
THE SAWDUST

NEWSLETTER OF THE CHARLOTTE WOODWORKERS ASSOCIATION, INC.

Volume 18, Issue 7

July 2011

Newsletter

If anyone would like to contribute articles, information or provide suggestions for the newsletter, please send them to me. We need to make this a group effort.

Thanks also to Peter Stoffel, who assists with note taking at the meetings and to Tony Profera for the photos he provided : - much appreciated.

Roger Callahan (roger_callahan@bellsouth.net) - Secretary



**REMEMBER TO BRING A PROJECT FOR
SHOW AND TELL TO NEXT MONTH'S
MEETING**



Share information with other CWA members

Take time and write an article for the SAWDUST. Might be you learned something new while doing a recent project, found a neat tool, took a good class, found a useful and informative website, forum or a reference book.

Just draft an article and sent it to roger_callahan@bellsouth.net for inclusion in the CWA Newsletter.



Saw Blades 101, Freud Blades and Router Bits

Tom Ferone, who works currently for Freud began woodworking at age of 17. He is a very passionate woodworker and you can see his shop and some of his projects at <http://www.dreamshopwoodworks.com>.



Tom began his presentation at our July meeting by providing a review of saw tooth geometries; as shape defines finish and durability of the blade.

- Flat Top Grind (FTG)
 - A ripping cut - square tooth. Easiest cut to make.
 - Fastest setting. Long lasting
- Alternate Top Bevel (ATB)
 - Most common blade
 - The only time you need a point is when you are cutting across the grain
 - Cleanest cutting; clean edges.
 - Various bevel angles, 10 or 30 degrees.
 - ATB will not last as long as FTB because the point is a high-wear item.

(cont'd on page 4)

CALENDAR OF EVENTS

August 16: **CHARLOTTE WOODWORKERS ASSOCIATION, INC. MEETING** - 6:30pm .

Dave Powles and Cathy Marks will discuss the Easy Wood Tools, lathe tools, which make it easier for woodworkers to use their lathes.

Note: Bring 'show and tell' - recent projects, items, etc. to share with members prior to the meeting. (Meet & Greet, and social begins at 5:30 pm.)

September 3 thru 5: Mathews Alive Event. CWA will have a display and demonstration area at this annual event in Mathews, NC. Bruce Bogust is coordinating our participation. (see more information in the adjacent column.)

September 20: **CHARLOTTE WOODWORKERS ASSOCIATION, INC. MEETING** - 6:30pm .

September presentation will be a roundtable discussion of "small shops"

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WOODCRAFT STORE IN CHARLOTTE UPCOMING CLASSES - See: Woodcraft of Charlotte Website at:

<http://www.woodcraft.com/stores/store.aspx?id=507&page=classes>

Too numerous to list. Some 36 classes are described on their website.



Treasurer's Report: as of 6/30/11

Opening balance	3023.99
Deposits	178.00
Checks	369.17
Closing balance	2805.82



July Meeting Kickoff and Other Items from the Woodpile

- Mike Smith called our July meeting to order and mentioned that each Monday night woodworking and assistance is done for JPM and members at JPM. Everyone is invited. Starts about 5:30pm and ends about 8:00pm. Be sure you have signed the CWA, Inc. release waiver form.
- He mentioned for those who may not have the official club shirt that they are available for \$26, see John Seaman. Also, anyone wanting a CWA "wooden" name tag, see Jeff Dieker. They are available for \$6.
- He noted that Cathy Marks, who is the factory representative for Easy Wood Tools lathe tools was attending this month's meeting and will speak next month on their product.
- The tour of Whiteside Machine Company, 4506 Shook Road, Claremont, NC, a manufacture of router bits, will now be scheduled for the fall. Allen Grayson is coordinating the visit.
- Bruce Bogust discussed CWA's participation in "Mathews Alive" (see www.mathewsalive.org) event during the Labor Day weekend. We will have a room for displaying projects and doing some "non-power" tool demonstrations. Volunteers are needed for this three day event to man the booth and do demonstrations. CWA would like to fill our area with member's projects for display. See or contact Bruce. Thursday is the setup day and the room is to be manned by CWA Saturday thru Monday (3-5 Sept). Saturday is 12 to 6; Sunday 1 to 6 and Monday 1 to 4. Those volunteering will get a parking pass, which will shorten your walk to the event.
- It was mentioned that Carolina Marquetry Society had a demo recently of how to do inlays. Stuart McDonald showed a plunge base for a Dremel tool that works great for inlays. Another quarterly meeting and class will be held in September with dates to be announced.
- Bob Meunier suggested that those who use "Sketch Up" software for drafting their projects may want to post them to the CWA website in a new area on our website. Everyone thought that was a good suggestion and Bob has discussed with Phil Ashley a location for these on CWA's website.



SHOW & TELL

'Show & Tell' at the July meeting included:

❖ End Table - Bob Meunier

Cedar top and Brazilian cherry tapered legs pinned to the top with bamboo (from chopsticks). Clear coat finish.



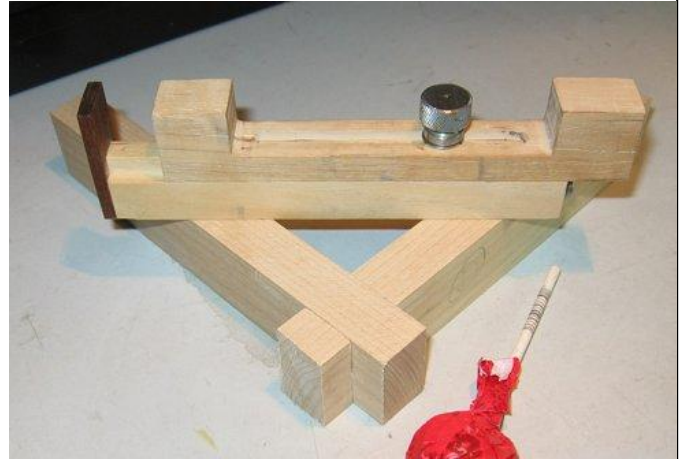
❖ Turned Chess Piece - Fred Miller

Turned these chess pieces for a member to replace a missing bishop. Produced six pieces and left a few on the floor of the shop. These are 2" tall by 3/4" diameter pieces were quite a challenge to turn. (Thanks Fred, they look great. - Roger Callahan.)



❖ Kerf Maker Jig - Tony Profera

Useful jig for cutting accurate dados. Makes very accurate fits. (Editor: See a video at http://www.youtube.com/watch?v=PQ6_S6lZKLI&feature=player_embedded . It shows how a jig like this can be used.)



❖ Displayed on the Show & Tell Table before the meeting was this unique "left-handed" hammer.



Upcoming Learn & Build Projects

Floating Top Table

Greg Smith



We are planning to hold a hall table build workshop on several Saturday sessions and a couple of Monday nights; as needed. We still have to do scheduling, but we anticipate the Saturday work sessions for participants will begin in September, and run every other week for several Saturdays. We are working with the Woodworking Source to sell wood kits for building this project. One kit will be in the \$105 range (Maple legs and Sapelli top) and another in the \$190 range (Curly maple legs and Walnut top). . Or, you can bring your own wood using the following list (dark color for top and lighter color for base works best):

Legs (4): 1 7/8" square x 28" long, Aprons: (2) Front/back: 3/4" x 3 1/8" x 35 1/2", (2) Left/right sides: 3/4" x 3 1/8" x 11", (2) Cross braces: 3/4" x 3 3/8" x 11", Top (1): 3/4" x 14 1/4" x 39 1/2".

See or contact Greg Smith (email: elgrego7@yahoo.com) to let him know that you want to participate in his project.

Box Project

Jeff Dieker

Jeff has made jewelry style boxes and will lead a class in the Fall. Look for more information on this learn and build project in subsequent newsletters. See or contact Jeff (email: jdieker@windstream.net) if interested in the making this project.



Saw Blades 101, Freud Blades and Router Bits

(continued from page 1)

- Triple Chip Grind (TCG)
 - Usually works in conjunction with a flat top tooth.
 - Good for man-made materials; Melamine, MDF or things with no grain
 - Two bevels on either side of the tooth. Flat tooth comes in a cleans it up.
- ATB + R = ATB + Raker
 - Older standard crosscut technology.
 - ATB with a flat tooth to clean it up.
 - Used to rip and crosscut solid wood.
- Grinding Hook Angle Geometry
 - Aggressive Positive Hook
 - 12 to 20 degrees
 - Moderate Positive Hook
- Blade numbers of interest
 - K = Kerf
 - P = Plate thickness
 - 1/8 industry standard kerf
 - 3/32" is thin Kerf
 - o Reduces the power to make the cut
- Freud
 - An Italian based company. 98% made in Northern Italy
 - 66 year old company
- TiCo Carbide
 - Carbide is a powered material that is formed under pressure.
 - The size of the particles makes a difference how long the tip will last
 - A denser carbide will last longer
 - As carbide wears out the particles chip off and wear away. A finer particle resists that initial wear better. Smaller voids.
- Stabilization
 - Don't want a blade that is vibrating: vibrating is rubbing; rubbing is friction; friction is heat.
 - Carbide cutting edge wants to be kept cool.
 - All blades are laser cut from hardened flat stock. NOT stamped out.
 - While getting laser cut, putting in heat expansion slots and anti vibration joints. The joints are back-filled with a polymer to reduce vibration.
 - Computer Balanced Tensioning Ring
 - o The metal is stressed in-between the teeth and the center.
 - o Roller tensioning technique also used.

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Best Quote of Last Few Months

"You never know where your work is going to turn up!"

Fred Miller (Commenting on the next version of a bishop chess piece he may be making.)

Saw Blades 101, Freud Blades and Router Bits

(continued from page 4)

- Freud Fusion Blade
 - Impressive
 - Double grind- two bevels
 - Coated
 - Tri-metal Brazing
 - o Attached to the metal of the blade with silver/copper/silver sandwich
- Coating – Perma-shield
 - Prevents rusting
 - Reduces friction
 - Easier to clean pitch and rust.
- Categories
 - Commercial line
 - Industrial
 - o Fusion
 - o Main line
 - o Small to medium size cabinet shop
 - Diablo
 - o Cheaper Home Depot
 - o The difference in cost is the difference in the amount of carbide in the teeth.
 - o Contractors do not re-sharpen their blades
 - o Thin kerf only.
- Glue Line Ripping Solutions
 - 30 teeth rather than 24
 - Triple chip grind with a positive hook angle
 - Backed off the hook angle from 20 to 12 degrees
 - “Gentle ripping”
 - No swirling or scalloping! Along the cut line.
 - Teeth get dirtier faster than other blades. Not as much room for pitch and resin because the side angle of the teeth is not as steep.
- A clean blade is a happy blade.
 - Don't use oven cleaner
 - Hard on the carbide and the solder that holds the teeth on.
 - Kerosene a good solvent.
- Thin-kerf Ultimate Miter Saw Solutions
 - Best for precision mitering. Not for 2x4s. Use it for picture frames.
- Dial-a-Width dado blade
- Blade height
 - Recommended: ½ the height of the carbide above the surface.
 - Greater than ½ the height can cause problems in certain situations. But try for ½ height on all blades. Don't run them high.
- Serial Number
 - All blades are numbered. Make sure that the resharpening shop doesn't engrave your blade. Not needed.

Router Bits

- Edge Profile Bits
 - Round over; ogee, raised panel used on an edge.
 - Your standard two flute router bit need to have a vertical angle. Can't be an up-tilt or down tilt or it will blow out at the top or the bottom.
 - Freud came out with the Quadra tip bit (4 cutters)
 - o Two are up shear and two are down shear edges.
 - o Comes in 51 profiles
 - o ½ shank only
 - o Very fast feed rate! Faster feed less heat, longer carbide life.
 - ½" Shank router bit line
 - o The angle behind the cutter of a straight bit is shallow initially and steeper behind. Lasts substantially longer before it chipped out.
 - o Ejects the chips better which lowers the heat and saves the carbide.
- New cabinet door bits
 - for long unlimited tenon
 - can be used on 5/8" to 1 1/4" width doors
- Architectural molding bits
 - pair of router bits.
 - can create 51/2" crown molding
 - 9 different profiles
 - good for special projects.
- Large variety of router bits available from Freud (see catalog)

Thank you Tom for a very instructive presentation

Editor's Note:

An article on the Rockler website at <http://www.rockler.com/articles/saw-blades-101.cfm> provides some graphics and additional descriptions of saw tooth geometry for the Freud blades.

Boy Scouts of America

Woodworking Merit Badge:

Scouts working on some merit badges at JPM and working projects typically on Monday evenings.

Explorers Post:

We have had keen interest from area Scouts. An Explorer Post (A co-ed teenage division of Boy Scouts for 14 - 21 year olds) has been exploring a variety of areas of wood working in the broadest sense including framing, cabinet making, furniture making, wood turning, etc. They meet at JPM generally meet once a month on the 3rd Saturday of the month.

Post members that want to also join CWA get a student membership rate of \$15/ year.



JPM Shop Use

Any current CWA member who would like to use the shop is welcome to do so! All that is needed is to schedule the time! If you have something specific you need to do and you need our tools or a bigger shop to work in, please do so!

To use the shop contact Jim Emery at:

JimE@JacksonPark.Org



The CWA meeting raffle could benefit from your donation. If you have any tools (old or new) or shop supplies you would like to donate to be raffled, please bring them to the meeting and let Mike Smith know.



SHOP TOURS

Mike Smith organizes club membership shop tours. The goal is to have shop tours scheduled that are in the same general geographic area to reduce the distances traveled between shops and permit time to adequately tour several shops in a day.

Please sign up even if you don't have a fancy shop

If you would like to put your shop on the shop tour list, please contact Mike at:

mikececilsmith@carolina.rr.com

Note: all shop tours are for active CWA members only. Please refrain from bringing guests, family members, friends, dogs etc...

Once enough shops are committed a date will be set.



CWA Google Groups

There is a new method for CWA membership to communicate!

With a single email we can let you know what's happening. You can also view all the 2009 published club newsletters.

Note: You Can Join This Group on Your Own! To join:

Paste the entire line below in your web browser's address bar

<http://groups.google.com/group/charlotte-woodworkers>

- Hit "enter", Click the link "Join this Group" (on the right).
- Create a Google account if necessary (all they want is an email address and password). Please save your password in a secure place for future use.
- Once "signed in" select the radio button "Email" at the bottom and enter a nickname.
- Send an email out to the group to introduce yourself!
- Use "charlotte-woodworkers@googlegroups.com" as the "send to" in any email communication to all members of the group.



CWA MEETING PRESENTERS

All members are asked to keep an eye out for anyone that might make be a suitable program presenter for our CWA club meetings. Who knows, it might even be you!

Recent presentations have included:

- Dulcimer making
- Shaker Table Build Workshop
- Wheel making
- Windsor chair making
- Spoon Carving
- Fitting a Drawer
- Power Carving
- Bandsaw Boxes
- Hide Glue
- Tuning up a Wide Board
- Workbenches
- Intarsia Lidded Wood Boxes
- Turning a Peppermill
- Using SketchUp
- Log Cabin Building
- Cutting Ogee Style Feet on a Bandsaw
- Building a Mantle Clock
- Tools and Changes in the Industry
- Workshop Design
- Dust Collection 101

If you know of someone with a woodworking skill that could be of interest please contact Dave Powles at: (704) 506-0403.

Boy Scout Woodworking Merit Badge

JPM has been holding shop sessions for 20 Boy Scouts to work towards receiving a woodworking merit badge.

Jim Emery will be looking for volunteers from CWA membership to assist with Saturday workshops, as another session will be offered in 2011. Workshop sessions are anticipated to be held as morning and afternoon sessions.

This is an outstanding way to introduce young people to woodworking. With many school shop programs being phased out this may be the only contact our youth have to a woodshop and the craft of woodworking.

If you would like to put your name on that list to help or would like to find out more please contact Fred Miller at:
fredmiller2@gmail.com.

Watch for additional information to be published to the CWA Google group.

Regular CWA Meeting Time and Place

Meetings of the Charlotte Woodworkers Association, Inc are held the third Tuesday of each month, except for December. Meetings are held at Jackson Park Ministries Woodshop at Sentry Post Drive, Charlotte, NC.

Please check the web site

(www.charlottewoodworkers.org) for directions.

Note: you may see construction on Sentry Post Drive as they have been working the area of late.

A social and refreshment time starts at 5:30pm; our meeting starts at 6:30pm. Come to the meeting early and get to know your fellow woodworking enthusiasts!

The CWA Library

Books and DVDs are available from the CWA library for a buck a month. Contact Maurice Blackburn at MBlackburn1@Carolina.RR.Com

Also, please help your fellow woodworker and make your club newsletter even better by contributing a short book review.

Remember, your review is redeemable for a free DVD rental from the CWA library!

Send your book review to Roger Callahan (roger_callahan@bellsouth.net)



The Classified Section

No items.

This space is reserved for classified ads! If you have any woodworking or related items for sale that you think would be of interest to the membership please contact: Roger Callahan (roger_callahan@bellsouth.net) Include a complete description of the items(s) and a picture or 2 (if possible).

Also, check the bulletin board at JPM as other items may be posted there.



2011 CWA Officers



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MBlackburn1@Carolina.RR.Com



CWA Website
Phil Ashley
(704)-548-2851
phillipjashley@aol.com

Directions to Jackson Park Ministries



From the intersection of I-85 and Billy Graham Parkway:

- 1.) Take Billy Graham Parkway South.
- 2.) Turn Right on Paul Brown Blvd / West Blvd. (this will be after the main entrance to the airport)
- 3.) Turn Right on Airport Drive.
- 4.) First left on Sentry Post Drive.
- 5.) At the end of Sentry Post Drive there is driveway on the left. Enter here. Using the photo above, drive down the driveway and around to the warehouse with the "x" on the top.

From the intersection of South Tryon Street and Billy Graham Parkway (where Woodlawn turns in to Billy Graham). Also exit 6 from I-77.):

- 1.) Take Billy Graham Parkway North.
- 2.) Turn Left on Paul Brown Blvd / West Blvd. (this will be at the light after the Tyvola Road exit)
- 3.) Follow from Step 3 above...

CWA FRIENDS AND SPONSORS

Please thank them every time you use their services.

Woodcraft

1725 Windsor Square Drive
Matthews, NC 28105
(704) 847-8300

[Charlotte Store](#)

WHOLESALE TOOLS

4200 Barringer Drive
Charlotte NC 28217
1-800-438-3580 (Service)

www.wttool.com

5% - 20% discount with current membership card.

Klingspor's Woodworking Shop

www.woodworkingshop.com

800-288-0000

Irwin Tools

<http://www.irwin.com/>

FARRIS BELT & SAW

235 Foster Ave.
Charlotte, NC 28203

www.farrisbelt.com

704-527-6166

complete sharpening services and abrasives

Horizon Forest Products

Greenville, S.C.

<http://www.horizonforest.com/>

Local Charlotte Salesman Chad Mitchell, 704-401-6426

The Woodworking Source

184 Azalea Road
 Mooresville, NC

<http://www.thewoodworkingsource.com>

Phone: 704-662-9663

Whiteside Machine Company

4506 Shook Road
Claremont, NC

<http://www.whitesiderouterbits.com>

Phone: 828-459-2141

CWA MENTOR PROGRAM

The following members have offered their help to anyone interested in learning skills or new techniques in their area of interest. Contact each person to arrange times to get together if interested.

Wayne Manahan

Sharpening

704.786.0768

wmanahan@vnet.net

If you are willing to mentor new woodworkers please let us know. Thank you!



"I have a lightning hammer –never strikes the same place twice.

-John Leake



Roger Callahan
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