

# ***Eric Lofstrom 2016 Woodturning Instruction***

## **Evening Demonstrations (~ 90 min.): (materials provided by host)**

### **"Triple-Axis Turning: Raindrop Sculptures on the Lathe"**

This demonstration showcases the techniques I use to turn multi-axis raindrops, exploring the interaction of multiple curves within a single sculptural piece. I will discuss concepts of multi-axis turning, spindle turning techniques, how to create flowing curves on an intermittent surface, using basic biomechanics for ultimate tool control and methods used to produce a clean cut from the tool. Time will also be spent demonstrating embellishing techniques which can be utilized to enhance the grain in your artistic pieces. This session will inspire you to extend your artistic voice through multi-axis turning! ***\*This demonstration requires a full-size lathe with electronic variable speed & a bandsaw!***

**MATERIALS LIST:** Triple Axis Blanks= 3"square x6" (x1) of dry maple burl(x1)spindle blank AND 3"square x6" (x2) of clear, straight-grain dry maple, alder, or cherry spindle blanks...***\*If my demonstration requires air-travel, PLEASE contact me to arrange coloring agents for demo.***

### **Multi-Axis Scoops: Sculpture Meets Function (Evening Demo)**

This demonstration will showcase multi-axis spindle and facegrain turning techniques in a project which combines sculpture and function. I will discuss concepts of multi-axis turning, how to create flowing curves and techniques to produce a clean cut. Time will also be spent demonstrating multiple chucking techniques to hold the piece for hollowing the scoop body. This demonstration will inspire you to explore sculptural turning and to bring artistic woodturning into your kitchen! ***\*This demonstration requires a mid to full-size lathe with electronic variable speed!***

**MATERIALS LIST:** Scoop Blanks= 3"square x6" (x2) of clear, straight-grain dry eastern maple or eastern cherry spindle blanks, 4" square x 3" (x1) of facegrain dry maple, alder (or comparable softwood species)

### **Translucent Bowls: Turning Wet Wood and "seeing the light" (Evening Demo)**

Using only basic bowl turning tools for this demonstration, I will create an ultra-thin-walled bowl using light to gauge its thickness. In addition to reviewing bowl turning techniques, the main focus of this demonstration is to showcase tool control techniques used to finesse bowl forms into glowing works of art. This demonstration will show you what basic tools and an understanding of tool control will allow you to do with a piece of wet wood. Once you learn to turn translucent-walled pieces, you'll be able to create consistent wall of any thicknesses in any of your pieces!

**MATERIALS LIST:** Translucent Bowl Blanks (facegrain)= 6"-8"dia. X3"-4"thick (x2) of WET maple, alder, cherry, or madrone facegrain bowl blanks (IF natural edge, must be relatively balanced)

### **Endgrain Bowls (Evening Demo)**

This demonstration will showcase techniques used to create functional but artistic projects using small endgrain pieces of wood. Emphasis will be placed on demonstrating tool control, endgrain turning techniques, and discussing form. In addition, I will showcase gilding techniques and other embellishments, adding drama to an already elegant form. After this demo, you'll begin to see any small block of plain-grained wood as a potential piece of art!

**MATERIAL LIST:** Endgrain Bowl Blanks= 3"-4"square x4" long (x2) of dry maple or eastern cherry spindle blanks

### **Endgrain Boxes- w/ Friction-Fit Lids (Evening Demo)**

This demonstration is designed to equip participants with basic skills to create functional but artistic projects using small endgrain pieces of wood. In addition to learning basic spindle and endgrain turning techniques, time will be spent exploring various jam chucking techniques used to mount pieces on the lathe for finish turning. Using basic turning tools, the demonstration will be devoted to turning small endgrain boxes. Emphasis will be on tool control, form, and simple embellishments.

**MATERIAL LIST:** Endgrain Bowl/Box Blanks= 3"square x6" long (x2) of dry maple or eastern cherry spindle blanks

### **Square-Winged Bowls (Evening Demo)**

During this demonstration, I will create a bowl with an outward flowing square rim. Created from a square-corner blank with basic turning tools, this project will showcase the bowl gouge, finishing scrapers, and several methods of mounting a facegrain blank to the lathe for turning. I will emphasize tool control and creating a flowing form, while aiming for the cleanest cuts possible from my tools. The square-winged bowl demonstration is sure to tease your mind and set your imagination flying!

MATERIAL LIST: Square-Winged Bowl Blanks= 4"-5"square x2"thick (x2) of clear, figured, dry western/eastern maple (may substitute w/ cherry or equivalent) facegrain blanks

### **Skew Skills: "Making the Cuts!" (Evening Demo)**

Understanding how to perform foundational woodturning cuts with the skew will make cutting with any other tool easier. In addition to reviewing basic spindle turning, emphasis will be on sharpening methods used to create a razor's edge and techniques of finessing tool control to obtain an ultra-clean cut. While demonstrating basic to advanced cuts using the skew, I will explore several practice exercises designed to fine-tune your turning skills. This demonstration will end with two skill-honing projects; the egg and my version of the finger-tip spinning top. The experience of using the skew and the lessons learned during this demo will expand your understanding of ALL cutting tools!

MATERIAL LIST:

- 1) Egg/Practice Blanks= 2"square x6" (x6) of clear, straight-grain pine, soft maple, alder, or eastern cherry spindle blanks.
- 2) Spinning Top Blanks= 3"square x6" (x2) of clear, straight-grain, dry hard maple (or equivalent such as beech, eastern cherry or dry madrone) spindle blanks

## **All-Day Demonstrations: (materials provided by host)**

### **Spindle, Endgrain & Facegrain Technique Building Treasures** (Spinning Tops, Endgrain Bowl/Box, Square-Winged Bowl, Rice Bowl) **(All-Day Demo)**

This all-day demonstration will showcase several projects, ranging from very simple to advanced turning and embellishing techniques. The morning will focus on showing fundamental spindle and endgrain turning techniques I use to turn spinning tops and endgrain bowls/boxes. After lunch, I will turn a square-winged bowl, then complete the day with turning a small rice bowl. All projects will focus on tool control, form, and exploring embellishments. The day's turning will showcase several tools; skew, bowl gouges, scrapers, chucking methods, embellishing tools, etc. All skills and projects turned during this day's demo are worth adding to every turner's toolbox of techniques!

MATERIAL LIST:

- 1) Spinning Top Blanks= 3"square x6" (x2) of clear, straight-grain, dry hard maple (or equivalent such as beech, eastern cherry or dry madrone) spindle blanks
- 2) Endgrain Bowl/Box Blanks= 3"square x6" long (x2) of dry maple or eastern cherry spindle blanks
- 3) Square-Winged Bowl Blanks= 4"-5"square x2"thick (x2/participant) of clear, figured, dry western/eastern maple (may substitute w/ cherry or equivalent) facegrain blanks
- 4) Rice Bowl Blanks (facegrain)= 6+"dia. X3"-4"thick (x2) of dry maple, eastern cherry or walnut facegrain bowl blanks

**Customized All-Day Demo to Suit Your Interests= Work with me to create a customized line-up to suit your club's specific interests. Choose up to 3 topics from my evening demonstration line-up (above).**

## 1-Day Hands-On (8 student max.): (materials provided by host)

### **Triple-Axis Turning: RAINDROP Sculptures on the Lathe (1-Day Hands-On)**

This class is designed for turners who want to explore the interaction of multiple curves within a single sculptural piece. In addition to reviewing spindle turning techniques, you will learn concepts of multi-axis turning, sharpening methods to obtain a razor sharp tool edge, and how to produce the cleanest cut possible with control. Time will also be spent on embellishing techniques which can be utilized to enhance the grain in your artistic pieces. You will take home samples created during the class for inspiration once back in your own shop!

Please bring the following tools: (note- I will bring a selection of tools which you are free to borrow if you do not already own a tool listed below)

- Spindle Roughing Gouge (approx. 3/4")
- Skew (med.-lg.)
- Spindle Gouge (1/2" dia. Shank)
- Multi-Spur or Safety Drive Center (#2MT, 7/8" Steb-Center or equivalent)
- Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
- Face shield (and any other appropriate safety gear)
- Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection
- Electronic Variable Speed, full-size lathes are REQUIRED for this hands-on class!**

#### MATERIALS LIST:

- 1) Triple Axis Blanks= approx. 3" square x 6" (x5/participant) of clear, straight-grain **dry** maple, cherry, walnut or alder (or comparable species) spindle blanks

### **Multi-Axis Scoops: Sculpture Meets Function (1-Day Hands-On)**

This hands-on class will showcase multi-axis spindle and facegrain turning techniques in a project which combines sculpture and function. I will discuss concepts of multi-axis turning, how to create flowing curves and techniques to produce a clean cut. Time will also be spent exploring chucking techniques to hold the piece for hollowing the scoop body. This class will inspire you to explore sculptural turning and to bring artistic woodturning into your kitchen! You will take home samples created during the class for inspiration once back in your own shop!

Please bring the following tools: (note- I will bring a selection of tools which you are free to borrow if you do not already own a tool listed below)

- Bowl Gouge- Fingernail Grind (3/8" dia. shank)
- Spindle Roughing Gouge (approx. 3/4")
- Skew (med.-lg.)
- Spindle Gouge (1/2" dia. Shank)
- Radiused-Edge Scraper- approx. 1/4" thick x 3/4" wide
- Parting Tool
- Multi-Spur or Safety Drive Center (#2MT, 7/8" Steb-Center or equivalent)
- 4-Jaw Chuck- spindle size **-to fit lathe**
- Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
- Face shield (and any other appropriate safety gear)
- Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection
- Electronic Variable Speed, mid to full-size lathes are REQUIRED for this hands-on class!**

MATERIALS LIST: Scoop Blanks= 3" square x 6" (x4) of clear, straight-grain **dry** eastern maple or eastern cherry (or comparable species) spindle blanks, 4" square x 3" (x1) of facegrain dry maple, alder (or comparable softwood species)

### **Translucent Bowls: Turning Wet Wood and "seeing the light" (1-Day Hands-On)**

This hands-on class is designed to equip participants with techniques needed to turn ultra-thin, translucent bowls. In addition to reviewing bowl turning techniques, the main focus is tool control techniques used to finesse bowl forms into glowing works of art. Using only basic tools, we will explore many exercises designed to fine-tune your turning skills. The experience of turning ultra-thin bowls using wet wood will take your bowl turning to a new level. Once you've challenged yourself to turn translucent pieces, any wall thicknesses become easier!

Please bring the following tools: (note- I will bring a selection of tools which you are free to use if you do not already own a tool listed below)

- Bowl Gouge- Fingernail and Traditional Grinds (½" dia. shank)
- Radiused-Edge Scraper
- Parting Tool
- 4-Jaw Chuck OR 3" Faceplate (w/sheet metal screws)- spindle size **-to fit lathe**
- Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
- Face shield (and any other appropriate safety gear)

#### **MATERIALS LIST:**

- 1) Bowl Blanks (facegrain)= 4"-6" dia. X3" thick (x3/participant) of **WET** maple, alder, cherry or madrone (or comparable light colored wood) facegrain bowl blanks

### **Artistic Endgrain Bowls (1-Day Hands-On)**

This hands-on class is designed to equip participants with basic skills to create functional but artistic projects using small endgrain pieces of wood. In addition to learning basic spindle and endgrain turning techniques, time will be spent exploring embellishment techniques to create truly unique artistic pieces. Using basic turning tools, the first portion of the day will be devoted to turning small endgrain bowls. Emphasis will be on tool control, form, and simple embellishments. In the afternoon, we will explore basic color embellishments using acrylic paints. You will take home samples created during the class for inspiration once back in your own shop.

Please bring the following tools: (note- I will bring a selection of tools which you are free to use if you do not already own a tool listed below)

- Bowl Gouge- Fingernail Grind (1/2" dia. shank)
- Spindle Gouge- Fingernail Grind (3/8" or 1/2" dia. Shank)
- Skew (med./lg.)
- Radiused-Edge Scraper- approx. 1/4" thick x 3/4" wide
- Parting Tool
- Multi-Spur or Safety Drive Center (#2MT, 7/8" Steb-Center or equivalent)
- 4-Jaw Chuck- spindle size **-to fit lathe**
- Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
- Face shield (and other appropriate safety gear)
- Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection

#### **MATERIAL LIST:**

- 1) Endgrain Bowl Blanks= 3"-4" square x4" long (x3/participant) of dry maple or eastern cherry spindle blanks

### **Endgrain Boxes- w/ Friction-Fit Lids (1-Day Hands-On)**

This hands-on class is designed to equip participants with basic skills to create functional but artistic projects using small endgrain pieces of wood. In addition to learning basic spindle and endgrain turning techniques, time will be spent exploring various jam chucking techniques used to mount pieces on the lathe for finish turning. Using basic turning tools,

the day will be devoted to turning small endgrain boxes. Emphasis will be on tool control, form, and simple embellishments. You will take home samples created during the class for inspiration once back in your own shop.

Please bring the following tools: (note- I will bring a selection of tools which you are free to use if you do not already own a tool listed below)

- Bowl Gouge- Fingernail Grind (1/2" dia. shank)
- Spindle Gouge- Fingernail Grind (3/8" or 1/2" dia. Shank)
- Skew (med./lg.)
- Radiused-Edge Scraper- approx. 1/4" thick x 3/4" wide
- Bedan (3/8") or Square-Edge Scraper- approx. 1/4" thick x 3/4" wide
- Parting Tool
- Multi-Spur or Safety Drive Center (#2MT, 7/8" Steb-Center or equivalent)
- 4-Jaw Chuck- spindle size **-to fit lathe**
- Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
- Face shield (and other appropriate safety gear)
- Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection

MATERIAL LIST:

- 1) Endgrain Box Blanks= 3"square x6" long (x3/participant) of dry maple or eastern cherry (or comparable species) spindle blanks

### **Square-Winged Bowl (1-Day Hands-On)**

This hands-on class is designed to equip you with basic skills to create a small bowl with an outward flowing square rim. Created from a square blank with basic turning tools, we will explore techniques to maximize the bowl gouge and finishing scrapers, in addition to utilizing several methods of mounting a facegrain blank to the lathe for turning. Focus will be placed on tool control and creating a flowing form, while aiming for the cleanest cuts possible from the tools. The square-winged bowl class is sure to tease your mind and set your imagination flying!

Please bring the following tools: (note- I will bring a selection of tools which you are free to use if you do not already own a tool listed below)

- Bowl Gouge- Fingernail Grind (1/2" dia. shank)
- Spindle Gouge- Fingernail Grind (3/8" or 1/2" dia. Shank)
- Radiused-Edge Scraper- approx. 1/4" thick x 3/4-1" wide
- Parting Tool
- Multi-Spur or Safety Drive Center (#2MT, 7/8" Steb-Center or equivalent)
- 4-Jaw Chuck- spindle size **-to fit lathe**
- Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
- Face shield (and other appropriate safety gear)
- Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection

MATERIAL LIST:

- 1) Square-Winged Bowl Blanks= 4"-5"square x2"thick (x3/participant) of clear, straight-grain dry western/eastern maple (may substitute w/ eastern cherry or equivalent) facegrain blanks

### **Skew Skills: "Making the Cuts" (1-Day Hands-On)**

This hands-on class is designed to equip you with understanding of how to perform foundational woodturning cuts with the skew. In addition to reviewing basic spindle turning techniques, emphasis will be on sharpening, tool control to finesse a clean cut, and practicing basic to advanced cuts using the skew. Using only the skew, we will explore many practice exercises designed to fine-tune your turning skills. Depending on students' skill level we will also explore two of

my favorite spindle skill-honing projects; the egg and my version of the finger-tip spinning top. The experience of using the skew and the lessons learned during this hands-on session will expand your understanding of ALL cutting tools! You will take home several samples created during the class for reference and inspiration in your own shop.

Please bring the following tools: (note- I will bring a selection of tools which you are free to use if you do not already own a tool listed below)

- Skew (med. rectangular shank OR 3/8" round shank)
- Multi-Spur or Safety Drive Center (3/8" or 7/8" Steb-Center or equivalent)
- Knife (Utility knife w/fresh blade OR Sharp Pocket knife)
- Diamond Hone (handheld- DMT Credit Card, fine or extra-fine is recommended)
- 4-Jaw Chuck- spindle size **to fit lathe**
- Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
- Faceshield (and other appropriate safety gear)
- Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection

**MATERIAL LIST:**

- 1) Egg/ Spinning Top Blanks= 2 1/2"square x6" (x3/participant) of clear, straight-grain, dry hard maple (or equivalent such as beech, eastern cherry or dry madrone) spindle blanks
- 2) Practice Blanks= 1 1/2"-2" square x6" (x6/participant) of clear, straight-grain pine, alder or soft maple spindle blanks

**Sharpening Skills: "Edges to SHAVE With!" (1-Day Hands-On)**

This hands-on class is designed to equip turners with understanding of how to get the most out of your tools. In addition to reviewing basic sharpening procedures/ techniques, emphasis will be on grinder set-up and tuning, using jigs for consistent results, and learning the art of creating a razor edge. We will explore many practice exercises designed to fine-tune your sharpening skills. Understanding how to maintain your tools with a razor edge and experiencing a tool which slices the wood with ease will increase your tool performance and decrease sanding! You will take home sharp tools and sharpening aides/tools created during the class to assist in maintaining your sharp edges once in your own shop.

Please bring the following tools: (note- I will bring a selection of tools as samples)

- Skew (med. rectangular shank)
  - Spindle Roughing Gouge
  - Spindle Gouge (3/8"-1/2")
  - Bowl Gouge (3/8"-1/2")
  - Scraper (approx. 3/4"-1" wide shank)
  - Parting Tool
  - Multi-Spur or Safety Drive Center (3/8 or 7/8" Steb-Center or equivalent)
  - 4-Jaw Chuck- spindle size **to fit lathe**
  - Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
  - Faceshield (and other appropriate safety gear)
  - Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection
  - Diamond Hone (handheld- DMT Credit Card, fine or extra-fine is recommended)
  - Leather Strop (w/emery compound)
- \*Please also bring your Oneway Vari-Grind jig if you use one for creating a fingernail grind bowl gouge.***

- Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection
- Faceshield (and other appropriate safety gear)

**MATERIAL LIST:**

- 1) Spindle Practice Blanks= 1½"square x6" (x2/participant) of clear, straight-grain "2x2 stock" (from the hardware store) spindle blanks
- 2) Facegrain Practice Blanks= 4"dia.x2"thick (x1/participant) facegrain bowl blank

## 2-Day Hands-On (8 student max.): (materials provided by host)

### **Spindle & Endgrain Technique Building Treasures** (Eggs, Tops, Endgrain Bowls & Boxes) **(2-Day Hands-On)**

This hands-on class is designed to equip participants with basic skills to create small turned treasures using spindle and endgrain pieces of wood. In addition to learning basic spindle and endgrain turning techniques, time will be spent exploring embellishing techniques to create truly unique artistic pieces. Using basic turning tools, the first day will be devoted to turning eggs and spinning tops. Emphasis will be on tool control, form, and simple embellishments. On the second day, time will be spent turning endgrain bowls or boxes. Depending on your skill level and interests, we will explore embellishing techniques such as texturing, dye and the use of acrylics. You will take home several samples created during the class for inspiration once back in your own shop.

Please bring the following tools: (note- I will bring a selection of tools which you are free to use if you do not already own a tool listed below) **\*optional tools**

- Bowl Gouge- Fingernail Grind (1/2" dia. shank)
- Spindle Gouge- Fingernail Grind (1/2" dia. Shank)
- Skew (med./lg.)
- Radiused-Edge Scraper- approx. 1/4" thick x 3/4" wide
- Parting Tool
- Multi-Spur or Safety Drive Center (3/8 or 7/8" Steb-Center or equivalent)
- 4-Jaw Chuck- spindle size **to fit lathe**
- Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
- Face shield (and other appropriate safety gear)
- Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection
- \*Spindle Roughing Gouge (approx. 3/4")

#### MATERIAL LIST:

- 1) Spinning Top & Egg Blanks= 2 1/2"square x6" (x4/participant) of clear, straight-grain, dry eastern maple, cherry, beech, or madrone spindle blanks
- 2) Endgrain Bowl & Box Blanks (endgrain)= 3"square x4" (x2/participant) clear, dry hard maple or eastern cherry (or comparable species) spindle blanks

### **Advanced Triple-Axis Turning: FISH Sculptures on the Lathe** **(2-Day Hands-On)**

This advanced-level class is designed for turners who want to explore the interaction of multiple curves within a single sculptural piece. In addition to reviewing spindle turning techniques, you will learn concepts of multi-axis turning, sharpening methods to obtain a razor sharp tool edge, and how to produce a clean cut with total control. Time will also be spent experimenting with techniques of fin creation, multi-axis eyes, and carving of the mouth to create your very own sculptural fish! In The 2-Day Hands-On class, embellishment techniques such as coloring and texturing will be explored and a small fish family will be created! You will also take home several sample fish bodies created during the class for inspiration or completion in your own shop.

Please bring the following tools: (note- I will bring a selection of tools which you are free to borrow if you do not already own a tool listed below)

- Spindle Roughing Gouge (approx. 3/4")
- Skew (med.-lg.)
- Spindle Gouge (½" dia. Shank)

- Multi-Spur or Safety Drive Center (#2MT, 7/8" Steb-Center or equivalent)
- Adjustable light source- including incandescent/halogen bulb of 75-100W or single diode LED
- Face shield (and any other appropriate safety gear)
- Disposable DUST MASK (one w/ exhalation valve is recommended) or other adequate respiratory protection
- Electronic Variable Speed, full-size lathes are REQUIRED for this hands-on class!**
- Dremel tool (or Micromotor tool) w/ 1/8" – 3/16" dia. spherical burr
- #2MT Drill chuck w/ 5/8" forsnor bit & 5/64" twist bit
- 3" dia. (approx.) power sanding pad mandrel w/ assorted grit sanding disks
- Optional- Woodburner w/ assorted tips

MATERIALS LIST:

- 1) Triple Axis Blanks= approx. 3"square x6" (x8/participant) of clear, straight-grain dry maple, cherry, alder, basswood (or comparable species) spindle blanks