

## TURNING A SPHERE INSIDE A SPHERE

Submitted by *Mike Malecki*

At the October meeting, *Mike Malecki* showed a sphere turned inside a sphere during Show & Tell. Many members asked how it is done. Mike created a second one, photographing the process as he did so and provides this explanation.

**STEP ONE – TURN A SMALL SPHERE.** I prefer to use a hardwood as this is the piece that will be being hit with a mallet. When the final shape is complete you may part off the small sphere.



**STEP TWO - SHAPE A LARGER SPHERE.** Try and leave enough wood on the chuck end of the piece to allow the larger sphere to be drilled. I'm using maple for both spheres.



**STEP THREE – MEASURE.** Use a measuring device to find the size of the smaller sphere. I then select a forstner bit that is approximately 1/8" smaller than the diameter of the smaller sphere.



**STEP FOUR – DRILL.** Drill to depth and then hollow out the larger sphere.



**STEP FIVE – BOIL.** With the tenon still attached, submerge the larger sphere in boiling water for approximately 8 minutes. I move the large sphere around a bit and try and get fresh water inside the hole.



**STEP SIX – LOAD.** Finally, as soon as I remove the large sphere out of the water, I place the small sphere on top of the opening in the large sphere and give a hit with the mallet. This may take a few hits till it ends up inside. I wear a glove to hold the larger sphere ... remember, it was just in boiling water!



**FINALLY ...** Once the small sphere is in the large sphere, I let the object dry overnight. After dry, put the piece back on the lathe and part the large sphere off.