

THE CHARLOTTE SAWDUST

The Official Journal of
The Charlotte Woodworker's Association
www.charlottewoodworkers.org

Small Talk

Our next meeting is our annual Christmas party Dec. 11, 2007. We will meet at the Ole Smokehouse, 1513 Montford Dr, Charlotte, NC 28209 at 7 pm. The cost is \$ 5 for members.

We look forward to seeing you guys there! - Be sure to bring a gift for the spouses, if you can bring an extra so the wait staff will be sure to get something.

Sincerely,
Phil Ashley
phillipjashley@aol.com
(704) 519-5662 cell

Dec Program

See you at the Christmas Party

Meeting Time

Meetings of the Charlotte Woodworker's Association are held the third Tuesday of each month, except for December. Meeting is to be held at the Well of Hope Lutheran (Formerly Incarnation Lutheran Church), 6400 Old Reid Road, Charlotte, NC (just off Archdale Drive).

Following a social and refreshment time that starts at 5:30pm, our meetings start at 6:30pm. Get to the meeting early and get to know your fellow woodworking enthusiasts.

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, and mistakes, have fun with it and share with others at the same time. Contact Phil Ashley @ secretary@charlottewoodworkers.org or call 704-51-5662.

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@earthlink.net
Dwight Hartsell	Woodturning	704.598.6029	woodwight@aol.com
Wayne Manahan	Sharpening	704.786.0768	wmanahan@vnet.net

Classified Section

\$\$ For Sale \$\$

Contact me if you have any tools, wood or services for sale. This section is offered for free.

Fred Miller is looking for an I'm looking for an old router plane to buy or trade for.

David Terpening
3924 Brinton Place
Charlotte, NC 28226
(704) 541-5729

Attached are items I have for sale and firm prices. Most have never been used and are in original packaging. A Google search will allow you to see most items.

1. Jointech Smart Miter Table. Model JSM-48 with setup video. This has never been removed from box. \$125.00.
2. Incra Miter Guage. Model 2000 with 27" & 36" fence & optional stop. This has never been removed from box. \$100.00.
3. Bench Dog Benchtop Router Table. Model RT100 with manual. This has never been removed from box. \$100.00.
4. Delta Tenoning Jig. Model 34-182 with manual. Never been used. \$50.00

5. Porter Cable Plate Jointer with metal case. Model 555 with manual. Used on one project. \$50.00.
6. Sears Power Planer. Model 315.17321 with manual. Slightly used. \$25.00.
7. Lion Miter Trimmer with extra set of blades. Used for precision trimming on picture frames and moldings. \$80.00.
8. Antique Book Press 10" X 12". Cast Iron. Useful as a glue press. \$40.00.
9. Reject Ebony Fingerboards. 3/8" x 3" x 21". Minor defects. Bundle of 20 - \$50.00.
10. Bridge City Toolworks Angle Master. Model AMm-1. Used for setting angles. \$50.00.

Horizon Forest Products

839 Exchange Street
Charlotte, NC 28208
704-369-0485 (Good Supplier)

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**

4728 South Blvd.
Charlotte, NC 28217
704.521.8886 (contributing/sponsor
– except power tools and wood)
Show your CWA membership card at
The Woodworking Shops and
receive benefits.

2007 CWA Officers

President Bruce Bogust

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Vice President Phil Ashley 704-519-5662

vp@charlottewoodworkers.org

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treasurer@charlottewoodworkers.org

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secretary@charlottewoodworkers.org

The Charlotte Woodworking Association

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Next Meeting:

Dec 11, 2007

At Well of Hope Lutheran Church

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Woodcraft Arts

by Donald DeVeny

<http://www.woodcraftarts.com/jacob.htm>

Jacob's Ladder

The Jacob's ladder is one of the most ancient and famous of folk toys. Legend has it that one was found in King Tut's tomb, which means these fascinating toys were played with in Egypt before 1352 B.C., when the young king died (at about 18 years old). It's amazing to me that this humble folk toy would have been included among Tutankhamen's most significant effects, along with brilliant jewelry, amulets, masks of pure gold, prized objets d'art, a solid gold coffin, statues, furniture, and even a full-sized chariot.

Jacob's ladders, named for the biblical Jacob who saw a ladder leading from earth to heaven in a vision, have shown up all over the world. Like the spinning top, the Jacob's ladder seems to be universal, appearing at widely divergent world locations with no apparent historical connectedness.

I still don't completely understand how this toy works. Engineer friends of mine have told me that the apparent falling of the blocks has to do with a double-acting hinge. But to name it is not to comprehend it. To operate the toy, simply hold the top block by its edges and let the rest of the identical blocks swing downward until the "ladder" is fully open. Then, holding the top block by its edges, turn it 180° in a left rotation, until the top and second blocks are parallel and touching. When the held block hits the hanging block, a series of blocks will begin cascading down. Then repeat the motion 180° to the right. Each time you move the block 180°, a cascade of apparently moving blocks will flip to the bottom.

There's a neat trick you can play with your Jacob's ladder, which will baffle children (and, most likely, their elders): Fold up a dollar bill into a small rectangle and tuck it under one of the tapes. Then operate the toy. The dollar will successively disappear, appear, disappear, and so on, for no apparent reason.

WHAT YOU NEED

- 6, 7, or 8 blocks of 3 1/2-in. x 1 3/4-in. x 3/8-in. hardwood or plywood

- 10-ft. length of medium-weight binding tape
- 1/2-in.-long headed brads

How to Make the Toy

I've seen plans that instruct you to glue the tapes to the bottom and top edges of the blocks. Don't trust them. I have reviewed several ways of making this toy, and I can assure you that gluing does not work. Glue often seeps into the tapes by capillary action, beyond the tops and bottoms of the blocks, and makes the tapes stiff; thus the toy runs poorly or not at all.

A better way is to attach the tapes with small headed brads—the larger and thinner the head, the better. The brads hold down the tapes sufficiently well in a simple attachment to the block, and the toy runs very smoothly.

1 Cut out six, seven, or eight rectangles measuring 3 1/2 in. by 1 3/4 in. from 3/8-in.-thick hardwood or plywood. (The number of rectangles depends on the height of the child, or, more specifically, on the distance from the child's hand to the floor.)

2 If you're using plywood, fill any voids in the laminate with fast-drying wood putty, sand well with 180- or 220-grit sandpaper, and paint the blocks contrasting colors. If you're using fine-grained hardwood blocks, leave them unpainted or finish with varnish or oil before attaching the tapes.

3 Stand the blocks on end and, using a sharp pencil, mark a centerline for one tape that will go over, under, over, under all the blocks. Turn the blocks over and draw the same centering line on the opposite end.

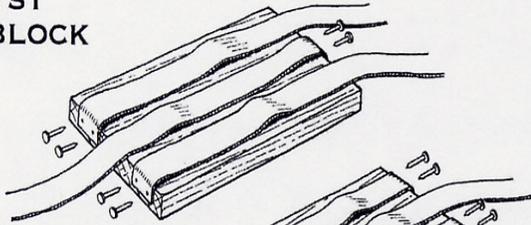
4 Place the first block on a table. Attach a length of binding tape (available from any sewing shop) to one end of the block with two brads. The tape should be centered over the centerline. Then tack the two side tapes to the opposite end of the first block; set in each side tape 1/16 in. from the block's edges. Lay the tapes across the face of the block so the two side tapes go in the opposite direction to the center tape, as shown in the top drawing at right.

5 Place a second block on top of the first and wrap the tapes around the block (see the second drawing at right). Pull the tapes snug, but not too tight, making sure no tape is twisted. (If the tapes are too tight, the blocks won't flow when you operate the toy.) Tip the block on end and nail each tape with two brads.

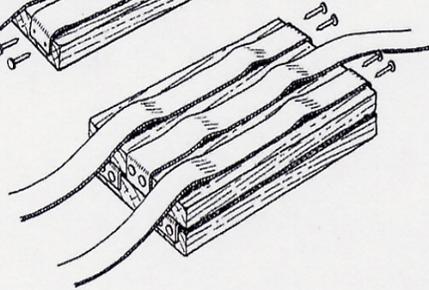
6 Continue adding blocks and attaching apes with two brads to the alternating ends of each block until you reach the top of the stack (see the bottom drawing at right). Trim the excess tape from the ends when the last block is in place. If everything is done right, when you look at the ends of the blocks, you should see a pattern of single tape, double tape, single tape, and so on. Since there's no glue to dry, try the toy out right away.

JACOB'S LADDER

1ST
BLOCK



2ND
BLOCK



ALL
BLOCKS

