



Between Turns

Michigan Association of Woodturners

A chapter of the American Association of Woodturners

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March 2015

Tom demonstrated two ways to thread on a box for the March demonstration.

Pete will be demonstrating turning ornaments at the April meeting

The Ohio Valley Woodturning Guild Turning 2015 Symposium will be held October 9-11, 2015 at the Higher Ground Conference Center in Harrison, IN.

Registration is open for AAW 2015 Symposium in Pittsburg PA. The 2015 symposium is being held on June 25-28.

The MAW will be hosting Michael Hosaluk for a 2 day demo

April 25-26. Followed by a 2 day hands on demo April 27-28. The cost for the Demo is 100.00 for both days. The cost for the workshop is 250.00 for both days.



www.michaelhosaluk.com

The people that helped prepare the wood for the Florida wood

trade will be entered in a drawing for a piece of wood from Florida.

If you placed a Craft Supplies Club Order then your order is in. You may pick up your items at the April meeting or you can make arrangements with Bill to pick them up.

2015 Demonstrations: Natural Edge Bowl, Bowl, Ornaments, Offset Turning.

Welcome Howard Pierce, Tom Anderson, and Mike Christopher to their first MAW meeting.



Tom's Threaded Box

Upcoming Dates

2015 Meetings :

April 12, May 3, June 7, July 12, August 2 Picnic,
September 6, October 4, November 1, December 6 Holiday Party

2015 Mentor Workshops :

April 18, May 16, June 20, July 18, August 15,
September 19, October 17, November 14, December 19

-Meetings are held monthly on the first Sunday of each month from 1:00 pm - 3:00 pm at Paul Beemann's 2075 East Rattalee Lake Rd Holly MI 48442.

-Michael Hosaluk Demo April 25-26 100.00 for both days.

-Michael Hosaluk Workshop April 27-28 250.00 for both days.

- Figured Birch Bowl*
- Rectangular Banana Bowl*
- Heart Box*
- Small Walnut Platter*
- Figured Maple Bowl*
- Rings*
- Pepper Grinder*
- 14" Walnut Platter*
- 8" Black Cherry Bowl*
- Locust Platter*
- Ash Box with Walnut Inlay*

- Dave Myre*
- Dennis Stange*
- Dennis Stange*
- Bob Makowski*
- Bob Makowski*
- Bob Makowski*
- Rod Kannisto*
- Carl Hansen*
- Carl Hansen*
- Chuck Ruby*
- Peter Stewart*

Instant Gallery



Please sign in your items so credit can be given.

- Figured Birch Bowl*
- Rectangular Banana Bowl*
- Heart Box*
- Small Walnut Platter*
- Figured Maple Bowl*
- Rings*
- Pepper Grinder*
- 14" Walnut Platter*
- 8" Black Cherry Bowl*
- Locust Platter*
- Ash Box with Walnut Inlay*

- Dave Myre*
- Dennis Stange*
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- Bob Makowski*
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- Rod Kannisto*
- Carl Hansen*
- Carl Hansen*
- Chuck Ruby*
- Peter Stewart*

Instant Gallery



Tenons on the bottom of your piece can either be turned away or turned into a foot.

Tom Mogford - Threaded Box

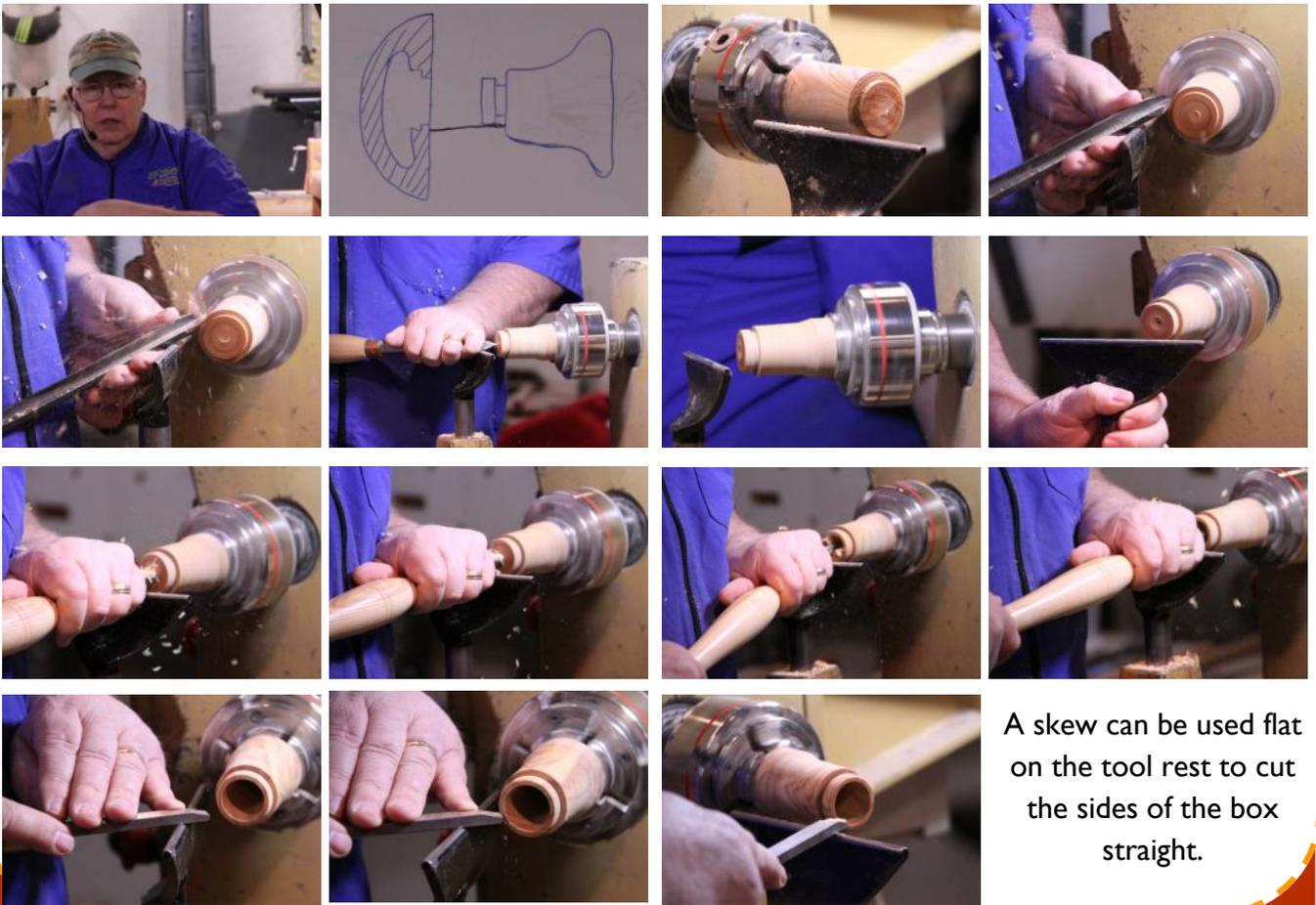
Tom demonstrated two ways thread a box. First Tom demonstrated thread chasing and then he showed us how to use a threading jig with a router.

Tools used:

Robert Sorby Complete Thread Cutting Set 20 TPI	Part# 961-0103
Mayes & Warwick Premium Thread Chaser Set 20 TPI	Part# 1049810002
Robert Sorby Relief Cutting Tool	Part# 161-0104
ENCO cutter 367-7100 CMT 853.001.11 Flush and V Groove 60 degree end mill 3/8" #822350	
Best Wood Tool Baxter's Thread Master	
1/2" Bowl Gouge with Ellsworth grind	3/8" Spindle Gouge with Finger nail profile
Skew Chisel	Round nose Scrapper
Router	

Tom discussed the required shape of the section to be threaded. A relief cut needs to be cut. This section behind the threads leaves room for the chasing threads or cutter tool to cleanly cut the last thread.

Mount the bottom blank between centers. Rough turn the outside of the box. Turn a tenon on the bottom of the box. Mount the bottom of the box in the chuck. Start by rough turning the base of the box. Turn the section to be threaded. Cut a relief below the section to be threaded to leave room for the thread chasing tools. Hollow the inside of the box.



A skew can be used flat on the tool rest to cut the sides of the box straight.

Tom Mogford - Threaded Box

To chase the male threads pace the thread chasing tool flat on the tool rest. The side with the relief ground away goes on the top. Turn the lathe speed down to the slowest speed. Start with the tool at an angled away from the side of the box bottom. Set tool rest to 45% to ways. Using light cuts pass the thread chasing tool into the wood to start cutting threads. Repeat this process until a thread starts to form. Tom uses a 20 TPI chasing set. The more threads the slower the tool move along the surface of the wood. As the threads form the tool will follow the threads. Straighten the tool out to move parallel to the ways. The purpose of the recess becomes visible as you reach the end of the thread. If you did not have the recess the tool would either catch or stop moving when you hit the end of the threaded section and tear out the threads.

Rough turn and mount the top of the box in the chuck. True up to bottom face of the top. Use a caliper to check the size of the inside threads on the bottom. Calipers are used to transfer the dimensions. We are not using them to read actual measurements. A dimple is started in the center of the top with a parting tool. A spindle gouge or drill bit can be used to cut a hole to the desired depth in the center. A spindle gouge can be used to hollow the top. Starting from the center and pulling to tool to the side. A skew can be place on its side and used to make the final cut into the end grain to make the inside of the box parallel to the way. The relief tool is then used to turn a recess. You can buy the relief tool or you can grind an unused scrapper to the needed shape.



An unused scrapper can be ground to cut a relief.

Tom Mogford - Threaded Box

A Thread Chasing Armrest is used in combination with the female chasing tool. This helps you support the threading tool extended off of the tool rest into the box lid. The Thread Chasing Armrest Tool Rest and also allows you to use two hands to control the threading tool and pull it into the lid when chasing the female threads.

The threads are again chased at the slowest speed that the lathe can be set to. Slowly run the threading tool into the box. Pull the tool away from the threads when it hits the end. Repeat this process until you shape the threads. Attempt to turn the lid into the bottom. If the threads are to tight make a few more passes chasing the female threads.

If you need to match up the wood grain you can make a flush cut on the top of the bottom to allow the top to tighten a little more.

Once you can make a good fit, screw the bottom into the top. Reverse the box. Turn the side of the top. Turn away the tenon on the top. Finish turn the to top of the box. Remove the top. Shape the sides of the bottom of the box to the desired shape. Make sure that you do not turn through the bottom of the box after all the work you put in to threading the box.

Reverse the bottom of the box using a scroll chuck or jam chuck. Turn the bottom of the box.



Turn the speed as slow as possible when chasing threads.

Tom Mogford - Threaded Box

Another way to put threads into you box is you use a router. This will require a router, a 60 degree mill, a jig, and the threaded mount for your chuck. Mount a Jam Chuck mounted in the chuck. Tom likes the Baxter Thread Master, this uses hardened thread rod and is more accurate than cold roll threaded rod. The benefit of using a router is that you can thread a more figured wood. Chasing threads typically requires a clean straight grain wood. The jig pictured below holds the router horizontal and slides across the jig. The router holds a 3/8" 60" mill. The speed of the router turning the tool is what allows the threads to be cut cleanly. A two way slide it either purchased or made to hold the Baxter Thread Master. The Thread Master allows you to place your chuck on the jig. As you turn the knob you slowly advance the box against the router bit. You can purchase different TPI Thread masters for the desired pitch.

Mount the bottom in the chuck. With the router off and the Baxter Thread Master retracted, adjust your box so that the router bit is almost touching the surface from the top side of the box and will barely cut the thread. Lock all of the moveable parts of the jig so the turning and router will not move. Only the Thread Master will move the box. Turn the router on and Advance the Thread Master. Cut the first thread from the top of the bottom to the relief. Retract the box using the Thread Master. Slightly adjust the jig to move the box slightly. Advance the Baxter Thread Master to cut the thread deeper.



Turn the speed as slow as possible when chasing threads.

Tom Mogford - Threaded Box

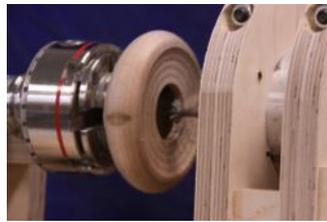
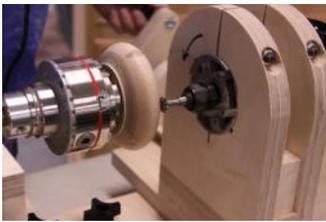
Continue until you have cut the desired threads. With the router off, mount the top in the chuck. Adjust the jig so the top will be cut on the inside. Repeat the threading process but cut on the inside of the box. Continue cutting the thread into to top until the bottom will screw in.

Mount the chuck back on the lathe. Mount the bottom of the box in the chuck. Making light cuts and remove the tenon from the top of the box using light cuts. Finish turn the top again with light cuts. Remove the top from the box. Finish turn the sides of the bottom. Reverse chuck the bottom of the box. Turn of the tenon and shape the base of the box.

With the secured top and bottom you have more options when turning a box. You can turn mushrooms, acorns, fruit and other shapes of boxes that can stay securely closed but can still open easily.

Keep in mind when making a box men typically like a snug fitting box while ladies typically like a box the closes but is easy to open and close.

The Baxter Thread Master can be purchased to mount to a jig you create or you can buy a system to turn the mill in your headstock with a collet chuck. If you are going to mount the mill in your head stock make sure you have a lathe that turns fast enough. Speed is the benefit provided by a router. This allows you to use wood that is not as straight grained.



Turn the speed as slow as possible when chasing threads.

Demonstrators Wanted



Anyone willing to demonstrate at the monthly meeting can contact Tom or Pete to schedule.

We have a number of talented members, so please feel free to share your talents with the club. There are some really interesting projects that members bring in each month for the show and tell table. Many of the club members would be interested in seeing how these projects are created.



Tom uses a jig to mount his router, 60 degree cutter, and a Baxter Threading Master.

Router Hollowing Jig

www.bestwoodtools.com

www.enco.com



Coring System

Come to a mentor workshop and take advantage of the clubs Coring System. Coring a bowl allows you to turn several bowls out of a single piece of wood.

You can see Dave made 4 bowls and another small inner blank from his piece of wood. Turning a bowl the standard way would have resulted in one bowl.

This is useful when turning figured or expensive wood as you can turn multiple bowls for the cost of one bowl blank.

The Coring system is for the Powermatic lathe. Sign up with Dave Worden if you want to use the Coring System

Dave Worden
248-917-2822.



Are you thinking of trying to turn something new you saw at a demo, bring your project to the Mentor Workshop.

MAW Mentor Workshop

The Michigan Association of Woodturners sponsors a Mentor Workshop for members. The workshop is typically held the second Saturday following the meeting. Check the Club Calendar for specific dates. This is a time for you to come to the club bring a piece of wood and turn something. People are there to

answer questions and provide guidance. Feel free to try something new or bring in a piece you are having issues with. Cost is \$10.00 and a lunch will be provided.

- Tom Mogford 810-629-6176
- Pete Buccellato 248-634-7622
- Bill Magee 734-981-6117

Photo's

If you have digital photo's that you would like to have considered for use in the newsletter, please send them to the editor at:

Jeffatwayne@yahoo.com

