

THE SAWDUST

NEWSLETTER OF THE CHARLOTTE WOODWORKERS ASSOCIATION, INC.

Volume 18, Issue 3a

March 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

CWA DUES for 2011

**To remain a member in good standing
please pay dues before March 31.**

Dues are \$30.00 per year (Students \$15). Make checks payable to "Charlotte Woodworkers Association, Inc " or "CWA Inc".

We welcome our returning and new members and encourage you to bring your woodworking friends to our meetings, so they can also join CWA.

Fred Miller collects dues during the monthly meetings or mail your dues to Fred at 1208 Salem Drive Charlotte NC 28209. The membership application is available on our website - <http://www.charlottewoodworkers.org/>

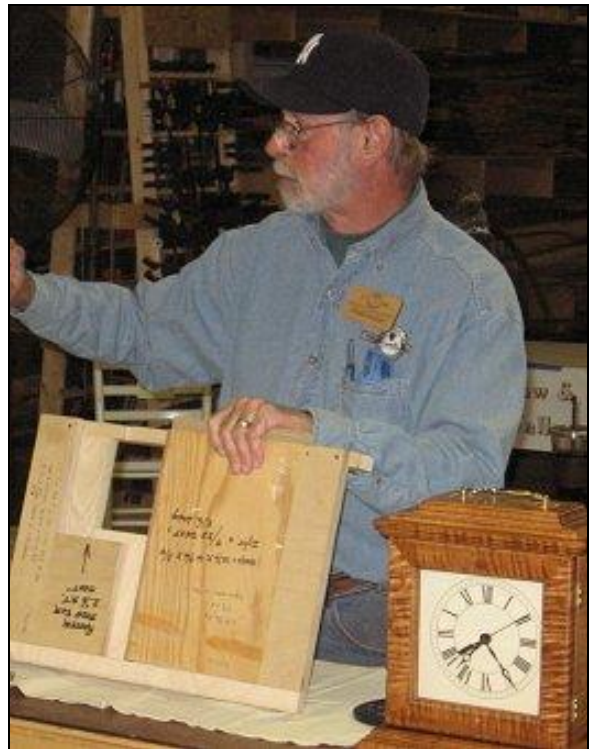
Scroll saw acquired by CWA, Inc. for use.



Building a Mantle Clock

Fred Miller, CWA's treasurer, provided a most informative presentation and discussion about the techniques and tips he has learned building more than 30 mantle clocks.

The following text is from a handout Fred provided.



A clock case can be as simple or as elaborate as you want it to be. The first rule, though, is build the clock from the inside out. This means the size of the dial or the face, and the size of the movement to be enclosed in the case, will determine how large the case needs to be. For my clocks I prefer using faces 7 ½ inches square overall, with a time ring roughly 5 ½ inches in diameter. The movements I use are very good quality electronic quartz, battery powered. Even if you choose an electronic chiming movement, it will fit inside the case without any challenge.

(cont'd on page 4)

CALENDAR OF EVENTS

March 25-27: **THE WOODWORKING SHOW** -

The Park (the old Merchandise Mart)

See for details:

<http://cms.thewoodworkingshows.com/cms/Home/CharlotteNC/tabid/202/Default.aspx>

April 9: FARRIS BELT & SAW Tour at 9am. Contact Allen Grayson (704.651.7010) and you must RSVP to attend tour.

April 19: **CHARLOTTE WOODWORKERS ASSOCIATION, INC. MEETING** - 6:30pm

Program: DeWalt Representative, Cody Carpenter, will discuss new tools and shifts in the industry.

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

May 17: **CHARLOTTE WOODWORKERS ASSOCIATION, INC. MEETING** - 6:30pm

Program: Bill Golden: Shop Planning.

June 21: **CHARLOTTE WOODWORKERS ASSOCIATION, INC. MEETING** - 6:30pm

Program: Bob Molby: Dust Collection

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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>

Treasurer's Report: as of 2/28/11

Opening balance	2307.84
Deposits	934.00
Checks	308.85
Closing balance	2932.99

Mike Smith's March Meeting Kickoff and Other Items from the Woodpile

- The last weekend, March 25 thru 27, is the Woodworking Show in Charlotte and CWA will have a booth. Volunteers have already signed up to do demos. We need additional volunteers to talk with potential new members. Also, if you have a woodworking piece to display, we would like to place those in the booth. **You will get in free if you are manning the booth.**
- **Please email Mike at: mikececilsmith@carolina.rr.com to help out.**
- 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.
- CWA will participate in "Mathews Alive" Labor Day weekend crafts and art event. Please consider displaying some of your projects. Great opportunity to recruit new members. More details to follow.
- In addition to the upcoming CWA monthly programs shown in the calendar section, plans are in place for demos and discussions of new router technology and bits; EZ-wood lathe tools; small shop woodworking; dovetail methods; and finishing. See the Sawdust calendar each month for upcoming programs.

Club Logo Embroidered - CWA Shirts

John Seaman has arranged for CWA members to get an official "club" shirt. They are a 6.5 oz. blue denim (short or long sleeve) shirt. Price is \$23.00. Take pride in CWA and order a shirt. See John Seaman at a meeting or contact him at jseaman170@gmail.com.

Wear them with pride. If possible wear them when we do public events.

Other items with our logo will also be available for individual purchase, such as golf shirts, hats, vests, etc. See John and his catalogue at our monthly CWA meeting.

SHOW & TELL

The 'Show & Tell' preceded the start of the March meeting. Several members displayed and briefly described some of their recent work.

❖ Crosses: Fretwork - Mike Smith



❖ Dulcimers - Bob Molby



FOR SALE FROM MEMBER:

Some wood vises.

I've got these old wood vises that can maybe provide parts for someone. None have the 1 x 8 threaded nut, but that can be found. Three have the back support and three don't.

Any offer will be accepted.

Thank you

Neil Brunck
neilbrunck@netscape.net
704-521-8480



Building a Mantle Clock

(continued from page 1)

Once the size of the case is determined, cut the top, bottom, and two sides. The top and bottom pieces need to be sized to allow for any edge routing you want to do. The side pieces need to be long enough to include sliding dovetails, if you choose to dovetail the case together. The side pieces need to be spaced far enough apart (inside measurement) to house the clock face. Since the connection of the top and bottom is a critical measurement, you may choose to cut them extra long, then mark and cut the dovetail slots, and then finish cutting the top and bottom pieces to finished length.



The overall height of the sides needs to include the tenons or dovetails used for connection to the top and bottom. The length of the sides also need to include an additional $\frac{3}{4}$ " at the top and the bottom to allow $\frac{3}{4}$ " spacer strips for correct framing of the clock face. The critical point here is the measurement – a small inaccuracy will be very apparent in a small piece like a clock case. Mark your cuts with a knife – not a pencil!

After the top, bottom, and sides are cut and dry fitted, measure and mark for the door hinges. I like to locate the hinges on the right side of the case, as you're looking at the front. Now is the time to cut the hinge mortises, while the pieces are unassembled. I use brass hinges 1-inch long, with $\frac{5}{8}$ -inch leaves. I use a Dremel with a fixed router base to cut the mortises. The hinges should be placed on the side in line with the inside edge of the door opening... i.e. the top of the upper hinge should align with the lower inside edge of the door's rail and conversely the bottom of the lower hinge should align with the top of the door's rail. Spend extra time cutting the mortises accurately, and they will automatically align the door with the case after everything is assembled.

If you plan to use a chiming movement, cut slots or drill holes in the bottom piece to allow the sound to escape the case.

Now, before assembly, you can apply your choice of decorative routing to the front and side edges of the top and bottom. I use a Roman Ogee shape, with the top piece rounded over. Only route the front and side edges of the top and bottom. Also, keep in mind that the top and bottom are "reflective shapes", so route the bottom side of the top, and the top side of the bottom. The top surface of the top can be rounded over.

Sand all the pieces you've made so far to your finished grit, probably 180 or 220. While the pieces are unassembled I apply a 1 $\frac{1}{2}$ # cut of shellac to the end grain to seal the routed end grain, to prevent wicking too much finish, which will appear darker once the case is finally finished. It's best to do this now, rather than wait until the case is glued together. You can glue the top, bottom and sides together now.

Measure for the bottom piece, and cut the three base pieces to length after routing a round over and a rabbet to house the bottom. Miter the sides and front carefully. The bottom edges of the base can be relieved $\frac{1}{4}$ -inch to allow the base to have "feet" (a real nice touch!). The relief cuts should be located 1-inch from the ends of the side pieces, and 1 $\frac{1}{4}$ -inch from the ends of the front piece.

Cut two $\frac{3}{4}$ X $\frac{3}{4}$ -inch strips to fit inside the front of the case, top & bottom, to frame the clock face. You can go ahead and glue them in place. Once these are dry, cut your plywood backer for the face and movement to be attached. Glue this to the backside of the two strips you just installed. I also use small glue blocks behind the plywood backer for strength. Depending on the length of the hand shaft of your movement, $\frac{1}{4}$ -inch plywood is fine for this.

For the top of the clock, one or more "crown" pieces can be used. I use one $\frac{1}{4}$ -inch thick with a round-over edge, and another smaller piece with an ogee or small panel routed edge. These are glued to the top, flush with the back of the case. Cut these to a length that ensures their front corners will continue an imaginary 45-degree angle from the two front corners of the top. Center them, and glue them in place.

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Best Quote of Last Few Months

"If I get everything square and true; things go much smoother."

Dave Powles

Building a Mantle Clock

(continued from page 4)



Measure for the door. Route the round-over edge for the inside (framing the glass), and rabbet the inside edge to house the glass. Miter these pieces together like a picture frame. Allow room in the rabbet to contain the glass pane, plus a small 1/4-round molding to hold the glass in place. After the glue dries, hold the door in place and transfer markings for the hinge mortises in the door. Go ahead and cut the mortises, taking extra time to cut them accurately to match the ones in the case. To reinforce the glued corners, I add a small corner-cut “key” across the joint. It also shows a high degree of craftsmanship you’ve put into your clock.



To enclose the back of the clock case, I use another piece of 1/4-inch plywood. Glue strips inside the case back for the back plywood to rest against. After finishing, I use small brass turn-buttons to hold the back in place.

Go ahead and apply your choice of finish to the case and door.

Insert the clock face into the case and mark the location of the hole for the movement’s hand shaft. Remove the face and drill this hole. Remove the protective plastic coating from the face, and mount it and the clock movement in place, complete with the clock’s hands. I like to frame the face with small 1/4-round moldings – it keeps the face edges from pulling away from the backer, and adds a nice touch. I secure the 1/4 round strips with hot glue.



Mount the glass in the door, using small 1/4-round strips secured with hot glue. Now you can attach the hinges and attach the door to the case. To keep the door closed, I use a small brass hook and screws.

Sign and date your work!



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Building a Mantle Clock

(continued from page 5)

Tips:

–Don't want to use dovetails? You can also use butt joints that are screwed together or cut a small dado for a small tenon.

–Accurately cut hinge mortises will automatically align the mounted door properly. Spend extra time with your mortises!

–Make your router cuts on end-grain first, then long-grain.

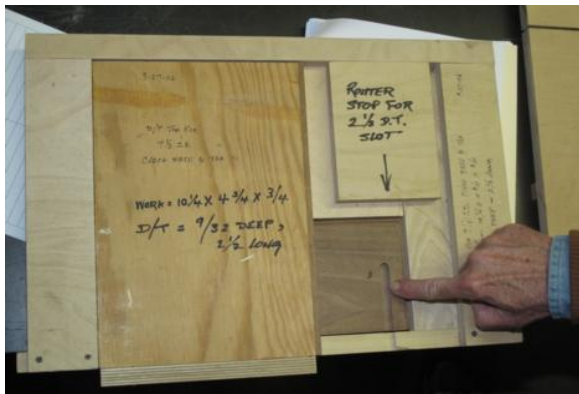
–Any decent brass hinges will do. Unless the hinges are American-made, throw the screws away and use screws from McFeely's (you can order online at mcfeelys.com). Screws made in India and China will snap off just when you don't want them to, so don't even try to use them. Also, pre-drill for the screws, and I like to pre-thread them using a small gimlet to cut the threads.

---- End Article ----

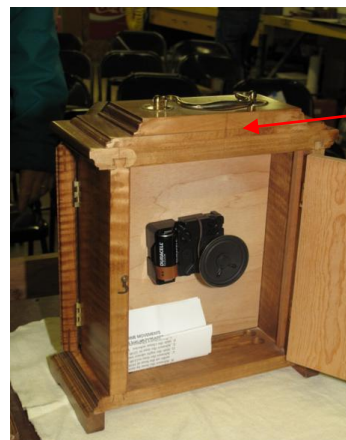
Additional notes:

- Start with the bottom & top
- Sides attached with sliding dovetails
- Just route the slot. With a hand-held router
- Put the bit in the router table and cut the pins.
- Sneak up on the fit. When it barely goes in, sand the leading edge a little but leave the back unsanded to lock it in place! The last 1/2 inch is un-sanded to lock it in.
- Don't do a lot of dry-fitting or the dovetail will loosen up.

Pictured below is a jig John Goodson created based on Fred work for use in making the base and top.



- When you use the jig route with the router pressed to one side and come out with it pressed to the other. I don't make just one clock anymore. By the time you do all of the set ups you may as well as make a bunch. Minimum of three at a time.
- Using an Ogee bit route the underside of the outside edge of the top of the clock, and the top of the outside edge of the bottom of the clock so that when you put them together they look like an hour glass.
- Top Pieces or "Crown" used a mini-panel raising bit which makes a much nicer profile.
- Everything is symmetrical on the top. So as the pieces that make up the top get narrower as you stack them up, they also fade to the back of the clock. All the points of the edges should follow a 45 degree angle down toward the corner.
- When you are making something small, if you are 1/64" off it will look awful! Throw away your pencil when marking these things and USE A KNIFE!
- Put knife marks in the back center of the crown parts to line everything up later. Use a centering ruler.
- When you glue the crown parts to the top, wait for the glue to get tacky and line it up. The clamps might slide things around a little but the knife marks on the back of the pieces make it easy to line everything up again.



Knife Marks for Centering

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Building a Mantle Clock

(continued from page 6)

Hinges:

- Use a knife/cutting gauge to mark the hinges. If you cut the mortises accurately so that the hinges fit just right, the door will swing closed perfectly.
- Bottom of mortise must be dead flat'
- Cut the mortises with a Dremmel router. 1/8" straight cutting bit. Do the case first, use the case to mark the door placement of the hinges.
- Before you cut the hinges you need to know how wide the door pieces are (typically 1-1/4"), because the top of the hinge is lined up with the bottom of the top rail on the door and the bottom hinge lines up with the top of the bottom rail of the door.
- If you don't like the barrel of the hinge sticking out where it can be seen: Cut the mortise in enough to set the barrel of the hinge partially in the mortise and slightly hidden. The depth of the mortise must be deep enough so that the leaves of the hinge are below the surface of the rails. When the door is closed the leaves are parallel.
- There is a video that deals with the hinge issue. "How To Make Small Boxes". Borrow from the club library.
- Use hardware store hinges but make sure they are "solid brass". Okay if they are made in China or India, but throw the screw away! The heads break off. Get the screws from McFeely's catalog. Lots of screws and selection
- Pre-drill the holes! To get the center of the hole
- Use a Vics Bit. Drill the hole with a bit smaller than a screw
- A **gimlet** – a hand drill that pre-drills and pre-threads your hole. Lee Valley sells them.
- Hinges on the right side of the clock when you are looking at the front of it.

Gimlets:



- All clocks are flush to the back. Most mantels are not very deep today.
- There are two horizontal cross pieces that go on the inside of the clock. They line up behind the door. Same thickness as the sides of the case to keep the proportions right.
- That is what the 1/8 or 1/4 plywood is mounted to.

Clock Face:

- Easy to scratch up! Be VERY careful with this. Especially when you are putting the nut on the 'hand shaft' and tightening it up.

Base:

- Needs feet to give it a little energy. A solid base is boring. Needs "feet". Very small pieces are hard to run on your router table. And dangerous.
- Put any two or the three pieces in a clamp, face-to-face.



- Put something behind them to prevent chip out. Use a 1/2 fostner bit. Three 'pulls' on the drill press gives you six relief cuts! And no finger lost! These relief holes let you put the piece on the bandsaw. Pull a fence up to it nice and snug. Turn on the bandsaw and make a nice cut. Use a 3/16" wide blade on the bandsaw. Clean up the cut marks with a sanding.
- This is also a good base for decorative boxes.

Door Miters

- They need to go together very well. The trick is not to use a miter saw. Use a mitering sled on a table saw.
- Even if the sled is off slightly, by cutting the miter on each side of the blade you get a tight miter because it adds up to 90 degrees!

Door:

- Needs to be wide enough so it doesn't look flimsy, but small enough so that when you look at the face of the clock you see the outer edge of the time. 1-1/4" wide about right.
- To make: route one long strip (with the great grain).
- Route the round over. Route the groove for the glass
- Use the grain in sequence so that the grain runs nicely around the face.
- Four sides (roughly 9 inches square.) The vertical styles are a little shorter so that the door doesn't drag when you open it.

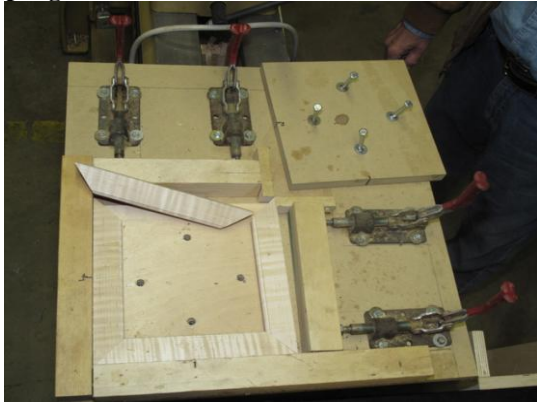
(continued on page 8)

Building a Mantle Clock

(continued from page 7)

- A glue-up jig helps.

Glue-up Jig:



- Wax the jig to prevent the glue from sticking to it.
- Glue all of the ends. By the time you put glue on all of the ends it has soaked into the end grain. Make a second pass add a little more glue.
- After it is built, use a knife and transfer the mortise for the hinge position. Cut the hinge like you did on the body of the clock.
- Add a 'key' to the miter. (Some people call this is spline, but a key cuts across the corner and doesn't go all the way through...)
- Use a jig to cut all four corners of the door frame for the key slot. Cut the keys oversize on the bandsaw. Install them and cut & sand them flush. On a maple or walnut clock use cherry for the key. A wood that gives a mild contrast so that it is noticed but doesn't jump out.

Finishing:

- Before you do any assembly do all of your sanding.
- Up to 180 or so. After finish sanding, coat all of the end-grain with a glue/glue sizing.
- Glue sizing is a diluted mix of glue & water. 40 glue:60 water. Less than the viscosity of milk. Don't smear it where you don't want it or it will block your finish. Paint it on. Prevents the end-grain from sucking up all of the finish and getting very dark.

Latch on the side:

- A little brass hook and two little screws.
- A little felt dot so the door doesn't rattle...
- The back panel is held on with spin tabs (like on the back of a picture frame).

Clock Hands

- You get a choice of hands when buying the clock motor.
- The order list tells you the length of the minute hand.
- You don't have to add a second hand.
-

Finishing Touch

- Put felt dots on the bottom of the feet.

Fred "Side Trips" of random advice:

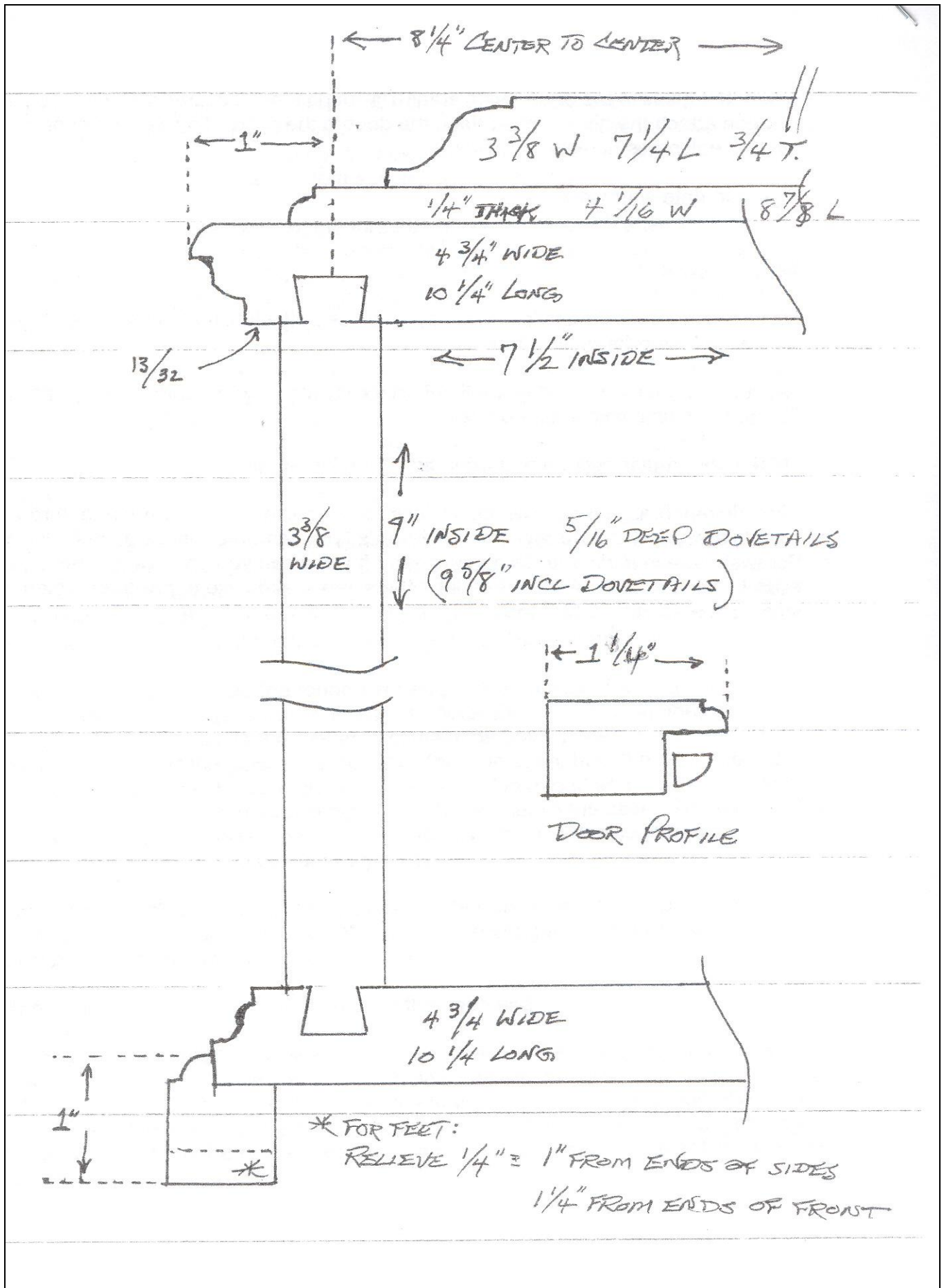
- Use baby blankets on top of the work bench! No lint! Because they have already been washed a thousand times...Prevents a lot of scratching to your sanded work pieces. A ding on one of these clock parts is, Murphy's Law, going to be in the only place you can't sand it out... Pick them up CHEAP at yard sales.
- Not building clocks with chiming movement anymore. Feedback was some people found it difficult to set the number of chimes to match the time for daylight savings.
- You don't want to trim or resize the metal face of the clock. You have to trim evenly from BOTH sides to keep the face in the middle. Difficult & annoying. Just make the opening the same size as the face you buy.
- "KlocKit" catalog has the parts you need. Woodcraft & Michaels craft store carry some these same components.
- The catalog tells you who makes the parts and if they are US made. TimeSavers is another good source. Especially for clock repair parts.

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Thanks Fred - great information.



See Clock Dimension Drawing Fred Provided on Page 9



Boy Scouts of America

Woodworking Merit Badge:

Scouts working on some merit badges are at JPM working projects 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

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

See Page 3 for some items for sale

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



Mike Smith
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704-535-4497
mikececilsmith@carolina.rr.com



David Powles
Vice President, in-charge of programming
(704) 506-0403
Sorry, no e-mail available



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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 SPONSOR

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



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
3334 Whistley Green Dr.
Charlotte, NC 28269

BUILD RATE
US POSTAGE
PAID
PERMIT NO.
00000

ADDRESS CORRECTION REQUESTED
