ONE GOOD TURN

Meetings: First Tuesday of the Month 6:30PM Demos: Third Saturday 12:30PM

Great Falls Fire Training Station 1900 9th Street South Great Falls MT

Beads of Courage

Thanks to all who made boxes for the Beads of Courage program. This will be an ongoing program because it is for such an important cause. Members are encouraged to make a box or boxes to donate

Happy Holidays

Cones for Firefighters:

At our Tuesday November 5th Meeting our demo became turning cones for our host Great Falls Fire Department. Apparently firefighters use the cones to stop leaks that might occur in accidents where a radiator or gas tank is pierced. The wooden cones didn't need to be exquisitely finished for this purpose. Therefore, we had our three lathes set up and turned 37 various sized cones for this purpose. This was considered a community service project, and multiple members turned these cones. We even had people who normally don't turn at the meetings help with this project. It seemed like people/members enjoyed the project. Should the GF Fire Department need more, we will do this again for them. Tom Krajacich, Secretary

The Collection of Cones

Working on mini lathe alignment

Tom getting lots of advice

Turning Multiples

Working on Skew Technique

November16 Demo

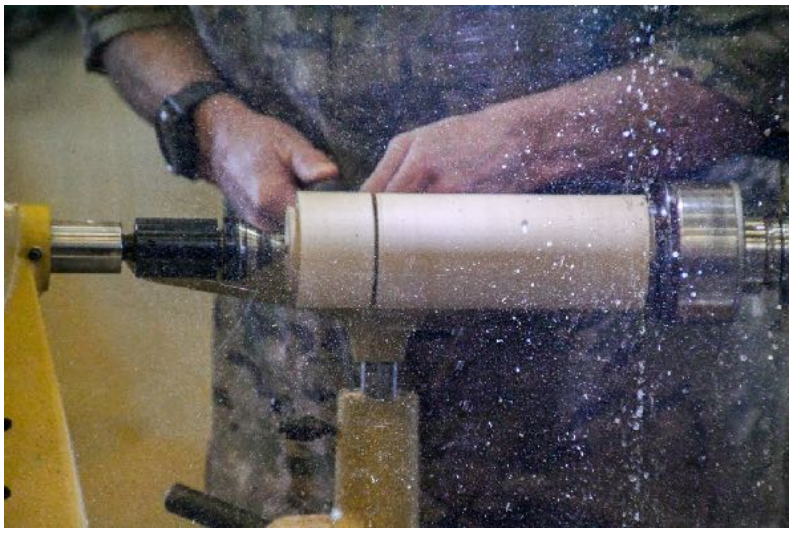
Peppermill with Modification

Jeff Kessler showed the Great Falls Woodturning Club how to turn a peppermill with a Mahoney modification allowing for more pepper corn storage. He started with a 3x3x10” wood blank. He likes to turn with exotic woods, and some of his favorites are pink ivory and African black wood to make the peppermill(PM). He first turns the blank to round, and makes a tenon sized to his chuck on each end. He then divides the rounded blank into a top(about 2” finished size excluding the tenon) and bottom section using a parting tool with the final cut through utilizing a saw. He then turns his attention to the bottom section first. He puts another solid tenon on the piece so that he can work on the bottom first to hollow and drill for the pepper grinding mechanism. In doing so he gets rid of the original tenon he had first created and uses a forstner bit(1-1/16”) to drill into the blank for the type of peppermill mechanism he uses. He drills from one side and then reverses the blank to complete the drilling from the other side while using an extension to hold the forstner bit. Additionally, doing the drilling from each end makes any incongruity in matching up the holes occur inside the peppermill where no one will ever see it. He uses a VicMark chuck with pin jaws(in an expansion mode) to hold the drilled blank for further expansion of the hollowing on the bottom and sizing of the peppermill mechanism insertion. Sizing of the bottom was 1-3/4” forstner bit hole and about 3/8”-1/2” deep so that the peppermill mechanism isn’t sitting/resting directly on the table but up inside when finished. In this created recess he then has to drill in using a 1” forstner bit for the actual peppermill grind mechanism

insertion. He reminds people to leave a thicker rim to the wood at the bottom so you don't split and crack the rim due to the expansion chucking mode. He fits the mechanism to the bottom of the peppermill. If the mechanism is too loose for the fitting, he will wrap the mechanism with electrical tape to secure it more tightly. Different peppermill grinding mechanisms may require different size holes. Once this fitting is done, he removes the mechanism so that he can hollow out the Peppermill body allowing for more storage of pepper corns. Normal hollowing tools are used for this purpose. With the tail stock up he starts to get the general shape of peppermill body. He slightly rounds over the bottom of the PM to make the bottom of the PM to have a more pleasing shape as it sits on the table. He doesn't yet make the PM body the final shape since he will reverse the body to finish the top of the bottom part of the PM. Reversing it might produce some wobble that will need further refinement. Once roughed in this way, Jeff then reverses the blank so that he can work on the top of the bottom part. Part of the top tenon is cleaned up but not removed since it will be part of the finished mill with further shaping. That top part of the bottom piece is left flat for seating the top part of the mill when it is turned. He then turns his attention to the top piece of the PM. In the top part he drills a ¼" hole to accommodate the rod of the PM mechanism. The mechanism also has a top plate that requires a depression for placement purposes. He uses a caliper to measure and mark the spot on the top for this depression or recess. A parting tool is used for this purpose. The metal top plate has two small screws that hold it securely in place. Get that finished. Then the top can be shaped using the small pin jaws to turn the "bottom of the top section" matching it to the shape of the bottom section of the PM. Once you like the way the top section matches the bottom section you do final shaping and sanding and you have essentially finished the PM. The final part is fitting the mechanism by inserting it into the PM body and cutting the PM rod to length remembering to re-peen the rod that holds the actual grinding mechanism. He usually screws the top screw about ½ way onto the threads to make the rod length adjustment marking that with a sharpie pen for correct length adjustment prior to cutting the PM rod. Once this is completed then he does final sanding and finishing of the PM. Jeff did a great job showing us this project and it was clear he has great mastery of this project. He surely made it look very easy. Nice project.(editorial comment: "Not a great project to have to write up the description for—"top of the bottom," etc. Made it clear as mud I think). Hopefully some of the attached pictures clarify the description. Thanks to Jeff for showing us this useful project.

Tom Krajacich, Secretary

Jeff explaining the mechanism for PM

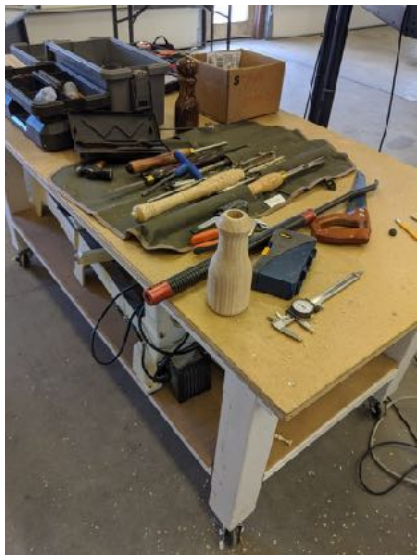


Parting Off the Top of the Mill

Hollowing the Main Body to Increase Capacity

You get to Practice Your Drilling a lot with this project

Shaping the Body



The tenon on the Top to Fit the Main Body

Fitting the Top and Main Body of Mill

Cut the Shaft to Length Sand and Finish

Website of the Month

http://www.haddontools.com

A cheap way to turn logs into lumber using your own chainsaw.

The lumber/maker is a great buy.

Instant Gallery

Larry Harmon

Wayne Petrini

Wayne Petrini

Wayne Petrini

Wayne Petrini

Chuck Kuether

Jeff Kessler

Wayne Petrini

Wayne Petrini

Great Falls Woodturners Club Meeting/Demo Schedule

December 3 Tuesday: Tops and Egg Nog

December 21 Saturday: No Meeting

January 7, 2020 Tuesday: Sam Sampedro

January 18 Saturday: Open

Thanks to Paul Snyder for the pictures and Tom Krajacich for the article write-ups.