

SOUTHWEST WASHINGTON WOODTURNERS

NEWSLETTER – *September 2018*

Visit our website at <http://www.southwestwashingtonwoodturners.com/>

Regular meetings are held on the fourth Wednesday of the month.

SEPTEMBER MEETING – 7:00 p.m. Wednesday, September 26, 2018 at Friends of the Carpenter, 1600 W. 20th St, Vancouver, WA.

Presenter: Tom Smith - Stabilization presentation with Cactus Juice brand

September 2018 President's Message

Fall has finally arrived, and another monthly meeting is coming on **Wed September 26th**.

This month we will host one of our own members, **Tom Smith**, who will do a presentation on stabilizing wood. I will have a bit of the stabilizing material for sale along with a few roughed-out bowl blanks and, in our raffle this month, some fresh cut Maple. You are encouraged to bring a donation or two for the **Friends of the Carpenter**, whose **auction** will be next month.

We are doing a few small items for them and if you are one of the **members who took a kit** or two, please plan to have the finished product with you Wednesday, as we will be turning in the kits then. I wish to thank everyone who participated in this endeavor and hope that you may have a woodturned item or two to donate also.

In the near future, we will be working out some details to be able to use the former **Share space** at the Friends of the Carpenter shop and have also started planning for the new year, as **Rick Rich** has volunteered to schedule demonstrators for 2019 and has also been in on the planning for a bowl turning class, which, if we do move our turning classes into the former Share space, will be held there.

And on that note, I talked with Rick and he has sold us **four lathes** to go with the four we bought earlier this year, and I am looking forward to new and better programs for our membership,

including demonstrations and workshops which we can also coordinate with the Friends of the Carpenter, i.e. the Beads of Courage program.

And on a sad note, we have lost another member, **Norm Frehouf**, who passed away recently and will be sorely missed. He was a participating member in many Volunteer Projects and donated several times to the Friends of the Carpenter, as well as to our club's membership.

Unfortunately, another death, closer to home, happened last week while I was cutting some maple for our raffles and programs. My half-brother **Donald Owen**, who was helping Brian Harte and I, collapsed and died on the spot. Brian performed CPR on him immediately, but to no avail.

This incident made me question our own members ability to act on such an emergency and I will be looking into a first aid class if the membership so desires. I think it would be beneficial if not practical as we never know when something like this can happen

Stay safe and don't forget your safety shield even for the smallest items.

Dan Baker, President

August Demos: Dan Baker & Rick Rich





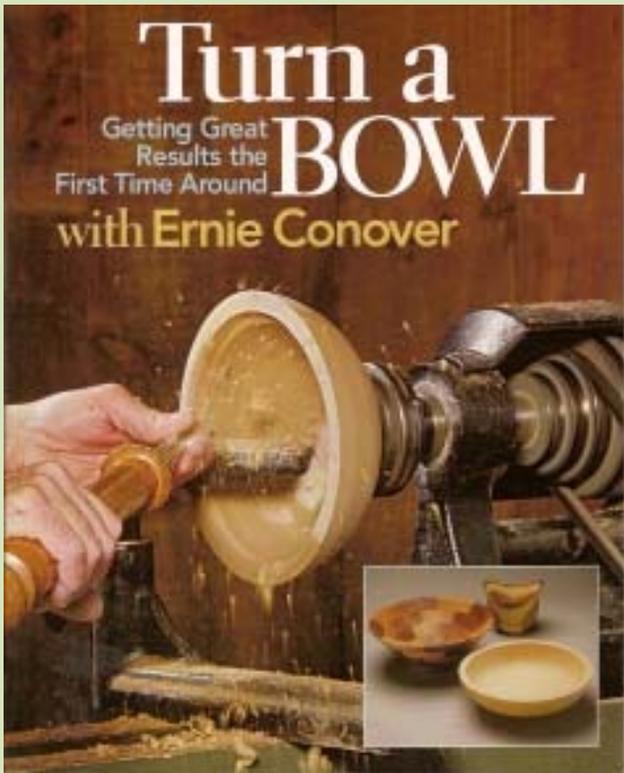
August Show & Tell - Member Projects



Library Update

Turn a Bowl with Ernie Conover: Getting Great Results the First Time Around

by Ernie Conover



Bowl turning is becoming increasingly popular as a hobby and a way to reconnect with a traditional craft. Ernie Conover is a master turner who has turned his experience teaching this activity to hundreds of people into a practical, easy-to-read guide. This book provides basic instructions to get aspiring turners directly to their goal of creating a pleasing bowl. Along the way, he shows how to:

- Gather and buy wood for turning
- Apply basic and advanced turning techniques
- Sand and finish
- Use the faceplate and chucks to hold the work
- Choose, sharpen, and handle tools
- Create the most attractive bowl shapes

The author's straightforward, encouraging style and extensive photos and illustrations make the process easy and rewarding.

Note: We have two copies of this publication available in our library.

Bonus: How to dry woodturning blanks with desiccant (silica gel)-The YouTube video describing this process can be found by either searching for Ernie Conover videos or Dave Hout

Dave Hout explains his new product for drying turned bowls, how to use it and how it works to draw the moisture from woodturning blanks. Desiccant beads let you dry out green, wet wood up to 1" thick in just 12 to 48 hours, with little to no checking or cracking. It's a fast, hassle-free method for drying items like pen turning blanks, handle blanks, and rough-turned bowls and platters.

Bill Brookes

RESOURCES

Dan Baker	President	ridgewoodworks@aol.com 360-608-0421
Jim Moore	Vice-President	360-713-4954
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MERCHANDISE

The following items are available for purchase at the meeting:

DESCRIPTION	UNIT	PRICE
Abranet Sanding Sheets Pack of (7) 3 x 9 sheets (80, 100, 120, 180, 240, 320 & 400)	PK	\$7.00
CA Glues (Thin, Med, Thick) 2 oz. Bottles	EA	\$6.00
CA Glue, Black, Thick 2 oz. Bottles	EA	\$12.00
CA Accelerator 8 oz. Can	EA	\$8.00
End Grain Sealer – 1 Gallon Jug	EA	\$15.00
End Grain Sealer – ½ Gallon Jug	EA	\$8.00

2018 MEETING SCHEDULE

DATE	DEMONSTRATOR OR EVENT
28 FEB	Dan Baker – Turning Alumilite Casting
28 MAR	John Hampton – Turning a Small Cowboy Hat
25 APR	Dan Baker – Creating a Bullet Pen
23 MAY	Dan Baker – Bullet Pen Part 2
20 JUN	Derek Weidman
25 JUL	ANNUAL AUCTION AND HOT DOG DINNER
22 AUG	Rick Rich / Dan Baker – Bowl Turning 101
26 SEP	Tom Smith – Stabilization demo with Cactus Juice brand
24 OCT	TBD
28 NOV	TBD
DEC	

SPINDLE TURNING CLASS UPDATE

The next class is on October 13, from 0800-1200 and everyone is welcome to come and see the class in session.

Rick

Refer a friend!

Ask them to join and become a member of the Southwest Washington Woodturners. It's low-priced easy fun

COMMERCIALS

Shop and save at these businesses with your SWWWT membership card.

Gilmer Wood Co. – Portland, OR
Rockler Woodworking and Hardware – Beaverton, OR
Woodcraft – Tigard, OR
Woodcrafters – Portland, OR
North Woods Figured Wood – Gaston, OR

ARTICLES / MEMBER SHARING

Are you willing to write a short story or tutorial? If you have something that you think would be of interest to other members, send it to the editor.

SWWWT - MEMBER SALES: *Your ads selling woodturning or related items are welcome. To list an item for sale, send the editor an email at tr60rr@gmail.com Photos are OK. Ads will run once. To repeat or continue the ad, please advise each month.*

ELECTION RESULTS

Greg Schramek, AAW Board President

September 5, 2018

On behalf of the Board of Directors, I am pleased to announce the results of the 2019 election of the Board of Directors.

Please join me in congratulating **Andy Cole, Joe Dickey, and Ken Ledeen**. Joe will serve a second 3-year term on the Board. Andy and Ken will each serve three-year terms on the AAW Board of Directors, beginning January 2, 2019.

A total of 1,955 ballots were cast, with up to three votes allowed on each ballot, yielding a total of 5,101 votes. This year's voting participation increased by 65% from a year ago.

Thank you to all AAW members who cast ballots. I appreciate your support for this essential process which sustains the leadership of our organization.

Additionally, the AAW Board acknowledges and thanks all of the candidates. Each has dedicated countless hours to woodturning education in a variety of volunteer roles. I encourage you to join the Board and AAW staff in expressing appreciation for their past and future service to our membership.

Finally, I want to acknowledge AAW's independent auditing firm, Olsen Thielen & Co., Ltd., for their diligent and thorough administration of the election process.

Greg Schramek

President

AAW Board of Directors

SURVEY REQUEST

Below is a link to a survey being conducted by Dr Seri Robinson at the Oregon State University. She wrote the beautiful book on wood spalting a couple years ago and is working on another book. She has asked that I share the survey link to the woodturning community. If you could post it to your newsletters it would help Dr Robinson. Dr Robinson is a woodturner and a great supporter of the woodturning community.

Thank you,

Dale Larson

I'm Dr. Seri Robinson, a professor of wood anatomy at Oregon State University and also an avid turner. A few years ago I wrote the book 'Spalted Wood. The History, Science, and Art of a Unique Material,' produced by Schiffer Publishing. During the research for that book I became very interested in how studio woodturning evolved along with spalted wood's revival, and am currently working on a book detailing the role Mark Lindquist (and his and his father's use of spalted wood) had on the studio woodturning movement.

As part of this research, I'm trying to get a feel for how much history is stored in the collective consciousness of woodturners. Below is a brief, ten question, five minute survey that asks some very, very basic questions. You may remain completely anonymous if you'd like. I'm only trying to acquire a few 'sound bites' for the book, and get a feel for how modern woodturners view the evolution of just a few aspects of the studio woodturning movement.

Feel free to share the link widely, and thank you so much for helping!

<https://www.surveymonkey.com/r/HKLZG52>

How to Make a Ball Bearing Yo-Yo

By Matt Owen



When I was in college, a friend of mine got a free Duncan yo-yo when he bought a shirt at the mall. He brought it to work, and there was an older gentleman who actually knew how to do a couple of tricks. He could walk the dog, rock the baby, around the corner, and a few other classic tricks. To say the least, I was in awe. I hadn't ever really seen anyone yo-yo, and for some reason I was hooked.

I soon bought a cheap, orange plastic Duncan Imperial from Walmart, and I was on my way. I played with that yo-yo, not realizing how cheap it truly was, until I had learned to do a few tricks myself. And I loved every minute of it.

Eventually I found my way to a yo-yo that had a roller bearing in it, and I was amazed at how much easier the tricks were. This yo-yo could sleep 8-10 times longer than my fixed axle, so I no longer had to worry about getting the trick done as soon as I could. Since then, I've learned and forgotten many more tricks, and at some point I decided I wanted to be able to make my own yo-yo's. Unbeknownst to me at the time, this desire would cost me thousands of dollars and countless hours of work. However, this I enjoyed just as much, if not more, than yo-yoing itself. This started me into my love for working with wood.

Graduating college, getting a real job, and getting married all put my plans on hold for a while. Over time, though, I collected many tools, and did mostly flat work as that is what was needed around the house. Eventually, though, I bought a very cheap Grizzly lathe, and I absolutely fell in love with turning. The control over shaping wood was so exciting, not to mention the fun of watching large shavings come off the tool when working with green wood.

As time went on, I searched for articles on how to make a yo-yo, particularly one utilizing a ball bearing. Thousands of these things are made each year, so I figured there surely had to be some instructions out there somewhere. If there were, I couldn't find them. You can buy kits to make one, but I wanted to make one myself, and the kits greatly limited what I could do. I pestered a few people on a yo-yoing web board on how they made a few of their yo-yo's, and this gave me an idea of how to start. After that, I

just started experimenting to see what worked for me. The following is what I have come up with.

Yo-yo's can be made out of numerous different materials. I've made them out of wood, both solid wood and segmented wood, acrylic, delrin, mdf (although I don't recommend this), and deer antler. For this yo-yo, I'm using Cocobolo.

One special tool that I use is a screw chuck, shown in Picture 1. It's nothing more than a piece of 1/4-20 threaded rod screwed into a #2 morse taper to fit my lathe. This holds the yo-yo half securely while shaping.



1. Screw Chuck

I'm starting out with 2 1/2" Cocobolo squares 3/4" thick, as shown in Picture 2. I mark the center of each block, draw the largest circle I can, and then drill and tap the yo-yo half so that I can mount it onto the screw chuck. I drill into the blanks about 3/8" deep, and then use a bottoming tap to tap the holes. While tapping, try to keep the tap as square as you can. See Pictures 3, 4, and 5.



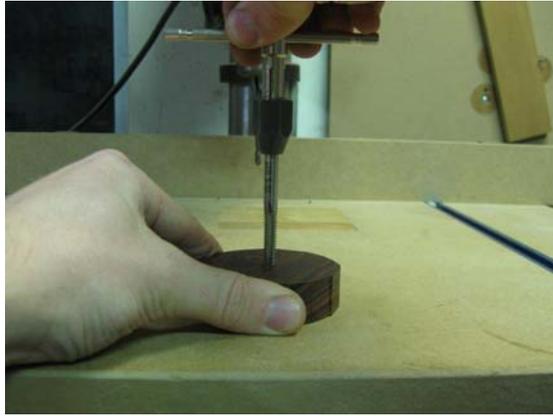
2. Supplies



3. Centers Marked and Corners Removed

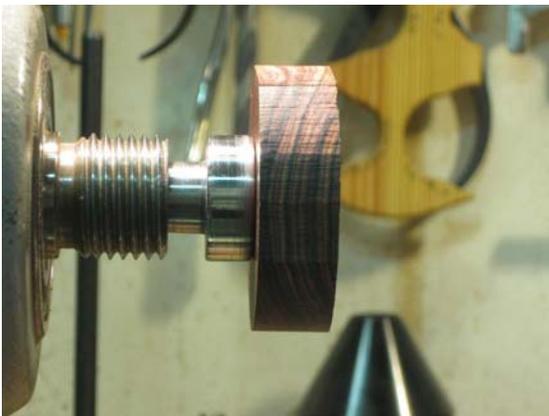


4. Drill Depth



5. Tapping

With the screw chuck mounted in the lathe (Picture 1), I'm now ready to mount the first half (Picture 6). Once mounted, I shape the profile of the half (Picture 7), after which I shape the outer side of the yo-yo half (Picture 8). Do not turn the center of the yo-yo half too deep or you will cut through to the hole you drilled & tapped earlier.



6. Yo-Yo Half Mounted on Screw Chuck



7. Yo-Yo Half with Profile Shaped



8. Outside of Yo-Yo Finished

Once this is complete, the hardest part about turning a yo-yo comes next: turning another half that is exactly the same. I use a dial caliper to assist me with this. I normally pick out features on the yo-yo half that are measurable, and then try to duplicate that. Such measurements include the overall diameter, thickness, depth of cut when hollowing the outside, rim thickness, etc... I try to match these dimensions as closely as possible. See Pictures 9, 10, and 11. One other very critical thing to match is the weight. As long as the two halves are within 1 gram of each other, they should be good.

At this point, I've done as much as I can with the screw chuck. I remove the second yo-yo half, and check the thickness of each one to ensure uniformity (Picture 12). If the height is different, I re-chuck the larger half and turn down to match the other.



9. Duplicating the First Half



10. Profile Duplicated



11. Outside Duplicated

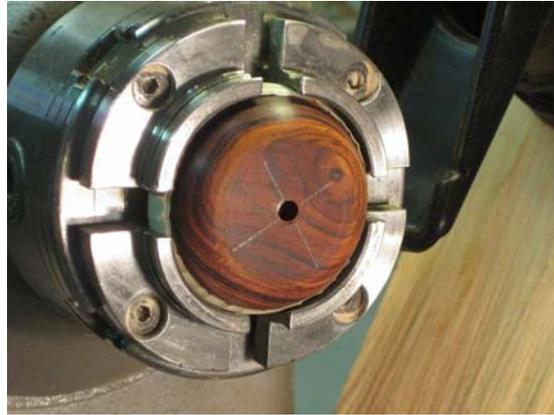


12. Checking the Thickness of Each Half

Now I need to re-chuck the half into my four jaw chuck to turn the areas for the response system. I wrap masking tape around the rim of the yo-yo 3-4 times to protect the half from being gouged by the chuck (Picture 13), and then put it in the chuck (Picture 14). I wait to do this step until after the yo-yo halves have been turned to shape so that I can smooth out some of the areas on the inside half that I couldn't reach while it was on the screw chuck. I don't want any rough surfaces.



13. Wrapped with Masking Tape



14. Mounted in Four Jaw Chuck

For this yo-yo, I need to turn a spot where I can seat the ball bearing to allow it to spin freely after the yo-yo halves are assembled together. The seat is located just outside of the tapped hole, and it is recessed back about .020". I then have to remove material around the bearing seat area so the bearing will spin freely. One tricky part about this is that I have to turn this area fairly precisely. If I don't, one of two things may happen: the ball bearing won't spin freely, or the string will want to slip in between the ball bearing and yo-yo half. Figure 1 shows a cut away view to try to illustrate this better, and Figure 2 has a few dimensions to aid in fabrication. The ball bearing size that I use is 1/2" o.d. x 1/4" I.D. x 3/16" thick. I buy mine in packages of 10 off of E-bay from a supplier called VXB. I have made several purchases from this guy, and have always been happy with what I've received. The bearings come packed in grease, so I soak them in mineral spirits to clean them before use. This allows the bearing to spin more freely.

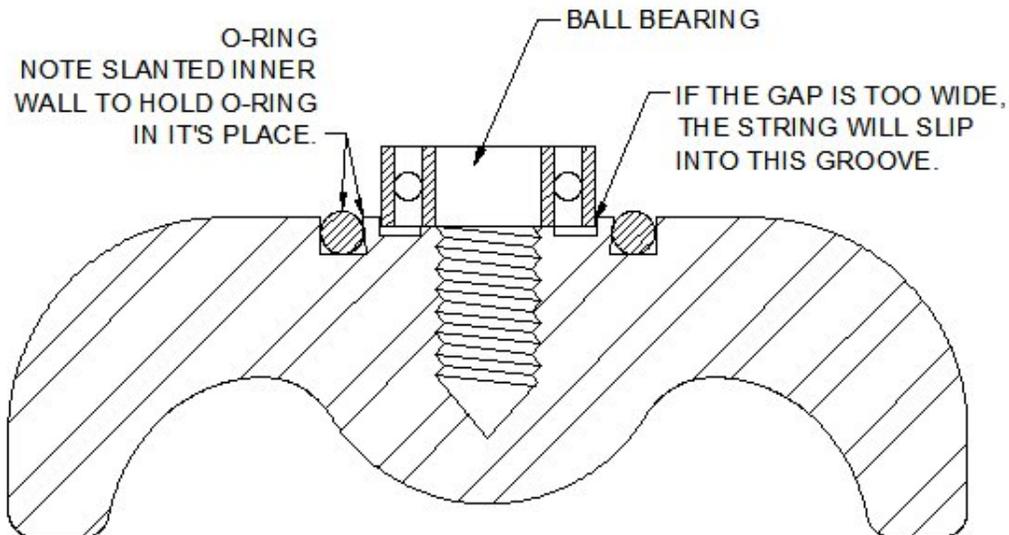


Figure 1 Cross Section of Yo-Yo Half

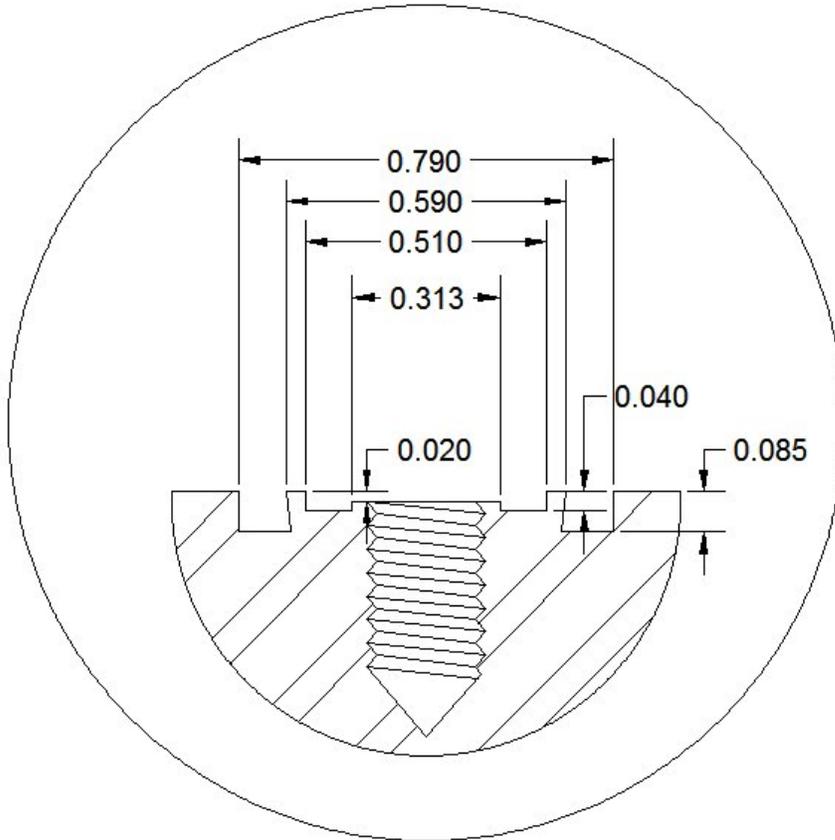


Figure 2 Suggested Dimensions

On a traditional fixed axle yo-yo, the axle and sides of the yo-yo provide enough friction to bring the yo-yo back to the hand. However, when a ball bearing is used instead of a fixed axle, a response system of some kind is needed to aid in returning the yo-yo to the hand. For this yo-yo, I am using regular o-rings I got from the plumbing section at one of the big box stores. There are alternatives to this, but o-rings are effective, cheap, and easily obtained.

As shown in Picture 15, I've turned a groove for the o-ring to fit in. When I did this, I turned the groove so that the o-ring slightly protrudes from the inside face of the yo-yo half. Also, I turned the groove at a slight angle so the o-ring will stay in the groove better (refer to Figure 2).

With the response system installed, I'm ready to assemble the yo-yo and try it out. I use a small piece of 1/4-20 all thread for the axle. The length isn't critical, but you want it long enough to use as many of the threads as you can, but still fully close the yo-yo.

If the wood you used compresses around the bearing seat, and won't allow the yo-yo to turn, small washers on each side of the bearing can be used to seat the bearing against the yo-yo halves (Picture 16). This same solution will work if you accidentally remove too much material when turning the bearing seat.



15. O-ring Groove & Bearing Seat Completed



16. Optional Small Washer

With the grooves for the o-ring and bearing seat cut, I sand and burnish the inside face of the yo-yo, with the exception of the freshly machined grooves. I'm now ready to assemble the yo-yo and throw it for the first time. Save the masking tape in case you need to put one or both halves back into the chuck to make any adjustments.

When you throw the yo-yo, if it spins freely on the ball bearing and doesn't wobble too much, you've done a good job. If the o-rings don't provide enough response to return the yo-yo to your hand, putting a small amount of oil in the bearing will help. Make sure to keep the oil off of the outside of the bearing where the string touches. An oily string will make it worse.

If you would like to add a finish to the yo-yo, choose whatever finish you prefer. Since Cocobolo is so oily, I decided just to polish the wood and leave it bare.



17. Finished Yo-Yo Open View



18. Finished Yo-Yo Profile



19. Finished Yo-Yo

Below are a few different yo-yo's that I've made. Hopefully they will give you a little inspiration to create your own yo-yo. If you do, I would love to see it - mmowen78@live.com



Deer Antler



Jatoba



Wenge & Maple



Maple, Cocobolo, and Ebony



Maple & Purpleheart



Acrylic

If you don't know how to use a yo-yo, you can find good beginner information here:

<http://www.yoyoguy.com/info/yoyo/index.html>

Have fun!

May 3, 2010