

# The Line Shaft

*The Official Newsletter of the*

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

June 2022

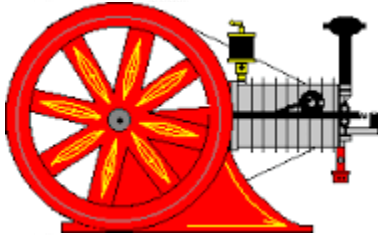


**President: Albert (Chuck) Klim**  
973/903-3583

**Vice Pres: Brian Kardos**  
973/756-7772

**Treasurer: Linda Klim**  
973/948-0693

**Sec/acting: Sandra Betts**  
973/600-3425



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

## The May 10th meeting was held at the Shed!

President Chuck Klim called the meeting to order, followed by the flag salute.

Minutes were read from last month's meeting by Sandy Betts.

Treasurer, Linda Klim, reported the general account and raffle account balances. Minute Man Press has not cashed their check yet. Bills to be paid were then reviewed for payment and Robert Triebel's expenses for the monthly newsletter and Chuck Klim for raffle tickets were voted on and paid. All Club bills have been paid to date and all eight carts have now been paid for.

### OLD NEWS:

Linda is waiting on a call-back from *Skylands Park* regarding the Club being a vendor at the Park's games and to sell shirts and raffle tickets. Brooms had been picked up for future resale.

Sparta's July 4<sup>th</sup> parade was also briefly mentioned.

Linda Klim spoke with Mike Richards, of the *Sussex County Fairgrounds*, regarding upcoming concerts and permits and feels peanuts would be a good seller at these events. Note: 20 bags of peanuts will be ordered later for the State Fair.

The Directors on the Club Board are currently: Blace Flatt, Andy Mackey, Milt Jager and now include; Richard Muys Sr. and Richard Muys Jr., who were approved at the last meeting.

### NEW BUSINESS:

Chuck provided a newly modified drawing of the shed addition for the club to review. He also has estimated the cost to be approximately \$9,000. These plans will be submitted to the Board at the May 19 meeting for approval. The possibility of us applying for a government grant, to fund the addition, was discussed.

Members will meet on May 30<sup>th</sup> at 8:00-8:30 a.m. at the *Frankford Twp. School* for the *Memorial Day Parade*. Line-up will start at 9:30 a.m. and there should be 5 or 6 tractors and 2 wagons,...one for Veterans and one for the Queen.

Chuck spoke of Plow Days, as he had talked with Sam Castimore and Anthony Lentini and there are two fields that can be used. One is behind Sam's office and the other by the Providence Building. Date "anticipated" is for Sunday, May 22<sup>nd</sup>...weather permitting. Note, this is not firm and this is also *Jacktown* weekend, which could represent a problem.

Justin Filipowski spoke about *Fosterfields Living Historical Farm* exhibits and said Saturday, September 10th or 24th were being offered to the Club. They would like Club tractors and engine displays and demonstrations. The 10<sup>th</sup> was thought to be the best day. They would appreciate a months notice on the date and an idea of what we anticipate to display.

Bob Triebel mentioned he has computer problem and future newsletter production may have some difficulties.

Motion was made by Milt Jager to adjourn the meeting and 2<sup>nd</sup> by Bill Castimore.

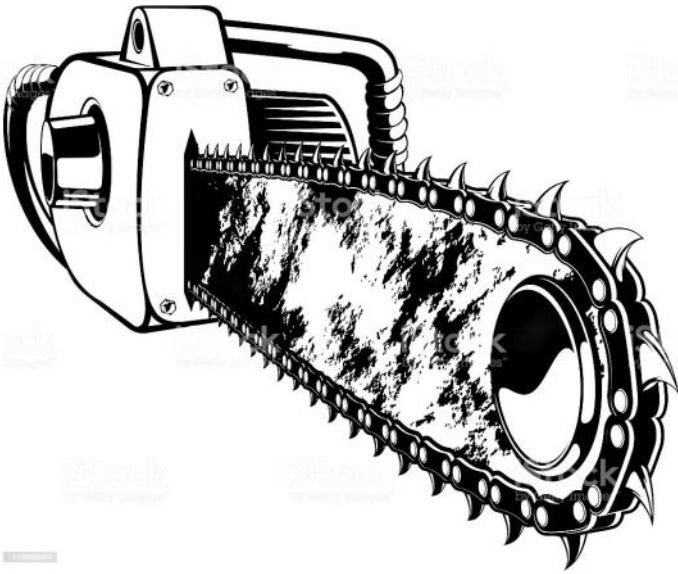
***Our next meeting will be on TUESDAY June 14th at the Shed!***

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

67 Branchville Lawson Rd., Newton NJ 07860

## THE CHAIN SAW

*The portable gasoline, electric or battery-powered tool that cuts with a set of teeth attached to a rotating endless chain along a fixed guide bar and is generally used in trimming or felling trees, is hardly something NEW and has had a long and “winding” life!*



The original chain saw appears to have been in use by the late 1700s, by two Scottish doctors, John Aitken and James Jeffray...for “bone-work” on humans. It was further developed in the 1830’s, by Doctor Bernard Heine of Germany and given a name. Called an OSTEOTOME, it also was a surgical tool. This was a portable hand-cranked unit, with a long blade arrangement that guided an endless chain with sharp teeth around a drive sprocket. The osteotome (and its similar but unnamed predecessors) were used in cutting bone for amputations, creating skull openings for craniotomies, and (hang on to your hat for this one) during the birth of over-sized



**A 19th century OSTEOTOME**

infants. The tool was used to sever the main pelvic joint in pregnant woman during childbirth to allow the passage of the child. Eventually classified as “dangerous and cruel” it was discontinued for this use and (thank GOD) we moved on to more modern techniques. However, for much of the 1800s the hand driven chain saw was a very useful surgical instrument.

During this same period, the late 1700 and early to late-1800s, the main tool used to fell and debranch trees was still the “axe”...the traditional wood cutting tool used by mankind for centuries. The axe remained the most important and widely used tool for forestry work, well into the 1900s. The band saws and circular saws came into use around 1800 and assumed a minor/secondary roll in cutting timber to size and length. As such they reduced timber wastage (saved some \$), but a major problem of the saw vs. the axe was cost...the saw was expensive to buy. The saw did produce a superior finished product and its productivity was high, but they were physically large and cumbersome and if hand powered...required a team of people to operate. If powered by the other power sources of the time, they got even larger and generally unwieldy in rough terrain. They were basically a factory (lumber yard) tool.

However, during the Late 1800s we see various chainsaw type arrangements working their way into the industrial sector. These were NOT hand-held units, and often mounted on wheels and/or required cranes to get them into position. Also, they were NOT used in forestry. These saws were now “extremely” large and heavy and never meant to be used as “logging saws”. They were used by the railroads of the era to build crude wooden bridge beams and fashion railroad ties and in ship yards to manufacture cribbage etc. The cost of these units was extremely high and only the very largest of companies could afford them and...they were mainly powered by steam or compressed air....later electricity. No power source of this period allowed easy mobility. The chainsaw would remain an industrial tool well into the 1900s.

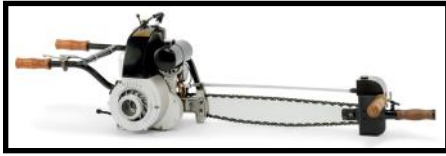
In the early 20th century a patent for a mobile “endless chain saw” that had chain teeth and ran on a guide frame was granted to Samuel J. Bens of San Francisco Californian. In 1905 the patent on the right side of page



3 shows it as a barely-mobile remote powered tool, guided by a workman via the hand-hold #8 (see right side of image in Fig. 6 and 7 and on the left in fig. 8). With this, we now see something that looks “roughly” like the chain saw we know.

### The 1920's and we really go mobile!

The 1920's saw major changes that actually turned the chain saw into a “hand-tool”...a 2-man hand tool. In 1926 Andreas



Stihl of the *Andreas Stihl AG Company* patented and developed the first electric powered 106 lb. hand-held chainsaw and, importantly, “mass produced” it...and this is the same STIHL that is still producing tools today.

In 1927 Emil Lerp of *Dolmar GmbH* produced the first gasoline powered chainsaw and mass produced it also. Not to be out-done, Andreas came back in 1929 with his own gas powered unit...see picture above. The Gasoline powered Stihl saw was powered by a 6-horsepower engine, weighed 101 lbs. and, as with the others, required 2-men to operate it. The 2-man saw remained the standard type unit thru WWII.

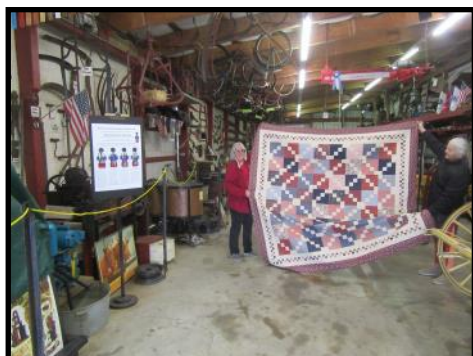
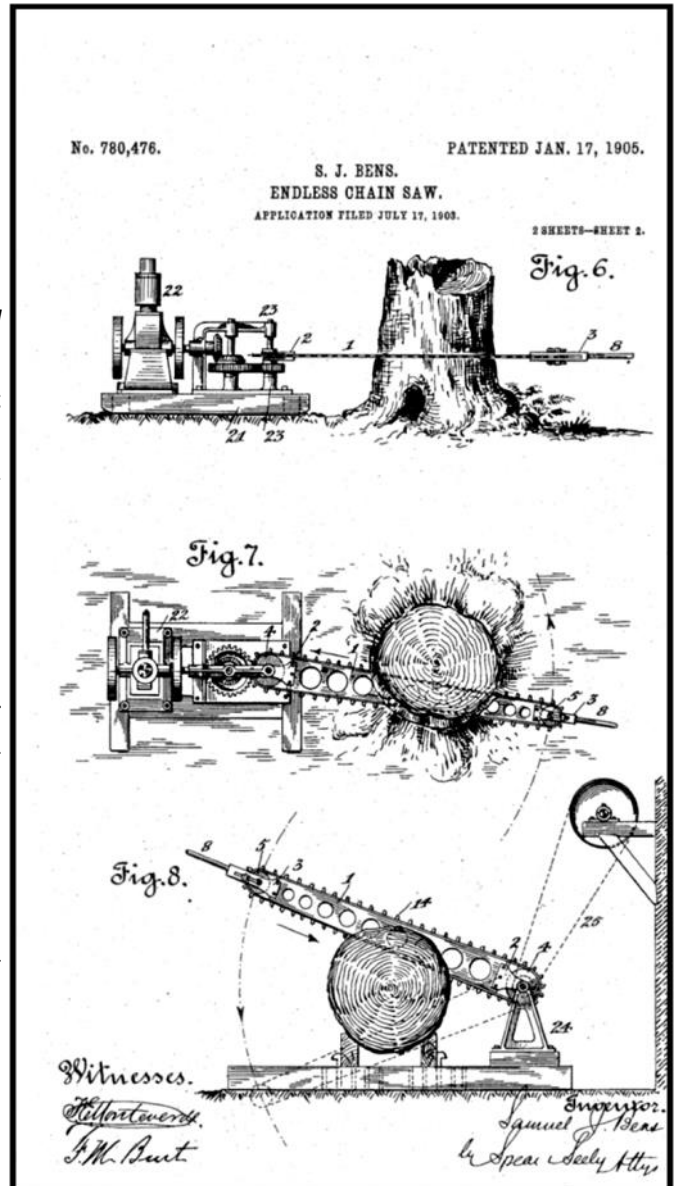
Post WWII improvements in aluminum alloys, forged steel parts and engine design reduced the weight to a point where they truly became 1-man units. In late 1949 *McCulloch Motors Corp.* debuted the worlds “lightest chain saw to date”, the 25 lb. 1-man Model 3-25. Equipped with a diaphragm carburetor and pistol-grip, it was an all-position saw.

### By the 1950's the 1-man chain saw was in the form we still see today...it had arrived!



By the mid-1950s forestry was NOW “fully mechanized”. Future changes would include the addition of plastic, chain up-grades, safety features and more sophisticated engines, motors and later battery power.

Also, the chain saw had become a home-owner/handy-man tool.



**Home & Garden Show  
2022  
April 23rd**



## NJAE&MC—Upcoming Events

### ***Next meeting:***

June 14th at the Shed!

This is a TUESDAY and will start at 7PM

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

#### **Plow Day**

Saturday May 21st

Wesselhoff Farm...Sunset Inn Rd., Lafayette NJ

Call Chuck Klim for details!

#### **Memorial Day Parade**

Monday May 30th, parade starts at 10AM....see below!

#### **Sparta 4th of July Parade**

Monday July 4th, Sparta NJ

Call Chuck Klim for details!

#### **Sussex County Amateur Radio Club –2022 SCARC HAMFEST**

Sunday July 17th 10AM-10PM @ THE FAIRGROUNDS



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

***Monday May 30th***

*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 2022**

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*Please patronize them and encourage your friends and family to do the same!*

***Dues are over-due for 2022!***

***Newsletters have been discontinued for those who have not paid!***



**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.**

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

**Lafayette Auto Parts Supply**

**17 Morris Farm Road**

**Lafayette, NJ 07848**

