



Pikes Peak Woodturners

A Chapter of the American Association of Woodturners

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Barrie (Butch) Harding brought his demonstration of the Star Ornament to us on

his way back from the Portland AAW Symposium. During the course of the demonstration, we learned a great deal about the value of collaboration between turners-- in this case, the Harding brothers. Billie built the sphere jig for Barrie in his shop here, and he also set up

the lathe for the demo. This ornament requires additional precision equipment, including a precision table saw

and a jointer. (The schematics for the sphere jig are available in the PPW Club library, along with the plans for laying up the 8-point and 6-point star spheres.)

The star ornaments come in two basic lay-ups: 6-point star (also known as the tum-

bling blocks pattern for 3 colors) and the 8-point star. It takes a precision table saw and a jointer to create the precise pieces for the 30 degree cuts (6-point) and 45 degree cuts (8-point) pieces. It is also necessary to use enough contrast in the woods to bring up the patterns visually. Barrie uses Titebond II glue for the assembly of the blank. Barrie passed out cutting and glue-

up guides, which you can copy from the club's library.

He also noted that the blanks can be sliced for use as disc ornaments or discs for inlay.

This provides an additional 2-dimensional use for the same time spent gluing up the blanks.

One of the challenges with the pieced blank is to get the center in the center, since the glue is harder than the wood. It is also important to



pay careful attention during the first outside cuts, which will determine the size of the circles that show on the surface of the sphere.

Barrie turns the outside just a little larger than the final dimension, makes spigots at both ends, and then cuts it in half for hollowing, leaving extra length for a lap joint. The outside cuts can be made with a spindle gouge, or the Harding jig. The pattern of the star began to emerge as he turned the outside. The stars have circles on four sides, which are formed by the portion of the last layer (covers) of the glue-up.



The inside can be turned in two ways. Using gouge and scraper is very much like creating the inside of a box or bowl. For everyday turning, Barrie uses a round piece of cardboard as a measuring device to achieve the correct curvature inside. It is necessary for one side to stand a little taller to allow for the lap for gluing it back together. In retrospect, this seems difficult, and I think it must have been the step in the demo where Barrie advised us to 'ootch it just a little bit.'

The Hardings have developed a jig for turning either the inside or outside of a sphere.

The jig works on a 10" swing lathe like the Jet, Delta, or Oneway. The cutter for the jig cuts at center height or just slightly lower.

Cleaning off the spigots requires cup chucks for both headstock and tailstock. Barrie uses a rubber plug for the tailstock. He then turns off the spigots, revolves the sphere and continues until he has a continuous round surface.

One of the challenges with spherical ornaments is to make the holes for the finials so that the top and bottom line up. Barrie's jig for drilling the holes is a circle cut in the 2 x 4 to use as a holder in the drill press.

Barrie finds that the bottom finial pleases him best when the length is 1.6 x the diameter of the sphere. He also prefers the top in a ratio of .6 to the diameter of the sphere.

Some of the spheres have elaborate piercing. All of Barrie's piercing, including the globes, is done freehand with a dental tool, which functions like a very high speed dremel. His piercing pattern is unique. On the big globe, he place the shapes of animals into the pierced sections, which draw in your eye and your fascination with the piece.

Barrie's demonstration moved at a rapid pace. He was all charged up from the AAW demo, and we were lucky to be the curtain call! Special thanks to our own Billie Harding, and congratulations on the 50th Anniversary of Harding Nursery.

Thanks, Tony, for the photo of the sphere jig.

PPW MINUTES OF AUGUST MEETING:

Meeting called to order by President Ed Davidson at 6:30 p.m.

Tony Bevis reviewed the Instant Gallery and there were a lot of great turnings. Keith Smith won the perpetual bowl made by Dominic Incitti. Keith will bring the PB to the September meeting.

Barrie Harding did a great demo on how to make Star Ornaments along with passing on many turning tips that all turners can use.

Announcements:

Our officer election will be at the November meeting. Larry Fox, President-Elect, is looking for volunteers for the offices of Treasurer and Librarian.

Keith Gotschall will do the September demonstration.

Allan Batty will do a day long demo Saturday, October 27th at the Woodcraft store. Admission will be \$10 members/ \$20 non-members.

Adjourned.

Respectfully submitted,

Jim Carey, Secretary



Barrie Harding's globe from the demonstration in August.

more CLASSIFIED

Billie's Turquoise...\$10/oz

Sleeping Beauty....\$15/oz

Nacozari.....\$12/oz

Elko 8.....\$12/oz

Kingman.....\$12/oz

Other locally crushed stone:

Malachite.....\$8/oz

Lapis.....\$15/oz

Pipestone (red or blk) \$10/oz

And you may need

CA glue for inlay....\$5/ 2oz

CA accelerator....\$6/2 oz

CALL DENNIS 481-8754

CLASSIFIED

FOR SALE: Famous Cripple Creek Turquoise, not stabilized nor colored; this is the real stuff right out of the ground; clean and packaged rocks...Rocks..\$12/oz

...Crushed assortment (1 pkt each powder, medium flakes, large chips) \$15/oz...a perfect mix for inlay with CYA or epoxy...call Larry 719-686-9883

FOR SALE: 10: drill press with new chuck...call Papa Jo @ 548-9908

FOR SALE: Screw-on two-prong drive center made by Tony Bevis and used by professionals...now in either 1 1/4 x 8 tpi or M33-3.5 thread....\$45

FOR SALE: Lathe indexing retrofit kit for 1" or 1 1/4" x 8 tpi headstock spindles...choice of 24 or 36-hole indexing wheel, stop assembly and retaining nut...either size or set-up \$80/kit + shipping...call Dick Breckon 719-697-9718

SAVE THE DATE!

KEITH GOTSCHALL will do the demonstration for SEPTEMBER 6th, and

ALLAN BATTY will be here for an All-Day Demo on October 27th; Allan also has classes scheduled in Denver Oct. 21 and 22, and in Ft. Collins October 25th and 26th

Thanks to Woodcraft for hosting our club meetings and storing our lathe, library, and tools!



Photo: Keith Gotschall making an off-center platter with his eyes closed

OUR MENTORS:

call them for advice and basic skill instruction:

Papa Jo Aquila 548-9908

Tony Bevis 660-8305

Dennis Liggett 481-8754

Dennis Korth 634-1260

Dick Breckon 597-9718

Juergen Schleicher 540-9921



Keith Gotschall will be bringing new work to the September meeting. He is well known for the Vortex Vessels pictured above. He writes that he has been doing small intricately detailed work, and will bring some of it for sale to our members.

Keith will also leave the platter that he turns in the demo with us for our Club's collection of turnings.

Oops, forgot...

to mention that Fred and Larry are selling mesquite from their truck before the meeting.....



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THURSDAY, SEPTEMBER 6TH

6:30 P.M.

**DEMO: OFF-CENTER TURNING WITH
KEITH GOTSCHALL**

WOODCRAFT STORE CLASSROOM 5995 ACADEMY.....719-216-9889

**Join us for the meeting, and join our club! PPW dues are \$20/year
Dues let us bring in guest demonstrators, purchase club equipment, add to our Lending Library,
and keep you informed through the website and the newsletter**

PIKES PEAK WOODTURNERS

c/o Kay Caunt

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