



# Great Falls Woodturners Newsletter

[www.gfturners.org](http://www.gfturners.org)

Volume 8, Number 3

December 2016



## Just a Few Words...

## Christmas Ornament Contest

Wow! Our first Christmas Ornament Contest was a great success. Members of the club created and donated 32 great ornaments.

**Sandi Filipowicz**, Executive Director YWCA, was very kind to be the judge of the contest. She reviewed all of the ornaments and chose a winner.

The winner of the 2016 contest was **Jay Eklund**, with a great ornament turned from Blue Mahoe. Congratulations to **Jay**. He was the recipient of a Dale Nish Formed Scraper that was donated by **Chuck Kuether**.

Members donating ornaments are:

Chris Johnson  
Tom Krajacich  
Darrell Young  
Chuck Kuether  
Roger Wayman  
Don Taylor  
Ed Austin  
Jay Edlund  
Sam Sampedro

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# Club Demonstrations

Roger Wayman – Nov 19<sup>th</sup>

## Coring a Bowl with the Oneway Easy Core System

Roger discussed the configuration of the Oneway system to include the base and a choice of four knife sets. The bowl size to be made is the determining factor of the knife used. In addition, there is a sharpening jig available to sharpen the knives. The nice feature of the Oneway system is with each knife and cutter comes a support to minimize vibrations while cutting.

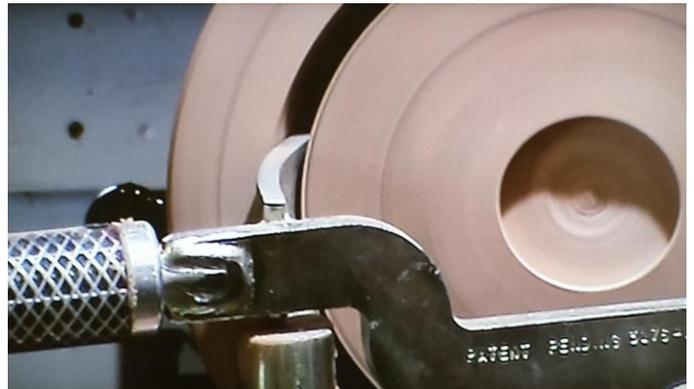


Roger mounted a pre-shaped bowl blank and went through the alignment procedures. He noted that he had made an in tenon on the inside bowl blank to be cored. The mounted bowl blank had the outlines he wanted to core as a guide for the cutter (in this case two

bowls). The shape of the bowl determined the size of the cutter.



Starting at a slower speed, he advanced the cutter slowly and once started he increased the speed. It is necessary to make a cut and then ensure that the shavings are coming out of the cut to eliminate the possibility of a catch.



As the cutter was getting close to completing he let up on the pressure until the cut was complete. He would stop and push on the end of the inner blank and once it was moving enough to break off, he exerted the pressure to finish the cut.



Terry Hill – Nov 19<sup>th</sup>

Coring with the Kelton Standard McNaughton Center Saver System

The outer cored bowl blank is pictured above and is ready to be either turned to completion or sealed and allowed to dry.



Terry started the demo by discussing the various parts of the system. He first discussed the various sizes and shapes of the coring knives to include the straight and various curved knives. The shape of the bowl blank would determine the knife to be used.



It was time to reverse mount the smaller bowl blank and create a tenon to mount and finish the inside of the bowl.

The demo gave us a solid exposure to the Oneway coring system as an option to purchase to use.

Thanks Roger for an Outstanding Demo.



Terry discussed the base system and the importance of putting the knife in the correct slot and maintaining adequate pressure to eliminate chatter.

  
**THANKYOU**

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Always the innovator, Terry showed his 'custom' skew he made from a large file. He uses this skew to create the tenon on the cored bowls.

experience of tenons breaking off the blank made this choice his method.



His preference is to use the straight knife and create each bowl outline making grooves in which to insert the curved knife.



He then discussed using the knife that best fit the form of the bowl blank to be cored.



Once the grooves are set, he then begins to core each bowl starting with the center and working out to the perimeter. When coring a natural edge bowl blank, you can encounter chatter on the tool so firm grip is necessary.



He could have mounted a regular bowl blank on the lathe, but instead mounted a natural edge blank. At this point he talked about how he prefers to mount a bowl blank using a faceplate rather than using a conventional tenon. His past



He invited Chuck Kuether up to share his experience in using the McNaughton

System. Chuck indicated his method of controlling the tool to minimize chatter.



Terry invited the audience to come up and try the system. Above is Tom Krajacich who was the first to try the system.



Then Roger Wayman gave the system a try.



Terry took the center cored blank and mounted it on the lathe and made a tenon.



He then mounted the blank in a chuck and finished the bowl.

Thanks Terry for an excellent demo.

Thank You 😊

Jay Eklund – Dec 6<sup>th</sup>

Making a Fire Piston

By Chuck Kuether



Jay Eklund provided us with not only an interesting turning demonstration but also a wealth of information about

making fire with his **Fire Piston** demo Tuesday evening December 6, 2016. It was a cold enough night to enjoy the thought of a nice warm fire, and Dirk was not there to protect the property, so we might have had a chance to play with the fire truck if things had gotten out of hand. Tom Krajacich volunteered to ring the bell on the truck.

So what is a **Fire Piston**? It is a device that operates on the same principle as a diesel engine, creating a fire/ignition through rapid compression of an available ignition source. It is claimed the **Fire Piston** was first used in 1745. Fire pistons made a wide debut in 1802, and the fire piston was patented simultaneously in England & France in 1807. Fire pistons were widely used in Europe until 1844, when safety matches were invented. In this demonstration the ignition source is Char Cloth. Jay passed out instructions for making Char Cloth. A link is attached here for your convenience:

<http://www.wikihow.com/Make-Char-Cloth>

The char cloth should be stored in some sort of dry container.

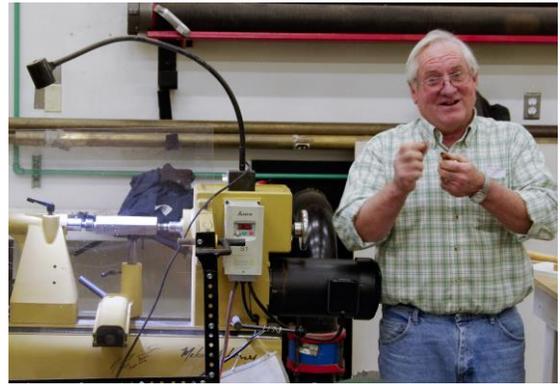
The actual fire piston is assembled from a series of parts, and then turned on centers. The sizes for the parts are listed at the end of this article.

Assemble the 3/8" copper tube and cap by soldering the cap onto the tube. Next, turn your attention to the piston, which can be made of either wood or metal. Jay used aluminum. You need to drill an indentation in end of the piston

(Jay used a 5/16" drill bit) so that you have a place for the char cloth and a small groove just up from that end in order to place the 3/8" O-ring. Jay makes the groove with a file. It was suggested that you start the groove with a tubing cutter to keep the file from 'skating' down the piston.

Now that the prep work is done, cut the wooden blank into 3 pieces. The center piece needs to be the same length as the copper tube, with the cap installed. You need to drill through the center section with a 1/2" drill, then on one end drill in 5/8" with a 5/8" drill bit so that the end cap will fit into the space. If you want a tighter fit, use a 37/64" drill bit, if you happen to own one. Jay uses Super Glue to glue the tube into the piece of wood.

Next drill one piece of wood from the top end of the fire piston with a 3/8" drill to allow you to insert the aluminum piston. You want the piston to be far enough in to be held firmly, BUT IT MUST NOT HIT THE BOTTOM OF THE COPPER TUBE/CAP when fully inserted. In the example I got from Jay this was 3/4". Now the aluminum piston can be glued into place, also using super glue or epoxy. Finally, glue the last piece of wood on the bottom of the body of the piston, being careful to align the wood grain.



Now you need to give the piston a few wraps of masking tape before inserting it into the copper tube without the O-ring installed. The point is to help keep the piston centered while turning the wood exterior. Install the wooden fire piston, as assembled, between centers on the lathe. Turn it round and then shape it as best suits your muse. Once that is done you want to round the ends in order to make it easier on your hands when you actually use the fire piston. Be very sure you know where the copper tube and the aluminum piston are located to avoid them as you round the ends. Install the 3/8" O-ring.

To use the fire piston, put some Vaseline (or Bag Balm) on the O-ring, and put char cloth into the indentation in the end of the piston. Install the piston in the copper tube; then push it down sharply and forcefully. The speed and compression will generate heat and allow you to withdraw the piston and use the now fiery red-hot char cloth to start a fire in a bed of tinder kindling.

Fire pistons have a compression ratio of about 25 to 1, whereas a modern diesel has a ratio of about 20 to 1. To achieve the compression ratio, the final compressed volume of the tinder and air must be small relative to that of the long piston tube. The piston is made deliberately as narrow as possible to reduce the unaided human force necessary. You can use a 1/2" tube, but it is likely you will need to use greater force to create the same results.



Finally, you will NOT be able to fully insert the piston into the copper tube for storage due to the compression from the tight fit caused by the O-ring. To solve this problem Jay advises you should start a small piece of thread in the cylinder and slowly insert the rod into the cylinder. The thread deflects the O-ring just enough to let the air out so the

rod will bottom out and the vacuum will hold the rod in place.

#### Materials List:

-3/8" copper tube, 3" long—Jay says any length up to 6" can be used—he uses 3 to 3 1/2"

-3/8" end cap -aluminum rod, for piston—with a 3" tube you'll want a 3 1/2" rod

-3/8" O-ring-wooden block —1 or 1.5" square x 6" long

-super glue or epoxy for gluing the piston into the copper tube

-wood glue to glue the wooden blank

-whatever finish you prefer

Writer's note: ProBuild does not carry 3/8" copper pipe or 3/8" end caps. I found both at Ace hardware. Ace will cut 1-foot lengths of the copper pipe if you wish.

Thank you Jay for an Outstanding demo.



## Take 'n Turn

**Chris Johnson** took home the piece of Cedar and over the month turned a bowl and cup. He indicated that the piece of cedar was very dry and had a tendency to chip and crack during the turning. However, Chris was able to make great use of the wood in making the bowl and

cup. Chris brought in a piece of green Box Elder for the next Take n Turn winner. With the holidays so close, it was decided that we would put the Take n Turn on hold until the February meeting.



Take 'n Turn Created by Chris Johnson

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# TIPS

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## Tips From The Past

### Shop Tip – Sam Sampedro

As you all know by now, there isn't anything you cannot find on the internet if you use the right search words.

The other day I was just goofing around and went to [WWW.YOUTUBE.COM](http://WWW.YOUTUBE.COM) and typed 'Lyle Jamieson' in the search element on the YouTube site. It took me to the below site that lists all of the

Lyle Jamieson videos available for free viewing.

I know we have a number of new turners and turners that haven't turned for a while. Go to the following site and you can find a Jamieson video that instructs you on almost every facet of turning.

[http://www.youtube.com/results?search\\_query=Lyle+Jamieson&aq=Lyle+Jamieson&gs\\_l=youtube.3..0.6978.11935.0.12708.13.9.0.4.4.0.117.700.8j1.9.0...0.0...1ac.1.11.youtube.bRxDuk\\_zDbI](http://www.youtube.com/results?search_query=Lyle+Jamieson&aq=Lyle+Jamieson&gs_l=youtube.3..0.6978.11935.0.12708.13.9.0.4.4.0.117.700.8j1.9.0...0.0...1ac.1.11.youtube.bRxDuk_zDbI)

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## Shop Tip – Ken Quaschnik

For those of you (which is probably all of us wood turners / wood workers) your saw blades may seem to be dull. Blades that are filled with pitch and sawdust which will give headaches to all of us. A simple way to solve this problem is to place your saw blades in a container and cover the blades with oven cleaner which will remove the foreign matter. After soaking your blades, rinse and dry your blades to prevent corrosion.

**Note:** Be sure that you use protective gloves and eye protection in using this solution. Be sure to follow the manufacturer's safety directions on the oven cleaner container to preclude injury.

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# Club's Appreciation

**Editor's Comment:** My thanks to the following individuals who helped with the content of this newsletter:

**Chuck Kuether  
Paul Snyder  
Ken Quaschnik**

Thanks very much to Tom Krajacich for his videoing the demonstrations so we can all see on the TV.



## Club Officers

**President:** Sam Sampedro  
761-4145

**Vice President:** Roger Wayman  
460-0507

**Treasurer:** Chuck Kuether  
727-2442

**Secretary:** Dirk Johnson  
899-0726

## Directors:

Tom Krajacich  
727-3464

Wayne Petrini  
868-8420

Paul Snyder  
750-1999

## Meeting Location:

Great Falls Fire Training Station  
1900 9<sup>th</sup> Ave South  
Great Falls, MT 59405

## Meeting Day

First Tuesday of the Month and  
Third Saturday of the Month  
(Unless otherwise noted in  
The club schedule)

## Meeting Time

**Tuesdays:** 6:30 PM  
**Saturdays:** 12:30 PM

**THE GOOD WOOD GUYS**

The Good Wood Guys  
816 20<sup>th</sup> Street North  
Great Falls, MT 59401  
406-231-WOOD (9663)

**Please support The Good Wood Guys. They have been very generous and provide great support to our club!**



# Instant Gallery

## Instant Gallery Photos

(Great Photos by Paul Snyder and Sam Sampedro)



Chris Johnson



Gary Campbell



Lary Harmon



Gary Campbell



Roger Wayman's Cored Bowl



Larry Harmon



Paul Snyder



Paul Snyder



Chris Johnson



Roger Wayman



Terry Hill



Terry Hill



Terry Hill



Terry Hill



Terry Hill



Terry Hill



Terry Hill



Terry Hill



Terry Hill (That's resin filling a knot hole)



Terry Hill



Terry Hill



Terry Hill



Terry Hill



Terry Hill



Terry Hill's Cored Demo Bowls



Chris Johnson



Ed Austin



Chris Johnson

# Donated Christmas Ornaments



Chris Johnson



Chuck Kuether



Chuck Kuether



Chuck Kuether



Chuck Kuether



Darrell Young



Ed Austin



Don Taylor



Jay Eklund



Paul Carlson



Paul Carlson



Paul Carlson



Roger Wayman



Sam Sampedro



Sam Sampedro



Sam Sampedro



Sam Sampedro



Tom Krajacich



Tom Krajacich



Tom Krajacich



Tom Krajacich

# Great Falls Woodturners Meetings/Demonstrations Schedule

December 17 <sup>th</sup>	Turn a Top Fun Time
January 3 <sup>rd</sup>	Create a Wedgie Sled – <u>This is a No Charge Event</u>
January 21 <sup>st</sup>	Creating Rings for a Segmented Bowl – <u>This is a No Charge Event</u>
February 7 <sup>th</sup>	Meeting and Demo
February 18 <sup>th</sup>	Sharpening Demo – Sam Sampedro & Chuck Kuether
March 7 <sup>th</sup>	Meeting and Demo
March 18 <sup>th</sup>	Tool Making Workshop – Make a Round Cutter EWT
April 4 <sup>th</sup>	Meeting and Demo – The Team of Chuck Kuether and David Stratton
April 15 <sup>th</sup>	Demo – Chris Johnson
May 2 <sup>nd</sup>	Meeting and Demo
May 20 <sup>th</sup>	Demo
June 6 <sup>th</sup>	Meeting and Demo
June 17 <sup>th</sup>	Demo
July 5 <sup>th</sup>	Meeting and Demo ( <u>This is a Wednesday since July 4<sup>th</sup> is on the first Tuesday</u> )
July 15 <sup>th</sup>	Demo
August 1 <sup>st</sup>	Meeting ( <u>Club Elections</u> ) and Demo
August 19 <sup>th</sup>	Demo

**Please Note: Tuesday Meetings start at 6:30 PM, Saturday Meetings start at 12:30 PM**

# Director's Meeting Schedule

**December 21<sup>st</sup> 6:30 PM Sam's House (If needed)**

**January 18<sup>th</sup> 6:30 PM Sam's House**

**February 15<sup>th</sup> 6:30 PM Sam's House**

**March 19<sup>th</sup> 6:30 PM Sam's House**

**April 19<sup>th</sup> 6:30 PM Sam's House**

**May 17<sup>th</sup> 6:30 PM Sam's House**

**June 21<sup>st</sup> 6:30 PM Sam's House**

**July 19<sup>th</sup> 6:30 PM Sam's House**

## Support for Turning Bottom of Bowls

An alternative to the "wooden running pads" described in another tip: Take one of the plastic nuts that are used in some plumbing connections, such as the flexible connector that attaches to water using appliances, and place it over the end of the conical live center. The point of the live center does not protrude past the open end of the plastic nut and thus provides a small circular support surface at the wood project.

Warnie Lore, West Virginia

