



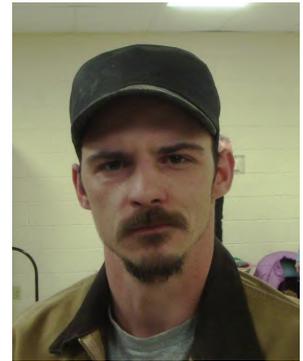
Next Meeting
March 7, 2013 6:30 PM

Learn & Turn 5:00 PM
 Small Natural Edge Bowls
 Frank White

Demonstration
 Bowl in a board
 Jerry Sambrook

President's Message—John Mills

Hard to believe one quarter of my term as President is almost past. Time marches on. In light of that, we should be thinking about things that we want to do in the future as a club. Field trips? Pizza night? Club projects? The reason I like this club so much is because there is something new with every turn. So, put your thinking caps on and let us know what might blow your hair back.



Jerry has a few big name turners coming in the pipe line so we should be in for another great year thanks to his diligence.

Reid, thanks for stepping up to the plate to fill in for Jerry with your nice demo on jewelry.

I hope to see everyone on March 7th.

Keep your mind and your tools sharp.

John Mills

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2013 DUES PAYABLE NOW



Join or Renew your membership for 2013. Pay at the March meeting, on line by credit card or paypal at the CNEW website under "join/renew" or mail to Todd Heino (see page 8)



Minutes January 3, 2013 Meeting

Eric Holmquist

- ◆ Visitors/New Members
Fred Leek, Janis Peteusor
- ◆ Previous minutes accepted
- ◆ Treasurer

Start	\$5,023.41
Income	\$585.00
Expense	\$654.00
Closing balance	\$4,954.41

 Treasurer Report Accepted.
- ◆ Need to send out email to remind members to pay 2013 dues
- ◆ External VP
Jerry Sambrook demo rescheduled to March mtg.
Lots of nice cherry for raffle and silent auction
- ◆ Learn and Turn
March-pens
April-Natural Edge Bowls
May-Inserts and bowl tops
- ◆ Steve Reznek described a group of 11 members who gather every 4th Thursday to collaborate on turning projects
- ◆ Internal VP
September—Ashley Harwood demo—Originally scheduled for 12th, may change due to Big E schedule
- ◆ Bill Leclerc thanked everybody for their help at the woodworking show in Springfield
- ◆ Motion passed to authorize Virgil to acquire some additional equipment for the mini lathes, including a new chuck—Budget \$500
- ◆ Howard to investigate new cameras for the demos and report at next meeting
- ◆ Ray Asselin proposed upgrading the booth materials (display stands, smocks, signs, etc.) for future shows.
- ◆ Eric Holmquist will help gather information and present at a future meeting



Shopsmith Mark V

Five in one multipurpose tool
– excellent condition-
moderate hobby use

10” Table saw

34” lathe

16 ½” drill press

12” disc sander

Horizontal boring

Additional major tool

attachments:

12 “ thickness planer

Jig saw – virtually new condition, almost no use

Misc. attachments:

Rip fence, Extension table, Two 10” saw blades

Jacobs chuck, Lathe tool rest—straight and curved

Two lathe face plates, Tail stock, Mortise hold down

Shaping guard, Lower blade guard, 12” disc sander

Jig saw blades, Other misc. items

Equipment manuals

If purchased new, Mark V, 12” planer, scroll saw are currently about \$5475 plus shipping, not including other misc. accessories.

Perfect for someone wanting several quality tools, but doesn't have the space or want to spend large sums of money

Everything \$850

Purchaser must be able to remove from basement and provide truck

Contact Art Bodwell, Holden, MA
abodwell@charter.net, 508-829-9951





Making Hook Tools

(or loading wood into a wood stove) by Ray Asselin

On a brisk January morning, CNEW members Bill Leclerc, Arnie Paye, and Bob Labrecque showed up at my shop door. Why? Well, a few days earlier, I had decided to order some 3/8" drill rod to make a couple hook tools, and had emailed them to see if they'd like me to order rods for them too at the same time. All three replied "sure, as long as that includes a visit to your place to make the tools". So there they were, shivering, all looking to me to be an expert hook tool maker and teacher. It's amazing how guys can get that far through life with such naiveté.

At any rate, we plodded ahead with the project. Hook tools have been around a long time, and make quick work (and fun!) of hollowing end grain.

The first step was to load more wood into the stove. Then we tested the hypothesis that the radiated heat one feels from a wood stove drops off exponentially with the distance one is from the stove. Closer was remarkably better.

The second step actually involved working on the tools- cut the drill rod to the desired length. Next, using an angle grinder (or coarse paper on a disc sander), grind flats on opposite sides of the rod to form a "V" profile, about 1.5 inches long. The apex of the "V" will become the cutting edge of the hook. The O1 (oil hardening) drill rod comes in a softened state, so it can be cut with a hacksaw (or better, a reciprocating saw), then hardened.



Bill Leclerc grinds flats (inside/outside bevels) onto drill rod.



Bob Labrecque files inside bevel smooth.

After grinding to rough shape, the bevel that will become the inside of the hook is filed to a nice, smooth, flat surface; that makes it easy to hone that surface when sharpening the hook.

Then we loaded more wood into the stove. Next we heated the ground portion of the rod to cherry red with a propane torch, and bent it into a hook shape with pliers.



Heating rod cherry red, preparing to bend hook.



Bending completed.

We then re-heated the hook to cherry red and plunged the heated end into oil (the finest olive oil found in the kitchen cabinet) to quench it (rapidly swirling it in the oil until cool). Quenching hardens the steel, but leaves it too brittle; it needs to be tempered to relieve the brittleness. (Quenching in *olive oil* also makes the shop smell like a lucrative day in a Mediterranean galley).



Arnie Paye sands/polishes discolored hook, prior to tempering.

But before tempering, we needed to load more wood into the little potbelly stove. Someone better be appointed to keep that thing dispensing the BTU's required to keep fingers functioning.

Ok, on to the tempering. Using a 320-grit sanding disc chucked in the drill press, we polished off the black residue left on the steel by the quenching step. This restored the steel's natural gray color.

The object of tempering is to carefully bring the O1 steel to about 400 degrees or so to lessen the brittleness, otherwise the tool could easily be broken (go ahead, ask me how I know that). There are a few ways to do this. One way is to heat the steel with the torch and watch the progression of color changes in the steel; when the area to be tempered shows the slightest change from steel-silver to light straw, it's done. If it's overheated (color going to darker straw or blue), it will be softened too much and won't hold an edge well (in which case, you repeat the hardening and tempering steps). In order for the colors to be visible, the steel has to be its natural gray color when you start heating it, which is why we polished it with 320 paper first.

Another, safer method is to put the piece in an oven at 400 degrees for a while (a half-hour?). The third method, which we used, is to rub a "Tempilstik" on the area to be tempered, then slowly heat below that area with the torch, letting the heat migrate up the steel toward the end to be tempered. When the rubbed area begins to smoke, it has reached the temperature the Tempilstik is rated for (we used a 400-degree Tempilstik). The crayon-like sticks are available at welding or industrial supply houses, and come in a range of temperature ratings.

Once the tempering was completed, it was time to, um, load more wood into the stove. And have hot cider. And for Bill to take a nap.



Bill sharpening hook on the grinder.

What remained to be done next was to finish-grind an outside bevel on the hooks to sharpen them, and to hone the inside bevel. At this point, we loaded more wood into the stove, and inserted the hook tool into a handle. Then all we had to do was load more wood into the stove, and give the tools a try.

Test cuts made it apparent that some of the outside bevels we had ground were too shallow, making it difficult to engage the cutting edge. So, all we had to do was load more wood into the stove and regrind the bevel to a steeper angle. The hook tool is essentially the working end of a gouge, with a handle attached to its side instead of at its back end. It works, and is used, the same way as a gouge- with the bevel rubbing. So the angle of the bevel affects the presentation angle, and the ease or difficulty of use.

When all was said and done, we each had a hook tool. Some good, some needing tuning. But at least everyone now understood the process of making one, and how easy it can be to heat treat a piece of tool steel (that alone opens up many other tool-making possibilities).

And now I need to go load more wood into the stove, Ray.



Bill yawns, preparing for nap near



Tempering. Heat slowly, watch for light-straw color on the hook.



Arnie testing completed hook.



Arnie regrinds bevel angle; Bob and Bill discuss who's going to load more wood into the stove



Completed hook cutting red oak end grain.

For Sale:

Nova 1624-44 lathe. Used very little and in great condition (about 20 hours). Includes stand, live center, spur drive, hand wheel and tool rest. Also includes Schuco model 130 vacuum pump. Located in Orange, CT.

\$950

Just bought a Robust, I no longer need my Nova lathe.

Contact:

Michael Ginsberg, 203-671-7329,
ginzie236@sbcglobal.net



MONTH	LEARN N TURN	DEMONSTRATION
JANUARY	xxxx	Lidded Boxes
	xxxx	Rick Angus
FEBRUARY	Simple Finials	Bowl in a Board
	Richard Hunt	Jerry Sambrook
MARCH	Small natural edge bowls	TBA
	Frank White	TBA
APRIL	Pens	Tentative—Segmented designs
	Todd Heino	Buzz & Dominick
MAY	Inserts in bowl tops	Sphere Jig
	??	Alan Ginsberg
JUNE	TBA	Jam/Vac chuck/sanding tech.
	TBA	??
JULY	TBA	Elements of design
	TBA	W. Hunt, F White, R Angus
AUGUST	Spin tops	TBA
	Mike Smith	TBA
SEPTEMBER	No learn and turn	Outside presenter
	TBA	TBA
OCTOBER	TBA	Off center box
	TBA	Reid Gilmore
NOVEMBER	TBA	Mini Vessels
	TBA	Frank White
MAJOR DEMONSTRATORS		

Demo Reid Gilmore



SHOW & TELL



Central New England Woodturners

A Chapter of the American Association of Woodturners



Officers for 2013:

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External VP: Reid Gilmore, Upton MA 508-603-1248, reid.gilmore@umassmed.edu

Treasurer: Todd Heino, Natick MA 508-736-1117, tvheino@comcast.net

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Video Equip. Steward: Mike Smith, Hopkinton MA 508-435-4715, mike@westboromachine.com

Club Store Manager: Kevin Nee, W. Boylston MA 508-835-4301, kpni@charter.net

Big Name Demo Coord: Jerry Sambrook, Southwick, MA 413-262-5051, jsambrook@comcast.net

Club Project Coord: Steve Reznek, Concord MA 978-287-4821, stevenreznek@comcast.net



Membership

To join or renew membership, please complete the form below and a check made payable to CNEW and bring it to a CNEW meeting, or pay

online at the CNEW website under "join/renew" or mail to: Treasurer, Central New England Woodturners

c/o Todd Heino, 148 Howe St, Natick, MA 01760

Membership Application

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Treasurer, Central New England Woodturners

c/o Todd Heino

148 Howe Street

Natick, MA 01760

Annual dues: \$30 including e-mail delivery of newsletter; \$35 for postal delivery of newsletter.

Name: _____

Please check appropriately below

Street: _____

New Member

City: _____

Returning Member

State: _____ & Zip: _____

e-Mail Newsletter (\$30.00)

e-Mail: _____

Snail Mail Newsletter (\$35.00)

Please let us know of your interests:

How long have you been turning? _____

What programs would you like to see at meetings? _____

Would you like to demonstrate at a meeting? Yes/No If so, what topics do you offer? _____
