
The NEMES Gazette

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The Newsletter of the New England Model Engineering Society

Available on the world wide web at <http://www.naisp.net/users/fisher/nemes.html>

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Our next meeting is at 7:00 PM on Thursday
5-Apr-2001 (first Thursday of every month) at
The Charles River Museum of Industry
154 Moody Street
Waltham, Massachusetts

Annual dues of \$20 covers from Jan to Jan.
Please make checks payable to NEMES and send to
our treasurer. (Address in masthead).

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The Editor's Desk

By Kay R. Fisher

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Every issue of the Gazette is now available on-line at our web site. This is due to the efforts of Bob Neidorff and Stephen Lovely who have been passing files back and forth over the Internet for the last several weeks. Also in the spirit of the "world wide web" - I am now including our web address in the masthead of every Gazette for quick reference.

Also in the spirit of a "high tech - red neck" I would like to make the Gazette available via email. This is an alternative distribution. If you elect to receive your Gazette via email you will **not** receive a hard copy. Some people have email accounts, which limit the size of email incoming that they can accept. This could be a problem. If, for whatever reason, you do not receive your Gazette, you will then have to get it off of our web site. If you would prefer to receive your Gazette via email send email to Rob McDougall and state whether you would rather receive it in Adobe Acrobat "PDF" format or Microsoft "Word" format. There are free readers available for these two formats for every operating system in the world. Rob's email address is in the masthead.

As requested in the back of the Gazette there is a registration form for the large EASTEC show

that is in the Big E in Springfield. If you use this form, admission is free. If you don't, it will cost you \$50 to get in!

In this month's Ramblings column, Max talks about a new type of tool and tool holder. I've got one of those "Diamond" tool holders and like it very much. Max said he would have one of these new ones in his pocket for everyone to see at the next meeting. I'm looking forward to it.

Kay

Model T Snowmobile Rally

By Mike Boucher

On February 24th, up in the wilds of New Hampshire, a unique event was held. The annual "Model T Snowmobile Club" meet was held. A special guest appearance was made by an operable 1915 Lombard Steam Log Hauler, one of 6 left in the world, and one of two running.

The Lombard is an 18-ton beast, looking like a cross between a saddletank steam locomotive and a snowmobile on serious steroids. Picture a Climax engine set parallel to the ground with a gear/chain drive to a caterpillar tracks as power, skis under the smokebox, and a 750-gallon water tank over the boiler, and you'll get the point... It requires two operators, one in the cab working the throttle, the other sitting in the cold in front of the smokebox steering the skis.



Lombard Steam Log Hauler

Photo by Errol Groff

My quote was "it looks like something that only could have been invented in Maine". However, the Lombard was the first application of

what are now known as "Caterpillar tracks", Mr. Lombard invented that technology...

For the model Ts, take off the front wheels and put on skis, add a non-powered rear axle in front of the original powered one, and sling thin cat tracks around the two wheels on each side. Once again, it results in a strange looking machine, but fundamentally cool! (BTW - this one was invented in Ossipee, NH)



Errol Groff & Model T Snowmobile Photo by Errol Groff

I got to the meet at about 11:00 am, and there were easily 150 people standing around in the cold weather (low 30s at best) watching and riding the Lombard and the Ts. There were about 10 Ts. The meet was held at a cross-country ski area, so there was a big open field to run around in. However, as the snow was pretty deep and dry, everybody stayed on established tracks.

Late in the afternoon, when the crowds had thinned down, I got my chance to run the machine. The man running it for most of the day is a longtime friend, so with one quick question I found myself climbing in the engineer's seat.

Working the throttle is very much like running a locomotive, you've got a Johnson bar, a throttle, drain cock lever, and the usual injectors, etc. When the steersman blows his whistle for forward, pull the throttle out and let her go. Listen for his signals for stop and reverse, and the rest is just worrying about keeping it going while the fireman watches the water and fire. I took one loop of the track, took about 15 minutes or so. Lotsa fun.

After that trip, I got to steer for a trip. This is a little more work. There's no power steering, but there is a double gear reduction, so you've gotta spin

the wheel a bit before the skis start to move. When moving, it wasn't too bad, but it still isn't easy. To take a tight corner, it takes a lot of effort to steer. It's also hard to hold the wheel in the turn as the skis constantly want to straighten out, or otherwise react to clumps of snow. Oh yeah, there's also no shelter, so you feel the wind. Your back is warm, as you're basically leaning against the smokebox front, but that doesn't help all that much.

BTW - steering the Lombard was the highest paid job in the logging camp, and also the one where you were least likely to survive to spend the money. Going downhill with a train of logs, steering with skis, and no brakes led to accidents. Someone said that they earned \$5 a day, when the next highest paid job earned \$4.

I finally left about 5:30, just after the sun went down behind the mountains to the west. The following NEMES members were spotted in attendance: Dick & Bea Boucher, Errol Groff & wife, Ron Ginger, Roland Gaucher, Larry Twaits, Frank Galeucia, and Philip Goodwin. All in all, it was a fun, albeit cold, day. Well worth the 2+ hour drive from Boston.

Mike



The President's Corner

By Ron Ginger

April Meeting

Our April speaker is Dr. Mario Motta, cardiologist, ex-President of the Amateur Telescope Makers of Boston and amateur astronomer extraordinaire. He has built an observatory with a 32" telescope and will be talking about what it takes to build a large "scope". Max has asked him to bring some of the pictures he takes with his "scope".

May Meeting

Our May speaker is Mr. Stan Gentry from Hibbing, Minnesota. Stan is doing what many of us would like to do. He is building a scale model of a mid 19th century steam locomotive. But Stan's locomotive will weigh 22 tons when complete. He is building a full size, standard gauge locomotive called the Lyon. The Union Iron Works in San Francisco built the original in 1869. The replica is being built at The Stasburg Railroad Museum in Pennsylvania. Come to our May meeting and hear about this interesting project.

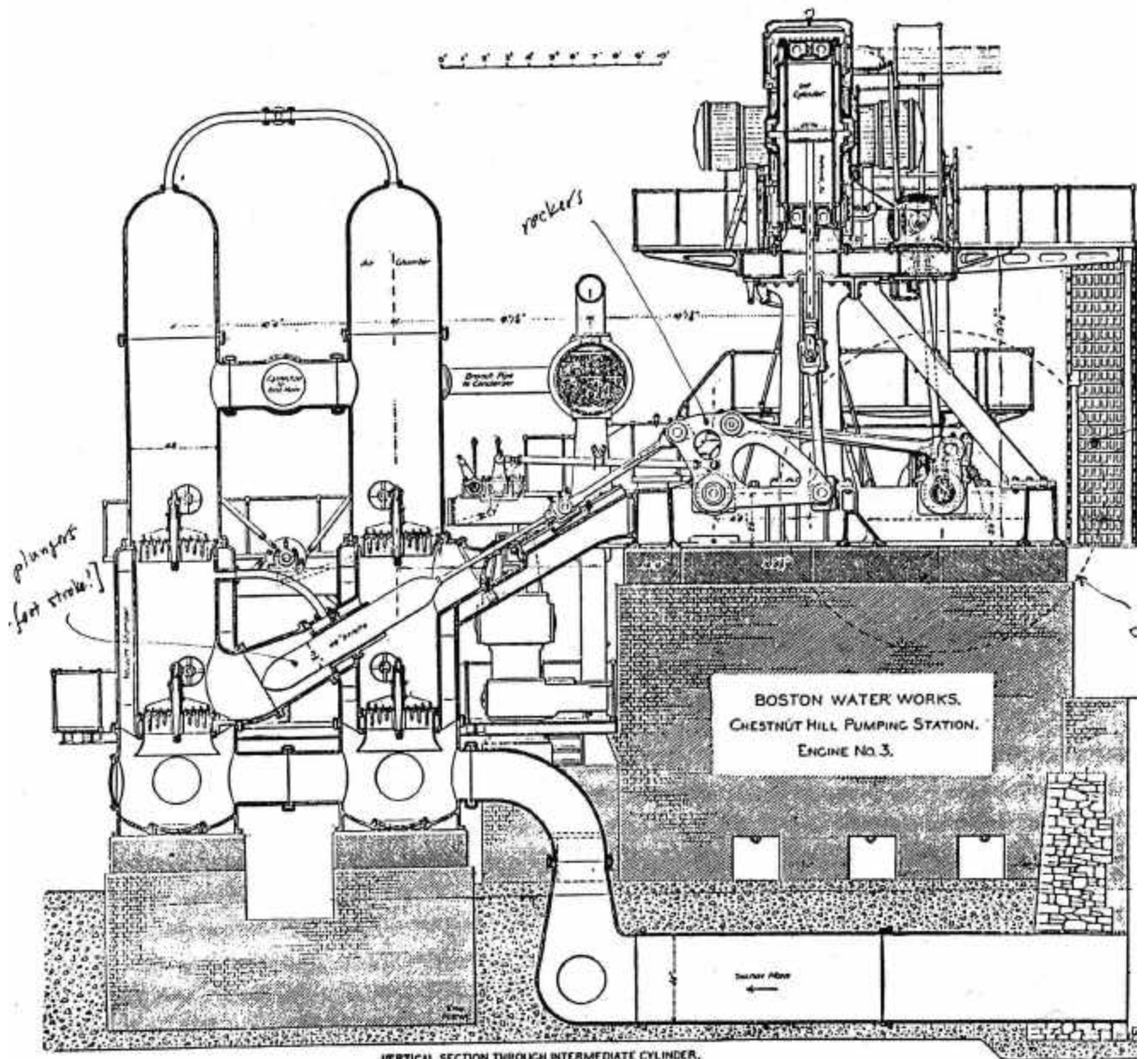
Waterworks Engine

One of the slides shown at our last meeting was a photo of a drawing of the Leavitt Pumping Engine. I asked Mr. Thomas if he could send me a copy of that drawing, and he did. We have included it in this newsletter. There are several very unusual items in this engine. I noted Mr. Thomas referred to it as a "Rocker Engine". The rocker is a bell crank like structure between the main piston rods and the crankshaft and pump. This gives it a 6ft piston stroke, but the crankshaft has only a 2 ft throw. Note also the crankshaft is not directly below the pistons, but offset by several feet.

The pump is a plunger type, with the plunger driven off the rocker with a 4 ft stroke. Note the pump slides on an incline. Note also the pump has valves like a corlis engine, instead of the usual "clack" type valve.

This is indeed a VERY unusual engine. I hope we do get to see it, and I look forward to more information on the development of this as a museum.

Ron



VERTICAL SECTION THROUGH INTERMEDIATE CYLINDER.
HIGH SERVICE PUMP, BOSTON WATER WORKS—SECTIONAL VIEW.

Boston Water Works Engine No. 3

Drawing Supplied by Didier Thomas



Treasurer's Report

By Rob McDougall

As of 02/28/2001

Balance as of 01/31/01:	\$3,455.72
Donations	10.00
Dues Received	500.00
NEMES Show Proceeds	348.95
Cabin Fever Bus Trip*	457.80
Interest Income	1.71
<u>Less</u>	
NEMES Show Expenses	
- Tables	-187.50
- Flyers	-49.88
Gazette expense	
- Copies	-118.08
- Stamps	-92.15
Balance as of 01/28/01:	\$4,326.57

* As mentioned last month, the net result for all expenses related to the Cabin Fever Bus Trip was a profit to the club of \$21.45

Unfortunately, 14 members did not renew their membership from last year. However, membership of the club continues to grow with a current total of 170 active members.

I have projected the club's income and expenses for the rest of 2001, which indicate we are just breakeven on cash flow with assets of \$2,500 in cash and a (missing/stolen) PA System. I am afraid I am going to have to risk my re-election potential as club Treasurer by recommending that dues be increased in 2002 to \$25.00. I don't believe the club should be dependent on selling coffee and donuts at the February Show in order to meet regular expenses. This is March so we have plenty of time to discuss the appropriateness, or not, of increasing the dues.

Rob



Random Ramblings

By Max ben-Aaron

The Pyramid Tool Holder

In a gas or a liquid the atoms and molecules move around randomly; in a solid they are constrained. In steel, for example, the atoms are usually organized in cubic structures, either body centered or face centered, according to the heat treatment the material received. Each atom can still move randomly, but only locally, around some fixed point in the cube. If some force is applied to the atoms and molecules, say by a magnetic field, the material may move, albeit very slightly. Molecules may move a bit more, if they are on the outside, at an air interface, say, having more degrees of freedom, as molecules at the cutting edge do.

Consequently, if a magnetic field is applied, perpendicular to the edge (and parallel to the upper face, say), there will be a slight tendency for the atoms and molecules to line up and, if enough time for cumulative effects to add up, viola, you have a sharper edge. This is the principle underlying "Pyramid Power". Skeptics who scoff at Pyramid Power do not understand the principle and misapply the technique so it is no wonder that their experiments fail. The pyramid will work for carbide tools, too, because they are also magnetic, but less so than high speed steel, so it takes a lot longer to see the effects.

Actually, only one face of the pyramid is necessary. This face should be perpendicular to the ambient magnetic field so it can act as a reference to line up the cutting edge with the appropriate orientation. Another face is needed to provide a shelf for holding the tool in the appropriate orientation. The other two faces are needed to

provide a total structure, which is a tetrahedron because it uses the minimal amount of material.

The pyramid should be made of aluminium, or brass, or acrylic or any other rigid structural material that is not ferromagnetic. Making it of iron or steel would shield the interior so no sharpening effect is possible. Use a compass to align the “working” face with a “line of force” and mark it when you establish a permanent position for the pyramid.

Happy sharpening. Remember: sharp tools make higher quality swarf, and more of it.

Mb-A

Robie Passivation Finish

By Dave Robie

At our show I was talking to a fellow (sorry I forgot who) and showed him an aluminum chimney stack I made for a steam engine and the nice perfectly even dull silvery finish on it. I said “bet you can’t guess how I did that finish.” Looked like a professional “natural” anodize but wasn’t - no wire marks or anything, perfect inside and out. Well he took a couple of guesses and I finally had to let him in on the secret. Afterwards he said “that’s a passivated finish. You ought to write it up for the Gazette.” So here goes.

I make up these stacks by the dozen lot for Jensen collectors and they can’t look new, as the last new Jensen that used one was in the late 50’s. This comes close to what their “NOS” looks like. What I do is flare a tube and dimension it, then put her on a wood mandrel and take out all “mill finish” imperfections, then give her a mirror polish using first, fine steel wool then “Magic wadding polish” (commonly called polishing wool). Residues of polishing are then removed using automotive brake cleaner - after which you don’t want to get a fingerprint on it just like with electroplating. Then comes the “trick”. I bring these upstairs and put them in the dishwasher. A couple weeks in there, changing their position each load of dishes and the combination of detergent, hot water, steam, and food residues with their multi-syllable chemical

additives does the trick, both rebuilding the oxides and sealing the pores.

I will be bringing a couple in so you can check out how this simple “no work to it” finish comes out. I have tried a lot of methods to achieve it and it’s the simplest and best looking I’ve found.

Dave



The Meeting

By Max ben-Aaron

The Meeting, March 1, 2001

The Venerable Ron Ginger opened the meeting, announcing that our sound system seems to have disappeared.

Eastec will be happening in Springfield at the end of May, and now is the time to register for it. You can register through the Internet at www.SME.org/Eastec. For the benefit of those not familiar with the net, we will reprint the registration form in the Gazette. If you pre-register you will save lots of money, time, and you won’t need to stand in line. It was proposed that we should try to organize one or more carpools for the trip to Eastec.

Bill Schoppe’s friend, NEMES member Phil Goodwin had a heart attack yesterday. We wish him a speedy, complete recovery.

Jim Paquette, who made a deal to acquire the whole lot, resolved the previously mentioned estate sale. We will have a chance to see and bid on items when Jim has his open house on May 19th.

A warm welcome to two new members, locksmith Al Kamishlian, and Rob Roy.

Don Strang is helping a young man restore a SB heavy 10 lathe. He would like to get a copy of the instructions for adjusting the headstock bearings. Can anybody help?

Don also went on a tour of the Sandy Pond electric power substation in Ayer, which handles 2000MW, receiving very high voltage DC and converting it to 3 phase AC using solid state inverters. Tours can be arranged. Don recommends it highly.

Chestnut Hill Water Pumping Station

Our speaker was Didier Thomas, who gave a talk, illustrated by slides, about the Chestnut Hill Water Pumping Station and the efforts to turn it into a museum. Mr Thomas, who is an architect, has been involved in the museum project for 5 years.

The Station and the reservoir property now belong to the Commonwealth of Massachusetts, under the aegis of the Metropolitan District Commission (MDC). The reservoir is no longer used as such, except as, possibly, an emergency water supply.

Deterioration through age has finally been halted by renovations to the shell, which is watertight once more. The State is paranoid about accidents happening to visitors, for insurance purposes, so it is not possible at this time to visit the building, but there will be an open house on May 20th (Historic Preservation Week) and visits may be possible.

It is proposed to turn the building into a museum, five years hence, with private development of the land around the reservoir providing for multiple use and public recreation facilities.

The property is close to the T, a cinema, restaurants, a swimming pool and a playground, so it would be a suitable locus for limited business development, proposed to provide an income stream to support the planned museum. It will take two to three years to formulate the development plan.

The building, which is on Beacon Street, was built in 1886. The facility was planned partly in response to the great fire of November 9th and

10th, 1872 that devastated the commercial district of the city. Water was pumped from Weston and held in the adjacent reservoir.

In those days civic pride was demonstrated by the construction of splendid public buildings (origin of the proverbial 'brick outhouse'?) As the slides showed, the outer shell of the handsome pumping station is stone and the roof is constructed of 3" thick black walnut sheathing, covered with Vermont slate. The sculptural detail is striking.

Boston city architect, Arthur Vinal, designed the pumping station in the Romanesque style of H.R. Richardson (architect of Trinity Church in Copley Square), which was in vogue at the time. Vinal took a 12 1/2% fee, much in excess of the customary 5%, and was fired as city architect as a result.

A railroad spur brought coal right to the water-tube boilers, which are still in place in the boiler house in the building. It is unlikely that the boilers will be able to raise steam when the museum opens, but it is hoped that the massive flywheels will turn, even if the engines have to be driven by compressed air.

The building was extended in 1896 to receive a triple expansion Allis-Chalmers vertical engine. The facilities were frequently upgraded.

Inside, in the Hall of Machines, pride of place belongs to a 575 horsepower Leavitt pumping engine (which is on the National Register) and its associated air chambers. Leavitt, who was a famous mechanical engineer, built many engines, but this is the only one that has survived. Its architecture is similar to a marine engine. When it was built in New York City, some of the castings cracked, so Leavitt arranged for replacement castings from Krupps in Germany.

The Smithsonian Museum has models of the engines, but either they were never finished or they were disassembled and now they are basket cases. If some permanent working space could be found, NEMES members might find it a long-term challenge to restore them. We certainly have the talent to do so, I believe.

After the meeting, a video about the pumping station's Corliss engine and Mike Boucher's videos of our club February 17th show and the Lombard logging machine were shown downstairs. Bravo Mike.

Mb-A

Our Annual February NEMES Show

by Steve Cushman

The February show went well, and we thank our Ladies Auxiliary for running the refreshment concession and raising over \$340 for us. Karen LeBlanc, the Museum Director, sent us the following letter thanking us for a great show.

Dear NEMES

Thank you so much for a fabulous show on February 17th. Because of your efforts, the museum made \$1,200.00 in income.

Thank you for all of your hard work!
We truly appreciate it!

Sincerely,

Karen M. LeBlanc and the Charles
River Museum of Industry.

At our show, we had a very special guest. Bob Mirriam, who for those who don't know, is the chief engineer, owner, and together with his wife Nancy, the eminence and moving force of New England Museum of Wireless and Steam in E. Greenwich RI. Among other accomplishments, Bob is credited with starting the first antique machinery show in New England many years ago. Bob went quietly around the floor greeting his "regular" exhibitors and you could see the pure enjoyment in his eyes as he checked out our wonderous wonders, our marvelous marvels. Bob did not actively promote his own show while there, but the Yankee Steam Up is a must for all who build small engines of any type - especially stationary steam - each year. Date is in early October and will be announced in this newsletter.



Roland Gaucher

Photo by Malcolm Anderson



Dave Stickler, Norm Jones Photo by Malcolm Anderson

2001 Door Prize List

NEMES is fortunate to have various corporate and individual sponsors contribute door prizes, which are raffled off to the exhibitors and workers for our annual show. Each year has brought a selection of interesting prizes, with this year having by far the largest selection of any show. We were privileged to have representatives from several of the contributing organizations at the show this year.

Over the years, we have tried several different techniques for managing the enrollment in the raffle and for managing the drawings. Max ben-Aaron has been instrumental in insuring proper

enrollment. For the last two years, a child visiting the show has performed the drawings and this has worked out very well. This year the generous sponsors and lucky winners were:

Tool Shed (Waltham)

\$25 Gift Certificate: Dave Robie

Tool Shed (Pawtucket)

\$25 Gift Certificate: Fred Jaggi

LS Starrett

Precision Tape: Leslie Russell

Precision Tape: Norm Jones

Precision Tape: Steve Cushman

New England Brass & Tool:

Mini Micrometer: Max ben-Aaron

Mini Micrometer: Ron Winship

Dial Caliper: Dave Stickler

Letter Drill Set: Ed Wylodyka

Measuring Set: Phil Goodwin

Wall Chart: Rob McDougall

Wall Chart: Pat Fisher

Wholesale Tool

Dial Indicator: Bill Brackett

Dial Indicator: Dick Boucher

Dial Indicator: Jeff DelPappa

Dial Indicator: Beatrice Boucher

Dial Indicator: Ryan Hunter

Dial Indicator: Steve Peters

Dial Indicator: Greg Hunter

Dial Indicator: Tom Ritchie

Dial Indicator: Rich Hubbard

Dial Indicator: Herb Cotterly

Brothers Machinery

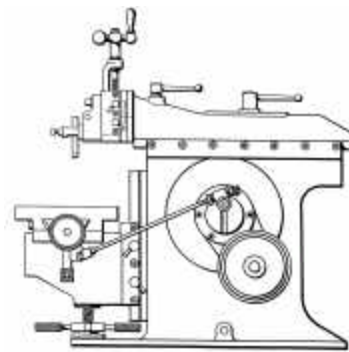
\$300 Gift Certificate: John Wasser

Richard Sobel

Machine Tool Sweatshirt: Rich Puleo

Machine Tool Sweatshirt: Joe Warfel

Steve



Metal Shapers

By Kay R. Fisher

Another good question recently came up on the Internet. “My clapper doesn’t clap. What should I do?” The clapper box must clap. That is about the only complex thing that a shaper does.

If it doesn’t clap then something is wrong and it has to be corrected. The first thing you could do but should never do is make it clap with your finger. Your fingers should never be near the clapper box when it is in operation. If you push down on it during the return stroke you can manually make it clap. Never, never do this. If you find yourself tempted remember that you are about to violate a safety rule instead of doing the smart correct thing.

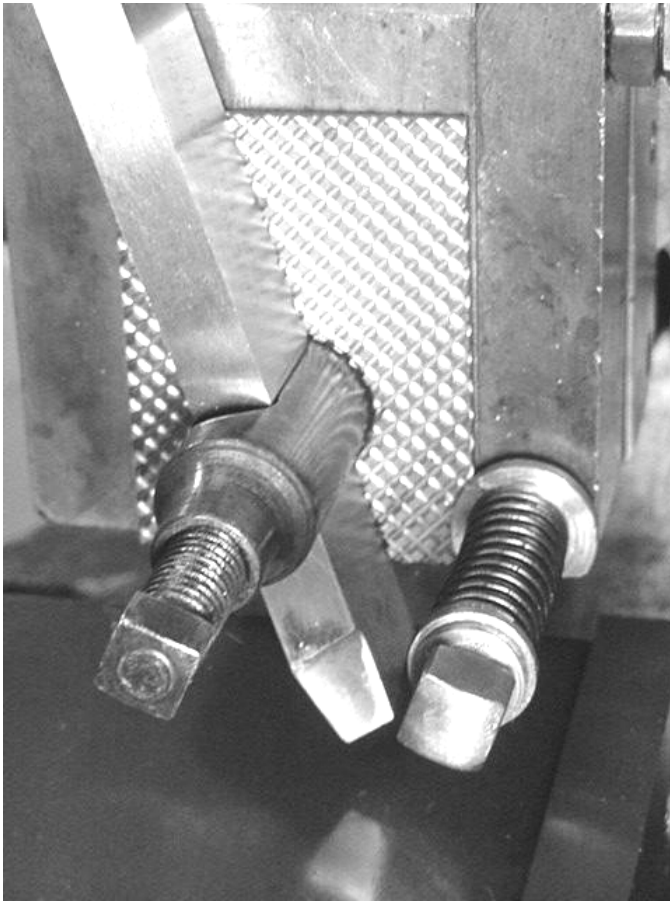
The clapper box might simply have some stray swarf in it and need to be cleaned out. Most clappers are held in place with a simple taper pin. Just knock out the pin and clean the clapper box out. It might be binding because it needs lubrication. If so add some – a little machine oil will do.

Frequently, clapper boxes that work perfectly well in the upright position will fail to clap when they are tilted at angles for dovetail cuts or simply for vertical cuts.

If freeing up any binding fails to get your clapper box clapping, then consider adding some weight to the end. If you hang a donut of lead weight on the end of the clapper it will usually clap. Be sure the weight is somehow secured to the tool holder so that it doesn’t just get launched into your face. Sometimes simply repositioning your tool so that it extends further out of the tool holder repositions the weight sufficiently to cause proper clapping action.

Logan shapers come with a spring attached to the clapper box and a washer with a flat spot so

that the spring can be effectively removed from the clapper action if and when desired.



Clapper Box Spring Photo by Pete Schaeffer

Sometimes your clapper box can clap too well. I was recently making a cut across 2 inches of aluminum and the darn clapper was making a dent in the work piece almost exactly in the middle of the return stroke. When this happens you are probably doing something wrong – I was. If your tool travels past the work piece too far during the ram return stroke the tool hits the work piece with too much speed. This causes the clapper to take a big bounce and (as in my case above) it can actually damage the finish. A properly adjusted shaper stroke should only cut ¼ to ½ inch past the end of the work piece.

Pete Schaeffer recently posted details on the Internet for remanufacturing his return spring on a Logan 8" shaper. With his permission we have two pictures illustrating his clapper box return spring assembly and the following explanation:



Clapper Box Spring Parts Photo by Pete Schaeffer

“The spring is ten turns of .065" piano wire, wound on a 5/16" mandrel and then stress relieved for an hour at 500 degrees F. It's about right.

“The bolt is about 1-3/4" long, threaded 1/4-20. Its head is 7/16" square, allowing it to be turned with the same wrench that is used on the tool post. This also allows the bolt to be turned from 1/2" stock.

“The small top collar turns out to be unnecessary, since there's a collar turned right into the bolt head. Still, if the spring had turned out to be a little wider, it would need that top collar to retain it.

“The bottom collar is wide enough to catch the edge of the clapper, holding it shut after the backstroke. There's a flat milled on one edge of the collar, which lets me release the clapper from spring pressure without having to remove the whole spring assembly. I just twist the collar so that the flat is over the clapper, giving clearance.

“Top and bottom collars are a sliding fit on the bolt. They could also have been made a close fit on the inside of the spring, too, but I made them before making the spring. It's tough to predict what the final diameter of a spring is going to be.”

Thank you, Pete, for that info. As you can see, Pete is not only doing good work on shapers but is also a good communicator and photographer. I hope to have more of his input in future columns.

Kay



Calendar of Events

By Bill Brackett

March 30 – April 1

The Massachusetts Woodworking Show
Eastern States Exposition – Young Building
West Springfield MA
(800) 826-8257

April 5, 2001 Thursday 7PM
NEMES Monthly club meeting
Waltham, MA

Charles River Museum of Industry (781) 893-5410

April 15 Sunday 9AM
MIT flea market Albany and Main St.

The MIT flea market is the third Sunday of every month from April through October. For 2001 that's April 15, May 20, June 17, July 15, Aug 19, Sep 16 & Oct 21. Corner of Albany and Main St. Opens 9AM, usually has a line up to get in at 9. Admission is about \$4, with \$1 off if you bring a copy of the flyer from the last month.

April 28-29
NAMES Meeting
Wyandotte, Michigan
General info EMAIL egl@flash.com
<http://www.loganact.com/names/>

May 3, 2001 Thursday 7PM
NEMES Monthly club meeting
Waltham, MA
Charles River Museum of Industry (781) 893-5410

May 6
Dunstable Show
Dunstable, Ma.
Call: Jay Wilkie (207) 748-1092

May 12-13
SSAAC swap meet

May 12-13 Antique auto parts swap meet

Mansfield MA (508) 947-6600.

From the pen of David Robie: Here's an interesting and unusual event, which might be just the thing for the "junkyard engineer" that lurks within the hearts of many of us. The South Shore Antique Auto Club runs the largest "antique auto parts swap meet" anywhere in New England. This is right in our backyard at Tweeter Center (formerly Great Woods) off Rt. 495 in Mansfield MA. If you are looking for a carb for a 1939 Graham, or an acetylene headlight, or parts for 60's muscle cars, here's where to go. However, this writer has found all manner of other goodies in tools, equipment, and general metal related craziness at this show. Bring your best walking shoes because it's huge. Many people also bring garden carts, 4 wheel "radio flyers" etc. to lug away the bargains. The place is a Mecca also for such as Chinese 'flea market' air tools and other related new items. Warning, this show is as addictive as the MIT flea market, it might inadvertently become a habit.

May 19 9-2PM Open house
114 High St. Uxbridge, MA
Jim Paquette (508) 278-2203

May 19-20
So Carver Ma. At Edaville RR
Cranberry Flywheelers
Dave Robie (781) 335-5322

May 20 Sunday 9AM
MIT flea market Albany and Main St.

May 22-24 Tues-Thur
Eastec 2001 W. Springfield MA
See www.sme.org/eastec or the attached form for free registration before May 4

May 27 Fiddlehead Auto Festival
Owls Head Transportation Museum
Route 73 Owls Head, ME (207) 594-4418

To add an event, please send a brief description, time, place and a contact person to call for further information to Bill Brackett at wbracket@ultranet.com or (508) 393-6290.

Bill



For Sale

Logan Shaper

8" variable speed. This is a quite modern machine in very good condition. May be seen in operation. \$575

Leo Klos (978) 465-1960 home
(978) 282-2628 work
email Leo.Klos@vsea.com

Seneca Falls Lathe

Turn of the century Seneca Falls lathe in very good condition with lots of accessories. Price is very negotiable for person willing to give this machine a good home. Jim Paquette has pictures and can put serious parties in touch with the owner.

Jim Paquette (508) 278-2203
email uxtoolman@netzero.net

Burke #4 horizontal mill

It is a bench miller with a knee, on a substantial cast iron stand. The table is 4" x 16", B&S #9 taper tooling, with power traverse, many arbors and lots of tooling. \$300

Max ben-Aaron (781) 275-7257

B&S #9 taper milling machine tooling

Leon Schiff was kind enough to give me some milling machine tooling with Brown and Sharpe tapers. One of our members, who has a machine with B&S #9 taper, approached me and asked if he could share the wealth. I have no idea

who he is, and I have not seen him at the last few meetings. I wish he would come forward, as I have been carting his share around in my car for too long already.

Max ben-Aaron (781) 275-7257

Clausing 8520 vertical mill

Single phase with many collets. \$550

Leo Klos (978) 465-1960 home
(978) 282-2628 work, leo.klos@vsea.com

Thanks

I'd like to thank those members who were kind enough to answer my request for info on the 6" Craftsman lathe-Don Strang, Paul Gunther, Leo Klos, Frank Stauffer, and one other gentleman whose name I failed to get. Thanks again for the help.

Howard W. Evers

Web Sites of Interest

NEMES home page

<http://www.naisp.net/users/fisher/nemes.html>

New England Museum of Wireless and Steam

<http://users.ids.net/~newsm>

Small Parts Inc.

<http://www.smallparts.com>

Marv Klotz's Utilities home shop, mathematical and utility software.

www.geocities.com/CapeCanaveral/Hall/4425/#shop

Bob Cumings - New England Brass and Tool.

<http://www.BrassAndTool.Com>

Eastec vendor show

<http://www.sme.org/eastec>

Carl R. Toltz's Company "Wings and Wheels Collectibles" that specializes in diecast model airplanes.

<http://www.wingsandwheel.com>

EASTEC Registration Form

EASTEC
ADVANCED PRODUCTIVITY EXPOSITION **2001**

Show Registration Form

Photocopy this form to register your entire team.

Registration Deadline: May 4, 2001



- SME Members: On-site registration is **FREE** with your valid member card.
- **FREE** show registration with this form if received by **May 4, 2001 (\$50 Value)**
- After **May 4, 2001** bring this form on-site; pay the show registration fee of **\$50**.
- Forms received after **May 4, 2001** will not be processed.

ON-LINE: www.sme.org/eastec
 Enter Web Code **3** when completing the on-line form
FAX: (301) 694-5124
MAIL TO: EASTEC # 2001
 ExpoExchange, LLC
 P.O. Box 3918
 Frederick, MD 21705

You will receive a confirmation within 5 business days of receipt of your completed registration form.
 If you register on-line or via fax, **DO NOT** mail this form
 No one under 18 admitted.

CODE: **82** **83** **84** **85**

PLEASE PRINT

A Mr. **B** Ms.

Name _____

Title _____

BUSINESS ADDRESS REQUIRED

Company _____

Division _____

Address _____

Mail Stop _____

City/State/Zip _____

Postal Code/Country _____

Phone () _____

FAX () _____

Email _____

Yes, send me information on related products/events.

Please call 800.733.4763 should you require special assistance.

1. Check your ONE primary job function:

- | | |
|--|--|
| 1 <input type="checkbox"/> Job Shop Owner | 6 <input type="checkbox"/> Product Design, R&D |
| 2 <input type="checkbox"/> Corporate Executive | 7 <input type="checkbox"/> Factory Automation |
| 3 <input type="checkbox"/> Manufacturing Production | 8 <input type="checkbox"/> Purchasing |
| 4 <input type="checkbox"/> Manufacturing Engineering | 9 <input type="checkbox"/> Other |
| 5 <input type="checkbox"/> Quality Assurance/Control | |

2. Check the number of employees at your facility:

- | | |
|---------------------------------------|---|
| <input type="checkbox"/> Less than 20 | 4 <input type="checkbox"/> 250 - 499 |
| 1 <input type="checkbox"/> 20 - 49 | 5 <input type="checkbox"/> 500 - 999 |
| 2 <input type="checkbox"/> 50 - 99 | 6 <input type="checkbox"/> 1,000 - 2,499 |
| 3 <input type="checkbox"/> 100 - 249 | 7 <input type="checkbox"/> 2,500 and Over |

3. Indicate the technologies you plan to evaluate at the show:

- | | |
|---|--|
| A <input type="checkbox"/> Assembly Equipment | O <input type="checkbox"/> Machining Centers |
| B <input type="checkbox"/> CAD/CAM Systems | P <input type="checkbox"/> Metal Cutting Saw |
| C <input type="checkbox"/> Chucks & Fixtures | Q <input type="checkbox"/> Milling Machines |
| D <input type="checkbox"/> Cleaning Systems | R <input type="checkbox"/> NC/CNC/DNC |
| E <input type="checkbox"/> Conveyors/Material Handling | S <input type="checkbox"/> Press Brakes & Shears |
| F <input type="checkbox"/> Coolants & Lubricants | T <input type="checkbox"/> Punches & Dies |
| G <input type="checkbox"/> Cutting Tools | U <input type="checkbox"/> Quality/Measurement Systems |
| H <input type="checkbox"/> Deburring/Surface Conditioning | V <input type="checkbox"/> Robotics |
| I <input type="checkbox"/> Drilling/Tapping | W <input type="checkbox"/> Safety Equipment |
| J <input type="checkbox"/> EDM | X <input type="checkbox"/> Screw Machines |
| K <input type="checkbox"/> Flexible Mfg. Systems/Cells | Y <input type="checkbox"/> Stamping |
| L <input type="checkbox"/> Grinding/Abrasives | Z <input type="checkbox"/> Turning & Boring |
| M <input type="checkbox"/> Injection Molding | AA <input type="checkbox"/> Welding Systems |
| N <input type="checkbox"/> Laser Systems | |

4. Indicate your department's total budget for Machine Tools & Metalworking Technologies during the next 12 months:

- | | |
|--|--|
| A <input type="checkbox"/> Up to \$20,000 | E <input type="checkbox"/> \$500,001 - \$1,000,000 |
| B <input type="checkbox"/> \$20,001 - \$50,000 | F <input type="checkbox"/> \$1,000,001 - \$5,000,000 |
| C <input type="checkbox"/> \$50,001 - \$200,000 | G <input type="checkbox"/> Over \$5,000,000 |
| D <input type="checkbox"/> \$200,001 - \$500,000 | |

5. Classify your company:

- O Original Equipment Manufacturer
 S Contract Manufacturer/Job Shop
 N Neither

Please send/continue to send **MANUFACTURING ENGINEERING** free of charge:

Yes No

MANUFACTURING ENGINEER
 The Leading Source
 Metalworking Techno...

Signature _____ Date _____