



CUMBERLAND WOODTURNERS
ASSOCIATION

A Chapter of the AAW
NEWSLETTER JULY 2006

President: Jack Semelsberger
Treasurer: Ken Warrick
Activities/Program Committee: Randy Trentham & Jake Niedling

Vice President: John Lucas
Secretary: Teresa Paar

The Cumberland Woodturners met on June 28 at the workshop of Bill Westerbeck. President Jack Semelsberger called the meeting to order at 6PM. There were 19 members and 1 visitor present.

MONTHLY PROGRAM

Jon Reiver demonstrated how to make an open segmented vessel, like the one below.



Jon uses a computer program to design the vessel, so the individual pieces' size and shape are calculated automatically. Then the vessel is assembled using an indexing jig on the lathe headstock to evenly space the pieces.

Jon's instructions are at the end of the newsletter, and all the demo handouts are posted on the club website under "Tips & Techniques".
Thanks, Jon!

UPCOMING PROGRAMS

July Natural-edge bowl – Bobby Clemons
August Finishing – Group Discussion

WOOD O' THE MONTH

The wood of the month was brought by Teresa Paar, and won by John Lucas.



TREASURER'S REPORT

Ken Warrick gave the Treasurer's report as follows for May:

Previous Balance	\$2,235.79
Income	\$ 48.75
Expenses	\$ 16.33
Ending Balance	\$2,268.21

INSTANT GALLERY



MONTHLY CHALLENGE

The challenge was a lidded box.

Amateur winner: Jack Semelsberger

Pro winner: Jake Neidling



The winners:



UPCOMING CHALLENGES

July Turning using 2+ pieces of wood

August Natural-edge Bowl

UPCOMING EVENTS

Tennessee Assoc. of Woodturners Symposium

Augusts 12-13, Nashville, TN

Demonstrators: John Lucas, Dale Nish, Mike Mahoney, Dick Sing

CLUB NEWS

CLUB SHIRTS

John Lucas has found a denim shirt provider, so he will investigate the cost, etc. We still need a logo, so please submit your ideas to one of the officers.

GUEST DEMONSTRATOR

There was discussion about having a guest demonstrator, as we've done in past years. Nick Cook is available for Saturday, August 5. Each attendee cost would be \$20-25 for an all-day seminar.

For info about Nick Cook, please visit his website www.nickcookwoodturner.com.

Please contact Jack Semelsberger 423/452-0307 if you would be interested in attending the Aug. 5 demo.

MEETING REFRESHMENTS

July Bill Westerbeck

August John Lucas

NEXT MEETING

WHEN: July 26 @ 6PM (Social hr @ 5PM)

WHERE: Bill Westerbeck workshop

PROGRAM: Natural-edge bowl, Bobby Clemons

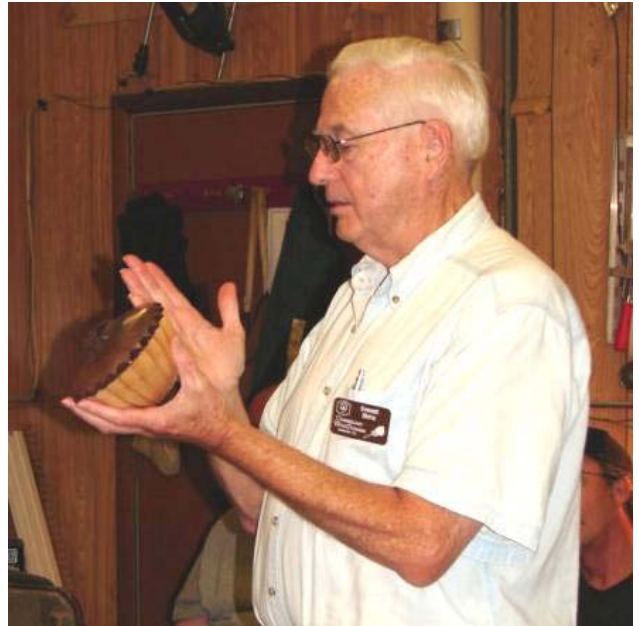
CHALLENGE: Using 2+ pieces of wood

PHOTOS

Jon Reiver demo



Everett Elkins



John Lucas



Gallery



OPEN SEGMENTED TURNING
JON REIVER
423-881-4683
JREIVER@BLEDSOE.NET

For the purpose of this demonstration:
I am using 12 segments per ring.
All instructions are sized to a Jet Mini-Lathe
Pictures and diagrams follow:

I. **Required items:**

1. An indexing wheel on your lathe.
2. A jig to hold the open segments.
3. A Jig or miter saw to cut the segments: note the angle on open segments is not as critical as with closed segments.
4. A Plan.

II. **The Indexing Wheel:** If your lathe doesn't come with one you can easily and cheaply make one. I bought an 8" by 8" by 1/4" AL . I marked the center with a center punch then marked with a compass an eight inch final diameter and a 7.5" inch outer ring and a 7" inner ring. I then marked the outer ring every 30 degrees. I offset the first mark on the inner ring 15 degrees and then marked it every 30 degrees, making a total of 24 marks, 12 on each ring. I center punched these marks and then drilled them out with a 1/4 inch drill bit. I then drilled a hole to tightly fit the center shaft of the headstock in the Al ring. I then cut the circumference of the Al plate to an 8 inch diameter. I bought an angle iron 1/4 inch thick and 6 inches long by 4 inches high. I cut it 2 inches wide. I opened the headstock up and put a cloth above the pulleys to protect them and drilled 2 holes 1/4 inch in diameter through the angle iron. I picked the next size smaller drill bit and drilled two corresponding holes in the top metal of the headstock. I then tapped the holes in the head stock with a 1/4 inch tap so I could bolt the two pieces together. I mounted the Index wheel on the lathe head stock, sandwiching it between a soft washer and the chuck. I used it to mark two holes on the angle iron, one for the inner ring and one for the outer ring of holes. The holes must be lined up vertically. I removed the angle iron and drilled two corresponding holes in it so a pin could reach from one to the other and lock them together.

III. **The Jig:** I welded a 5/8 diameter rod, 4 inches long to the center of a metal plate with 4 holes around its perimeter, 2 on each side. To hold the rod at right angles to the plate I first drilled and tapped a 1/4 inch hole through the rod and drilled a hole in the center of the plate. You could just as easily use a C Clamp to hold them together. I cut an 8 inch long Iron plate, 2 inches wide and 3/16 inch thick to fit over the plate and drilled holes in it to match the ones in the metal plate and then screwed the two together. I cut an 8 inch long piece of Al 1 inch wide to slide along the top of the Al angle iron.

IV. **Table Saw Jig.** To cut the segments I took a piece of plywood about 2 feet long and attached it too 2 runners that fit tightly in the parallel miter tracks. I then measured and marked a line across the plywood's length at (90 degrees – 15 degrees=75 degrees) to make the right 15 degree angle cut on the segments. I then made an initial cut into the jig with the saw blade marking the zero length. I measure the segments from this mark to a stop block for repeatability. See picture attached.

V. **A Plan.** I used to use a piece of circular graph paper marked in 12 divisions and actually measure the outer diameters with a divider on the paper. Then I went to a book of segmented turning angles, you can get one on the internet. Then I decided to use a software program, after trying several I bought Woodturner Pro on the internet for \$70. I make the plan entirely with this program.