

Echoes from the "BAT" Cave



April 9, 2008

Volume 3, Issue 4

Rose Engine Demo



BAT member Dean Swaggert wowed the group with a demo of his Rose Engine. He explained the device and the process in great detail and provided numerous amazing examples of his work.

Details inside

Dean Swaggert's home-brew Rose Engine in action. (Note the stops Dean added to the X-Y Table.)

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President Wayne Kuhn brought a huge selection of woodworking magazines which resulted from his spring cleaning. BAT absorbed the issues without difficulty.



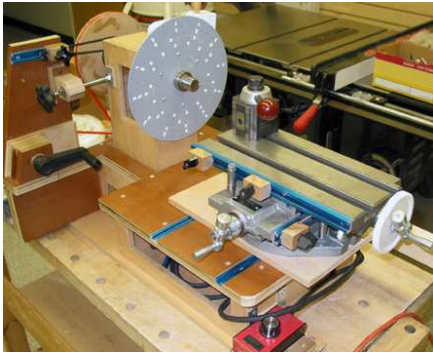
Raffle



Logs, drawers and slabs in the April raffle.

Blanks and logs of Cherry, Walnut, Bradford Pear, English Walnut, Box Elder Ambrosia Maple, Birch, and a drawer set. Tim Jackson donated a truck-load of Butternut. Woodcraft donated a Tool Tote and Craft Supplies USA donated \$30 in gift certificates. Thanks.

Rose Engine Demo



The Rose Engine Lathe



Dean turns the crank.



BAT watches attentively as Dean explains device.



Dean attaches rosette.



Rubber rubs rosette, deflecting lathe spindle.

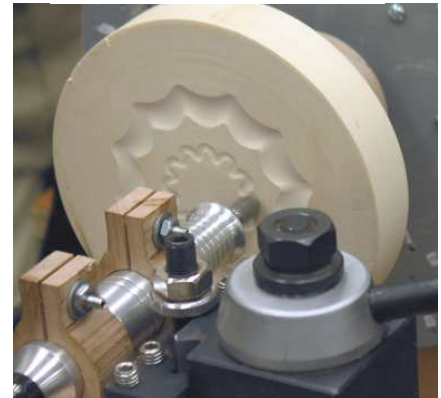


Cutter does its thing.



Dave Smith takes closer look.

Dean described his Rose Engine lathe made from the Jon Magill kit. The spindle oscillates back and forth. As it moves, the wood on the spindle is contacted by a cutter which carves a pattern. The shape of the pattern is determined by the outline of a cam known as a rosette. The rosette is affixed to the spindle and the entire spindle assembly is deflected as the cam contacts a stationary part called a rubber. Dean's rose engine has space for two rubbers so that two rosettes can be used simultaneously to produce complex patterns.



Different cutter makes different line.



Dean shows jam chuck.

Dean's Rose Engine is the smaller of two he has made. This is his traveling model which is made of 1/2" plywood. The stationary model is made of much heavier 3/4" MDF. Cutting is done by a Foredom tool or a cutting frame locked into a quick change tool post mounted on an X-Y axis table. He uses the Magill rosettes and also had it set up to use Lindow-White rosettes. The Magill rubbers are mounted in two T-slots. The spindle is powered by a hand crank or a 7.5 RPM motor geared down to 2 RPM. The various moving parts are connected by pulleys driven by belts made of vinyl tubing.



Multi-layer oval fluted box.



(Continued on Page 3)

Kudos

Congratulations to David Reed Smith and Keith Holt for their back-to-back articles in the Spring, 2008 issue of Woodturning Design magazine. Keith's article covered his Pouring Vessel in depth. Dave's article was on the Foam Ball Sander. You saw both of these techniques first at a BAT meeting! We are truly blessed to have such excellent turners and writers in our group. BAT members provided 24% of the editorial content of Issue #17 of Woodturning Design.

Writers Wanted

Dave and Keith aren't the only writers in BAT. Remember, Echos From the "BAT" Cave is YOUR newsletter. Have you learned a new technique? Did you see a demo elsewhere that you'd like to tell us about? We would happily accept original articles and pictures for publication in Echos. Contact the Editor at admin@baltimoreareturners.org And put "Newsletter" in the subject line. — *Richard Dietrich*

Susan Shane Takes on BAT Membership



(Left to Right) BAT President Wayne Kuhn discusses Susan Shane's role as Director of Public Relations

The consummate multi-tasker, Susan Shane, who has already made a splash setting up the first BAT craft show, the BAT Holiday Party, and BAT publicity and advertisement, will take on job of Membership Coordinator. She will be responsible for the email list, the BAT membership list, and dues collection. She gave her phone number and email address (MRShane@aol.com) to the group.

Rose Engine Demo (Continued)

(Sources for these parts listed on Page 4)

Affixing paper to a flat blank and mounting a pen in place of a cutter, he put the machine into action. As the audience watched in rapt attention, the machine drew several variations of a pattern. The pattern varies with the cutter's distance from the center and whether it is presented to the left or right side of the center. Dean showed a book of example patterns he created with his various rosettes.

After two paper demos, Dean got down to cutting wood. He mounts the piece to be cut on a tapped wooden face plate. The piece is secured with double sided tape. The cutter is controlled by a Router Speed Controller to run at 3000 RPM. He recommends final sanding before cutting as sanding afterward would lead to loss of detail. (A small bristle brush in a Dremel tool can be used to clean up 'frizzies' left after cutting.) The best woods to use are close grained woods such as Boxwood, African

Blackwood, Holly, and Bloodwood.

Fluting can also be done by disconnecting the spindle motor and using an indexing wheel.

After demonstrating cutting of simple shapes, Dean then showed how he turned unusual shapes. He cuts jam chucks with the rosette cutter to turn the bottoms of boxes. He showed an angle jig which he uses to turn patterns on sides of boxes. He also showed a vise-like brace which will hold a goblet in threaded holes to cut patterns on the side.

The shape of the pattern is controlled by the rosette shape, the shape of the rubber, the cutter's distance from the center, the shape and orientation of the cutter, and the depth of the cut. This makes for an infinite variety of beautiful patterns.

Fascinating demo. Thanks, Dean.

Sources

Rose Engine Lathe Parts:

From Jon Magill: (jon@magill.com) or PO Box 800, Clinton, WA 98236

A complete parts kit, with all the machined parts, two rosettes and all the parts and fasteners, including everything you need to build the lathe except for the MDF, biscuits and glue is available for \$299 from Jon Magill.

(More information at the AAW website: <http://www.woodturner.org/products/aw/> - scroll half way down page)

From Enco (www.use-enco.com):

X-Y table (Compound Slide Milling and Drilling Table): Enco Part #AG201-2826 @ \$69.99

Quick Change Tool Post Set: Enco Part #AG505-2253 @ \$89.95

From Surplus Center (Burden Sales) (www.surpluscenter.com):

7.5 RPM 115 VAC Brother InLine Gearmotor: Part #5-1637 @ \$59.95

From Lindow—White (<http://roseengineturning.biz/>)

Cutting Frame: \$350

Heavy-Duty Parts Kit: \$2,600

Announcements

Coming up:

June 20-22, 2008 AAW Symposium in Richmond, VA. Many BAT members will be in attendance. Check it out at <http://www.woodturner.org/sym/sym2008/>

Video Update

BAT has been awarded a \$1,000 grant from the AAW to help defray purchase of a video system for BAT demos. Gerry Meekins will head the effort to propose and purchase the equipment so that all BAT meeting attendees can get close-up views of the techniques being demonstrated.

Baltimore Area Turners

Baltimore Area Turners meets every month on the second Wednesday of the month at the Greater Baltimore Woodcraft Store at 1125 Cromwell Bridge Road
Towson, MD 21286

Next meeting:

May 14, 2008 at 7:00 PM

Agenda: Show and Tell.