Small Group Meeting Reports
February General Meeting
The Calculating Woodworker

Alan Breed named recipient of SAPFM Cartouche Award
We have come a long, long way!

This is my second issue since I have resumed responsibilities for editing The Old Saw, a task I first had over 10 years ago. There are some very striking differences over this period of time, and I have to say they are all pretty positive! The Guild has grown a lot in this period of time just about doubling in size. Our communications have made tremendous progress with the development of The Journal, a first class publication by any account; the transition of The Old Saw to an on-line publication; and a website that is rich in content and interactive, with member galleries, blogs, forums, and the ability for members to manage their own membership data.

Perhaps one of the biggest changes the organization has seen is the growth of our sub-groups. These groups meet the special interests of our members no matter if it be woodturning, period furniture construction, hand tools, design, woodworking fundamentals, boat building, or luthiers. Many of our members belong to several of these groups but for others there interest is more specialized. One of my objectives with The Old Saw is to report on all of the activities taking place in the Guild so that our members have a broad view of all that is going on. Perhaps reading about the activity of a sub-group might spark a new interest for you in another area of woodworking.

Another change that is significant to me as editor has to do with content for The Old Saw. Ten years ago, it was often a struggle to fill the pages of the newsletter, and at times it was a challenge to get members to contribute articles. I am pleased to say that is not a problem any longer. I hope you find something of interest in every issue, and I encourage you to drop me a note with suggestions for topics or articles, and contributions of articles are always welcome.
The BIG Group takes on a BIG Project: Wall Mounted Tool Cabinet

Furniture Master and Guild mentor Tom McLaughlin has been leading an enthusiastic group of members from the BIG (Beginner Intermediate Sub-Group) in the design and construction of a wall mounted tool cabinet. This project follows on the heels of last year's project where Tom lead the group in the construction of a chest of drawers.

Tony Kiburis has been doing a terrific job of capturing the entire process in a series of photographs and within the next couple of weeks these should be available in a Guild Gallery and on the BIG sub-group blog. In the next issue of the Old Saw we will discuss in greater depth the project and the progress that the members are making.

The BIG group meets every other month (check the Guild calendar on-line for the latest updates) and work on this project took place during the October 1st and December 3rd meetings. Once again, we are grateful to a master such as Tom who is so generous with his knowledge skills, and time.

Photos by Tony Kiburis

Cover Photo: Alan Breed, well known to many Guild members is shown demonstrating the carving process for a Newport tea table. Al was recently named the SAPFM Cartouche Award recipient. See the full story on page 12.
February Meeting

The Programs Committee has a great meeting prepared for February. The morning will start with the usual social half-hour followed by a talk and discussion by the Guild’s Period Furniture Group. The PFG will update us on their exciting project of building a reproduction Townsend Document Chest under the guidance of Al Breed. The Guild would like to thank Al for his hard work with this group. We ask the sub-groups to present at the general meetings to inform the membership and to encourage members to join the sub-groups.

Catherine Green is the Standards and Education Manager for The League of New Hampshire Craftsmen and she will present following the Period Furniture Group. She will talk about the application and jury process used to become a juried League member. If you are planning on becoming a League member, this is a must see!

Following our business meeting and lunch, we will move to the main event. Jeffrey Roberts is a period furniture maker from Unity, NH who is inspired by 18th century furniture. Jeff works using traditional methods and is an exquisite woodcarver. He will have a presentation showing photographs of a number of pieces and then demonstrate carving on a ball and claw leg. Jeff is League of New Hampshire Craftsmen member and has received The Best in Wood Award and The Peoples Choice Award at the Sunapee Craftsmen Fair in 2008. He is a graduate of The North Bennett Street School and is a Guest Artist of The New Hampshire Furniture Masters Association. You can view Jeff’s work on his website: http://www.jsrobertsfurniture.com

A meeting well worth your time, and nicely dovetailed, in the traditional art of 18th century Cabinetmaking!

To Scott Russewick’s shop

Exit 18 off of I93

Turn Right on West Road

Take 3rd Right onto Intervale Road
February 18, 2012, General Guild Meeting.

Scott Russewick’s Shop
222 Intervale Road
Canterbury, NH

Schedule

9:00 - 9:30  coffee and social

9:30 - 10:30  Period Furniture Group discussing the Townsend Document Chest project

10:30 - 11:30  Catherine Green - Process of Becoming a juried member of The League of NH Craftsmen

11:30 - 12:00  Guild Business Meeting.

12:00 - 1:00  It is suggested that you bring a lunch as there are no nearby restaurants.

1:00 - 3:00  Jeff Roberts, a period furniture maker and NH Furniture Master will show a retrospective of his work followed by a carving demonstration

Photograph from furnituremasters.org
Woodworkers face fractions in every part of their work. Our rulers divide inches into fractions: quarters, eighths, sixteenths and maybe thirty-seconds. Some scales even go to sixty-fourths, but few build furniture to that precision. We also encounter fractions in buying our stock, whose rough-sawn thickness is specified in quarters of an inch: 4/4, 6/4, 12/4, etc. We usually reduce these fractions to their whole or mixed number equivalents: 1”, 1 1/2”, 3”.

Woodworkers use a special set of fractions which simplify calculations. We will limit our discussion here to this special set.

**Inches and Fractions**

The basic unit of measurement for woodworking is the inch. The origin of the inch is generally related to human body parts such as one twelfth of the Roman foot, or the width of the thumb at the base of the nail. In 1959 the United States and British Commonwealth defined the inch as 25.4 millimeters. Inches are indicated by the double quote symbol “, but we will omit it in the following calculations for clarity.

When you measure the length of a board, it is either an exact number of inches, say 14, or there may be an additional piece whose length is somewhere between zero and one inch. This additional piece is a fraction of an inch in length. The total numerical measurement consists of two parts: the whole number of inches and the fraction. For example the length, 14 7/8 has 14 as the whole number and 7/8 as the fractional part.

Let’s look at just what a fraction is telling us. A fraction consists of two numbers written, for example, as \( \frac{5}{8} \) or 5/8 which are equivalent. The 5 is called the numerator and the 8 is called the denominator. The line indicates the operation of division, such that this fraction has the decimal equivalent of 0.625. We will discuss the conversion of fractions to decimals and their use in a later article.

The denominator indicates how many equal parts the inch unit is divided into: 2 equals halves, 4 equals quarters, 8 equals eights, etc. The numerator indicates how many of these equal parts make up the desired length. So in the case of 5/8 the fraction tells us that the total length is made of five lengths, each one-eighth of an inch long. The more accuracy you need in your measurement, the larger will be the denominator in order to divide the inch into smaller individual pieces.

The section of the ruler below shows one inch divided into eighths.

![Ruler Example](image)

We can now use this ruler to examine relationships between different fractions. The length from the left end of the rule (zero) up to one inch can be determined by counting the number of 1/8 segments. As an example, we will measure the thickness of the board shown above.

The thickness spans just five 1/8 segments, so we can express this as a fraction where the numerator is 5 and the denominator is 8; 5/8 of an inch.

If the board were only 1/2 inch thick, then using the same counting, the fraction would be 4/8. But we change that to 1/2 when we read it on the ruler. This is called reducing the 4/8 into a proper fraction which is one that has no common factor in the numerator and denominator.

Continued on page 7
Continued from page 6

The fraction \( \frac{4}{8} = \frac{4 \times 1}{4 \times 2} \) has 4 as a common factor. When we have a common factor in the numerator and denominator, they can be cancelled out, in this case leaving the proper fraction \( \frac{1}{2} \). This calculation is automatically made for you on the ruler where longer lines denote \( \frac{1}{4} \) and \( \frac{3}{4} \). A still longer line indicates \( \frac{1}{2} \). These take care of reducing the fraction into its proper form.

### Mixed Numbers

Consider next measuring the width of the board shown below.

![Ruler with fractions](image)

Following the procedure of adding up the number of \( \frac{1}{8} \) segments, we get a fraction for the width of \( \frac{10}{8} \). But this is \( 1 \frac{1}{4} \). Fractions such as \( \frac{4}{8} \) and \( \frac{10}{8} \) are called improper fractions because they haven’t been reduced to their minimal form. We saw above how \( \frac{4}{8} \) reduces to \( \frac{1}{2} \). In this case, we need to remove the whole number 1 from the fraction. Since \( 8/8 = 1 \), we rewrite the numerator into its equivalent form and then into a whole number plus a fraction.

\[
\frac{10}{8} = \frac{8 + 2}{8} = \frac{8}{8} + \frac{2}{8} = 1 + \frac{2}{8} = 1 \frac{1}{4}
\]

where the final number omits the + sign. So again the ruler accomplishes the calculation for us. The numerator of a proper fraction should be always less than its denominator. If it isn’t then divide the numerator by the denominator to separate the whole number. The remainder becomes the numerator of the remaining fraction. For example, we reduce \( \frac{28}{8} \) as follows

\[
28 \div 8 = 3 + \frac{4}{8} = 3 \frac{1}{2}
\]

### Adding and Subtracting Fractions

The addition and subtraction of fractions requires that each fraction in the calculation have the same value for the denominator. Otherwise, we would be adding or subtracting segments of different widths leading to incorrect results. The process of converting the denominators to all the same value is called finding the **common denominator**, a task that strikes fear and confusion in the hearts of many. While there are fancy methods for more general use, woodworkers’ special fractions are quite easy to convert.

Note that the denominators in woodworkers’ fractions are just powers of two: 2, 4, 8, 16, 32 and 64. The first step in finding the common denominator is to determine the largest denominator in the addition or subtraction. We can then multiply the smaller denominators by one of the powers of two to make it equal to the largest denominator. Finally, the numerator of each fraction whose denominator was multiplied is also multiplied by the same power of two as its denominator.

Continued on page 8

Speaking of numbers and fractions...

Just last week, the original Townsend Document Chest that the Period Furniture Group is reproducing as a project in a continuing series of meetings went up for auction at Christie’s. The price realized was $3,442,500.

The total auction that day of 134 lots realized $8,720,500 with the Townsend chest bringing the single highest amount. If my math is correct, that one item accounted for almost 13/32 of the total auction or just over 3/8 of the total!

If I could realize 1/1000 of the selling price for my reproduction, that would be $3,442.50!
Consider the following example.

\[
\text{Length} = 1 + 1 + \frac{1}{2} + \frac{3}{4} + \frac{1}{8}
\]

We can easily add the whole numbers of inches, 2. We now need to convert the fractions to have a common denominator. The largest denominator is 8, so we need to multiply the numerator and denominator of 1/2 by 4. That results in 4/8. In like manner we multiply the numerator and denominator of 3/4 by 2 to obtain 6/8. The calculation now become

\[
\text{Length} = 2 + \frac{4}{8} + \frac{6}{8} + \frac{1}{8} = 2 + \frac{4 + 6 + 1}{8}
\]

\[
= 2 + \frac{11}{8} = 3 \frac{3}{8}
\]

where we reduced the improper fraction 11/8 to 1 3/8.

---

**Glossary**

- **Common Denominator** A set of fractions with the same number in each denominator.
- **Denominator** The number below the division line in a fraction.
- **Factor** A term in the multiplication of several numbers. Two, four and six are all factors of 48.
- **Fraction** A portion smaller than a whole unit of measurement; a fraction of an inch or a fraction of a cup.
- **Inch** The basic woodworking measurement, equal to 25.4 millimeters.
- **Millimeter** One thousandth of a meter; 0.039 inches.
- **Mixed Number** A number consisting of both a whole number and a fraction. For example, 1 1/2.
- **Numerator** The number above the division line in a fraction.
- **Whole Number** A number which contains no fractional part.

---

In addition to being the author of *The Calculating Woodworker*, Bruce Wedlock is also an accomplished woodworker and he puts his knowledge of math to good use. You can see pictures of Bruce’s work in the member gallery pages on the Guild website. If you would like to see one of his beautiful creations in person, his Federal Style work table was selected by the Society of American Period Furniture Makers (sapfm.org) to be included in a display of members work will be held at The Connecticut Historical Society in Hartford, from March 30, through September 8th.
Granite State Wood Turners November Meeting

Article by Claude Dupuis (from the GSWT Blog - for the full set of pictures, visit the Blog on the Guild website)

The November meeting was at Peter James house and the topic was installing a VFD.

The meeting started with a show and tell as will be the case with all future meetings. Several members brought a piece to show and discuss how it was made and asked questions as to how it could be done differently.

Claude brought a square bowl (Borrowed from Bob Couch) that had one of the four corners turned up with the other three turned down. How was it turned? Gary had a large lamp and Doug had two cherry bowls with large rolled over lips.

Peter and Jon tag teamed the topic of buying, installing and programing a VFD. Jon opened the topic with a history of motors and how they work.

Jon discussed the difference between a single phase motor and a three phase motor. Peter then proceeded to demonstrate the VFD setup that he had wired to a three phase motor. Peter also provided a handout with a wiring diagram and some key programing tips.

VFDs are not just for lathes and the setup the Peter used for today’s demo is slated for a drill press. Additional details can be found in the latest Journal article.

Peter then proceeded to his new lathe. What a beauty this one is. Bob Couch told me that once I saw the lathe I would understand why he would give up a Powermatic. He was right. The lathe is a pattern makers lathe. It has some similar features of a metal lathe and was used to create very precise wooden molds that would be used for castings. Peter then proceeded to demonstrate the lathe and the use/advantage of the VFD.

Many thanks to Peter for hosting the meeting and Jon for helping out. A thanks also goes out to the gals for the fresh home baked goods and coffee.
Period Furniture Sub-Group

The Period Furniture Sub-Group meetings continue to be standing room only as the group has just finished the third of their get togethers on the Townsend Document Chest Project.

Members of the group are each creating reproductions of one of Townsends earliest block front chests, a diminutive piece referred to as a document chest. Measuring only two feet tall, two feet wide and a foot deep, the project is not small on challenges. The original, which until last week was owned by the Chipstone foundation just sold at auction for a hefty sum of over 3.4 million dollars (see sidebar on page 7). While we are all a bit saddened to see such a piece sold at auction where it most likely was bought by a private collector and therefore will be unable to be seen, the auction did present an opportunity.

Al Breed, who is the groups teacher and mentor on this project had the opportunity to see the piece prior to the sale, and make some important notes and observations about the original and its construction, which he then shared with us at the last meeting. Al is considered by many to be the expert on Newport furniture and we are all very fortunate that he is leading us in this challenging project.

After three meetings, we have covered the construction of the exterior case, the vertical dividers and the drawer blades, and have just started on the shaping of the drawers and drawer blade profiles.

During the February Guild meeting, the PFG group will discuss the project in greater detail, have some examples of the work, and answer any questions you may have.
The Hand Tool Subgroup met at Dave Anderson’s shop in early December and the shop was filled to capacity as Dave talked a bit about tool making and specifically the aspect that many woodworkers aren’t comfortable with - the processing and treating of steel. As many of you know, Dave is also the owner of Chester Toolworks where he produces marking knives, awls and plane hammers which can be found at better woodworking tool shops around the world.

Dave’s presentation, with some terrific handouts, took much of the mystery out of steel selection, grinding, and heat treating. By keeping your choices to a few steels which are appropriate for amateur tool makers, the entire process is a reasonable undertaking for any woodworker. Of course, as Dave pointed out, if you use the wrong type of oil in the process, it helps to have an understanding wife.

Even the seemingly mysterious part of knowing when you have the correct temperature was demonstrated as Dave showed how using a magnet gives you the knowledge of when the steel has reached the correct temperature.

Dave likes his meetings to be more than just lecture and it was the same for this meeting as he had everything set up for a demonstration and then he had one of the participants go through the process, once again taking much of the mystery out.
The following note is from the Society of American Period Furniture Makers website and is reprinted with their permission:

Allan Breed Named 2012 Cartouche Award Winner

SAPFM is pleased to announce that Allan Breed has been selected to receive the 2012 Cartouche Award. Al has spent his life around antiques and has repaired and reproduced some of the finest originals. He has written numerous articles on cabinetmaking and has lectured at museums across the country. Perhaps best-known for his reproduction of the Nicholas Brown desk and bookcase, Al’s work has been exhibited in several large museums and can be found in the permanent collections of many others. In addition to his custom cabinet making, Allan operates the Breed School in South Berwick, ME, where he has guided woodworkers from around the country through the intricacies of chair making, bombé chests, Rococo carving, and Goddard-Townsend secretaries. Al will receive the Cartouche during a banquet to be held in his honor at Colonial Williamsburg on Friday, January 27 at the Williamsburg Lodge.

The Guild of New Hampshire Woodworkers is very pleased to see Al receive this award. He is deserving, not only for the skill with which he practices his craft, but also for the generosity with which he shares that knowledge and skill. As mentioned in the article on page 10, Al gives not only his time, but makes his shop space available for many Guild meetings and activities.

Al joins a list of well-known masters who have previously received SAPFM’s Cartouche award. Congratulations Al!

Previous Cartouche Award Recipients

2011 Benjamin C. Hobbs
2010 Steven Lash
2009 Dennis Bork
2008 Alfred Sharp
2007 North Bennet Street School
2006 Fred Stanley
2005 Phil Lowe
2004 Mack Headley
2003 Gene Landon
2002 Robert Whitley
2001 John McAlister
2000 Harold Ionson
While there is snow covering most of the ground as I write this, thoughts of summer are in my head. Before you know it, it will be August and that means it is time for the League of New Hampshire Craftsmen’s annual fair at Mount Sunapee. This is a major activity for the Guild each year providing an opportunity for us to interact with thousands of visitors to the fair. In addition to demonstrations by wood turners, hand tool and period furniture makers, and luthiers it is also the venue for our annual raffle. Due to the incredible generosity of many members who donate some terrific woodworking creations for the raffle, and the tireless work of the volunteers who sell tickets, we are able to raise a significant sum of money each year for our scholarship program.

All of this activity wouldn’t come together in the seemingly flawless way that it does without the efforts of more guild members who work to set up the tent and begin preparations months in advance, under the guidance of our “fair master” Al Hanson.

Al may not have been in touch with you directly yet, although I suspect he has, but don’t let that stop you from dropping him an e-mail or calling him. I can tell you for certain that spending time in the Guild tent at Sunapee will be one of the high lights of your year. There are many different ways that you can participate and help the Guild and it all starts with a call or note to Al! I hope to see many of you there in August!
The meeting came to order at 9:30 am after a bit of coffee and conversation. The space for the meeting was Marty Milkovits shop in Mason, NH. We had attendance of about 35 people.

Jon Siegel was the first presenter from the GSWT sub group (Granite State Woodturners). Jon is almost exclusively a spindle turner and put great emphasis on practice, chuck up a piece of green wood and practice making the same kind of cuts both right and left. Jon referred to his article from the Old Saw, Volume 19 No. 1, September 2007.

Marcel Durrette was the second demonstrator from GSWT, he showed off the piece that the sub group entered in the 2011 AAW collaborative challenge, a very impressive piece that consisted of cupcakes on platters with serving spatulas; there are photos of the piece on the GSWT sub group page on the Guild website.

Marcel went on to demonstrate how he turns a “lidded box” small birdhouse Christmas tree ornament.

Next was the business meeting; after the treasurer’s report was read a discussion about the changes to the bylaws took place.

The Guild is governed by a set of bylaws which may be amended from time to time. Established early in the Guild’s existence, they were amended in 1998 and again in 2006. The Steering Committee had worked on a set of changes over the past nine months.

Approval by majority vote was needed at any general meeting and the November meeting was the day.

Changes to the bylaws come in three categories:
1) cleanup;
2) updates made to reflect current practice
3) changes to current practice.

Major changes were made to general meeting policy plus new articles on scholarship and grants, subgroup governance and privacy were added. Discussion at the meeting revolved mostly around governance by Steering Committee vs. an elected Board of Directors. The vote to approve the bylaws was unanimous.


Bob LaCivita was presented with an engraved rabbet block plane in appreciation for his services as president.

After a break for lunch Marty began his presentation on spraying conversion varnish. He spoke while assembling his Apollo spray gun which he keeps disassembled in a container of lacquer thinner until he needs it. This helps to keep the gun clean and running well.

After the gun was assembled he mixed a batch of finish which consists of M.L. Campbell Krystal conversion varnish mixed with 10% catalyst and thinned 15% with lacquer thinner.
Marty discussed spray patterns, amount of overlap (50%) weather, don’t spray on humid days; this will cause blushing from moisture trapped in the finish. The mixed varnish should have a time in a Zahn cup of 15-20 seconds. The maximum recommend pot life is 6 hours but Marty has gone 12 or more.

Keep the gun 8” to 12” from the surface and move quickly across the surface, the actual speed takes practice, the finish will dry to touch in 2 hours then he scuffs off and imperfections and puts on 2 more coats scuffing between coats. The final finish is rubbed out with 0000 steel wool and given two coats of wax.

The material Marty uses are made by the M.L. Campbell Company

http://www.mlcampbell.com

Their products are available from the following suppliers:

Capitol Paint and Wallpaper Co.
58 South Main St.
Concord, NH
http://www.capitolpaint.com

Exeter Paint West
96 Calef Highway
Rt. 125
Epping NH
http://www.exeterpaintstores.com

Lebanon Paint and Decorating
51 Main St.
West Lebanon NH
http://www.lebanonpaint.com/

The main location for M.L. Campbell products is:

Atlantic Plywood Corporation
8 Roessler Rd.
Woburn, MA
http://www.atlanticplywood.com/woburn.html
What is it?

In the last issue of The Old Saw I published a detail from a picture in our member gallery pages. I challenged you to see if you could find the picture just from the detail. I hope that some of you took me up on that challenge because if you did you would have discovered some pretty amazing work by one of our members.

Combining beautiful woodworking with stunning graving and metal work, Sal Morgani created a master piece. To see the full set of pictures, take a look at Sal’s member gallery pages on the Guild website. They are not to be missed. Then, after you have finished drooling, consider that this project was the first of its kind for Sal, and that he learned each new techniques as he was ready to put it into practice. Great job Sal!

This months “What is It” also features a detail from a member gallery submission. Can you identify the item and the maker?
The Digital Connection

In this issues “Digital Connection” we will visit a few more internet sites that are of interest to woodworkers.

If you are a hand tool enthusiast and particularly enjoy the time in your shop when there are no machines making noise, then the following website/blog will be of interest to you. It is the blog and on-line presence of Christopher Schwarz and his publishing company Lost Art Press.

Chris was until recently the editor of Popular Woodworking and was largely responsible in my opinion for that magazine's re-emergence as a premier woodworking publication. Chris left that post to focus on his writing and his publishing company.

Now his writing style isn’t for everyone and you have to take much of what he says with a grain of salt as his humor is often buried in his wisdom...or is it the other way around. In any event, he is the author of several interesting books including one of my favorites, The Anarchist's Tool Chest. To get a taste for his writing, and some wonderful photography, visit his blog at: www.lostartpress.wordpress.com

If you use an iPad, his blog is well suited to reading on that device as well.

In keeping with the theme of hand tools another internet site that you may find of interest doesn’t sound like a woodworking site at all. Take a on-line spin to www.brasscityrecords.com

Once at the website you will see that it is really Brass City Records & Old Tools, the internet home of Walt Q. and more old tools and old tool candy than you can imagine. While I can never personally guarantee any of these websites any more than I can assure you that they will be around in six months time, that being the nature of the internet, I can tell you that Walt’s reputation among hand tool users is sterling.

Even if you are not in the market to buy, you can easily spend hours pouring over the pictures on his website.

One last site for this issue...

Check out ... www.wkfinetools.com

This website has a bit of everything, again geared toward the hand tool user, but with plenty of things that will interest any woodworker. Plenty of articles, tips, reproductions of old catalogues and plenty of interesting reading.

Next issue of The Old Saw I will take a look at a few of the places the wood turning crowd hangs out on-line.

If you have any particular favorite sites, drop me a line and let me know...

Roger Myers
roger@strathamwood.com

Dream Garages and Shops

The editors at WOOD magazine are moving beyond just woodworking shops for an upcoming newsstand special titled Dream Garages and Shops. This idea-rich publication will include a cross-section of small to large garages as well as shops of varying sizes situated in garage, basement, and detached-building spaces. If you have a photogenic garage or shop, please visit woodmagazine.com/garageshops for detail on how to submit your garage or shop for review and possible publication.
### Woodworking Schools

<table>
<thead>
<tr>
<th>School</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>McLaughlin Woods</td>
<td><a href="http://www.experiencewoodworking.com">www.experiencewoodworking.com</a></td>
</tr>
<tr>
<td>The Windsor Institute</td>
<td><a href="http://www.thewindsorinstitute.com">www.thewindsorinstitute.com</a></td>
</tr>
<tr>
<td>The Breed School</td>
<td><a href="http://www.allanbreed.com">www.allanbreed.com</a></td>
</tr>
<tr>
<td>Homestead Woodworking School</td>
<td><a href="http://www.woodschoolnh.com">www.woodschoolnh.com</a></td>
</tr>
<tr>
<td>The Wood Finishing School</td>
<td><a href="http://www.patinarestoration.net">www.patinarestoration.net</a></td>
</tr>
<tr>
<td>Woodturning School</td>
<td><a href="http://www.woodturningschool.org">www.woodturningschool.org</a></td>
</tr>
</tbody>
</table>

### Tools & Supplies

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woodcraft - Newington, NH</td>
<td><a href="http://www.woodcraft.com">www.woodcraft.com</a> (Portsmouth)</td>
</tr>
<tr>
<td>Woodcraft - Woburn, MA</td>
<td><a href="http://www.woodcraft.com">www.woodcraft.com</a> (Woburn)</td>
</tr>
<tr>
<td>Rockler - Salem, NH</td>
<td><a href="http://www.rockler.com">www.rockler.com</a> (Salem)</td>
</tr>
<tr>
<td>Rockler - Cambridge, MA</td>
<td><a href="http://www.rockler.com">www.rockler.com</a> (Cambridge)</td>
</tr>
<tr>
<td>Brentwood Machinery</td>
<td><a href="http://www.brentwoodmachine.com">www.brentwoodmachine.com</a></td>
</tr>
<tr>
<td>Chester Tool Works</td>
<td><a href="http://www.chestertoolworks.com">www.chestertoolworks.com</a></td>
</tr>
<tr>
<td>Gary R. Wood &amp; Co.</td>
<td><a href="http://www.garyrwood.com">www.garyrwood.com</a></td>
</tr>
<tr>
<td>Williams &amp; Hussey Machine</td>
<td><a href="http://www.williamshussey.com">www.williamshussey.com</a></td>
</tr>
</tbody>
</table>

### Lumber & Wood Products

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Highland Hardwoods</td>
<td><a href="http://www.highlandhardwoods.com">www.highlandhardwoods.com</a></td>
</tr>
<tr>
<td>Goosebay Sawmill &amp; Lumber</td>
<td><a href="http://www.goosebaylumber.com">www.goosebaylumber.com</a></td>
</tr>
<tr>
<td>The Millwork Shop</td>
<td><a href="http://www.t-n.com">www.t-n.com</a></td>
</tr>
<tr>
<td>Northland Forest Products</td>
<td><a href="http://www.northlandforest.com">www.northlandforest.com</a></td>
</tr>
<tr>
<td>Classic Designs by Matthew Burak</td>
<td><a href="http://www.tablelegs.com">www.tablelegs.com</a></td>
</tr>
<tr>
<td>Wolfgang's Wood - Strafford, NH</td>
<td>603-664-7691</td>
</tr>
<tr>
<td>GH Evarts &amp; Co.</td>
<td><a href="http://www.ghevarts.com">www.ghevarts.com</a></td>
</tr>
<tr>
<td>Maine Coast Lumber</td>
<td><a href="http://www.mainecoastlumber.com">www.mainecoastlumber.com</a></td>
</tr>
</tbody>
</table>

### Services

<table>
<thead>
<tr>
<th>Service</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Whiteside’s Hand-Made Guitars &amp; Lessons</td>
<td><a href="http://www.northroadguitars.com">www.northroadguitars.com</a></td>
</tr>
<tr>
<td>Manchester Tool Repair</td>
<td><a href="http://www.tool-repair.com">www.tool-repair.com</a></td>
</tr>
<tr>
<td>Tru-Cut LLC (Sharpening - Charlestown, NH)</td>
<td>603-826-4131</td>
</tr>
<tr>
<td>Northeast Saw (Sharpening - Manchester, NH)</td>
<td>603-645-1199</td>
</tr>
</tbody>
</table>
The Guild of New Hampshire Woodworkers

The Wood Finishing School
978-363-2638
www.patinarestoration.net
Learn wood finishing individually or as part of a group.
Twenty-seven years experience.
10% Discount for Guild Members Teaching & Class Instruction Only.
Bruce Hamilton Antique Restoration

Woodturning School
MID-COAST MAINE, DAMARISCOTTA
Introductory level to advanced courses.
Specialty classes
Three to one teacher ratio
Choose from 3 hr/week for 4 weeks, 2-day workshops or 5-day workshops.
10% Discount to Guild Members
TEL 207-563-2345 • www.woodturningschool.org

Furniture Making Classes
Enjoy a mini apprenticeship with some of America’s best woodworkers!
www.experiencewoodworking.com

The Breed School
American 18th Century Furniture By Hand
13 Liberty Street, South Berwick, ME 03908
15% Discount to GNHW Members!
www.allanbreed.com • 603-749-6231
email: breeds@comcast.net

Homestead Woodworking School
Alan S. Mitchell
Director
10% Discount to GNHW Members
52 Bald Hill Road
Newmarket, NH 03857
PH 603-659-2345
FAX 603-749-6231
email: woodschool@comcast.net
web: www.woodschoolnh.com

Guild Supporters & Advertisers
Woodworking Schools
The Guild of New Hampshire Woodworkers

Woodcraft
10% discount for Guild members
25 Fox Run Rd 313 Montvale Ave
Newington, NH 03801  Woburn, MA 01801
603-433-6116  781-935-6414
Except machinery, power tools & already discounted items

Rockler
WOODWORKING AND HARDWARE
10% Discount to Guild Members
373 S Broadway (Rt 28)
Salem, NH 03079
603-898-5941
2154 Massachusetts Ave
Cambridge, MA 02140
617-497-1136
Class schedules on rockler.com • Instructor inquires welcome

Williams & Hussey Machine Co., Inc.
• Straight, Round, and Elliptical Molding
• Simple, Easy, Safe
• Quality Construction
• Seven Year Warranty
MADE IN THE USA
10% Discount to GNHW Members
OFFER EXCLUDES CUSTOM KNIVES AND OTHER PROMOTIONS
800.258.1380 • www.williamsnhussey.com

Gary R. Wood & Co.
Select Finishing Supplies
Shellacs, waxes, stains, varnishes & tools for an elegant finish. Your questions are always welcome!
24 Gristmill Hill Rd • Canaan, NH
www.garyrwood.com  603-523-4337
10% discount to Guild members

Chester Toolworks LLC
www.chestertoolworks.com
Fine traditional hand tools made from figured & exotic hardwoods
Marking knives, urls, cutting gages, bowsaws & plane hammers
603-887-6267
146 Jennifer Drive • Chester, NH 03036
10% Discount on Stock items to Guild Members

---

**HIGHLAND HARDWOODS**

**– HARDWOOD DISTRIBUTION CENTER –**

Route 125 • Brentwood, NH
PO. BOX 426, KINGSTON, NH 03848
TEL 1-800-442-1812 • 603-679-1230 • FAX 603-679-1960

---

**Goosebay Inc.**

**Sawmill & Lumber**

603-798-5135
www.goosebaylumber.com

83 Dover Rd (US Route 4)
Chichester, New Hampshire
(10 Minutes from I-93 Concord • Take exit 15 east)

Specializing in Bird’s Eye & Curly Maple
Green & Kiln Dried Bowl Blanks & Turning Squares
Rare & Hard to Find Domestic & Imported Hardwoods

---

**MILL OUTLET STORE • 10% DISCOUNT FOR GUILD MEMBERS**

**Northern and Appalachian Hardwoods**

Ash • Basswood • Birch • Cherry • Maple • Mahogany • Oak • Poplar • Walnut

4/4 • 16/4 Rough or Surfaced Kiln Dried Lumber
Fixed and Special widths • FSC-certified wood from well-managed forests

**NORTHLAND FOREST PRODUCTS**

visit www.northlandforest.com for stocking info

36 Depot Road, Kingston, NH • 603.642.8275

---

**CLASSIC DESIGNS by MATTHEW BURAK**

SOLUTIONS FOR THE PROFESSIONAL WOODWORKER

Table Legs, Columns, Cabinet Feet
Windsor Chair Kits & Parts

10% Discount to GNHW Members
1.800.843.7405
www.tablelegs.com

---

**MAINE COAST LUMBER, INC**

17 WHITE BIRCH LANE
YORK, ME 03909
(207) 363-7426 • (800) 899-1664

HARDWOOD PLYWOODS • HARDWOOD LUMBER
SOFTWOOD LUMBER • MELAMINE
MARINE PLYWOODS
EDGE BANDING • VENEER • MDO • MDF
PARTICLE BOARD • CUSTOM MOULDINGS
DOVETAILED DRAWERS • TARGET COATINGS
www.mainecoastlumber.com

All guild members receive a 10% discount

---

**The Millwork Shop**

at Trumbull-Nelson Construction Co., Inc.
Rt. 120 • Hanover, New Hampshire

Milling Services, Hardwoods & Plywoods
Contact Mitch Ross – 603/643-3658
Fax 603-643-2924 • mross@t-n.com • www.t-n.com
10% discount to GNHW Members

---

**Wolfgang’s Wood**

Specialty Native Woods

Strafford, NH
603-664-7691

10% Off to GNHW Members
Rich Burnett – Owner
mtoolrepair@comcast.net
603-622-0207 • www.tool-repair.com

**Complete Repair Service**

**MANCHESTER TOOL REPAIR**
722 East Industrial Park Dr Unit 3 • Manchester, NH

*10% Discount When You Present Your Card*

---

**Northeast Saw**

**COMPUTER CONTROLLED SHARPENING**
Carbide Tipped Saw Blades, Router Bits, Shaper Cutters & Much More

*We also Sell ...*
Industrial Quality Carbide Tipped Saw Blades, Router Bits & Shaper Cutters

603-645-1199
www.northeastsaw.com
695 Mast Road Manchester, NH 03102

---

**TRU-CUT LLC**

*“Trust us with your good stuff”*

CNC Carbide Blade Sharpening
Planers/Routers/Shapers/Drills
Satisfaction Guaranteed

*10% Off to GNHW Members*
603-826-4131
213 River Rd • Charlestown • NH

---

**John Whiteside’s**

**Hand-Made Guitars & Guitar-Making Lessons**

10% discount for GNHW Members
www.northroadguitars.com
e-mail: johninfremont@comcast.net
North Road Guitars
234 North Road
Fremont, NH 03044
(603) 679-5443

---

**MILL OUTLET STORE**

**• 10% DISCOUNT FOR GUILD MEMBERS**

Northeast Saw
COMPUTER CONTROLLED SHARPENING
Carbide Tipped Saw Blades, Router Bits, Shaper Cutters & Much More

We also Sell ...
Industrial Quality Carbide Tipped Saw Blades, Router Bits & Shaper Cutters

603-645-1199
www.northeastsaw.com
695 Mast Road Manchester, NH 03102

---

**Guild Supporters & Advertisers Services**