



The Line Shaft

The Official Newsletter of the

NORTH JERSEY ANTIQUE ENGINE & MACHINE CLUB

JANUARY 2012

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January's meeting started at 7:00pm with 33 members in attendance. Ann Marie gave the financial report and we are starting to look a little better in the money dept. **Old Business-** We talked about the upcoming season of parades and shows at the Tractor Supply stores in Sussex and Blairstown. Bill Castimore was paid for parts for the Hercules Engine which is being restored for the club.

New Business- Scott Dickerson would like to have a Tractor Parade to raise money for a friend who is having medical troubles. The entry fee would be donations around \$5.00 to \$10.00 dollars per tractor, the money would be given to Chris Carbone.

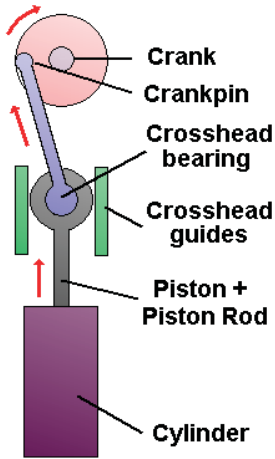
Dave Betts came forward and said he would spearhead the Tractor Supply show in Blairstown. The show date will be on Saturday, April 21st from 9:00am to 2:00pm. We can also bring our peanut roaster to sell peanuts if we would like to. Please sign up with Dave as he would like to make signs of each attending machine. Bruce Mitchell said that the Tractor Supply show in Sussex would be held on Saturday, July 14th from 9:00am to 2:00pm. Engine Club board members will be meeting to go over Club Insurance Policy which is due in March. Possible grange hall dance mentioned. If anyone is interested please contact the editors. Spring swap meet at G&H Service is still being worked on will let you know with information soon. Big thanks to Bruce Gordon for donating his John Deere Linderman Crawler to the club.

Dues- A vote was taken to raise the annual dues to \$25.00. The vote was approved by club members in attendance. We need to vote on it again to make it legal. Frankford Church might have a possible Tractor Pull, a lot more information is needed to get it running. This event is a definite maybe. Bruce Mitchell won the 50/50 of \$45.00 and donated it back to the club. Ann Marie supplied the refreshments and the meeting ended at about 8:30pm.

REMINDER: 2012 DUES ARE DUE

**Our next meeting will be held in the Administration Building at the Fairgrounds
on Thursday February 9th at 7:00 PM**

CROSSHEAD



A **crosshead** is a mechanism used in large reciprocating engines to eliminate sideways pressure on the piston.

On smaller engines the connecting rod links the piston and the crankshaft directly, but this transmits transverse forces to the piston, since the crankpin (and thus the direction the force is applied) moves from side to side with the rotary motion of the crank. These transverse forces are tolerable in a smaller engine; a larger engine's much greater forces would cause an intolerable degree of wear on the piston and cylinder, as well as increasing overall friction in

the engine. A piston rod is attached to the piston and links it to the crosshead, which is a large casting sliding in crosshead guides, allowing it only to move in the same direction as the piston travel. The crosshead also houses the gudgeon pin on which the small end of the connecting rod pivots. In this way, the transverse forces are applied only to the crosshead and its bearings, not to the piston itself.

Internal combustion engines using crossheads make for easier maintenance of the top end of the engine, since the pistons can be easily removed. The piston rod is mounted on the underside of the piston and connected to the crosshead by a single nut in double acting engines.

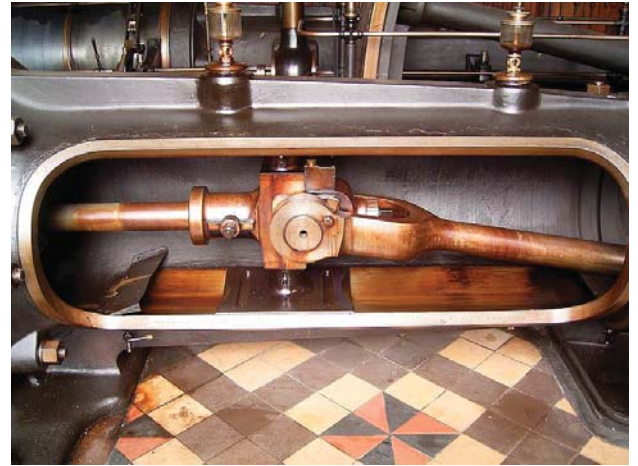
The large two-stroke marine diesel engines are usually of this pattern. The vast majority of steam engines were also built this way.

In the case of the steam engine, a crosshead is essential if the engine is to be *double acting* - steam is applied to both sides of the piston, which requires a seal around the piston rod. An exception is the oscillating cylinder steam engine which can be double acting and yet has no crosshead.

The same applies to double acting diesel. Crossheads in a steam locomotive can be mounted either to one guide mounted above the crosshead or to two, one above and one below (called an *alligator crosshead* since it has two "jaws"). The former was preferred in many modern locomotives.

Large diesels often have a plunger oil pump directly attached to the crosshead to supply oil under high pressure to the crosshead bearing.

In many 19th century marine steam engines, the crosshead was a strong metal bar attached to the piston rod and perpendicular to it, which was sometimes used to eliminate transverse forces, as in a steeple engine, and at other times used as a linkage—to side-rods in a side-lever engine or to connecting rods in a square engine.



North Jersey Antique Engine & Machine Club
presents

Free **ANTIQUE** **Engine & Tractor Show**

Saturday, April 21
9 am - 2 pm
Rain Date: April 28th

at
BLAIRSTOWN TRACTOR SUPPLY
128 State Rt. 94

TSC TRACTOR SUPPLY CO.

A photograph of a red Ford 841 Supermaster tractor. The tractor is a four-wheel drive model with large, treaded tires. It has a white grille and a red hood. An American flag is attached to the back of the tractor. The background is a plain wall.

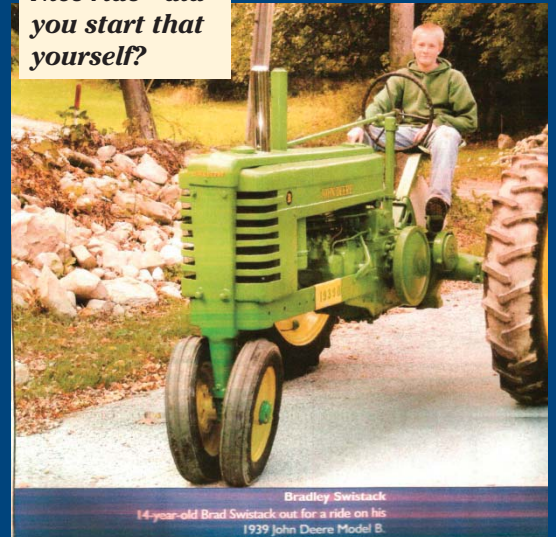
For the "A Day In Our Life- Sussex County" project readers were asked to submit photos that are included in the book- to depict not only a single day in Sussex County, but capture the essence of what makes this county such a great place to live.

More than 1,300 photos were submitted. Some were taken by local professionals and others by amateurs with their cell phones. All were able to convey different facets of everyday life from family to school to local landscapes.

One thing is for sure.... Anyone who read this book who's not from Sussex County will be charmed by the quaintness, community and beauty that these pages convey.

This is just a little portion of this book that you can go out and buy for you and your family. We thought you guys would like to see this because one of our own members, Brad Swistack, is in this book on his 1939 John Deere Model B.

Nice ride - did you start that yourself?



Bradley Swistack
14-year-old Brad Swistack out for a ride on his
1939 John Deere Model B.

DENVILLE PARADE

November 27, 2011



Check out your new display case in the lobby of the administration building. Thanks to Blace for doing such a good job setting it up.

We just want to say we hope you and your families are having a great start to the Year of 2012. Christina and I are having a very busy month with school and a new job. So we are hoping the newsletter is what you are looking forward to reading every month. If there is anything you do like or do not like please let us know so we can improve the newsletter for everyone. Also, please if you have any ideas for the upcoming newsletter please feel free to call either Christina or me.

Sincerely Your Editors,
Christina Francisco & Tiffany Redding



ATTENTION MEN:

Valentine's Day is just around the corner!!! Have you thought about what you are going to get the little mrs.?!?

AnnMarie has beautiful jewelry available to purchase! (she also gift wraps it too!) Contact AnnMarie at the next meeting if you are interested!!!



UPCOMING EVENTS

NEXT MEETING

FEBRUARY 9th, 2012 @ 7PM
at the Administration Building
at the Fairgrounds

SWAP MEET

TBD

BLAIRSTOWN TRACTOR SUPPLY SHOW

Saturday, April 21st 9am - 2pm



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

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: 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

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

WANTED: Good hood & good fenders for Ford 8N (I have bent ones)

CONTACT: Jim Dunlap, 973-219-9694

FOR SALE: 2 ea. 154 International Harvester Low Boys; one ran 3 yrs ago when shut down, under tarp, has Woods 59 inch belly mower. 2nd tractor running, needs brake work, has rear mount 3 point hitch with hammer type mower attachment. Both with long personal ownership. For sale or trade for older Cub Low Boy with plow and/or attachments, or 8/9N Ford.

CONTACT: Charles Germershausen at cgermershausen@hotmail.com or call cell 1-973-214-5968. Tractors located in Florham Park, NJ.

WANTED: Spare parts for 1917 Fairbank/Morse hit & miss engine. Ford Golden Jubilee steering wheel **CONTACT:** Charles Germershausen at

cgermershausen@hotmail.com or call cell 1-973-214-5968.

FOR SALE: 2 Goodyear 16.9 x 24 6 ply Industrial Sure Grip Tractor/Backhoe tires. Approx 40% tread. Good condition, great for spares. (These tires are \$800 each when new) Asking \$125 each or willing to trade for decent 11.2 x 28 tractor tires for Ford 2N. **CONTACT:** John at 973-919-0369

WANTED: Parts for International M Hit or Miss Engine. Piston, sleeve, etc. needed, all parts considered. **CONTACT:** John at 973-919-0369

FOR SALE: Air Powered Press and Brake - \$300.00, Air Powered Transfer Pump - \$200.00 **CONTACT:** Don DoNofrio - 973-627-3706