

# The Line Shaft

*The Official Newsletter of the*

## NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB

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FOUNDED ON OCTOBER 15, 1979 BY:  
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(973) 383-3370

Our next meeting will be on **Thursday, October 14<sup>th</sup>** at 7:00 PM in the Sussex County Fairgrounds NJAE&MC Engine Shed. This will be the “get the machines prepped for winter” meeting. Please come prepared and come early if possible.

For those members who were not able to make the last meeting (the Annual BBQ), I wanted to let you know that club member Luke, my son, had suffered a severely broken left leg during a pre-season football scrimmage in Morristown in early September. His fibula was broken in two and separated. Along with this, his foot was badly dislocated, resulting in the tearing of the tendons holding the fibula and the tibia together. After surgery, Luke now has a plate with 9 screws holding his fibula together and a 10<sup>th</sup> (long) screw through his fibula and into his tibia to hold them together and allow the tendons to heal. Luke is handling things very well but has a long hard road ahead, including two more surgeries. It seems oddly coincidental that Luke’s break came on the same day (Friday), one year and six days after I broke the same side ankle and foot!

Howard Squire had notified me that club participation in Denville’s 2010 Ayers/Knuth Farm Festival is highlighted in a YouTube video of the event. Check it out at <http://www.youtube.com/denvillenj> where you can see some club tractors and our V.P. Andy Mackey talking about the club and demonstrating one of his engines. Thanks for the heads-up Howard!

Once again, Ben Jorritsma, owner of Ideal Farm & Garden Center, is hosting the NJAE&MC for a Fall Plow Days on November 6<sup>th</sup>. The event should pretty much follow the routine of the Spring Plow Days event, starting at 8am with a light breakfast. As usual we will meet at the barn next to the Chaterbox restaurant.

Stillwater Day, sponsored by the Historical Society of Stillwater Township, was well attended by the NJAE&MC and proved to be an enjoyable day according to club secretary Jeff Brooks. Unfortunately, I could not attend, but fortunately Jeff provided me with a nice write-up and photos. Bruce Mitchell was the club contact point and coordinator for this event. Thanks, Bruce!

We are fortunate to have some very nice photos of the recent Tractor Supply Antique Tractor Meet at the Sussex, NJ Tractor Supply, courtesy of Wally, the store’s owner. This is the second time the club has been asked to display there and will probably be a regular event for us. They say a picture is worth a thousand words and so I’m providing plenty of photos of the event for you to enjoy and that tell the story of the day since I was unable to attend. I would never have written even a thousand words about it anyway. Enjoy!

**Attn:** Anyone who currently has an add in the “**Marketplace**” who has sold their item or wants to take it off the market or has acquired their wanted item needs to contact me by phone or by e-mail at [rmagera@nac.net](mailto:rmagera@nac.net) so I can remove the ads. Thank you.

**CHECK MAILING LABEL FOR MEMBERSHIP EXPIRATION**  
**(The month listed will be your last newsletter)**  
**Dues are \$15 per year, checks payable to NJAE&MC**  
**Bruce Mitchell at 171 Mt. Salem Rd., Sussex, NJ 07461**

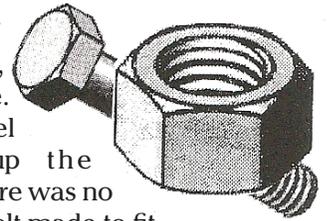
# STILLWATER HISTORICAL DAY

The weather for the Stillwater parade and special events was perfect. We had a strong turn-out of club members, who show-cased their tractors in the parade and shared information on our club with event goers. Dave Betts was a double entry, with his Panzer Tractor and Lauson Model W Hit and Miss Engine in tow. The people got a kick out of Dave's exhaust mounted "can" that shot into the air when the engine fired. After the parade, the organizers of the event had all the tractors line up for a best-in-show contest. When the judging was over, the first place trophy went to Brad Swistack with his International Low Boy tractor. Brad did an outstanding job on the restoration of this tractor. Another highlight of the event was seeing our friend Joe Cook out and about with his trusty Ford 8N. After everyone had lunch, we formed a circle of chairs under the tent to sit around and tell stories and share information about tractors and projects in-the-works. The fellowship was more than evident...with everyone going home in high spirits and looking forward to our next event.



## Sir Joseph Whitworth 1803-1887

The idea of a nut and bolt as a mechanical connecting device goes back many hundreds of years. The screw thread is one of our original *Renaissance Classic Simple Machines*. However, prior to the 1800's the nut and bolt was rarely used and if they were, they were hand-made. The rivet was the preferred method of connection, particularly of iron and (later) steel components. In the early 1800's Henry Maudslay invented the screw-cutting lathe, which sped up the thread process and made the nut and bolt (mechanical hardware) a viable option. However there was no standardization and most continued as "custom-engineered one-offs", with a single nut and bolt made to fit each other (as a set), but with no commonality with any other nuts and bolts. Slowly companies (manufacturers) began to develop intra-company common hardware, but still...beyond their little world...there was no commonality and mechanical hardware between manufacturers could not be interchanged or purchased elsewhere.



**In 1841, Joseph Whitworth of Manchester, England and a former employee of Maudslay...developed a 55 degree thread pitch with a rounded tip for all the various sizes of nuts and bolts then in use. Later known as *British Standard Whitworth* (BSW), it allowed all BSW nuts to precisely fit all BSW bolts of the same size.**

**With hindsight it would seem elementary, but in its time, it was a major evolutionary step in engineering.**

**BSW was adopted by many British railroads and soon became the national standard for the United Kingdom and for a time the United States.**

In the late 1860s and 70's the United States shifted to the Sellar's Thread, with a 60 degree angle thread profile and a flat tip. The Sellar's thread was easier for ordinary machinists to produce, was adopted by the US railroad and later became known as the *United States Standard Thread*. In 1898 the *International Congress for Standardization of Screw Threads* defined a new "international" metric thread, also with a 60 degree profile, however in metric sizes. The metric system was born and would become the dominate world thread, but would not be ISO standardized until 1947. The US and Canada continued with modifications of the Sellar's system, now called the *Unified Thread Standard* (UTS) and encompasses both National Coarse (NC) and National Fine (NF) as well as Extra Fine, Special and Pipe. North America now uses a mix of UTS and Metric Thread...often within the same finished product.

BSW was eventually phased out in "most" of the British Empire, but is still hanging on in Australia. BSW may be redundant today, but it is the granddaddy of the modern screw thread.

# TRACTOR SUPPLY ANTIQUE TRACTOR MEET

Sussex, NJ



# LOCAL EVENTS & SHOWS

## COOLSPRING POWER MUSEUM

Coolspring, PA

**Oct 14, 15, & 16, 2010 Fall Expo & Swap Meet**

<http://www.coolspringpowermuseum.org>

814-849-6883

## BLUE MT. ANTIQUE GAS & STEAM ENGINE ASSOCIATION

Jacktown Grove, Bangor, PA

**October 16 & 17, 2010**

**Fall Harvest & Sawmill Show**

Free admission and parking. For more

information 610-588-6900 [www.jacktown.com](http://www.jacktown.com)

## NJAE & MC FALL PLOW DAY

**@ IDEAL FARM & GARDEN CENTER**

Ideal Farm & Garden Center, Augusta, NJ

**November 6, 2010**

## FLORIDA FLYWHEELERS ANTIQUE ENGINE CLUB

7000 Avon Park Cutoff Rd., Ft. Meade, FL 33841

Tel. 863-285-9121

<http://www.floridaflywheelers.org/>

**November 10 thru 13, 2010**

**15<sup>th</sup> Annual Fall Fuel Up Show**

**January 12 thru 15, 2011**

**24<sup>th</sup> Annual Antique Engine & Tractor Show**

**February 23 thru 26, 2011**

**19<sup>th</sup> Annual Antique Engine & Tractor Show,  
Featuring Allis Chalmers Tractors**

## New Project Has Begun!

The club received a donated  
5HP Hercules Hit n' Miss engine.

Plans are to restore it and  
run a compressor.

We (Bob T., Jeff B.,  
Dave B., and Bill C.)

have confirmed it fires.

Sent the magneto out for a  
repair estimate and  
began disassembly.

*More to come - Dave Betts*

# MARKETPLACE

**WANTED:** 14.9 x 24 used tire

**CONTACT:** Ken Reuter, 973-670-1646

**FOR SALE:** International Cub Cadet 102; repainted, just needs wire harness. \$400

**CONTACT:** Paul Curcio, 33 Central School Rd., Wantage NJ 07461, 201-835-5924, PaulF350@yahoo.com

**FOR SALE:** 1952 Massey Harris Pony. Great running little tractor with dual hydraulics (front and rear). New rubber all the way around. Has belly mower, York rake, snow/dirt plow with homemade pallet forks that hook over plow blade. Selling due to illness. \$2200.00

(Will deliver for price of fuel up to 100 miles ea. way.)

**CONTACT:** Joe Cook, 66 Central School Road, Wantage, NJ 07461

Phone: 973-973-875-9733 E-Mail: [joe.ignitor@gmail.com](mailto:joe.ignitor@gmail.com)

**FOR SALE:** FATS0 2 burner wood/coal stove. Mfg. by the King Stove and Range Co. Sheffield, AL Model 200; A nice little cast iron stove to heat your basement, garage or shed! \$225.00

**CONTACT:** Joe Cook, 66 Central School Road, Wantage, NJ 07461

Phone: 973-973-875-9733 E-Mail: [joe.ignitor@gmail.com](mailto:joe.ignitor@gmail.com)

**WANTED:** Backhoes-Compact Tractors-Mini Excavators-Skid Steer Loaders-Cletrac & Oliver Crawlers-Farm Tractors-Small Dozers... in any condition. **"Top \$ Paid"**

**CONTACT:** Robert Norman, 845-858-8242

**WANTED:** 3-Point hitch conversion for Farmall "H"

**CONTACT:** Rich Magera, 973-948-6625

**FOR SALE:** Used pull style disc - needs repair. \$40

**CONTACT:** Jeff Brooks, 973-383-3370

**FOR SALE:** Steam bent ash hardwood walking plow handles; high quality straight grain. \$30 per pair.

**CONTACT:** Bruce Mitchell, 973-702-1012

**FOR SALE:** Premier Designs jewelry or host jewelry trunk show.

Donations to NJAE&MC from sales.

**CONTACT:** AnnMarie Adams, 973-946-1726,

[AnnMarieBAdams@aol.com](mailto:AnnMarieBAdams@aol.com)

**WANTED:** Old, odd or unusual spark plugs wanted by collector.

Will buy or trade.

**CONTACT:** Joe Cook, 66 Central School Road, Wantage, NJ 07461

Phone: 973-973-875-9733

E-Mail: [joe.ignitor@gmail.com](mailto:joe.ignitor@gmail.com)

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