. It is sometimes expressed in seconds as 550 lb. ft./seconds...33,000 divided by 60.

*It "appears" to have originated, as a "marketing ploy", by James Watt (1736-1819)...the inventor of the "modern" steam engine. To help sell his "new" engine, Watt needed a way of comparing his engine to other power sources of the time...older styled steam engines, water wheels and the most common, but somewhat abstract, horse! In 18th century England, draft (work) horses were the predominant means used to create rotary motion by harnessing them to a vertical revolving axle and having them walk a 24' diameter circle (approx. a 75' circumference). Watt calculated that a horse, working in this mode, pulled with a force of 180 lbs....although it is not known what tests, tooling or calculations he used to develop this number. By counting the completed circular trips the horse made in one hour he was able to calculate the feet per minute. He then multiplied the feet (181), times the force (180) and came up with 32,580 lb. ft., which he rounded off to 33,000 lb. ft./minute.*

This somewhat bazaar and heavily suspect calculation has been adopted to rate the power output of piston engines, turbines, electric motors and other machinery. The horsepower calculation is not recognized within the engineering or scientific communities, who prefer the more accurate WATTS as a unit of measure....one mechanical horse power being equal to 745.7 watts or .746 kilowatts of electrical horsepower.

### Other horsepower ratings:

**Indicated horsepower:** the theoretical and very mis-leading power rating of a "frictionless" reciprocating engine.

**Brake horsepower:** the measured (tested) torque and rotational speed under a predetermined load of a "stand-alone" engine, often "without" any of its auxiliary (and essential) components...water pump, exhaust system, etc. An engine dynamometer is used to create the load and measure the horsepower. It is sometimes called **SAE gross horsepower** and was the general method of rating automotive engines prior to 1972 and considered highly inaccurate.

**SAE net horsepower:** uses the same test procedure and equipment as *Brake or SAE Gross Horsepower*, however it includes all drive belts, pumps, filters, emission controls and "power consuming" accessories. It generally replaced *Brake or SAE gross horsepower* in 1972 and, although not absolutely accurate, it gives a rating "closer" to the actual power produced in chassis.

**Drawbar horsepower:** is a direct reading, measurable "pulling-power" figure requiring a controllable load...much like a tractor-pull ...and is a physical test. It is actual and "not" theoretical or an estimate!



# Basic Mechanical Trade Tools explained!

*A Tongue-in-Cheek joke!*

## Drill Press

A tall upright machine useful for suddenly snatching flat metal bar stock out of your hands so that it smacks you in the chest and flings your beer across the room, denting the freshly-painted project which you had carefully set in the corner where nothing could get to it.

## Wire Wheel

Cleans paint off bolts and then throws them somewhere under the workbench with the speed of light. Also removes fingerprints and hard-earned calluses from fingers in about the time it takes you to say, "Oh, shit!"

## Skill Saw

A portable cutting tool used to make studs too short.

## Pliers

Used to round off bolt heads. Sometimes used in the creation of blood-blisters.

## Belt Sander

An electric sanding tool commonly used to convert minor touch-up jobs into major refinishing jobs.

## Hacksaw

One of a family of cutting tools built on the Ouija board principle. It transforms human energy into a crooked, unpredictable motion, and the more you attempt to influence its course, the more dismal your future becomes.

## Vise-Grips

Generally used after pliers to completely round off bolt heads. If nothing else is available, they can also be used to transfer intense welding heat to the palm of your hand.

## Oxyacetylene Torch

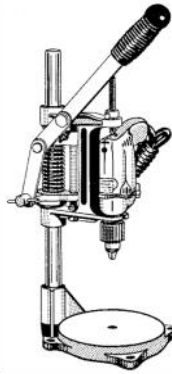
Used almost entirely for lighting various flammable objects in your shop on fire. Also handy for igniting the grease inside the wheel hub out of which you want to remove a bearing race.

## Table Saw

A large stationary power tool commonly used to launch wood projectiles for testing wall integrity.

## Hydraulic Floor Jack

Used for lowering an automobile to the ground after you have installed your new brake shoes, trapping the jack handle firmly under the bumper.



## Band Saw

A large stationary power saw primarily used by most shops to cut good wood into smaller pieces that more easily fit into the trash can after you cut on the inside of the line instead of the outside edge.

## Two-Ton Engine Hoist

A tool for testing the maximum tensile strength of everything you forgot to disconnect.

## Phillips Screwdriver

Normally used to stab the vacuum seals under lids or for opening old-style paper-and-tin oil cans and splashing oil on your shirt; but can also be used, as the name implies, to strip out Phillips screw heads.

## Straight Screwdriver

A tool for opening paint cans. Sometimes used to convert common slotted screws into non-removable screws and butchering your palms.

## Pry Bar

A tool used to crumple the metal surrounding that clip or bracket you needed to remove in order to replace a 50 cent part.

## Hose Cutter

A tool used to make hoses too short.

## Hammer

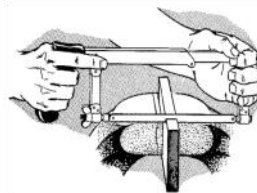
Originally employed as a weapon of war, the hammer nowadays is used as a kind of divining rod to locate the most expensive parts adjacent to the object we are trying to hit, usually smashing the thumb that is holding the object that you are trying to pound into whatever it is that you are working on... effectively eliminating the need for manicure care on that thumbnail for weeks.



*See: Son-of-a-bitch TOOL*

## Utility Knife

Used to open and slice through the contents of cardboard cartons delivered to your front door; works particularly well on contents such as seats, vinyl records, liquids in plastic bottles, collector magazines, refund checks, and rubber or plastic parts. It is especially useful for slicing work clothes, but only while in use.



## NJAE&MC—Upcoming Events

### ***NEXT Meeting:***

**May 9th at the SHED!**

This is a Tuesday and it will start at 7:00 PM

### ***Future Events:***

***Memorial Day Parade...Branchville NJ***

Monday May 29th , parade starts at 10AM..see below!

***Plow Days, Wesselhoff Farm***

Sunset Inn Rd., Lafayette NJ

*To be announced, watch your email!*

***Boots, Bourbon, BBQ...Fairgrounds, Augusta, NJ***

Saturday June 10th, Tractor Display & transport!

### ***Memorial Day Parade***

***Saturday May 29th***

*American Legion Branchville Post 157*

*We need to line-up at 9:30 AM at the Frankford Twp. School*

***Event coordinator Chuck Klim!***

*973/903-3583*

### **CART SPONSORS FOR 2023**

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*Please patronize them and*

*encourage your friends and family to do the same!*

**For some members:  
DUES ARE STILL DUE!**

**Telephone: 973/383-1717**

**A large variety of Automotive Parts, Paint, Tools, Batteries,  
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**Monday-Friday: 7:00 A.M. - 5:00 P.M.**

**Saturday: 8:00 A.M. - 12:00 P.M.**

**Lafayette Auto Parts Supply**

**17 Morris Farm Road**

**Lafayette, NJ 07848**

