

# THE SAWDUST

NEWSLETTER OF THE CHARLOTTE WOODWORKERS ASSOCIATION

Volume 17, Issue 9

September 2010

## 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 Mike Smith for the photos he provides : - much appreciated.

Roger Callahan ([roger\\_callahan@bellsouth.net](mailto:roger_callahan@bellsouth.net)) - Secretary

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## Other Items from the Woodpile

A committee made up of Mike Smith, Don Kendall and Roger Callahan will research steps to incorporate CWA and insurance for directors and officers.

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The Marc Adams Woodworking School of Franklin, Indiana ([www.MarcAdams.com](http://www.MarcAdams.com)) is planning to bring some of their educational programs to local areas. Programs could include cabinet making, joinery, marquetry, basic veneering, router usage and 'methods of woodworking'. The club is considering, if there is interest in a two day session ( Saturday and Sunday) that could be sponsored by CWA. Cost to CWA might be \$1000; so if there were ten students, the individual cost would be approximately \$100. If interested let Dave Powles or Bruce Bogust know your interest. Course may be in the Spring.

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Please look at the '**Calendar of Events**' section of the SAWDUST (page 2) for opportunities to assist JPM and the Boy Scouts.

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Members are encouraged to begin their projects for the Jackson Park Ministry and the One Special Christmas charity auctions that will occur in a couple of months.

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## Member Table Projects

CWA members Mike Smith, Mike Pleso and Greg Smith had recently completed some tables. During this month's meeting they showed and discussed their projects.

### Mike & Mike's End Tables:

Mike & Mike decided to work together in Mike Smith's shop to build some end tables. They found many table plans available in various magazines and they decided to build end tables, which would have a single drawer and a shelf underneath (to keep woodworking magazines handy).



With the plans decided upon, they were able to select wood (Mike Smith's was build from Brazilian Cherry and Mike Pleso's was made from white oak) and laid out the sizes of pieces to see how the grain would look; as he wanted the grain to wrap around the table.

Mike Pleso glued up smaller pieces to make thick legs and using a jointer it was almost impossible to see the joints when it was glued up. The legs have a very slight taper.

For the tops it was very important to match the grains and the tops were glued up without biscuits. After dry fitting the pieces, pocket screws were used to attach the skirts to the legs. The project was proceeding very rapidly.

The drawer and dovetails turned out to create some interesting challenges. *(cont'd on page 2 )*

## CALENDAR OF EVENTS

October 19: **CHARLOTTE WOODWORKERS ASSOCIATION MEETING - 6:30pm** \*\* Bring 'show and tell' - recent projects, items, etc. to share with members.

October 23: **BOY SCOUTS CARPENTRY MERIT BADGE** - Beginning at 8:30 am plan on assisting the Boy Scouts at the JPM shop. This badge is only being offered this year.

November 6 & 13: **BOY SCOUTS WOODWORKING MERIT BADGE AT JPM** - new class: from 8:30am to 1pm. Please let Jim Emery know if you can assist.

### WOODCRAFT STORE IN CHARLOTTE UPCOMING CLASSES:

Oct 03(Sun.) Sharpening Hand Tools - 12:30pm - 3:30pm  
Oct 07(Thur.) Carve a Duck Head - 6:00pm - 9:00pm  
Oct 10(Sun.) Basic Lathe - 12:30pm - 4:30pm  
Oct 14(Thur.) Table Saw Use & Safety - 6:00pm - 9:00pm  
Oct 16(Sun.) Router II - Make a Hinged Box - 9:30am - 4:30pm  
Oct 21(Thur.) Finishing - French Polish - 6:00pm - 9:00pm  
Oct 23(Sat.) Finishing Your Hinged Box - 6:00pm - 9:00pm  
Oct 24(Sun.) Lathe VII: Natural Edge Bowl - 12:30pm - 4:30pm



### Treasurer's Report: as of 8/30/10

Opening balance	2498.63
Deposits	150.00
Checks	670.00
Bank Service Charge	2.00
Closing balance	1976.63



## Member Table Projects

*(continued from page 1)*

The drawer would be dovetailed. After practicing and doing some hand cut dovetails, they decided to pull out a inexpensive dovetail jig and router. One of the interesting pictures Mike presented showed the smoke being created while using this jig (see below). The inexpensive jig was not working out.



After switching to a Porter Cable Omni Dovetail jig and with a little practice, excellent dovetails were created for the drawers.

Mike noted the addition of the drawer to the table "super" complicates building the table. The draw slides, dovetails, fitting, etc. all requires more time and effort.

Members had an opportunity to see Mike Smith's table, which was ready for finishing. He plans on using a Danish oil finish and possibly a wipe-on poly.

Members noted in the slide presentation that accompanied their discussion, that during the project Mike & Mike took a number of breaks. They also appeared to eat well during these breaks; as Mike Pleso noted, "Mike Smith has a microwave and refrigerator in his shop"!

Also, see an article by Mike Smith in this issue of the SAWDUST for more information about sharing our projects among members and how we can benefit from members suggestions and thoughts.

### Greg Smith's Floating Top Table:

*(continued on page 3)*

## Member Table Projects *(cont'd from page 2)*

### Greg Smith's Floating Top Table:

Greg has made a couple of these tables, providing one as a wedding gift. The table he brought to the CWA meeting was made of European Beech (legs and skirt) and Walnut for the top.

Greg mentioned the plans for the table are from Fine Woodworking (FW) magazine and available online at <http://www.finewoodworking.com/item/19819/>. The FW article describes the template jig for cutting and making the curved legs, which Greg used on a table top router with a pattern bit. Greg mentioned it is important to cut the mortises before cutting the curved legs.



Greg noted the joinery at the legs is not 90 degrees and he was able to create the proper angle with a shim using his table saw when cutting the shoulders of the tenons. The top was formed from two pieces edge glued and the edge tapered on the table saw.

The stretchers are raised above the skirt and legs about 1/2" to create the "floating top" effect. The stretchers are doweled to the skirt with the top screwed down from the bottom through the stretchers.

The finish is boiled linseed oil and he used a sprayed on shellac first, de-waxed and then some water based lacquer. (In hindsight he would also have used some grain filler.) He sanded the built up finish with wet dry sandpaper and then polished it out. Greg was pleased with the water-based spraying; as he was experimenting with this approach. Greg noted the finishing took the most time.

## Member Table Projects



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Thanks to Mike, Mike and Greg for sharing these projects and your experiences building the projects with the CWA members.

## SHOW & TELL

During a 'Show & Tell' section of the September meeting several other members displayed and briefly described some on their recent work.



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## Boy Scouts of America

### *Woodworking Merit Badge:*

We anticipate another session for 20 scouts on November 6 and 13. Please be prepared to assist. (See calendar for current activity and dates.)

### *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!

JPM has plans to expand again by adding 3-phase power. Additionally a large classroom will be added. It is planned to accommodate groups of up to 25 people!

CWA will be looking into the acquisition of assorted "Big Iron" (3 phase) shop equipment such as Jointers, Planers, and Table saws. A wide belt thickness sander was noted as good piece of equipment for CWA to have.

To use the shop contact Jim Emery at:  
[JimE@JacksonPark.Org](mailto:JimE@JacksonPark.Org).

## 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](mailto: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.

**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.

September Meeting Photo by Mike Smith:



## 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:

- Carving
- Woodworking Project Photography
- Bandsaw Setup and Bandsaw Blades
- Turning an Offset Padfoot Table Leg
- Marquetry
- Sharpening
- 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

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 is seeking volunteers from CWA membership to assist with Saturday workshops, as another session will be offered this Fall. 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](mailto: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 Woodworker's Association 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](http://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!



## Continue to Invite Potential New Members to Our Meetings

Dues are \$30.00 for new members and \$25.00 for renewals. Make checks payable to "Charlotte Woodworkers Assoc." or "CWA".

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/>



## 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?hl=en>

- 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.

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## **Nothings Perfect, Especially My Work by Mike Smith**

At our August meeting, Mike Plesso and I brought in our table projects for show and tell. Except for the wood, the tables are exactly the same, Mike and I had been making them at my shop. I would like to see other people bring in their projects for "show and tell." This is just my opinion, but I don't think we do this enough. I really enjoy seeing other peoples work.

When I bring in a project, I expect to get a few comments about what I maybe did not do just exactly right. Almost all of my projects have a little "character mark" on them somewhere. No matter how hard I try, I can't seem to put together any project of size without some type of character mark. Honestly this doesn't bother me very much, what bothers me is the situation that let me create the mistake (I mean character).

What I wanted to say about bringing my project in for Show and Tell, is that I got two very good comments/recommendations about my table. For this table, I made my drawer bottom a solid wood drawer bottom, instead of what I normally do and use some type of plywood bottom. I had the grain on the drawer bottom going from the back of the drawer to the front of the drawer. This means I had to allow for expansion of the bottom on the drawer sides; which I had done. So there was no problem with the drawer bottom expanding and breaking the drawer. I had sized my drawer so that there was plenty of room for expansion and contraction, just like you would do on a raised panel door. No problem, right?

Well, actually there isn't a problem, but somebody said that I should make my grain on my drawer bottoms go from right to left, instead of front to back. I think it was Bruce that mentioned this to me. With the grain going from left to right I don't have to worry about the drawer bottom expanding and I could make my drawer bottom fit better because of this. This is not my first drawer bottom; I had made other drawer bottoms the same way. So when Bruce told me this, I was thinking in my head (DUH, why did I ever do it the other way). As to why did I ever do them the other way, I'm sure it started with me reading some article or watching some DVD and seeing it done this way, or maybe I just got it mixed up. In either case I'm glad I brought my project in, just for that tip alone.

*(continued on page 7)*

### **Best Quote of Last Few Months**

*"I like to start slow and taper off."*

**Mike Smith**

## **Nothings Perfect, Especially My Work by Mike Smith**

*(continued from page 6)*

The second thing Fred Miller mentioned to me was to chamfer the bottom of my legs to the table. This is not something that I did wrong, it was something I just forgot to do. If you know me, you know I'm a little partial to forgetting things (like my head if it wasn't attached). If you don't chamfer the bottom of your chair legs, they might just split or crack when the table is moved. It's a simple little thing I forgot to do, but if Fred had not mentioned it, I might have permanently forgot to do this. Just a couple of weeks before I built a table for my patio, and sure enough, I forgot to chamfer the legs on that table also.

So you see, I brought in a nice project and got two good observations about my table. Mike and I got a lot of good comments on our tables but I especially appreciated Bruce and Fred's comments. I'm hoping others will bring in their projects, big or small and let us see them. I brought in a small folding stool and a infant step stool to our September meeting and they were well received. We also had a few other projects brought in. It doesn't have to be a large project, it can be anything you make.

*Mike*

## **Dust or no Dust**

by Bob Molby

Several years ago I decided that I needed a dust collector system for my home shop. My woodworking experience goes back almost 30 years. But, not until about 10 years ago that I began to be serious about woodworking and admitted that I needed dust collection. My router with a small portable table and a radial arm saw served me well for many years. When I moved to NC I took possession of a 24' X 24' garage for my shop. After adding a jointer, planer, band saw, small lathe and began using rough sawn lumber I realized that I needed something to collect wood chips, sawdust and sanding dust.

My casual search eventually led me to a web site authored by Bill Pentz. Bill presented the problem and a solution with scientific evidence. Studies by the medical community made me realize that I needed good dust collection; small wood dust particles cause pneumonia. The technical discussion of static pressure (DP), air velocity (FPM) and air volume (CFM) plus some data about particle size and the medical risks of breathing wood dust convinced me to get serious and install a central dust collection system. The medical risks were not just for me but for the grandchildren that frequent my woodworking shop.

I checked all the dust collection that I knew of. I had worked in a tableting facility for several years so I knew of the existence of dust collection equipment. However, none of the systems that they used were for me and my application. Several manufacturers have bag systems advertised in my woodworking catalogs and magazines. I first considered a bag system, but they require too much maintenance, they were too small and the particle size that they capture was not small enough.

I found a link on Bill Pentz's website to Clearvue cyclones. According to Bill this type of system was the best for my application. So, I began to inquire about cyclone systems. I was soon mired down in contradicting "technical" data and marketing lingo from several manufacturers. (Clearvue, Grizzly, Penn State Industries and Onieda)

After some time and technical education I began to understand what was really needed for dust collection and the capabilities of the cyclone dust collector. I still do not have a full grasp on the interaction and function of DP, FPM and CFM for dust collection in a "hobbyist" shop like mine. But I have a system that works better than I expected.

So... Here's my journey:

*(continued on page 8)*

## Dust or no Dust

(continued from Page 7)

I started with the current layout of my shop. Then I spent a lot of time doing “what if” with the layout and trying to come up with a good work flow that I liked.

Then I placed the location of the dust collector drops (ceiling to floor) because I wanted the main line above the ceiling. With this on paper I estimated the length of all the duct runs, noting elbows, 45's and junctions. From charts and tables, I estimated the static pressure for each drop. The static pressure will determine how much air flow each drop will deliver. Armed with this information an installation cost was calculated. Wow! Sticker shock!

I had estimated the duct runs using spiral metal ducting. This is the preferred material for dust collection duct work. Those who have gone before me also pointed out that the cheaper metal duct for HVAC will not handle the static pressure, often collapsing when the gates are closed. A less expensive duct material is PVC pipe. But, the NFPA (National Fire Protection Association) says that dust collector duct work must be made of metal because of static electricity concerns. The fear is that a static spark, generated by the air flow through the duct will ignite the wood dust and cause a fire or explosion. I searched the web for some guidance. I found that there have been tests done to prove or disprove the NFPA requirement. It has been demonstrated that the static spark from a dust collector duct made of PVC does not have enough energy to ignite the wood dust, although, you may still get a shock from it. So, it is recommended that you do some sort wiring to bleed off the static energy and there are many creative ways to get this done.

For my system I used PVC and I have grounded only the wire in the flex tubing used to connect from the PVC to some of the machines. I have only observed static spark at the planer connection end of the flex tubing.

I was told that by using Soil and Drain PVC the price would be lower than using Schedule 40 PVC pipe. The S&D pipe is a lot lighter making installation a lot easier. I could not handle a 10' length of Schedule 40 PVC.

The installation estimate was redone using S&D PVC and the sticker shock was less, but still more than I wanted to pay. So, I made my ‘first’ mistake. I rearranged the woodworking equipment to optimize the duct layout. In retrospect the savings does not make up for the poor arrangement of machines and work areas. However, it is not bad enough for me to correct the layout.

Now more decisions, I decided to route the blower exhaust outside my shop. I asked about this in a forum and got a good response. They said that blowing any dust not extracted by the cyclone outside was fine; no one was concerned with environmental issues. The response also mentioned that with my system it would take about 5 minutes to exhaust all of the conditioned air in my shop to the outdoors. Then the shop air would be replaced with outdoor air. This is fine if the outdoor temperature is 72 Deg. But what about when the outside temperature is 90 or 40 Deg (like our weather this year). With this advice I decided to exhaust the blower through .5 micron filters back into the shop.

The size of the duct runs was an area that confused me the most. I began to understand the size requirements for each of the machines in my shop. But, herein was the area of confusion. The various manufactures published different recommendations for duct sizing and blower horse power. I finally decided to go with the guidelines from Bill Pentz. Mostly because he published some engineering data and did not seem to have any contradictions and it was something that I could do myself. I learned some interesting things, like two 4” ducts have a smaller cross section area than one 6” duct etc. I do not understand the design well enough to explain it here. I just applied the recommendations of a trusted source.

I decided on four 6” drops between the main line above the ceiling to the shop floor. The planer, jointer and band saw share one with 4” flex connecting to the machines( I was not willing to cut 6” holes in my machine housings). The lathe has a 6” and a 4” port. The radial arm saw is connected via a 6” port and a 1 1/2” port. The last port via 4” and 2” flex is shared by the table saw, router table and portable tools on the bench top. Each machine would have a blast gate to control the air flow. The longest run was to the radial arm saw, approximately 32 feet and the static pressure calculated was about 10” WC. From the manufacturers charts this would provide at least 950 CFM, more than enough.

I felt that all the design questions had been answered. I had selected a distribution system, a cyclone and a shop layout detailing the duct sizing. What more could I need? I ordered the cyclone, blast gates, flex tubing, the PVC pipe and a few 2X4s.

My cyclone came unassembled, for me this is part of the fun of building something. I hung my cyclone blower assembly from the ceiling joists anchoring it to an outside wall. Second mistake! In retrospect I should have built a free standing support for my blower assembly.

*(continued on page 9)*

## Dust or no Dust

(continued from Page 8)

I assembled the main duct runs of 6 inch PVC using Y's and 45's instead of 90deg elbows. My system has a 6" main duct that ends as close to the machines as I could get and then 4" flex from to the machines. I wasn't willing to cut 6" holes in my machines to connect directly to the main line.

There were no design decisions needed for the electrical part of the installation. I have done electrical work before and did this myself. The blower motor is 5 HP and uses 220 single phase power. I use a relay connected to a wall switch to turn it on and off. The power for the relay circuit is from the lighting circuit. I did this so whenever I left and turned off the lights the blower would shut of even if I hadn't used the dedicated switch.

As soon as I had the blower assembly mounted and the wiring finished I had to turn it on. Wow! Third mistake! The manufacturer stated that the noise level was 78db. They also stated that normal conversation was about 70db. So, I thought that 5db louder was no big deal. Wrong! Those of you who understand the decibel scale are already laughing. For those who are like me, the decibel scale is logarithmic. To a novice like me that means that a 3db change is a doubling of sound. Now I had a new problem, I needed hearing protection to wear all the time that the dust collector was running.

My solution was to enclose the dust collector cyclone in its own enclosure with insulation on the enclosure inside walls. The enclosure is normal 2X4's with 1/2" drywall on the outside. I have a standard 6'8" door on the enclosure so I can get in for service or to empty the collection drum. I have not measured the sound level but it is acceptable for continued use.

The first machine connection to be completed was the table saw. I have Delta contractor saw, I installed the dust port that came with the saw. It is a 4" connection with the rear of the saw cabinet open where the motor hangs. Some articles I have seen have this open space covered. I think that with this opening covered and a zero clearance insert that the available air flow is too low. Accordingly, I have left the rear opening to my saw uncovered.

My first test was a resounding success. I am very pleased with the dust collection as it is. However, there is always room for improvement. There is no capture of the dust that sometimes ends up on the saw table top. Someday I may address this inconvenience.

My radial arm saw has a 12" scoop like collector with a 1 1/4" connection to the blade guard.

The Midi lathe has a 6" connection to a dust and chip box on the rear of the lathe plus a 4" flex tubing clamped on the bench top in front of the lathe bed. This works wonderfully well for capturing sanding dust. But the other chips generated by normal turning are only partially collected. I then unclamp the flex tubing and use it to "vacuum" up the remaining chips.

My band saw has 4" flex tubing connected to the manufacturers 4" dust port. The dust on the saw table top is not collected. For resawing this results in a lot of sawdust that is not captured. But it still helps a lot.

For the 6" jointer I have used the manufacturer's 4" port. This works really well. If I joint board edges close to the end of the knives, some of the chips are not captured.

The planer connection is a 4" flex connection and works really well. This is the only place on my system that I have observed a static arc. The arc is between the reinforcing wire in the flex tubing and the planer frame. Connecting a wire between the two eliminates the arc.

I have a router mounted at the right end of my table saw. I have 4" flex tubing connected to a hollow fence that works well for chips that are on the table top, but, miss the chips that go under the table top. I am reluctant to enclose the router under the table top because of heating concerns.

The drill press has no dust collection and the bench top tools like my mortiser and router jigs have no dust collection.

One measure of performance given by the cyclone manufacturer is the blower motor current. In my system the motor draws about 5.5 amps at 220 volts with all ports closed (min air flow). With all 4 drops open, (maximum air flow) the motor draws a little more than 15 amps at 220 volts. The blower motor rating is FLA is 20.8 amps.

*(continued on page 10)*

## Dust or no Dust

(continued from Page 9)

I am extremely happy with the dust collection of the system. I am disappointed with the noise level generated by the air flow. Both at the blower and at the collection points.

I am not a dust collection expert but I have the good fortune to have picked a good advice and design source. I believe this is the biggest reason for my systems success.

See Pictures Below:



Table Saw:



Lathe:



Router Table:



Radial Arm Saw:



*Additional Pictures - see page 11*

13" Planer:



Jointer:



Band Saw:



Cyclone Enclosure:



## 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](mailto: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](mailto:roger_callahan@bellsouth.net))



## The Classified Section

### 6" Joiner FOR SALE



Specifications: Powermatic Model 53  
Regular 120 volt power - The bed is 42" long - 33" tall  
Rolling stand included. The blades are fine, and I have a  
extra set of re-sharpened blades. Only **\$172.50**

Contact Mike Smith 704-535-4497

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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](mailto:roger_callahan@bellsouth.net)) Include a complete description of the item(s) and a picture or 2 (if possible).  
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Also, check the bulletin board at JPM as other items may be posted there.



## 2010 CWA Officers



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# 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](http://www.wttool.com)

5% - 20% discount with current membership card.

### **Klingspor's Woodworking Shop**

[www.woodworkingshop.com](http://www.woodworkingshop.com)

800-288-0000

### **Irwin Tools**

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

### **FARRIS BELT & SAW**

235 Foster Ave.  
Charlotte, NC 28203

[www.farrisbelt.com](http://www.farrisbelt.com)

704-527-6166

complete sharpening services and abrasives

### **Direct Tools Factory Outlet**

8111 Concord Mills Boulevard  
Concord, NC 28027-6462  
(704) 979-9998

### **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](mailto: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

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ADDRESS CORRECTION REQUESTED

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