

Session 3 Hollowing Project



Materials:

FACE SHIELD

Hollowing tool Options:

Dale Nish Formed Scrapers Style C part # 247-0098 or D part # 247-0099

Available from Craft Supplies Woodtuners Catalog

Set of 3, 1/4" square hollowing tools

Swan neck hollowing tool

Your preferred small project hollowing tool

Hollowing Tool Scraper with Outrigger

Parting tool

1 1/4" Spindle Roughing Gouge

3/8" Spindle gouge

3/4" Skew optional

Project Wood: See individual project handout for specific materials

Introduction:

This session is designed to provide the students with the opportunity to do some hollowing and to learn more about scrapers. The best projects for this session are the hollow globe ornament with cap and icicle, small hollow form (3"x 3" x 7" plus or minus), or a lidded box (although the lidded box does not provide the opportunity for blind hollowing). I prefer to have the students turn a hollow globe ornament as it gives them another opportunity to practice spindle work and to fit a tenon into a mortise. It also introduces students to the use of a Jacobs chuck for drilling a piece on the lathe. One of the more important lessons is the experience of hollowing an object without being *able to*

view the cutting edge. This is small scale turning so the risk of injury is reduced. There are a number of tools designed specifically for hollowing some of which work well for small scale hollowing. Most hollowing is accomplished with some type of scraper held in a variety of bars or scraping tools the best ones minimize the tendency of the tool to roll due to excessive torque. Swan neck style tools work well as the cutters edge lines up with where the tool is supported on the tool rest.

This might also be a good time to have the students practice their facing cuts to make a glue block for the hollow globe. One of the objectives of these sessions is to expose the students to a wide variety of skills and techniques in a limited amount of time. If all goes well some students may provide the class with some examples of creative opportunities and pop their globes off the lathe, in which case the making and use of a jam chuck can be demonstrated. If short on time or if teaching these sessions in the evenings, it may be better to turn a small hollow form. The main emphasis of this session is to experience using scrapers for hollowing through a small access hole.

Demonstration:

Using the project handout titled Hollow Globe Ornament with Icicle or the one titled **“Tips & Techniques for Turning Hollow Forms an Introduction to Shape & Form”** from the manual or your own project handout. Give a short demonstration of the first few steps for the project. Be sure to have finished examples of the project available for the students to view and to copy. It is always best to demonstrate a few steps at a time. If you give the students too much information they tend to get lost and confused. A good deal of time can be wasted one-on-one explaining the steps all over again. Also the idea is to maximize the students’ hands-on time. If turning a hollow globe ornament, have one that is not yet glued up to show how the parts relate to each other.

Project:

Each student should have a handout or a project outline to aid him or her in the steps involved in the making of the project. Once again, when the majority of the students are ready to move on to the next step, stop the class and demonstrate the next series of steps. Try to avoid turning the slower students’ work, in order to get him or her caught up. The work must be the students’ work, so that he or she will feel ownership of the finished piece. If it is necessary to show a particular cut or technique it is a good idea to have a scrap block on a lathe and show the technique and then have the student practice the cut on the scrap block. Now might be a good time to start focusing more on design and shapes as the students are getting more comfortable with the tools and they are more open for discussing various shapes and design concepts. As always have fun and remember to keep the mood light and cheerful.

Suggested Books and DVDS

Books:

Woodturning Christmas Ornaments by Dale L. Nish

Turning Ornaments & Eggs by Dick Sing

Turning Miniature Bird Houses by Dick Sing

Into to Segmented Turning by Curt TheoBald

Segmented Woodturning by William Smith

The Art of Segmented Turning by Malcom Tibbets

Ellsworth on Woodturning by David Ellsworth

DVDS:

“Making A Hollow Form “ with Mike Jackofsky

“Vessels of Illusion” with Trent Bosch

“Hollow Forms & Lidded Urns” with Mike Mahoney

“Secrets to Creating Two Piece Hollow Forms” with Brian McEvoy

“Thin Wall Turning” Binh Pho

“Surface Design On Thin Wall Turning” Binh Pho

“Video # 3” with David Ellsworth Hollow Turning

“Tips For Turners: Hollow Forms-DVD with David Ellsworth

“Hollow Turning-DVD” with John Jordan

“Bat Houses: Turning Halloween Ornaments” with David Best