



Pikes Peak Woodturners

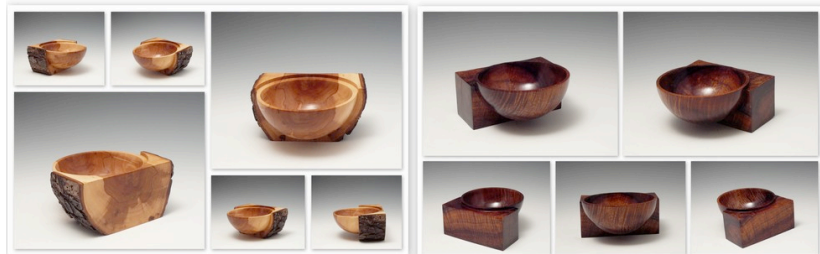
A Chapter of the American Association of Woodturners

TURNING THE EMERGING BOWL

with Juergen Schleicher

Wednesday, April 1st, 2015

6:30 p.m., Manitou Arts Center





Pikes Peak Woodturners

A Chapter of the American Association of Woodturners

CLUB OFFICERS

SCOTT LONGBERRY
PRESIDENT
719-494-1265
scott.longberry@gmail.com

VIC VICKERS
TREASURER
719-683-3350
vicvickers@elpasotel.net

TIM CARLSON
SECRETARY
720-339-3079
butchnlis@msn.com

BILL LAVOIE
LIBRARIAN
719-440-5084
blavoie777@hotmail.com

MILO SCOTT
PROGRAM MANAGER
719-481-9821
mccscott1720@aol.com

KAY LIGGETT
NEWSLETTER EDITOR
719-481-8754
KKLiggett@gmail.com

SCOTT LONGBERRY
WEBMASTER
719-494-1265
scott.longberry@gmail.com

APRIL DEMONSTRATION

April 2nd, Juergen will show us how to turn the Emerging Bowl. He has sent over a collage of forms and the instructions written by Irwin Seldman in May 2006. (above and page 5)

I missed the March meeting with the Peppermill demonstration that Milo did. He was kind enough to send me both of the handouts from that demonstration. (pages 6-9)

All of these hand-outs are in pdf format. You should be able to print them out if you choose. Both of these projects have many steps that must be done in the correct order, so a printed copy is a good idea.

WOOD FOR BEGINNERS

In addition to the wood available in the raffle every month, the Club has several bushels of great 2x2" pine sticks for warming up at the lathe with a 'practice stick.' Thanks to Dr. Bob and Juergen Schleicher for rounding up this wood for mentoring sessions.

DOIN' the DUES

Pikes Peak Woodturners are a chapter club of the American Association of Woodturners. Think of us as a division of the larger organized community of woodturners in North America.

Our \$25 dues are payable to PPW. Vic Vickers will be happy to collect these dues at any meeting. We like to have dues in hand in January and February so that we can plan our club's expenses for the year ahead.

The AAW dues are payable online at woodturner.org. They are \$55/year, which earns access to AAW resources online, as well as a subscription to *American Woodturner*, the only magazine about woodturning currently published in the United States.

As an AAW member, you are eligible to apply for grants. Several of our members have received grants over the years, and the Club also received one to upgrade our cameras several years ago.

ppwoodturners.org

Who Ya Gonna Call?

Club mentors can give basic help with tool control; some can visit your shop to see how you work.

You may have to pay for help with specific projects.

Dr. Bob Gibbs--coring, turning, wood for sale, too!
488-9487

Dennis Korth--teacher-coach
634-1260

Tony Bevis--a professional turner 660-8305

Juergen Schleicher a professional turner 540-991

Dennis Liggett-- a twistwork specialist, teacher; 481-8754

Dick Breckon--our club's founder; 597-9718

Vic Vickers --pen specialist, 683-3350

Scott Longberry --494-1265

Robert Brewer --640-5235

Take the initiative, and call these folks when you need help!

THREADED INSERTS

--use for any vessel or box that needs a secure lid-- mount the ring insert in the vessel; mount the disk insert in the lid --

Hard maple holds threads; 10 tpi

Outside x Opening/Price
3 5/8" x 3" / \$16.98
3" x 2 3/8" / \$14.98
2 1/4" x 1 5/8" / \$12.98
1 3/4" x 1 1/4" / \$10.98

MILO SCOTT
719-360-9821

SWAP MEET EVERY MONTH!

We have a table at the monthly meeting for folks with stuff to sell to other woodturners-- wood, tools, and smaller equipment. Please don't bring your old lathe!

Tony has greenwood sealer available to club members, and Dennis sells CA glue products at a reduced price.

Milo brings the threaded inserts, and Dr. Bob frequently has bowl blanks for sale.

This is a good chance to cash out stuff you don't use, and find a new treasure for your shop.

end of March 2015

About the Maker Space:

Curious about using a 3D Printer? Check the [Pikes Peak Maker Space](#) for a schedule of events.

Scott Longberry has met with them, and we are welcome in our regular meeting space through 2015.

Forgot your cash for the raffle?
No cash for dues?

No Problem. Vic has a credit card reader for the club, so

WHAT'S IN YOUR WALLET?

PRICELESS TIP from Milo's demonstration in March

Judge the depth of your drill by counting revolutions of the tailstock crank. Here's how:

Choose a start position on the handwheel. Measure how far the tailstock's barrel extends from the tube, using a caliper. Write it down.

Now crank the tailstock one full turn, back to the start position. Measure how far the tailstock's barrel extends from the tube. Subtract the starting measurement. This will be the travel for one full rotation.

You can easily calculate the travel for half a turn or for a quarter turn.

ppwoodturners.org

Spreading the woodchips --Club Outreach efforts

Several PPW members spent Saturday, March 14th at the Homestead Fair sponsored by Good Earth Gardens. Robert Brewer, Steve Maikell, Scott Longberry, Milo Scott, and the Liggetts turned small items during the day. These were given to Good Earth for a drawing.

We found several wanna-be woodturners among the visitors to the Fair. It was a good way to introduce folks to the variety of things that come from a wood lathe.

UP-COMING LIBRARY Demonstrations

Robert Brewer will be at the Cheyenne Mtn Branch Library on May 9th for about two hours (10-Noon). If you want to help, give him a call: 640-5235

Robert will be at the Fountain Branch on June 6th, 10-Noon. He could also use at least one helper for this demonstration.

SISTER CLUBS?

Robert Brewer is also researching the benefits of finding sister clubs in other countries. Let him know if you are interested in this project.

end of March 2015

Steve Maikell was researching Spalting Recipes, and he found this information:

"The Intricacies Of Spalting: A Master Overview By Spalt Expert Sara Robinson Ph.D." Might get some turners interested in getting a batch of the fungi to make some spalting wood.

<https://youtu.be/fWedsgkoxYY>

Dr. Robinson's blog

<http://www.finewoodworking.com/blog/woodworking-life/tag/spalting>

Let Steve know if you want to experiment with spalting wood.

ARMCHAIR TURNING

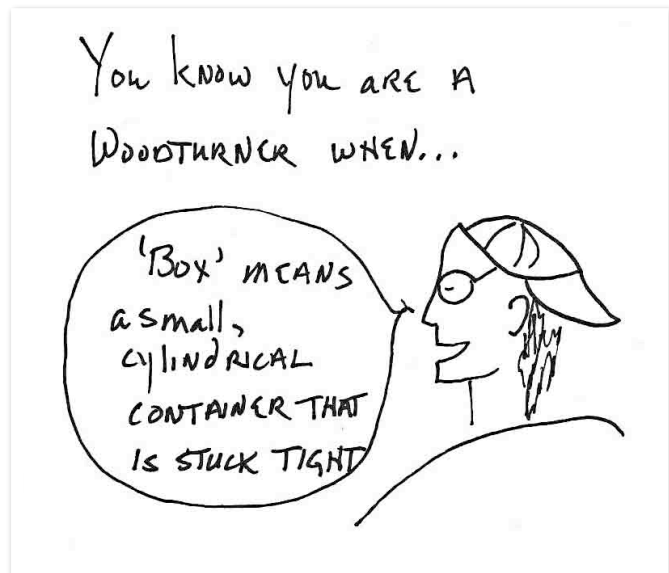
--News from the internet --

- Bill Ooms, Art in Software (free)

<http://software.billooms.com/>

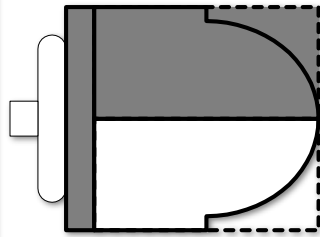
This *software* is available to wood-turners free of charge! The purpose is to help visualize a *bowl* or hollow form in 3D prior to turning.

--submitted by Steve Maikell

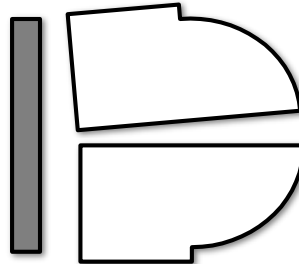


Rough Notes On Turning An "Emerging Bowl"

(Irwin Seidman May 2006)



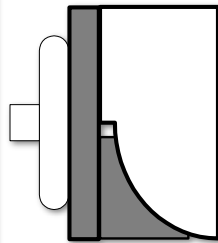
1. Glue up with 2 waste blocks. Turn outside of bowl first.



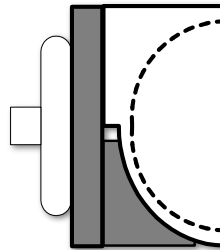
2. Split apart. (I use a paper glue joint to make splitting easier)



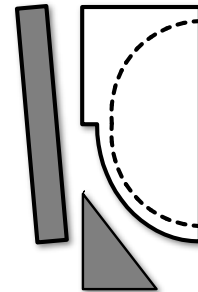
3. Basic shape is now done



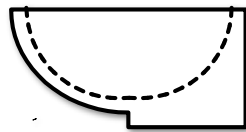
4. Flip the blank and remount it again using a waste block. I also inserted a wedge (using double sided tape) to help balance (weight) and stabilize this now very off balance piece.



5. Hollow out the inner bowl



6. Split apart pieces and hand (or power) sand bottom and side where glue joints existed.



7. Voila ... Done



© 2006 - Irwin Seidman

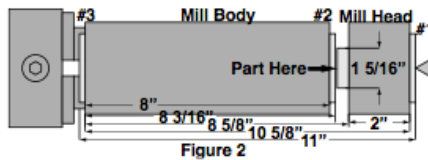
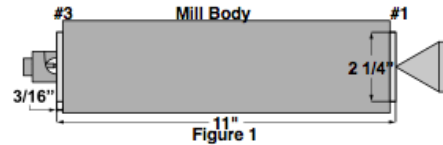


10" PRO-GRIND MILL

Supplies/Tools needed:

- Blank – 3" x 11"
- Waste Block 2-1/4" x 2"
- Drive Center
- Cone Live Center
- Roughing Gouge
- Spindle Gouge
- Skew
- Thin Parting Tool – 1/16"
- Pepper Mill/- 3/16" Relief Cutting Tool
- Thread Tool Support
- Digital or Dial Caliper and Ruler
- Lathe Drill Chuck
- 4" Forstner Drill Bit Extension
- 5/8" Forstner Drill Bit
- 7/8" Forstner Drill Bit
- 1" Forstner Drill Bit
- 1-1/4" Forstner Drill Bit
- 1-1/2" Forstner Drill Bit
- 1-3/4" Forstner Drill Bit
- 4 Jaw Chuck – 2-1/4" Jaws – 50mm
- Recommend: "Stead Rest"

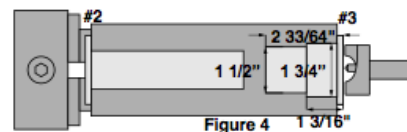
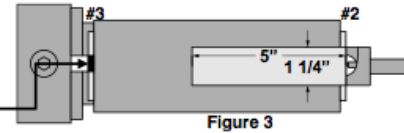
1. See Figure 1. Mount the blank between centers, rough turn the blank round.
2. Cut 2 tenons, 3/16" deep by 2-1/4" wide at each end.
3. Write tenon numbers on blank.



4. See Figure 2. Mount blank in 4 jaw chuck using tenon #3. Use live center to align Mill blank.
5. Using dimensions in Figure 2, cut tenon #2, 3/16 deep by 2-1/4 wide.
6. Cut a 1-5/16 wide tenon at the base of the Mill Head.

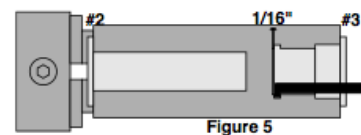
7. Part off Mill Head from Mill Body at location noted in Figure 2 using 1/16" parting tool.

8. See Figure 3. Recommend using "Steady Rest" to stabilize mill body during drilling operations.
9. Drill 1-1/4" diameter hole, 5" deep in Mill Body.
10. Make reference mark between chuck jaws 1 & 4 on Mill Body for later remount.



11. See Figure 4. Reverse mount Mill Body using tenon #2, use live center to align Mill Body.
12. Drill 1-3/4" diameter hole, 1-3/16" deep, measured from face of tenon #3.
13. Drill 1-1/2" diameter hole, 2-33/64" deep from face of tenon #3.

14. See Figure 5. Using recess cutter, cut recess rubbing cutter at depth of 1-1/2" hole.
15. Drill 1-1/2" hole 1/16" deeper.
16. Finish drilling 1-1/4" hole through mill



10" PRO-GRIND MILL

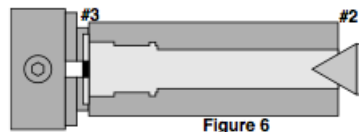


Figure 6

17. See Figure 6. Reverse mount Mill Body using tenon #3, using reference mark from step 10 above, mount between jaws 1 & 4 using live center to align blank.

18. Turn away tenon #2, square and finish sand Mill Body end.

19. Remove Mill Body from 4 jaw chuck.

20. See Figure 7. Mount Mill Head using tenon #1.

21. Drill 1" diameter hole, 5/32" deep in tenon at base of Mill Head for Mill Drive (See Figure 11 for Drive).

22. Using point of skew, fit hole to receive Mill Drive, see Fig 11.

23. Drill 7/8" diameter hole, 29/32" deep from face of tenon.

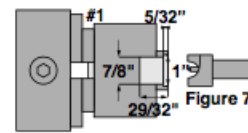


Figure 7

24. See Fig 8. Using recess cutter, cut recess rubbing cutter at depth of 7/8" hole.

25. Drill 7/8" hole 1/16" deeper.

26. Drill 5/8" diameter hole, 1-11/16" deep from face of tenon.

27. Cut a "slip fit" on Mill Head "base tenon" into Mill Body, 1-1/4" hole, where tenon #2 was located.

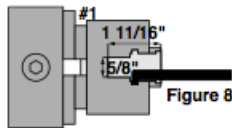


Figure 8

28. Square Mill Head Base.

29. Mill Head should rotate freely, but, not excess "side to side" movement.

30. Remove Mill Head from 4 jaw chuck.

31. See Figure 9. Mount a 2-1/4" diameter by 2" thick waste block in 4 jaw chuck.

32. Cut a 1-3/4" tenon to create a jam fit for the main hole in the base of the Mill Body. Drill 1-1/4" hole 5/8" deep in base of block to be used to mount mill hardware.

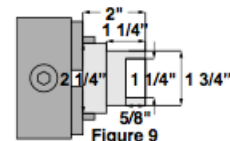


Figure 9

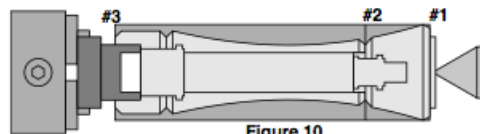


Figure 10

33. See Figure 10. Push Mill Body "tenon #3" on jam block.

34. Push Mill Head into Mill Body.

35. Bring up live center into Mill Head.

36. Cut away tenon #3. Cut deep

enough to remove only tenon #3 on Mill Body. Avoid cutting into the jam block.

37. Turn Mill to shape and finish sand.

38. Apply desired finish. Apply wood wax to mating surface of Mill Head tenon and Mill Body.

39. See Figure 11. Assemble Mill hardware as shown. Advise gluing mechanisms in place, ONLY around edge of each mechanism. Avoid excess glue to prevent gluing mechanism to itself.

40. Trim Grinder Shaft to end up just short of the end of the hole drilled in the Mill Head.

41. Do not push on adjustment knob at base of mechanism as damage could occur.

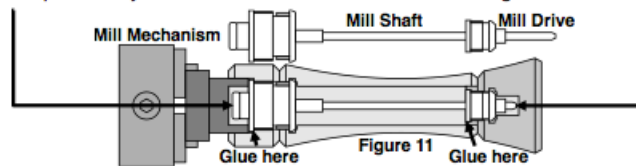



Figure 11

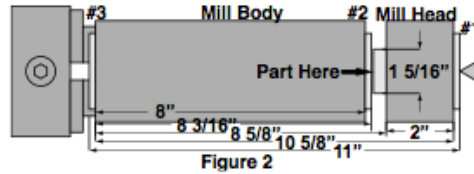
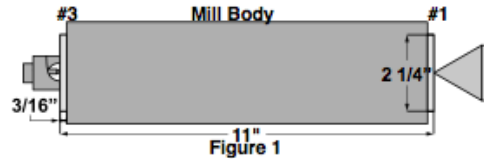
 Milo Scott Studio

10" CRUSHGRIND Mill

Supplies/Tools needed:

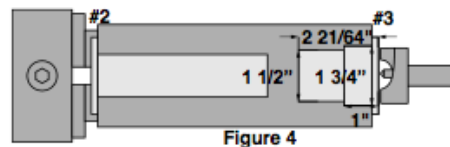
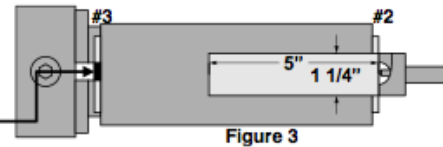
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- Skew
- Thin Parting Tool – 1/16"
- Pepper Mill/-3/16" Relief Cutting Tool
- Thread Tool Support
- Digital or Dial Caliper and Ruler
- Lathe Drill Chuck
- 4" Forstner Drill Bit Extension
- 5/8" Forstner Drill Bit
- 7/8" Forstner Drill Bit
- 1" Forstner Drill Bit
- 1-1/4" Forstner Drill Bit
- 1-1/2" Forstner Drill Bit
- 1-3/4" Forstner Drill Bit
- 4 Jaw Chuck – 2-1/4" Jaws – 50mm
- Recommend: "Steady Rest"

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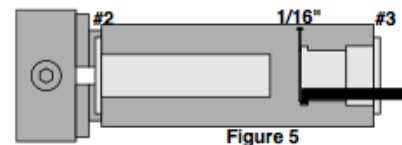
4. See Figure 2. Mount blank in 4 jaw chuck using tenon #3. Use live center to align Mill blank.
5. Using dimensions in Figure 2, cut tenon #2, 3/16 deep by 2-1/4" wide.
6. Cut a 1-5/16" wide tenon at the base of the Mill Head.
7. Part off Mill Head from Mill Body at location noted in Figure 2 using 1/16" parting tool.

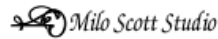
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9. Drill 1-1/4" diameter hole, 5" deep in Mill Body.
10. Make reference mark between chuck jaws 1 & 4 on Mill Body for later remount.



11. See Figure 4. Reverse mount Mill Body using tenon #2, use live center to align Mill Body.
12. Drill 1-3/4" diameter hole, 1" deep, measured from face of tenon #3.
13. Drill 1-1/2" diameter hole, 2-21/64" deep from face of tenon #3.

14. See Figure 5. Using recess cutter, cut recess rubbing cutter at depth of 1-1/2" hole.
15. Drill 1-1/2" hole 1/16" deeper.
16. Finish drilling 1-1/4" hole through mill





10" CRUSHGRIND Mill

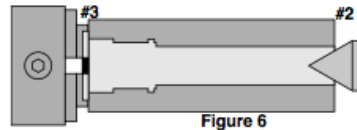


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21. Drill 1" diameter hole, 5/32" deep in tenon at base of Mill Head for Mill Drive (See Figure 11 for Drive).

22. Using point of skew, fit hole to receive Mill Drive, see Fig 11.

23. Drill 7/8" diameter hole, 59/64" deep from face of tenon.

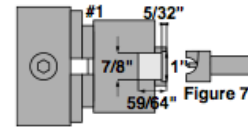


Figure 7

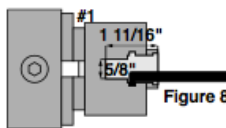


Figure 8

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25. Drill 7/8" hole 1/16" deeper.

26. Drill 5/8" diameter hole, 1-11/16" deep from face of tenon.

27. Cut a "slip fit" on Mill Head "base tenon" into Mill Body, 1-1/4" hole, where tenon #2 was located.

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31. See Figure 9. Mount a 2-1/4" diameter by 2" thick waste block in 4 jaw chuck.

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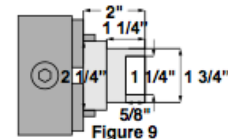


Figure 9

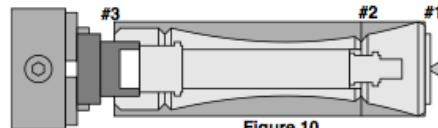


Figure 10

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35. Bring up live center into Mill Head.

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37. Turn Mill to shape and finish sand.

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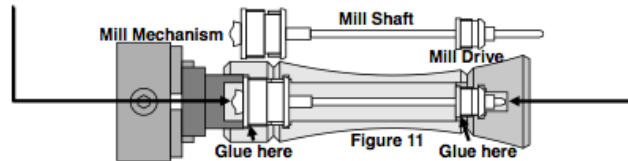


Figure 11