



February 2011

TWA NEWS

February 2011

Issue 2

Tuesday

March 15th, 2011

Next Meeting:

Our Favorite Tips & Jigs

Tuesday February 15th, 2011 7:00 PM

*The Woodworking Shop
3141 Capital Boulevard
Raleigh, NC*

Several members meet at 6:00pm Buffalo Brothers Pizza & Wings for dinner prior to the meeting.

Tuesday

February 15th, 2011

Subject: Our Favorite Tips and Jigs
Speaker: Club Members

Nearly every woodworker has a favorite tip and/or jig that they like to use. This meeting is all about TWA members sharing our favorite tips and jigs with each other. We have 12 members that have already signed up to share their tips and jigs with us. Their tips and jigs don't have to be original, but only ones that they like and use in their woodworking. There may be tips and jigs that have been presented before, since most of us are somewhat forgetful, we probably will not remember seeing them before anyway. The tips or jigs don't have to be professional. They just have to work.

I'm sure most of us are looking forward to gaining new woodworking knowledge and perhaps a new favorite tip or jig from this program.

Host: Jim McNeil



Subject: Saw Blades 101
Speaker: Tom Ferone

February's program "Saw blades 101", will teach you the why's and how's of the wide range of saw blades available for woodworkers. It will cover how to choose the correct blade for your saw and your material. Also, Tom will cover the difference between ATB, TCG, ATB+R, High ATB, & FTG blades, and how to keep your blades cutting clean and provide tips to getting them sharpened correctly.

For those newer members who may not know Tom, he is an experienced woodworker with over 15 years experience. He is currently a Woodworking Specialist for Freud, where he has been for 2 years, traveling throughout the Southeastern US. Prior to working for Freud, he worked for Klingspor for 4 1/2 years, Woodcraft for 5 years and one year with Raleigh Saw. So he is well qualified to speak on this subject.

Host: Bob Nauman



(TCG) Triple Chip Grind



Profile View of Tooth



MEMBERSHIP

We welcome five new members this month, **Alan and Nancy Tope** of Raleigh, **Kathy and Rick Brown** of Franklinton, and **Greg Nelson** of Benson. A colored dot on a name tag indicates that the member is new, so be sure to say hello and welcome them.

Membership Chairman: Kay Baker

ABOUT THE TRIANGLE WOODWORKERS ASSOCIATION

The Triangle Woodworkers Association (TWA) is a nonprofit educational corporation. The TWA is dedicated to teaching woodworking techniques through seminars, classes, and workshops; participants are required to sign waivers absolving liability for TWA or its designated representatives. The TWA promotes woodworking education and community interest in woodworking and in general sharing a love for wood.

Club Officers and Committee Chairmen

Executive Board

President: Alan Campbell, (919) -----
aacjr@nc.rr.com

Vice President: Terry Tenhouse, (919) 545-9862
ttenhouse@gmail.com

Secretary: Bill Anderson, (919) 932-6050
willardanderson@bellsouth.net

Treasurer: Hugh Fish (919) 467-5696
hughpatfish@yahoo.com

Members at Large: Larry Bradbury, Larry Hendrick

Committee Chairman

Program:-----Terry Tenhouse, (919) 545-9862

Nominating:-----Mike Reddyhoff, (919) 676-9180

Toys for Tots:-----Fred Ford, (919) 469-9575

Newsletter:-----Diane Philyaw, (919) 764-9266
irishrose2365@yahoo.com

Library:-----Kay Baker, (919) 696-8504
kdbakerkdb@yahoo.com

Publicity:-----Larry Hendrick, (919) 971-6684
redwingertwa@earthlink.net

Mentor:-----Larry Bradbury,
lbradbury12@yahoo.com

Facilities:-----James McNeil,
3jp3mcn@bellsouth.net

Raffle:-----Mike Payst,
mpayst@nc.rr.com

Sponsor:-----Bill Anderson, (919) 932-6050
willardanderson@bellsouth.net

Hospitality:-----Kay Baker, (919) 696-8504

Internet:-----Jim Kroeger, (919) 362-5741

Photographer:-----Ron Heidenreich, (919) 848-1134

Membership:-----Kay Baker, (919) 696-8504

Audiovisual:-----Tom Revelle, (919) 387-8286

Refreshments:-----Janet Batker

TWA News is published monthly and is mailed/e-mailed to members, sponsors, and associates.

If you are interested in contributing articles, please send to

Triangle Woodworkers Association

P.O. Box 4206

Cary, North Carolina 27519-4206 or

trianglewoodworkers@gmail.com or irishrose2365@yahoo.com

BY THE NUMBERS

Treasurer's Report

Beginning Bank Balance:	\$8,431.65
Income:	\$80.00
Expense:	\$542.48
Ending Bank Balance:	\$7,969.17

Note that these figures, as usual, exclude the petty cash fund, as well as the other "slush" funds.

Submitted by: Hugh Fish

MEMBERSHIP

Total Members:	178
New Members:	5

THE PRESIDENTS CORNER



This month I want to recognize Kay Baker, who acts as our Librarian and Membership chairperson. In that capacity she receives our dues and forwards them to Hugh Fish (by the way, when we pay dues late it makes more work for Kay. Dues are payable July 31. Please pay them promptly.) She keeps track of who is paid, prepares and distributes name tags, catalogues the library, adds items bought, donated or created (meeting & workshop videos). She provides all new members to our editor to be recognized in the newsletter. She is also the only member I know of who actually loses sleep worrying about club matters.

The speaker at our January meeting was Leon Harkins, a master chip carver. Leon brought with him a number of examples of his work ranging from the very simple to the very elaborate. After describing the difference between "in the round carving", "relief carving" and "chip carving", Leon demonstrated the basic skills used in chip carving. It is really amazing what can be done with just a couple of knives.

Mike Payst showed us a bow saw he made at one of Bill Anderson's classes. It is really neat and well made. Maybe one day he will show us how it works. I understand they are still in regular use in other parts of the world, particularly Europe.

I hope many of you took the opportunity to visit the Lie-Nielsen hand tool event at the NSCU Craft Center. They had all the various tools Lie-Nielsen produces on hand for you to try out. I have rehabilitated some Stanley planes, and, while mine can produce a very fine shaving, they just don't work as well as the Lie-Nielsens. It may turn out to have been an expensive visit for me.

The 2011 schedule of meetings and workshops is up on the TWA website calendar and I think it is great. Terry and his committee have outdone themselves this year. Everyone should take a close look at the workshop offerings. I think there is something there to interest each member and hope everyone will plan to attend at least one workshop. We have

everything from design to finishing. Remember, part of the cost of workshops is covered by club dues, so, if you don't participate, you aren't getting all you could from your dues. And... the workshops are really cheap when you compare them to the same course elsewhere. Just Google the presenter's name and check what they charge at a woodworking school for a similar class, then add travel and lodging. What we charge usually won't even cover the gas to get to a class at one of the schools.

Next meeting's program is "Your favorite Tips and Jigs" presented by our members. I know some of us hate to get up and "show off" something that we have made, but please bring in a jig or idea to share. Woodworkers are gadget people (how else could the toolmakers stay in business), so we really want to see what others have come up with. And, by the way, you can bring in one of those gadgets you have bought that really works well; you don't have to have built it. We want to know about commercial jigs and tools as well.

As you know we recently bought the web address trianglewoodworkers.com. With this new web address, we are thinking about redesigning and updating our website. Unfortunately, I haven't got a clue how to do it or what can reasonably be done. If anyone out there has expertise (even a little is more than I have) in website design and building and would be willing to help determine what, we could and/or should do, please give me a call or send me an e-mail.

For those of you who enjoy the woodworking shows, they will be in Chantilly, VA outside Washington, DC on March 10, 11 & 12, and in Charlotte on March 25, 26 & 27

President: Allan Campbell

MEETING MINUTES

JANUARY 2011

Attending:

The meeting was opened by our President, Alan Campbell. Allan welcomed visitors and encouraged them to join the club.

Announcements & Show and Tell:

Fred Ford gave a summary of the Toys for Tots program which was a great success with over 2500 toys produced this year.

Allan recognized Kay Baker for her efforts on behalf of the club. Kay wears many TWA hats and is truly a pleasure to work with and a great asset to all in TWA. *Thank You Kay for your talent and dedication to all of us!*

Jim McNeil described next month's program which will be presentations by our own members of their favorite jigs and/or tips. A

**“Strive not to be a success,
but rather to be of value.”**

- Albert Einstein

signup sheet was passed around. Seeing how folks resolve issues we have all run across is always very interesting and fun.

Mike Payst brought in a coping saw that he made at a class taught by Bill Anderson. The saw is a downsized version of the one Roy Underhill used for his presentation on Andre Ruobo and his one piece book stand that Roy gave at our Toys for Tots/ Christmas meeting.

Program:

The main speaker for the night was Leon Harkins a master chip carver. Leon is currently teach a class in carving at UNC. Leon explained that about twenty-five years ago he saw a demonstration of chip carving at a show and from that point on he was hooked. Leon brought with him a number of examples of his work ranging from the very simple to the very elaborate. After describing the difference between "in the round carving", "relief carving" and "chip carving", Leon demonstrated the basic skills used in chip carving, Starting with the selection of the wood, saying the best wood for carving was Northern White Basswood with Butternut a close second. Other acceptable woods are White Pine and Redwood. The primary tool used for carving is a knife with a small curved blade. Using this knife Leon demonstrated how to make the basic cuts to build the patterns used in the examples he had brought with him. After a short break Leon demonstrated the more complex task of carving letters. Unlike other areas of woodworking Leon noted that a person can get started in chip carving with a minimal investment of about twenty five dollars for a knife, sharpening stone, and an instruction book.

Respectfully submitted by:

Joe Gorman for Bill Anderson - secretary

Woodshopics.com

Woodshopics is a Free Woodworking Site designed to help Woodworkers and promote Woodworking ideas. Build your own Woodworking Tools, learn new Woodworking Tips, see pictures of Woodworking Projects, discover new Woodworking Links, and much more.



*“Anybody can become a woodworker, but only
a Craftsmen can hide his mistakes”!*

Walter Blodgett Binck's Father-in-law

<http://www.woodshopics.com/html/quotes.html>

www.trianglewoodworkers.com



HANDTOOL WOODWORKING WORKSHOPS 2011 (Jan-June)

EDWARDS MOUNTAIN WOODWORKS, LLC

fine handtool woodworking: creating and teaching in wood

In addition to the workshops listed below, I am also teaching workshops at the John C. Campbell Folk School (www.folkschool.org) in Brasstown, NC and at the Woodwright's School (www.woodwrightschool.com) in Pittsboro, NC. Check these websites out for details about those workshops.

Date	Workshop
Feb 12	Beginning Mortise and Tenon Joinery
Feb 13	Beginning Mortise and Tenon Joinery
March 5	Advanced Dovetail Joinery
March 6	Advanced Dovetail Joinery
March 12-13	Handcut Moldings: Working with Molding Planes
April 16	Advanced Mortise and Tenon Joinery
April 17	Advanced Mortise and Tenon Joinery
May 13-15	Make a Traditional Molding Plane
May 21-22	Make a Saw Sharpening Vise
June 4-5	Bench Plane Skills and Techniques

My workshops focus on hand tool woodworking skills and techniques, and are generally from 9 am to 5 pm each day, often later in the evenings. In some cases, either experience or a previous workshop is required. All tools and a comprehensive manual are provided for each workshop. A tool list is available, and students are encouraged to bring their personal tools as well. Workshop fees are \$100/day with a \$15/day general materials fee. Some classes may have a project-specific materials fee as well. I provide lunch each day, please inquire regarding dietary restrictions.

For more information contact:

Bill Anderson

57 Woodside Trail

Chapel Hill, NC 27517-6077

919.932.6050

<http://www.edwardsmountainwoodworks.com>

www.trianglewoodworkers.com

2011 PROGRAMS

UPCOMING EVENTS

Now Available On-Line

@

<http://www.ibiblio.org/twa/>

Month	Program	Speaker	Workshop	Host
February 15 th	Favorite Tips	Club Members	None	Jim McNeill
March 15 th	Saw Blades 101	Tom Ferone	None	Bob Nauman
April 15 th <i>(FRIDAY)</i>	Fine Tuning Power Tools	John White	Sat/Sun	Allan Campbell
May 20 th <i>(FRIDAY)</i>	Inlaid Spice Box	Glen Huey	Sat/Sun	Bill Anderson
June 21 st	Marquetry	Beth Woody	None	Bruce Wrenn
July 19 th	Station Skills Demo	Club Members	None	Jim McNeill
August 19 th <i>(FRIDAY)</i>	Customizing Finishes	Dexter Adams	Saturday	Terry Tenhouse
September 20 th	Furniture Design	J. Speetjens	None	Bob Gabor
October 21 st <i>(FRIDAY)</i>	Heirloom Tool Chest	Chris Goch-nour	Sat/Sun	Mike Reddyhoff
November 15 th	Spray Finishes	Dave Bubacz	Saturday	Mike Reddyhoff
December 13 th	Toys for Tots	Club Members	None	Fred Ford

Mentors

The purpose of this program is to have a reference guide of whom to call when you need to "pick someone's brain", because *Rule #1 in woodworking: nobody has a monopoly on brains!* This list of people includes: contact information, projects the Mentors are comfortable offering advice about, and skills they would be able to help with.

Mentors Wanted/Needed

The purpose of TWA is to provide a forum for woodworkers to gather, exchange information & further the art of woodworking. To this end, those more skilled woodworkers are encouraged to become a Mentor to provide knowledge to other members regarding areas of the Mentors skill, experience & knowledge. If you are interested in being a mentor, and willing to help a fellow woodworker discover answers to their questions, please contact Larry Bradbury, 919-518-6891 or lbradbury12@yahoo.com

Mentor	Service/Skill Offered	Phone Number	Email Address
Bernie Bogdon	Relief Carving	(919) 850-0739	sabile.27615@yahoo.com
Hugh Fish	Chairs, Joinery, Machinery & Power Tools, Mantles, Routers, Tables and TV Cabinets, Turning	(919) 467-5696	hughpatfish@yahoo.com
John Margeson	Baby furniture, Beds, Bookcase, Chairs, Chest, Decks, Tables	(919) 876-3476	jmalice@bellsouth.net
Scott Miller	Compound Cutting, Scroll Sawing	(919) 233-0204	sminer@aol.com
Mike Resar	Baby furniture, Beds, Bookcase, Cabinets, Chest, Drafting, Dressers, Tables, TV Cabinets	(919) 876-1664	atwaterla@ncleg.net
Allen Campbell	Simple inlay, Staining/dyeing, Pen turning, Cabriole legs	(919) 772-4551	aacjr@nc.rr.com
Cecil Raynor	Joinery, finishing, tables, chairs	(919) 870-0508	raynorc@bellsouth.net
Doug Adams	CAD		dadams14@nc.rr.com



Auxiliary planer bed

Jig's

It raises your workpiece to plane thin stock, and bevels too.



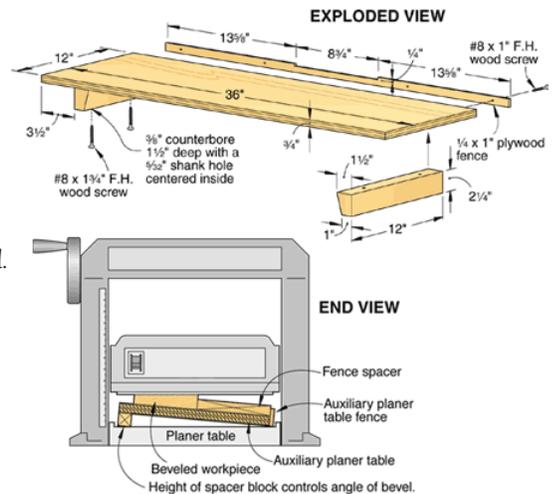
Thickness planers are wonderful tools; but like most machines, they have their limitations. Many of them will not thickness stock thinner than 1/4", and none of them will plane a bevel. However, outfitted with an auxiliary bed, any planer can perform both of these tasks. We designed our bed to fit a Delta portable planer, but you can change the dimensions, and the shape of the bottom-side cleats, to fit any planer. (The cleats prevent the jig from sliding on the table.)

The 3/4" thickness of the auxiliary bed raises the height of the workpiece so that you can plane stock less than 1/4" thick. There's no danger of damaging the knives because at the worst they will only cut slightly into the plywood surface.

By adding a spacer block under one side of the auxiliary bed, as we did in the photo, above, and the End View drawing, below, you can raise that side so the planer cuts a bevel. You'll find this handy for making such things as siding and thresholds. Note in the photo that we clamped down both sides of the jig. Additionally, we added a fence spacer on the low side of the jig to prevent the planer knives from cutting into the bed before it cuts the full depth of the bevel.

Smooth hardwood plywoods, such as birch or maple, work well for the auxiliary bed. If you use a lesser grade, sand it as smooth as possible and apply paraffin wax to lubricate its surface.

If you like this project, please check out the hundreds of shop-proven paper and downloadable woodworking project plans in the WOOD Store.



Centerfinder and trammel in one

Here's one simple jig that does the work of two. Use it to locate the center of round stock, or use the increment holes to mark different sizes of circles and arcs.

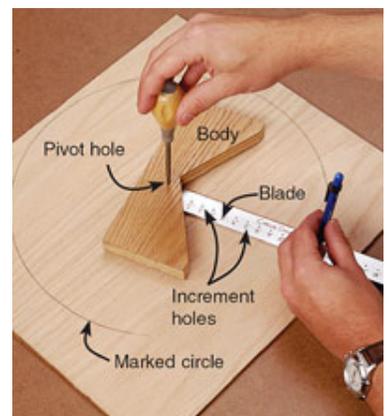
Cut the body to the size and shape noted on the drawing at right from 3/4" stock. Using a hacksaw, crosscut a piece of 1/8x1" aluminum bar stock to 12" in length for the blade. Mark the screwhole centerpoints and increment hole centerpoints on the blade, where dimensioned on the Hole Location Detail. Using your drill press, drill three countersunk screwholes through the blade. Then drill the increment holes and the pivot hole. Drilling through the aluminum will create rough surfaces, so sand the aluminum smooth with 220-grit sandpaper.

Use a square to position the blade perpendicular to the end of the body at the apex of the V-shaped notch. Using the screw holes in the blade as guides, drill pilot holes into the wood body. Screw the two pieces together.

Using the tool:

To find the center of round stock, such as the bowl blank shown above, rotate the body of the tool around the diameter of the stock and mark a pair of roughly perpendicular intersecting lines as shown. The intersection marks the centerpoint.

To use as a trammel, fit an awl, nail, or other pointed object through the pivot hole in the body and blade. Using one of the previously drilled increment holes in the bar, rotate the tool around the trammel pivot point to mark a circle or arc, as shown, at right.



TWA Sponsors

Ashcroft Saws and Tools 919-876-3223
3216-G Wellington Ct, Raleigh, NC
25% off list on blades and 10% off on sharpening

Capitol City Lumber Co. 919-832-6492
4216 Beryl Road, Raleigh, NC 1-800-244-6492
<http://www.capitolcitylumber.com>
Special prices to TWA members

Edwards Mountain Woodworks fine handtool woodworking: creating and teaching in wood. For further information on the workshops, schedule, and tools needed and any other requirements email Bill Anderson at bill@edwardsmountain-woodworks.com or call 919-932-6050, evenings.
Tuition discount for club members.

The Hardwood Store 1-888-445-7335
Gibsonville, NC www.hardwoodstore.com
Discount: 10 cents per board foot

Guy C. Lee Building Materials 362-1444
900 N. Salem St., Apex, NC

Klingspor's Woodworking Shop 919-876-0707
3141 Capital Blvd. (.9 mile N of Beltline exit 11)
www.woodworkingshop.com
10% discount excluding lumber and power tools

Raleigh Saw 919-832-2248
5805 C Departure, Raleigh, NC 27616
10% discounts on all new products

Stock Building Company 919-828-7471
3000 Yonkers Rd Hwy. 64 & Old US 1, Raleigh, NC

Tarheel Wood Treating Co. 919-467-9176
Highway 54, Morrisville, NC
*Contractors prices on all wood products
Show TWA card before order is written*

Woodcraft 919-781-1911
4317 Pleasant Valley Road fax: 919-781-1980
Raleigh, NC 27612
Email: raleighwoodcraft@bellsouth.net
<http://www.woodcraft.com>
\$25 gift certificate at each TWA meeting for the raffle

Woodworker's Supply of NC Store (336) 578-0500
1125 Jay Lane, Graham, NC Mail order 1-800-645-9292
www.woodworker.com

Wurth Wood Group 919-231-6620
4213 Poole Rd, exit 15 off 440 Raleigh, NC
<http://wurthwoodgroup.com>
Preferred prices for TWA members

Yarnell-Hoffer Hardware 919-942-3500
145 Rams Plaza, Chapel Hill, NC
www.doitbest.com/yh
10% discount except power tools & sale items

CLASSIFIED ADS

Classified ads are free to all current members. To have an item posted send a note to: TriangleWoodworkers@gmail.com or the our Newsletter editor at irishrose2365@yahoo.com.

All ads will run for 2 months unless otherwise notified of sale of item.

Interested in antique/traditional woodworking tools? To find out about Mid-West Tool Collectors Association, contact **Ed Hobbs at 828-2754** or hobbsed@portbridge.com

Craftsman Electronic Radial Arm model 113.190600, Serial # 5311.M0005 Good condition/table good condition has updated/recall blade guard already installed. Asking \$135.00
Don Frankfurter 919-266-1669 dofrankf@aol.com posted jan/feb

Closing up Shop sale:

See end of Newsletter from complete tools listing.
Frank Church 919-968-0695 jchurch@nc.rr.com posted jan/feb

TWA LIBRARY

Each member is allotted 3 items at a time. Checked out items are to be returned at the next meeting. There is a late fee of \$2.00 per item per month. We hope this will encourage timely returns so other members may benefit from the information available.

Monthly meetings have been recorded on video cassette and then transferred to DVD. Most meetings are available -- some are still in the process.

Librarian: Kay Baker

*Some of our DVD's Available
a complete listing coming the our
website soon.*

Title	Author	Subject
Installing Kitchen Cabinets and Countertops	Law, Tom	Cabinetry
Chippendale Small Chest	Huey, Glen	Furniture
Mastering Your Woodworking Machines	Duginske, Mark	Power Tools
Turning Projects	Raffan, Richard	Turning
Turned Bowls Made Easy	Grumbine, Bill	Turning
Wood Turning Projects	Burningham & Christensen	Turning

EDWARDS MOUNTAIN WOODWORKS, LLC

fine handtool woodworking: creating and teaching in wood



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HANDSAW SHARPENING

Pricing applies to both panel and backed saws, regardless of saw length, tooth configuration, or number of teeth. If you have any specific concerns about your saw, please email or call me to discuss the details. I will provide a quote of the specific services to be provided and final cost.

SERVICE	DESCRIPTION	COST
Simple Sharpening	Sawplate is lightly jointed; teeth are filed to the existing rake and fleam, no set applied to teeth.	\$12
Sharpening and Setting	Sawplate is lightly jointed, teeth are filed to the existing rake and fleam, and teeth are then set and stoned.	\$17
Tooth Reconfiguration	The tooth configuration is altered to client specifications: this can involve either altering the degree of rake or fleam of the teeth to change the performance of the saw, converting a rip saw to crosscut or vice versa, or restoring a saw plate that needs to be heavily jointed.	\$25
Reconditioning Saw	The saw is disassembled, the handle is refinished, saw nuts are polished, the saw plate is de-rusted and cleaned, sawplate is jointed, teeth are filed to a specified rake and fleam, and the teeth are set and then stoned.	\$50

Note: all saws are tested by me prior to being released to ensure that the saw cuts well and does not bind in the wood.

Saw Sharpening Terms

Tooth Number: tooth number is expressed in one of two ways. Points per inch (PPI) is the number of tooth points that can be included in one inch of the tooth line. This is measured from point to point. Teeth per inch (TPI) is the number of complete teeth that can be included in one inch. This is measured from tooth gullet to tooth gullet. For a given saw, the TPI is always one less than the PPI. Older saws often had the PPI stamped into the heel of the saw plate.

Rake: the angle of the edge of the tooth to the length of the sawplate. This angle varies from about 0-10 degrees for rip saws to 5-15 degrees for crosscut saws. A low rake makes the saw a bit harder to start, but allows it to cut more aggressively. Saws can be given a progressive rake, where the teeth at the toe of the sawplate have a larger rake to ease starting of the cut, and the teeth along the rest of the sawplate have a lower rake to improve cutting action.

Fleam: the angle of the leading edge of the tooth to the thickness of the sawplate. Rip saws have no fleam, being sharpened square across the thickness of the sawplate so that each tooth looks like a miniature chisel. Crosscut saws have varying degrees of fleam, up to about 25 degrees, so that each tooth looks like a beveled knife. Saws used for hardwoods typically have a low fleam so that the cutting edge is stronger. Saws for softwoods or wetter woods typically have a higher larger rake to allow for the wood fibers to be sliced easier.

Set: The amount that each tooth is bent out from the axis of the saw plate. Set allows the saw to make a kerf wider than the thickness of the saw plate to reduce binding during sawing. Hardwoods typically need less set and softwoods more set. Older saws were often taper ground during manufacture so that the back of the saw was thin relative to the tooth line, reducing the need for set.

Jointing: the process of filing the points of the teeth so that they are in a line, allowing all teeth cut equally. Saws are generally jointed straight, but in some cases the tooth line is jointed in a gentle convex curve (belly) for ergonomic reasons.

posted jan/feb

Frank Church is closing up shop.

Please contact him if you are interested in purchasing any of these items.

919-968-0695 or email jchurch@nc.rr.com

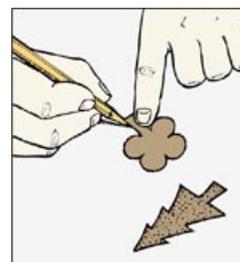
Sears Craftsman 12" band saw with stand and three blades
Dewalt Plunge Router-1/4" & 1/2 " chuck
Black & Decker 1/4" Plunge Router
Sears Craftsman 1/4" Router with router table
Dewalt Heavy Duty 12 1/2 " Thickness Planer (used 5 times)
Workbench 24 1/2" by 60 1/4" with wood vise and retractable wheels
Sears Craftsman Scroller Saw with blades
Bosch 5" random disc Sander
Vise with pipe inserts
100" edge guide clamp (2)
Portable Belt sander 3" by 21"
5 36" bar clamps
4 12" bar clamps
2 50" wood clamps
3 one inch pipe clamps pipe clamps 50"
seven 15 feet 6" wide 3/4 inch rough walnut

Attention Members

Regular club meetings
begin at 7 PM!

Shop Tip of the Day:
A template with "true grit"

Tracing around
miniature templates
made of paper or thin
scrapwood can be
difficult because the
patterns tend to slip.



After transferring the shape onto the back
of 60-grit sandpaper, cut out the shape
with heavy scissors or straight-cut tin snips.
Place the pattern facedown and apply
finger pressure to keep it in place as you
trace around it.

—Al Schlabach, Flora, Ill.

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www.trianglewoodworkers.com

Triangle Woodworkers Association
PO Box 4206
Cary, NC 27519