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Segmented Turning:
Where Precision Partners with Turned Elegance
September 8-12, 2020 (Tuesday to Saturday)

There is something magical about precisely assembling hundreds (or even thousands) of pieces of wood and then shaping that assembly on the lathe. Viewers of segmented work often ask, "How'd he do that?" During this five-day class, I will try to share techniques, methods of work, and inspiration that will give you the confidence to pursue this fascinating art form. Each day will be comprised of a combination of PowerPoint lectures, technique demonstrations, and supervised student "hands-on" working time. The following is a rough outline of the course schedule.

Day One

- Intro PowerPoint lecture
- Basic design techniques (using both paper and pencil and computer software)
- Discussion on "good" design
- Construction techniques (segment cutting, ring gluing, ring stacking, etc)

Each student will design his/her own turning and throughout the five-day course, create their design. One of the course goals will be that each student nearly completes a turning that they can take home to finish. Because of time constraints, designs and sizes will be limited (small and simple), but the basic techniques to do more elaborate work will be thoroughly covered.

Day Two

- More PowerPoint lectures (feature ring building techniques)
- Demonstration of stacked laminated rings (rings cut on the lathe to create a "checkered" vessel)
- Continued work on student designs

Day Three

- More PowerPoint lectures (stave construction, ribbon construction, and more)
- Continued work on student designs

Day Four

- More PowerPoint lectures (icosahedron construction)
- Turning spheres and inserting plugs
- Continued work on student designs

Day Five

- More PowerPoint lectures (wide assortment of topics)
- Demonstration of tapering full rings into donut shapes
- Lecture on inspiration and symbolism (thinking outside the bowl)
- Completing work on student designs

Suggested Tools to Bring

The following tools are optional for you to bring. The school has a limited supply of the necessary tools, but you are encouraged and welcome to bring your own.

- A dial caliper for making measurements
- A compass for drawing circles
- A few drawing tools such as a ruler and pencils
- A small handheld calculator
- Most student lathes will be Oneway 1640, which use a M33 3.5tpi drive spindle. If you happen to also use that size at home, then bring two faceplates, mounted onto thick (1.5" to 2") hardwood waste blocks. This is only if you own a lathe with the same spindle size as the school's lathes. Otherwise, you will work with four-jaw chucks at the school and you will be able to finish your work at home using your own chuck.
- A few turning tools such as your favorite bowl gouge and a few scrapers
- One roll good quality fiber reinforced duct tape
- One roll 2 sided indoor/outdoor carpet tape (best price/quality is available at Wal-Mart "duck" brand)
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- Safety glasses, face shield (Z87+ rating) & personal dust protection (mask, etc).

Students are welcome to contact me if questions arise prior to the start of class. I realize the experience level amongst the students will vary greatly. I will attempt to address the needs and interests of all. My bottom line goal is that everyone goes home with the necessary "tools" to pursue this fascinating art form. Perhaps most important, I want people to have "fun" acquiring new skills. I want you do be able to go home and have people ask you the question, "How'd you do that?"

See you on September 8th,
Malcolm
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