

Volume 12, Issue 7 July 2005

THE CHARLOTTE SAWDUST

The Official Journal of

The Charlotte Woodworker's Association

www.charlottewoodworkers.org

Small Talk

Our regular meeting place has changed to the CHARLOTTE ART LEAGUE The address is:

Charlotte Art League
1517 Camden Road
Charlotte, NC 28203
Phone: 704.376.2787
cal@charlotteartleague.org
<http://www.charlotteartleague.org/>

The best place to park is a garage a block away. I missed last month's meeting, but will get the info this month and have it next month. I do have (2) maps to attach which were provided by a new member Mike Smith, thanks Mike!

Sincerely.

Phil Ashley

Phillipjashley@aol.com

(704) 841-2001 x338 days

(704) 548-2851 evenings

July Program

We will have a presentation on Biblical Instruments.

Meeting Time

Meetings of the Charlotte Woodworker's Association are held the third Monday of each month, except for December **Each month we will meet at the CHARLOTTE ART LEAGUE The address is:**

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1517 Camden Road
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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.

\$\$\$ 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.

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 Phil Ashley @ecretary@charlottewoodworkers.org or call (704) 841-2001 x 338 days or (704) 548-2851 evenings.

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.

Classified Section

\$\$ For Sale \$\$

8" Inca Tilt Table Saw (\$295), Makita 9820-2 Electric Sharpener (\$150) and a Makita 9045N ½ Sheet finish sander (\$50) are available from George Fryling at 704-752-0121 or George@fryling.com.

Delta 12" Planer, excellent condition. Info on the board at Klingsplor Contact Fred Miller, 704-375-0306, or email fred.miller@wachovia.com.

2.5HP 10-inch Radial Arm Saw on legs and a 10-inch Craftsman Table Saw on legs, both for sale for \$400 in very good condition. Contact Chuck Foster, 704-596-4430, or email onememory2@aol.com.

Doris Avila needs someone to cut some small shapes for her out of ½” plywood. For more information email her draart@earthlink.net or call her 704-658-1026. She is willing to pay for these services. She’s an artist and teacher, but not a woodworker.

Bob Smith is moving and needs to sell:

1. GRIZZLY Table Saw w/MULE Router Table \$ 600
2. WOODMASTER Band Saw \$ 200
3. DELTA Combination Belt & Disc Sander \$ 350
4. Import 15” Planer \$ 500
5. CRAFTSMAN Lathe \$ 200
6. DELTA Drill Press \$ 200
7. CRAFTSMAN Jointer \$ 200.

Call Bob at 704-788-8666

Ralph Lombard Is Moving and needs to sell:

1. Norton Multi-Oilstone with three 11 1/2 x 2 1/2 sharpening stones -- coarse and medium India stones and a hard black Arkansas stone for super fine edge. All stone surfaces flat with very little wear. \$75 (current new price \$199).
2. 10 HP Simplicity made Garden Tractor with power take-off. Runs good. Heavy duty chassis is like today's 20 HP tractors. Lots of accessories and attachments: tire chains and wheel weights; rugged tilt trailer converts to receive grass and leaves from powered vacuum/blower attachment; 42" three blade mower deck, snow plow, grader blade, cultivator, and thatcher. Photos of accessories can be e-mailed. \$600
3. Zyliss vice with accessories (some never used) - see photo. Good condition. \$50
4. Vintage hand grinder. \$10

Call Ralph at 704-542-3103 or email lombardr@asme.org.

Kenny Miller works for a summer camp and sent this message:

I am the Hiring Director at Camp Moosilauke and am looking for a person who would like to be a camp counselor to run our woodworking program this summer. We are a boys camp on a beautiful lake on 225 acres of land in the mountains of New Hampshire. We have a coed staff and we do all land and water sports. We also offer an extensive trip program with mountain biking, hiking and canoeing trips. Our web site is www.moosilauke.com and my phone number is (303) 670-2066. My email address is iskmiller451@aol.com.

Richard DaCosta has the following items for sale:

1. NORTHSTATE 14 inch bandsaw with Carter Guides and assorted blades, excellent condition - \$350
2. 50 inch JET Beismair like fence - \$150
3. FISCH bench mortiser - \$150

Contact Richard at (704) 594-7518 (W), (803)802-7842 (H) rdacosta@comporium.net

H & S Lumber

Members receive Contractor Pricing
4115 Monroe Road
Charlotte, NC 28205
704.333.3130 (sponsor)

Woodcraft

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

Harbor Freight USA

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

The Woodworking Shop of Charlotte

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

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).

Building Mantle Clocks
Fred Miller

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 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 Seiko quartz battery powered, and they are small enough to fit inside the case without any challenge.

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 decorative edge routing beyond the side pieces. 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, it may be easier for you cut the top and bottom extra long, then mark and cut the mortices or dovetails in the top and bottom pieces, then trim the ends to correct size after the mortices have been cut.

The overall height of the side pieces need to include the tenons or dovetails used to connect the sides to the top and bottom. The inside length (assuming use of ¾ stock) needs to be tall enough to house the clock face, plus ¾ inch top and bottom for spacer strips, plus additional length for the tenons or dovetails. Sides may also be butted together and attached to the top and bottom with nails or screws. 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 hinge mortices. Now is the time to cut all the

hinge mortices, when the parts are unassembled. For the front door and back door, I use the same size hinges (usually 1X1 inch), so all my mortices are cut the same size.

Now is also the time to cut slots in the bottom, to allow the sound of a chime to get out of the case, if you've chosen a chiming movement. When cutting slots in the bottom I use a straight bit and table-mounted router. Space the fence the appropriate distance from the slot cut, and after marking the start/stop points use a plunge-and-lift technique for cutting the slots. Multiple passes and progressively deeper cuts are better. After the slot is cut, you can clean up the start/stop points with a forstner bit, and ease the edges of the cut with a small roundover router bit.

At this point you can apply decorative routing of choice to the sides and front of the top and bottom. No routing is necessary for the back edges of the clock case. A simple roundover, or ogee shape is recommended. Keep in mind the ogee shape, if used, needs to be routed on the bottom side of the top, and the top side of the bottom, so they mirror each other. A simple roundover is fine to use on the top edge of the clock top. The bottom edge of the bottom piece isn't routed because it will sit in a rabbet in the base pieces.

Sand and glue the top, bottom, and side pieces together. Measure the base pieces, which are two sides and a front, and miter the front corners. The base has a shallow rabbet where the bottom of the case fits. The top edge of the base can be routed with a small roundover for decoration before assembly, and the bottom edges of the base pieces can be relief cut to form feet at the corners. Sand, assemble and glue the base pieces to the clock case.

Cut two $\frac{3}{4}$ inch spacer pieces for the bottom and top inside of the case. This provides a “frame” for the clock face. Sand and glue in place. Cut a $\frac{1}{4}$ inch piece of plywood to back the clock face, and glue inside the case to the spacer pieces. At this time, cut two small strips and glue inside the back of the case, to serve as stops for the back door. It is also time to cut the back door and mortise the door for the hinges. I use $\frac{1}{2}$ inch thick pine or poplar for the back doors.

A “crown” piece or several “crown” pieces can be cut, routed, and glued to the top of the case at this time. Center the crown piece(s) from side to side and flush to the back of the case. These pieces can be routed with an ogee, or I have found a mini panel raising bit provides a good shape.

Measure for the door, which is four sides assembled like a small picture frame. Route a rabbet on the inside of each piece to house the glass, plus space for a small $\frac{1}{4}$ round strip to hold the glass in place. The inside edge of the door face can be routed with a roundover or other small shape consistent with the other routing on the case. You may also route a shape on the outside corner of the door, but it is not necessary. Be sure to mortise for hinges before assembling the door.

After applying the finish of choice, install glass in the door. Make small pieces of $\frac{1}{4}$ -round to secure the glass and glue in

place with hot glue. The ¼ round can be made by routing a roundover on both sides of the edge of a piece of scrap stock. This provides a half-round edge that is then cut off using a bandsaw. The half-round is then ripped in two pieces on the bandsaw, yielding two pieces of ¼ round.

Attach the front door, and the latch of your choice (I use a small brass hook).

After the front door is attached, place the clock face in the case and mark the hole on the backer plywood. Remove the face, drill the hole, replace the face, and mount the clock movement and hands, according to the movement instructions. The movement mounting will hold the clock face in place.

Depending on the fit around the face, you may want to install some small ¼-round to frame the face. Mount the back door and latch, then mount the top handle. You may need to use longer screws for the top handle, depending on the thickness of your crown pieces.

When your clock is finished, be sure to sign and date it. Your great grandchildren will be proud to have it!

Tips:

- Measurements are key – use a marking knife to mark cuts, not a pencil.
- Cut the top and bottom pieces longer than needed, mark and cut the mortices where the sides attach, then cut the ends so the side pieces will be centered.
- Make all router cuts on the end-grain first, then long grain, and use a backer on the end-grain cuts to prevent tearout.
- Choose lumber so the best grain shows. Soft woods chip during routing, so hardwood is better – cherry, maple, walnut.
- Use glue conservatively – squeeze-out will mar your finish.
- Over-sand all end-grain pieces, and use a glue wash to prevent stain or oil from penetrating too much.

Hardware:

- Hinges are 1 X 1 inch solid brass. Try to use American-made hinges, due to the quality of the screws.
- Screws for hinges are from McFeely's
- Hook fasteners are from S. LaRose, ¾ or 1-inch size, order number 085183 or 085184.
- Top handle is standard Queen Anne or Chippendale with escutcheons, solid brass, 3 ½ or 4-inch size depending on size of crown piece. Handles are available from most hardware stores.

Clock Faces/Movements:

- Clock faces and movements from S. LaRose or Klockit.

Suppliers:

- S. LaRose: 800/752-7673 (orders) www.slarose.com
- Klockit: 1/800-klockit www.klockit.com
- McFeely's: 800/443-7937 www.mcfeelys.com

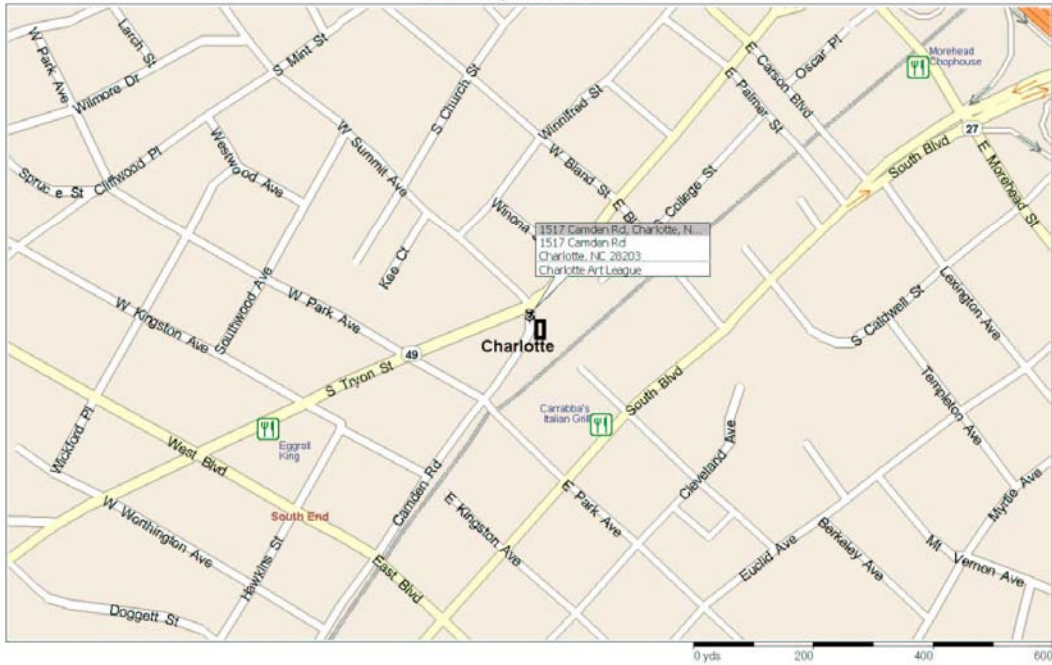
2005 CWA Officers

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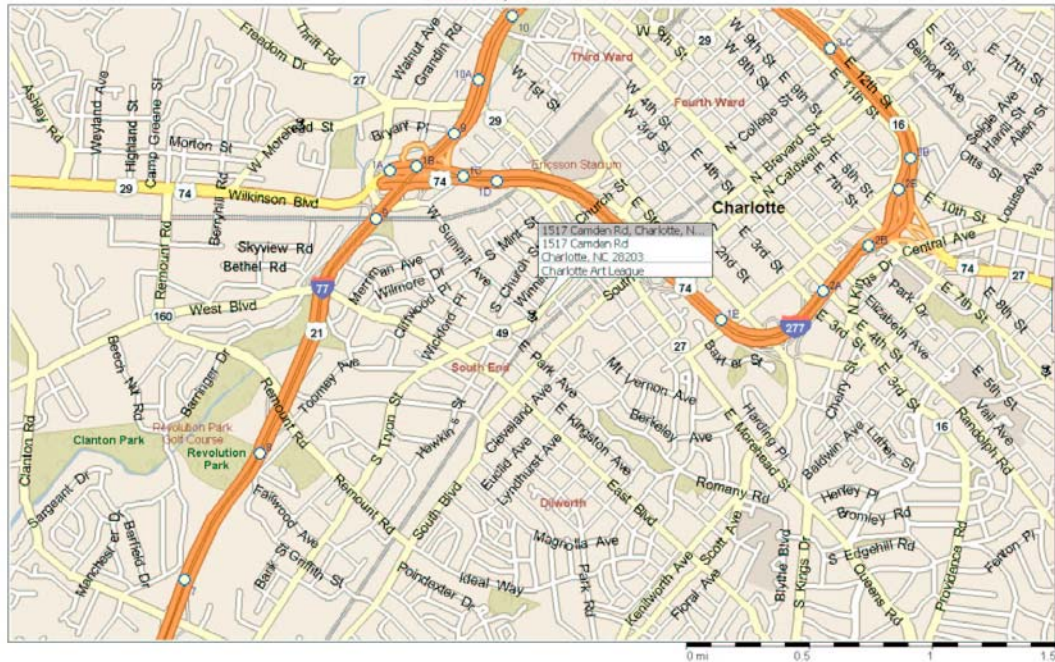
Next Meeting:
July 18th, 2005
At the Charlotte Art League

Charlotte, North Carolina



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Charlotte, North Carolina



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