

THE CHARLOTTE SAWDUST

The Official Journal of
The Charlotte Woodworker's Association

www.charlottewoodworkers.org

Small Talk

Well, we survived the Great Blizzard of '04 and with warming temperatures my heart begins to wander to the coast at Wilmington to my favorite warm weather project, a wooden trawler built in Hong Kong 35 years ago. Fortunately for me, very few people want a wooden boat anymore, preferring one built of plastic, allowing me to buy the boat of my dreams 5 years ago for next to nothing.



I have lovingly restored her to her original beauty and classical lines and only do routine maintenance each year (like a fresh coat of varnish on the railings and trim). She was built with a “yakal” frame and a carvel-planked 1 ½” thick mahogany hull. The trim and interior is all of teak and teak veneered marine plywood.

I believe that I could make back more than my original cost if I scrapped her for the wood alone but I plan to retire in a few years and cruise to the Bahamas in her.

See you at the Woodworking Show.
Sincerely,

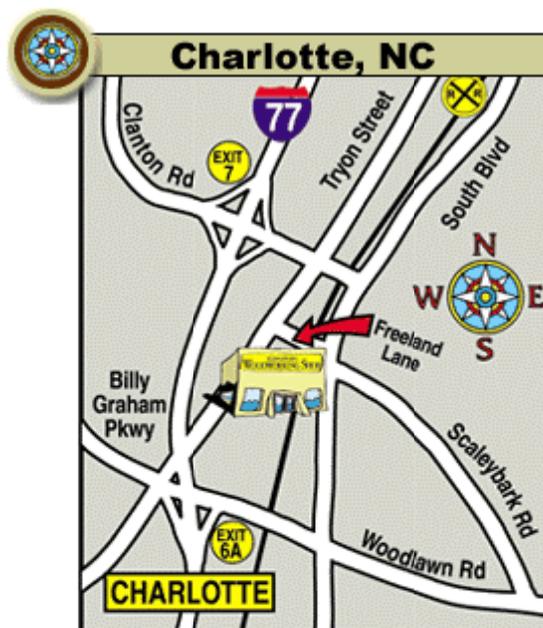
Mike Dyer
mdyer@adwarchitects.com
(704) 379-1919 days
(704) 814-9580 evenings

March Program

Neil Brunck, of our program committee, has gotten Clem Park to do a presentation on INTARSIA. This is the ancient art of mosaic done in wood, and promises to be a really interesting presentation. Clem will bring some completed pieces as well as a work in progress and will show how it is done. He will have the tools and be able to show the work involved.

Meeting Time

Meetings of the Charlotte Woodworker's Association are held the third Monday of each month, except for December. Meetings are typically held at THE WOODWORKING SHOP of Charlotte, 116M Freeland Lane, Charlotte, NC. Exceptions will be announced well in advance. If you need directions to the shop, visit their web site at <http://www.woodworkingshop.com> and click on the link to "Store Locations".



**116 M Freeland Lane
(Queen Park Business Center)
Charlotte, NC 28217
(704) 521-8886**

Get Directions:

MAPQUEST

Following a social and refreshment time that starts at 5:30pm, our meetings start at 6:00pm. Get to the meeting early and get to know your fellow woodworking enthusiasts. Please refrain from placing food, drinks and trash on worktables and shelves around The Woodworking Shop.

\$\$\$ Save Money at the Woodworking Shop \$\$\$

As a member of the Charlotte Woodworkers Association you can save 10% off all your purchases from The Woodworking Shop, excluding wood and power tools. Thanks to our hosts at the Woodworking Shop for allowing us to have our monthly meetings and extending 10% off to CWA members.

Email Option for SAWDUST – PLEASE HELP !!

If you don't already receive THE SAWDUST by email, please consider this option. By receiving the newsletter by email you 1) save the organization money, 2) receive color pictures, and finally 3) quicker delivery. Sign up today for the email option by sending an email to secretary@charlottewoodworkers.org and your delivery method will be changed immediately.

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.

Name	Area of Interest	Phone	Email
Wayne Cooper	***	704.409.1417	cooper@arconmfg.com
Bill Golden	Shopsmith & Accessories	704.525.9691	popstoyshop@juno.com
Dwight Hartsell	Woodturning	704.598.6029	woodwight@aol.com
Jeff Jacobs	any woodworking	704.309.1263	jacobj@meckco.com
Wayne Manahan	Sharpening	704.786.0768	wmanahan@vnet.net
Gil Milsaps	Windsor chairs	704.875.0758	gad32about@aol.com
Alvin Tench	any woodworking	704.824.7717	alvintench@netzero.com

*** Wayne Cooper has a fairly complete shop and would actually like an experienced woodworker to use it and teach him how to use it properly in exchange for use of the shop. If you are interested in helping Mr. Cooper please contact him directly to make appropriate arrangements.

Write an article for Sawdust (thanks for all the help from those that have)

Please consider writing an article for The Sawdust, this is your newsletter what do you want from it? What do you want to share with your fellow woodworkers? Everyone likes to share, share your successes, failures, mistakes, have fun with it and share with others at the same time!. Contact Mike Dyer @ secretary@charlottewoodworkers.org or call (704) 379-1919 days or (704) 814-9580 evenings.

Woodworking Show – Charlotte - March 12 – 14, 2004

Merchandise Mart – Liberty Hall
2500 East Independence Blvd

Admission: \$8.00 Adults which is good for all three days (cash only)
Go to their web Site for a coupon for \$1.00 off or
Free spouse admission

The club is planning on having a booth at the show and still need volunteers to man the booth and bring samples of their work for display. Contact Wayne Manahan at pres@charlottewoodworkers.org or call (704) 786-0768.

We will have tables, chairs and electricity at the booth and complementary admission for those staffing the booth, up to 3 people per 2-hour shift.

We can display crafts but not sell them from our booth. Prices are not to be on any items, and if someone inquires, they are to be given a business card for off premise contact to discuss details.

We must move in from 10 am to 12 noon on Friday, and stay in our booth and not wander until the show opens at 12. This is to allow other vendors to set up without our being in the way.

Parking is not included.

15th Annual One Special Christmas

Seven people from Charlotte Woodworkers Assoc. contributed to the One Special Christmas Auction held in December at St. Gabriels Church. Our items raised about \$1300.00 for the auction. When our items came up for auction, Steve Snow who coordinated the donations, made a special point that the items was from CWA. We appreciated the boost Steve.

CWA contributions were down from past years, but a big thanks to all who did contribute. We will work hard to get more people involved for the next auction. \$1300.00 will go a long way to make underprivileged children in our area have a happy and cheerful Christmas.

Donor	Item	Winning Bid
Fred Miller	Chippendale Chest	\$525.00
Howell Peterson	Cutting Board Set	\$95.00
W.C. "Monk Bridges	Turned Pens	\$30.00 each
Bill Hawkins	Small pine coffee table	\$60.00
	Jumping Bear Toys	\$20.00 each
Dwight Hartsell	Platter	\$40.00
	Oak bowl	\$40.00
	Bradford Pear bowl	\$40.00
Bill Truitt	Walnut desk	\$420.00
Shannon Duncan	Coasters	\$25.00

As you might be able to tell from the prices, some people got really good deals on some wonderful woodworking. We also need to have more people there to bid on the items. This is the group that makes log cabins every year and it's at this auction that they are sold off, raising the bulk of the \$61,000 that was raised this year.

Next years auction is already set for December 2 at St. Gabriel's Catholic Church. You can be part of the group that builds the log cabins. Classes start in September and are on Saturdays and Tuesdays at a farm in north Mecklenburg County.

Don Chapman, the founder of One Special Christmas, died December 18, 2003 from leukemia. His son Brandon was at the Auction this year, carrying on his father's work. You can find more information about One Special Christmas at www.onespecialchristmas.org.

Drill Doctor® Model 750PK Review

By Wayne Manahan

Thanks to the generosity of Professional Tool Manufacturing, LLC, producers of the Drill Doctor® line of drill bit sharpeners, our organization has received a model 750PK Drill Doctor® Kit for review. Once the review is complete, we get to keep this unit for use by members of the Charlotte Woodworkers Association.

I had originally intended to do a test with a number of members involved. What I'm going to suggest is that as each of you uses this machine, you write a brief report on your experiences and submit it to the Secretary for publication in the newsletter. Since I've procrastinated so long in getting this review done, I want to publish my findings now and make the unit available for use by the group.

I got this unit in December of 2003. With one distraction following another, I only got around to opening the kit and inspecting it for shipping damage when it first arrived. Since I only had a few dull bits, I didn't want to start a test right then, and so I put it off until after the holidays.

Over Christmas I was able to get a large quantity of drill bits in every stage of dullness and disrepair. Arriving home in January, I couldn't wait to try this new machine, but my initial attempts at sharpening a 3/8" bit left me leafing through the troubleshooting section of the user's guide that came with this sharpening marvel. I was having trouble getting the bit to sharpen evenly on both sides, and it bored holes that were about 1/32" oversize.

I knew that Drill Doctor® had a great reputation, so I knew it was most likely a user error, and sure enough, that was true. I needed to realign this bit three times and sharpen it again and again to remove the hand ground point that the previous owner had put on it. Once I got the technique down, the bit sharpened easily and worked fine.

That was the last real problem that I had with the Drill Doctor® model 750. If I had watched the excellent video that is included in the kit, I would have been able to avoid those troubles. I know that because I decided that I'd better watch it before I wrote this review. It is complete in most respects. It only refers you to the manual if you need to change the sharpening wheel.

The Drill Doctor® Model 750 is a versatile and capable machine for sharpening drill bits from 3/32" to 3/4 inch diameter. It will sharpen standard twist drills with 118° and 135° points, and it will sharpen carbide tipped masonry bits. It comes standard with a chuck for bits from 3/32" to 1/2" and another for bits 1/2" to 3/4". It has a "splitting port" that allows you to easily split the point on a bit, whether the point was previously split or not. The grinding wheel is a diamond material and it cuts carbide as easily as it cuts carbon steel.

The machine is designed with a pair of cams that produce the bit motion required to establish the correct configuration in the sharpened bit. The rotational motion that the user applies to the chuck to do the actual sharpening took me a few minutes to get good at, but in truth, it couldn't be simpler unless it sharpened itself. You just hold in gently and smoothly rotate the chuck an appropriate even number of half turns, and the bit is sharp. Splitting the point is even easier. The only bit that I had trouble with was an extension bit of 1/2" diameter. The long shank on this bit (14 inches or so) made it tail heavy and I had to apply a bit more inward pressure to get the proper configuration on the bit. This bit had been ground very crudely by hand, and I was still able to properly sharpen it in less than five minutes. That bit cost more than \$10.00, and now it's as good as new. This gives you some idea of the potential value of a Drill Doctor® if you use drill bits a lot. While this model, which is one of the most expensive, retails for a little over \$200.00, you could literally recover your money in a few hours if you use a lot of large bits like I do when I'm constructing workbenches. If you only use smaller bits, Drill Doctor® has other models that may offer the features that you need at a lower price. Their least expensive model starts at around \$45.00.

Once I got the knack of sharpening with the Drill Doctor®, I was able to sharpen smaller bits under 1/4" in diameter in less than a minute. You quickly become adept at aligning the bits in the chuck, and with smaller bits, it usually only takes a few half-turns to restore a factory quality edge.

In the final analysis, I'll say this: "If I were working, I'd have to have one of these for my shop!" Until that happens, I'll just have to borrow the one that now belongs to the Charlotte Woodworkers Association.

Later in the year I'll be giving a brief demonstration of this machine at one of our meetings. This will be announced in advance in the newsletter. If you're interested, please plan to attend.

I'd especially like to thank Mr. Paul Panteleon of the Drill Doctor® team for his help in getting us this Drill Doctor® Model 750PK for review. I'd also like to thank the Drill Doctor® team for providing this excellent piece of equipment for our organization's use. It is one piece of sharpening equipment that is easy to learn to use properly, turns out reliable results when used correctly, and can put an end to throwing away perfectly good drill bits that only need to be resharpened.

Shop Talk

By Dave Dolson

My shop isn't even close to the infamous Norm Abrams shop that we see on the PBS series or even comes close to the shops seen in the DIY shows with David Marks, but I still manage to create enough saw dust in it to make it enjoyable.

I have been lucky so far and have been fortunate enough not to have a piece of wood kicked back at me. If I had then most likely I'd of had to replace a pane of glass in my garage door. I do have a saw blade guard, but have learned not to use one, some may say this is foolish, and yes I agree, most likely I should. Although I never ever do any work no matter what kind without wearing eye protection. I got some small bifocal add in lens that work nicely, so I no longer a can use the excuse I can't read the plans correctly.

I have enjoyed woodworking since growing up in Chicago, and at a young age, using my grand fathers old bench mounted jig saw, I created for a grammar school project a model of the Monitor war ship. Actually thinking back it was a piece of wood and a tuna fish can. But I remember toiling on getting the wood shaped and filed and sanded and the feel of the wood and the tools in my hands as I worked. I know that is when the wood working bug bit me. Ever since then I have enjoyed woodworking and have dealt with the desire to do wood working on a "I need to do it, but don't have the time or funds" basis for most of my life. So I guess I'm a true hobbyist.

My current shop consists of an unfinished unheated, 2 car garage attached to my house (as you can see in the included pictures it is not a elegant affair, but it does give me the opportunity to get back into doing a hobby I truly enjoy). One of the items I do want to do is add some insulation and fix it up..... I find my woodworking is much more enjoyable in a warm shop this time of year. I'm also toying with an idea of putting a normal walk in door in the big 2 car door that currently is the 3rd wall I think it will be handy to keep my shop warm, and there isn't another door into the garage from out side right now. I have an idea but nor sire if it would work or not.... suggestions are welcomed.





For tools, I don't and can't afford the big massive tools that a lot of shops seem to have, I manage to make enough of a mess with the biggest 4 tools I do have: a table saw, a planer, a router table and a drill press.

My workbench is an item I cobbled together almost 8 years ago and is made of 2X4's with a sheet of pressed paper siding on it. It should be replaced some point in time with a nicer affair, and I'm considering a number of approaches for it's replacement. Including the use of a solid core flat door for the top. But I have become attached to it and just never seem to reach the decision to go ahead and replace it.

As far as a table saw goes, my little Craftsman Contactor saw (4 years old) works well enough for my need, but I'd reconsider getting one with a better throat plate attachment than the one visible in the pictures. So far I have made and destroyed 2 different "Zero Clearance" plates both ones that I fashioned out of hard plexiglass. I'd caution any one about trying to do the same....they tend to become a good source of shrapnel if and when they do fail.

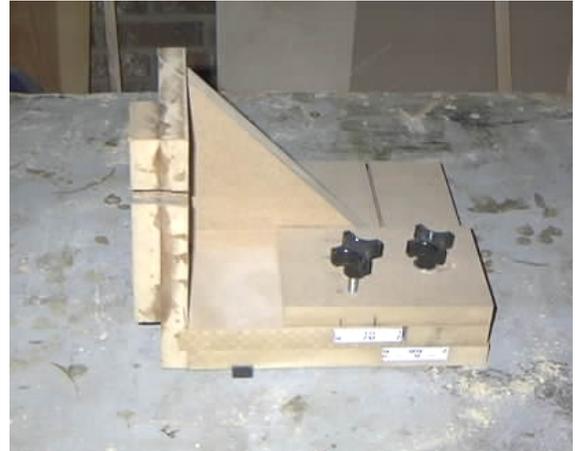
My drill press cabinet (the orange thingy) seen in the pictures was salvaged from the Harrisburg school shortly before it was demolished, it was a left behind item and I couldn't beat the free price considering it had wheels on it already, and I needed some storage space at the time.



I followed plans in a wood working magazine and created the tall stand up cabinet in the pictures. I have found this cabinet a excellent place to store tools like my routers, skill saw and sanders plus it provides nice storage for some of my fixtures and pipe clamps to hang.

I have built a panel mover (again from some plans I got a hold of) and also some misc. jigs and fixtures not so much for I needed to use it, but because they looked interesting to build and I saw a need that someday I just might need one of them.

Besides the tool cabinet, I also designed and build the finished cabinet that now resides in my house. That was my first really large cabinet and was a big help in learning what not to do..... I was surprised that when I had it all finished it actually stood up fairly square and to date hasn't fallen apart. (in retro thinking perhaps I didn't need to assemble it using all the decking screws I did use).



My current project (only been working on it since April of this year) is a pine cabinet that consists of a bottom section with panel doors and a too section that will have glass doors with stained glass apples in it. Hope fully one of these days I'll get some heat in my garage and then be able to finish it off.

Well that is about it from my shop..... as you can tell it is not the most beautiful thing, but I do get a lot of enjoyment out of working in it.

I still need some volunteers to send photos of their shop or shop jigs or anything else that might interest others in the club. You might be surprised at what interests your fellow members. – Mike Dyer

Center for Furniture Craftmanship – Nine Month Comprehensive Course

Rockport, Maine-The Center for Furniture Craftmanship is now accepting applications for a new Nine-month Comprehensive course that begins in September. The course is designed for aspiring professional furniture makers and dedicated amateurs who seek in-depth training at the highest standard of excellence.

According to Executive Director Peter Korn, who has seen a growing demand over the past decade for the Center's Twelve-week Intensives, the Nine-month Comprehensive addresses a need not being met through formal academic programs. "With the exception of the College of the Redwoods, college and university programs generally emphasize artistic expression at the expense of craftmanship. Our program is for individuals whose passion for craftmanship is inseparable from their creative force-each informs the other."

Taught by an international faculty, the curriculum of the Nine-month Comprehensive builds on the highly successful, hands-on format of the Twelve-week Intensive. Students move through a series of six projects, with two mornings set aside each week for special instruction on topics such as drawing, drafting, furniture history, business practice, carving, marquetry, finishing and upholstery.

Projects build in complexity, starting with the Center's Basic Woodworking curriculum. Assignments include a

solid-wood case piece with a door and a drawer, a piece that requires bending and veneering, a chair, a multiples project to introduce production and marketing considerations, and a seven-week independent study project.

The new Nine-month Comprehensive is part of a major expansion for the non-profit school, funded through a successful \$2.4 million capital campaign. The 5,600-square-foot Main Building, in which the new course will be held, is one of three buildings being created through the school's capital campaign, along with two endowments. A 2,300-square-foot Gallery Building was completed in November, to hold a new Gallery, Fine Woodworking Library, and administrative office. Construction of a 4,600-square-foot Studio Building begins in April, in preparation for a Studio Fellowship Program that starts in December, 2004.

Enrollment for the Nine-month Comprehensive is limited to 15 students so that instructors will be able to provide extensive personal attention and guidance, consistent with the Center's teaching philosophy. The Nine-Month Comprehensive runs from September 13, 2004 through June 3, 2005. Tuition is \$14,000. For application materials or for more information about the Nine-month Comprehensive or the Center for Furniture Craftsmanship, please visit their website at www.woodschoo.org or call 207-594-5611.

PHOTO AVAILABLE:

<http://www.woodschoo.org/cffc.mainbuilding0104.jpg>

Mr. Sullivan's Corner

By Anna Carter

Three years ago, my husband Rob and I went on our annual anniversary trip in the NC Mountains. Rob thought the weekend was doomed when he asked the spa receptionist where to find the television because it was not in our room. "We don't have television" was not an answer Mr. ESPN thought possible – especially on Masters Weekend. Little did he know that weekend was to take us even further from the land instant replay. It was on that trip that we found a piece of property unlike any we had ever seen.

Thirty days later, children by our side, we found ourselves staring in disbelief at two ponds, twenty-two acres, a meadow, a small overgrown orchard, and acres of forest. The smells of moss, rhododendron, spring water, and apple blooms no longer felt borrowed.

The place had the feel of a homestead. Around every corner was a sign that the land, though overgrown now, had been loved and cared for for many years. This could be seen in the headed-up spring deep in the rhododendron, with the ladle still hanging on a branch. The cold frame was now growing six inch oak trees. The grape vines had pulled down the old posts but were steadily putting out new growth. Christmas trees were 30' tall. There were plastic faded Easter eggs hidden thirty years ago. The pond benches were sitting in the same spot shown on the old painted-over aerial photograph that was screwed to the wall.

And there was the shop – full of every tool Mr. Sullivan, a retired mechanical contractor, had ever needed or touched. Every scrap of metal ever cut, every piece of pipe, every broken gauge, every chain saw blade ever bought or found. There was 1,900 square feet of garage and shop packed to the gills with Mr. and Mrs. Sullivan's professional equipment and hobby materials. That didn't even count the house. She had been a nurse (I assume from the evidence) and an avid gardener and plastic floral arranger. They made wreaths from the Christmas trees grown in the meadow. For two years I waded through it all. I rented a large dumpster and had it hauled off several times with items not salvageable. At least five moving vans took every usable item to local non-profits. There were chemical to take to the State, trash to haul away, and gardening tools itching to be used again.

Every once in a while, in the on-going clean up, I would come across a tool that seemed to belong to the place. I think Mr. Sullivan's spirit was still in them. Beside his old workbench I started collecting these pieces under an old sign with his name on it. W.J. Sullivan. The tools are old, maybe considered antiques, maybe not. Some are interesting, some are ordinary but they are all well worn. My tools are on the next wall. Did you read the children's story *Big Red and Little Black*? When the young boy gets to be a teenager he trades in his faithful little pony for a new larger horse. In the end it is Little Black that comes to the rescue. I have already found myself needing some of those old tools.

We are just at the end of a major renovation. During the renovation the workshop was low priority. Between my own items that were moved out of the contractor's way, and job material, the garage and shop became a wreck once again. Fluorescent fixtures had been piled on top of shovels on top of compressor hoses on top of my old horse's buggy, on top of spilled oil – it was a mess. Mr. Sullivan's memory wall was still there, but it was hidden behind broken glass and heaved junk. It was not a respectful situation. It was the only part of the job site I was disgusted with – and it was the only part that was my responsibility. With shame for motivation I built a set of bright red cabinets to relieve the pile and with my dog, headed to the mountains for two days of hard core organizing – my own form of therapy.

The Sullivan's daughter drove up just as the superintendent and I were leaving the house. I had just finished cleaning the old shop and re-making the memorial wall to her father – a corner of the shop full of all those old tools I thought he would have loved the most. His spirit was in the place and I couldn't throw that out. For eight months (really for many years) the shop looked pitifully messy, full of trash and treasure, but uncared for. The moment, literally, that I finished cleaning and organizing, his daughter arrived to see the place that had meant so much to her all of her life. I thought timing like that only happened at Habitat. The first place she went to was the shop. She cried and smiled and hugged me while she looked around. I told her she could tell her father, when she "sees" him, that I'm taking care of his stuff and his place - not to worry.

Not Ready for Finewoodworking Yet...

By Jaye Peterman

Lately, my wife and I have been trying to organize all the stuff in our house. In addition to getting rid of a lot of things that we decided we didn't need, I've been designing and building shelves and organizers in some of the closets to help arrange what's left. The shoe rack in the picture below is one simple example. I've built two so far.

This little project is never going to be mistaken for fine woodworking, but it is useful and it really is simple. Not simple like that "build our bookcase in a day" project from "This Fine Old Woodshop" magazine that really takes (me) 6 months. But literally simple, as in, it took me about 45 minutes to build the first one and about 30 minutes to build the second one, not including the trip to the local home center to buy the wood. You can certainly vary the dimensions to suit your needs, but this one is designed to use nearly all of a 1"x8"x10' piece of cedar. Actually, I wish I could say that I designed it to fit that size board, but really, it just happened to work out that way.

Several considerations drove the dimensions of this project. First was the width available in the closet where it was to reside – 30" was about the max available. Secondly, the distance from the bottom of the hanging clothes to the floor restricted the height of the rack.

The sides are roughly 7.5 " wide (the standard width of a 1x8) and are 18" long. The slat shelves are each 3" wide and about 28" long. I made the shelves from 2 pieces rather than one solid piece to allow for more airflow. That seemed to be a good idea when storing shoes. The bottom of the bottom shelf is 1" from the bottom of the sides and the top of the top shelf is ½" from the top of the sides. I left that little overage on the top to help keep shoes from falling off. The middle shelf is roughly centered in the available space, with its top

at 9.5" from the bottom of the sides, though you could move it up or down somewhat to accommodate different height shoes. Work boots tend to be much taller than slip-ons, for example.

The slats are attached to the sides with pocket screws, though that is probably overkill. You could use biscuits if you are particularly attached (pun intended) to that form of joinery, too. Finish nails through the sides would even work, but I didn't use them because I was a little concerned about racking. I figured that pocket screws would give the needed strength to keep it reasonably square. So far it seems to working.

The best part about building this project is that it requires no finish. Because it's made from cedar, I just left it bare. One thing to keep in mind is to be sure to sand the edges well, unless you want to risk a splinter every time you (or worse, your spouse/partner) reach for a pair of shoes.



(The bottom shelf is made of two slats, just like the middle and upper shelves, though it's hard to tell that in the picture.)

Classified Section

\$\$ For Sale \$\$

14" Band Saw – Jet model #JWBS14CSW. White 40th anniversary unit with the motor in the enclosed base. Includes a fence. 5-6 years old. There are several blades included (1 unused 3/16" Timberwolf, 1 used 3/16" Timberwolf, 1 used 1/2" Wood Slicer resaw and 2 other 1/2" blades. Welcome to inspect it. Asking \$400.00. Contact Dick Thomas at (704) 332-3418. Email: jeadic@carolina.rr.com.

Approximately 1000 board feet of 1 inch thick Oak – various widths from 6" to 10", the boards are about 12 feet long. Asking \$1/bf with a 100 bf minimum, would like to sell all 1000 bf for \$900. Contact Mike Patterson @ 1-704-435-5179.

8" Inca Tilt Table Saw (\$295), Makita 9820-2 Electric Sharpener (\$150) and a Makita 9045N 1/2 Sheet finish sander (\$50) are available from George Fryling at 704-752-0121 or George@fryling.com.

H & S Lumber

Mr. Robert Boland, Manager
 4115 Monroe Road
 Charlotte, NC 28205
 704.333.3130 (sponsor)

Harbor Freight USA

Mr. Martin Treadwell, Manager
 3852 E. Independence Blvd.
 Charlotte, NC 28205
 704.569.0182 (contributor)

The Woodworking Shop of Charlotte

Mr. Tony Collums, Manager
 116M Freeland Lane
 Charlotte, NC 28217
 704.521.8886 (contributing/sponsor – except power tools
 and wood)

Woodcraft

Mr. David Boyuka
 1725 Windsor Square Drive
 Matthews, NC 28105
 704.847.8300 (contributing)

Show your CWA membership card at any of the listed
 places and receive benefits (except for Woodcraft and
 Harbor Freight USA, which are not able to provide
 sponsorship in the form of discounts).

2004 CWA Officers

President	Wayne L. Manahan pres@charlottewoodworkers.org	(704) 786-0768
Vice President	Dick Thomas vp@charlottewoodworkers.org	(704) 332-3418
Treasurer	Jaye Peterman treasurer@charlottewoodworkers.org	(704) 527-8768
Secretary	Michael L. Dyer secretary@charlottewoodworkers.org	(704) 379-1919

The Charlotte Woodworking Association

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Next Meeting:
 March 15, 2004
 At the Woodworking Shop
