

Turning Times

THE OFFICIAL NEWSLETTER OF THE CASCADE WOODTURNERS



NOVEMBER 2019

Please make sure that all content for the next newsletter reaches me by the 30th of December! turningwood@bendbroadband.com Thanks!

NEXT MEETING: 6:45PM, THURSDAY, NOVEMBER 21ST AT WILLAMETTE CARPENTERS TRAINING CENTER

Cascade Woodturners will be meeting at

WILLAMETTE CARPENTERS TRAINING CENTER

4222 NE 158TH Ave, Portland, OR 97230-4906

(For a map, click here <http://mapq.st/1o8wBN0>)

Use the West door in the middle of the front parking lot

Presidents Message

Greetings Cascade Woodturners,

November's meeting will be the last one in 2019. We have a few agenda items for the meeting.

1. Vote on the slate of nominees for the CWA Board of Directors. See VP Gary Borders list of nominations.
2. VP Gary Borders will advise the membership of his findings for updating the AV system.
3. Enjoy Steve Newberry's turning of a Norwegian drinking vessel!

We are also publishing some full color ads for next years demonstrators as you will see in this newsletter. Harvey will be getting the classes onto the website for the tech savvy members to

sign up. For the less technical, please let Gary, Steve, Ken or Harvey know that you wish to sign up for a particular class and we will get you on the list. Please note that the all day demonstrations will be on Saturdays next year so that more of us can enjoy them. The all day classes have been scheduled for Fridays. The times for the all day demos and classes are 9:00am to 3:30 or 4:00pm. The costs were also reduced to \$25 for all day demos and \$100 for the classes.

Our January demonstrator had a schedule conflict and we have found another demonstrator for you. Jimmy Allen, the owner of D-Way Tools will be at our January meeting to demonstrate his entire line of tools! See the beading tools, the teardrop, the negative rake scrapers and more – in action. All your tool and sharpening questions answered by the tool maker and of course we asked him to bring extras for sale to our members.

I would like to extend my thanks to everyone and I look forward to seeing the next year's line-up of excellent demonstrations and classes.

Rick

VP ANNOUNCEMENT

I want to announce the selection of CWT Board Members for 2020.

Gary Borders will be the new President starting in January and Russ Coker will assume the role of Vice President for 2020. All other positions will remain the same. Russ will be doing double duty in the short term, by also being the CWT Storekeeper.

CASCADE WOODTURNERS OFFICERS AND CONTACTS

President - Gary Borders(360) 609-1241 GBBorders@comcast.net
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Web Mistress - Kathleen Duncan (360) 574 - 0955 woodspinner@gmail.com
Newsletter Editor - Jerry Klug (541) 550 - 6299 turningwood@bendbroadband.com
Mentor Coordinato r - Skip Burke (503) 233 - 4263 drgramp@comcast.net

This slate of officers will be put forward at the November 2019 meeting for consideration. Any club member can be nominated from the floor but be sure if you nominate a member other than that is on this listing that they are willing to serve in that position.

ANNUAL AUCTION

The auction had 38 active bidders. The total for all bids for this year's auction was \$3741. These funds will be used primarily to bring guest demonstrators to the club meetings.

CALL FOR HOSTS ALL CASCADE WOODTURNING MEMBERS

Cascade WoodTurners is looking for social hosts for the demonstrators that we are bringing into town for our edification and entertainment. These demonstrators are essential for our continued growth and for our continued skills development, as well as for our enjoyment of the art, so making them feel welcome and as much at home as possible is key. It's also a good way to give back to Cascade.

If you have ever had friends or relatives stay with you, you already know the essentials of hosting. But for clarity, here are some of what's needed and expected of a social host:

- Transport the guest from and to the airport and to all Cascade events. If unable to provide all of this, have arrangements made to fulfill all needs.
- A private and reasonably appointed bedroom.
- A clean bathroom with towels, etc.
- WIFI is essential, with the name and password readily available to the guest.
- Able to provide meals or make other arrangements to see to all of the guest's meal needs, including on arrival and before departure.

Beyond the essentials, the following can make the guest's visit much more comfortable:

- Call before the visit, introduce yourself and get all flight info.
- Find out if there are special needs or allergies (pets, etc.), and if an issue, consider having someone else host.
- Find out about dietary restrictions or preferences.
- Make sure the guest knows the general schedule as well as the specific times of all events and the transits times from your place.
- Be willing to adapt to the unexpected and to share your experience.

If you can help Cascade with the social hosting, or also with the planning and event organization, please let me know. You can email me at swalgrave@comcast.net, let me know at a meeting, or text me at 503-997-6378.

Steve

P.S. volunteering to do any of this does not mean you have to do everything yourself, you just have to be the responsible lead. Additionally, by hosting you are entitled to attend the all day demo and the hands-on class for free.

CASCADE MENTORS

Need some advice on turning? Unsure of the correct way to sharpen that new gouge? Haven't got to an "Open Shop" session? Here are a group of experienced members that are willing to aid your turning experience.

Skip Burke (Mentor Program Coordinator)	(503) 233-4263	drgramp@comcast.net
Howard Borer	(503) 901-3401	howardborer@yahoo.com
Dave Gutschmidt	(360) 823-9835	dave.gutschmidt@mac.com
Mike Meredith	(503) 522-0531	mmeredith23@comcast.net

Anyone interested in mentoring other club members, please contact Skip to be added to the list.



YOUR MEMBERSHIP RENEWAL COUNTS!

Your membership in the AAW supports the future of woodturning and reflects your dedication to woodturning, the woodturning community, and the AAW's educational mission. With your membership, AAW can continue to deliver woodturning education, information, and organization to the community. And coming soon, AAW has an exciting new technology platform for delivering content and services online - better, faster, and easier than ever before!

If your membership is up for renewal, please support the AAW with your renewal! If you have not decided to become a member of AAW yet, now is a great time to join.

AAW is once again offering scholarships to Arrowmont and John C Campbell. This year there will not be a limit on nominations. Check the December Journal for details.

The women's turning group will be meeting on December 7 from 9-12. We meet at 1600 West 20th Street, Vancouver. Please let me know if you intend to come.

Kathleen
woodspinner@gmail.com

DALE'S CORNER

No open shop in Nov or Dec. Next open shop is January.

MAY THE FORCE BE WITH YOU!

I saw a woodturning video the other day showing a turner adjusting the speed of the lathe. It made me think of Joe. Joe was my first lathe. I bought Joe used. I knew his name only because a previous owner had painted it on his front in bright red paint. I loved Joe dearly and had a ton of fun with him.

Joe's motor sat on a hinged plate near his base. To change Joe's speed I had to lift up the motor with one hand and use the other hand to move the belt to a different position on the four-step pulley in the headstock. For me, at least, that was annoying and tedious. To make matters worse, about half the time I pinched a finger between the belt and the pulley when I was lowering the motor back into place.

As a result didn't change lathe speeds very often. Joe's slowest speed was about 500 rpm, which was much too fast for a poorly mounted blank. And sometimes I was too lazy or in too much of a rush to set Joe to his slowest speed. Often I would just leave Joe at the speed I had last used him, and hope that worked.

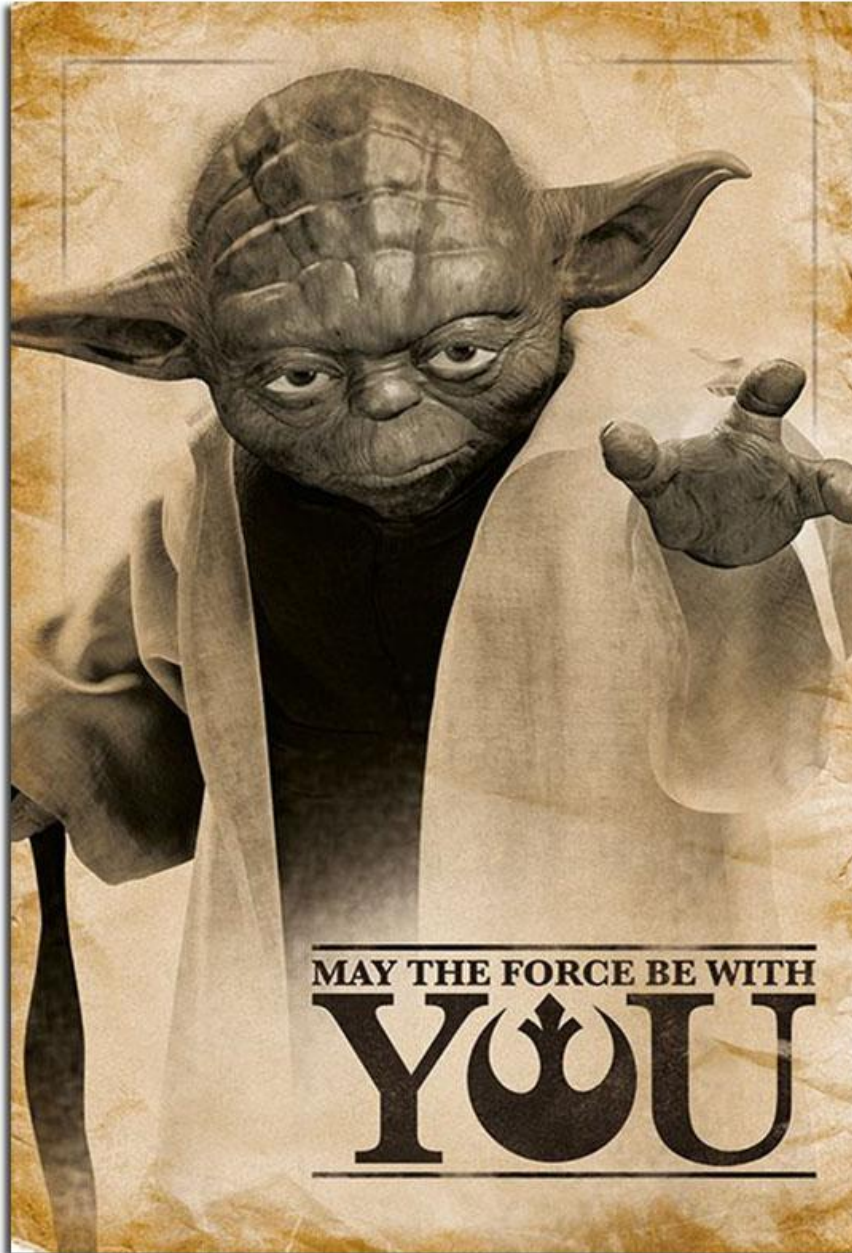
I developed a special procedure for starting a turning: I would mount the blank, turn it slowly by hand, make sure everything that held the blank was tight, and then I would stand way off to one side of Joe, lean over, turn my face away, and flip Joe's switch. If I was both careful and lucky, the blank would spin smoothly and I could start turning.

Many years later, courtesy of a sale at Rockler, I was able to buy a variable speed lathe. It had a digital control, and actually told me the speed of the lathe spindle. I could turn the speed down to just a few rpm when I started turning a blank, ramp the speed up slowly watching for vibration, and turn at what I thought was exactly the right speed.

And that meant, of course, that I had to determine exactly what the right speed was. I had never had to do that before, and that turned out not to be so easy.

Turning fast can be good because turning faster often lets the tool cut cleaner, and leave a better surface.

I think the ideal speed is the slowest one that gives you a clean cut and a smooth surface. It is not safe to do like some demonstrators on YouTube do, and just turn your lathe up to its highest speed. It is not safe because even moderately higher speeds can generate substantially greater forces. And great force is what causes injury or damage if you get a catch.



You might think that doubling your turning speed would roughly double the force of the spinning blank. But it isn't that simple. The force that can damage your body or poke holes in your shop has a more complex relationship to turning speed.

The force at the surface of a spinning blank is proportional to its energy, and its energy is equal to *half* its weight, times *the square of its velocity*.

Turning Times

The velocity, or speed, at which the surface of the spinning blank moves depends on the diameter of the spinning blank. The bigger the blank, the bigger its diameter, the faster its surface moves, and the more force it can exert.

The surface of a round object that spins on the lathe is equal to its diameter times “pi” (about 3.1416). So when a spindle with a 1” diameter spins at 100 rpm, its surface is moving at about 314 inches per minute. 314 squared is almost 99,000. So the force generated by a spindle turning at 100 rpm is calculated by multiplying about 99,000 times half the weight of the spindle.

Turn the speed up to 200 rpm and the surface will move at 628 inches per minute. The force generated by the same spindle turning at 200 rpm is calculated by multiplying 628 by 628, or a little over 324,000. In other words, a 1” spindle spinning at 200 rpm generates more than three times the force of the same spindle spinning at 100 rpm.

Now suppose you turn the speed up to 1000 rpm. The surface of the spindle is moving at about 3,140 inches per minute. You calculate the force of that spindle by squaring 3,140, and you get about 9.8 million. So the force generated by a 1” spindle turning at 1000 rpm is about 100 times the force of a spindle turning at 100 rpm. In this example, if you increase the lathe speed by ten times, you increase the force by one hundred times.

But we don’t always turn spindles. Lots of us turn bowls. A 10” bowl has a circumference of about 31.4 inches. At 100 rpm the outer surface of that bowl is moving at 3,140 inches per minute. The surface of the 10” bowl at 100 rpm is moving at the same speed as a 1” spindle moving at 1000 rpm, and the force it generates is also calculated using 9.8 million.

If you spin the 10” bowl at 1,000 rpm, its outer surface is moving at about 314,000 inches per minute, and the force it generates is calculated by squaring that number, which gives you almost 99 billion. That means the force generated by a 10” bowl turning at 1,000 rpm is *ten thousand times stronger* than the force generated by a 1” spindle turning at 1,000 rpm.

Three things are clear from this:

1. The speed of your lathe does not tell you how much force you are generating. You also need to consider the size of the piece you are turning. Trying to calculate exactly how much force a particular blank generates when it spins at a particular speed is too tedious and annoying to be worthwhile.
2. Force increases disproportionately with lathe speed and blank size.
3. Speed alone can’t injure you, but force can.
4. Don’t turn any faster than you need to get a good cut and a smooth surface.

May the force be with you, if it is against you it can hurt a lot.

Turn safely and joyfully!
Harvey Rogers, Safety Officer

MEETING SCHEDULE 2019

DATE	DEMONSTRATOR	
NOV 21	Steve Newberry	
DEC	No Meeting	<i>Merry Christmas</i>
JAN 16	Jimmie Allen	
FEB 20	Eric Lofstrom	**
MAR 19	Dan Tilden	**
APR 16	TBD	
MAY 21	Trent Bosch	**
JUN 18	Jimmy Clewes	<i>Not sure of date but plan is to</i>
JUL 16	Jimmy Clewes	<i>have Jimmy here this summer</i>
AUG 22	Picnic	<i>Saturday</i>
SEP 17	TBD	
OCT 15	Auction	
NOV 19	Brian Harte	
DEC	No Meeting	<i>Merry Christmas</i>

** Plan on an all day demo and an all day hands on class following the meeting date

COMING EVENTS

November

Steve Newberry- **Club Meeting Demo**, Norwegian drinking bowl



January

Jimmie Allen- **Club Meeting Demo**, Boxmaster and D-Way tools and sharpening techniques



February

Eric Lofstrom- **Club Meeting Demo**, **All Day Turning Class**: Friday, Feb 21st (\$100 - limited to 8 spots!) **All Day Demo**: Saturday, Feb 22nd (only \$25)



Turning Times

March

Dan Tilden- Club Meeting Demo, All Day Turning Class: Friday, Mar 20th (\$100 - limited to 8 spots!)

All Day Demo: Saturday, Mar 21st (only \$25)



May

Trent Bosch- Club Meeting Demo, All Day Turning Class: Friday, May 22nd (\$100 - limited to 8 spots!)

All Day Demo: Saturday, May 23rd (only \$25)





BLACK OAK

I recently cut down and old black oak tree. I set aside a bunch of little rounds that would be good for wood turning. I was curious if you or any of your members would be interested in buying them? I am in Woodland, WA, but I could deliver if it's not too far. Contact Hector Barragan hectorb2k@gmail.com 360-556-6157



COMPANY STORE

The Store will be carrying a second type of Sheet Abrasive for our members.

Keeping the Klingspor quality while offering a new line of sandpaper. Which will reduce your cost of sandpaper and decrease your lathe time. We are currently offering Silicon Carbide (wet and dry), as of the next meeting you can purchase Aluminum Oxide in sheets of 9" x 11" and 80 to 400 grit.

Through the club, we purchase many items that are commonly used by woodturners. We buy in bulk and sell at cost. Just another benefit of being a member of Cascade Woodturners! If a number of members want a certain item, we could be low on it. Please contact Russ Coker, (503) 675-6680 racoker@comcast.net a week ahead of the meeting so he could verify it is not out of stock and set it aside for you.

Company Store Item	Price
Accelerator (for Cyanoacrylate adhesives/CA), sprayer, 8 oz	\$9.00 each
Anchor Seal 2, one gallon	\$10.00each
Cyanoacrylate adhesives/CA Thin, Medium & Thick, 2oz bottles	\$7.00 each
Cyanoacrylate adhesives/CA Thin, 16oz bottles	\$33.00 each
Sandpaper, Klingspor alum/oxide w/heavy cotton cloth backing suitable for wet sanding (80, 100, 120, 180, 220, 320, 400 & 600 grits)	\$1.50 each sheet
Walnut Oil - filtered, 16 oz	\$4.00 each
Tee Shirts (Limited number)	\$10.00 ea

PLEASE BRING YOUR EMPTY ONE GALLON JUGS TO OUR NEXT MEETING

DEMOS - CLASSES – SEMINARS

Multnomah Arts Center: Multnomah Arts Center in SW Portland continues to have woodturning classes. Check their catalog or phone 503 823 2787. You can goggle their website for the catalog. Jerry Harris and Russ Coker are again teaching woodturning at "Multnomah Arts Center". If you are interested, please contact Multnomah Arts Center at 503 823 2787. The cost is very reasonable and all tools, wood and equipment is provided. The woodturning classes that I teach at the Multnomah Arts Center in SW Portland continue to be only partially filled. There are 6 places and we have only been having 2 to 4 students. The costs for the classes are very reasonable and we provide tools, equipment and wood. No coffee but Starbucks is just across the street. Thanks, Jerry Harris

Rockler Woodworking 503-672-7266, www.rockler.com

- Contact store for class details

Woodcraft 503-684-1428, www.woodcraft.com

- Contact store for class details

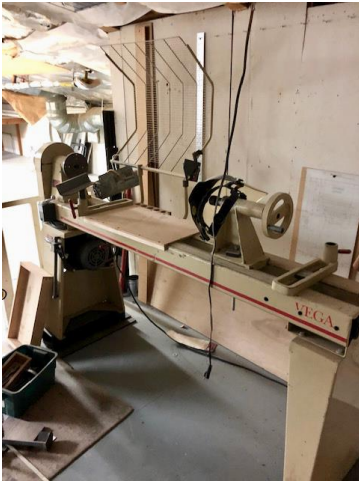
Woodcrafters 503-231-0226, 212 NE 6th Ave, Portland, www.woodcrafters.us

- Nov 23rd – Bill Karow Turns bowls w/intricate lids 10AM – 3PM
- Dec 7th – Bill Karow Turns bowls w/intricate lids 10AM – 3PM
- Dec 14th– Fred Kline turns game calls 10AM – 3PM

CLASSIFIEDS

To place or continue an ad, contact Jerry Klug at turningwood@bendbroadband.com . We will run ads in the next newsletter after receiving your ad. Let us know if you want your ad continued more than one month.

FOR SALE: Dale Larson let us know that the The Joinery is moving and is eager to sell a used Vega lathe. Here are the particulars: Vega spindle lathe, 1hp motor, 110vt, 14" swing. If interested, contact Cassandra Jackson at the Joinery 503-788-8547 Cassandra.Jackson@thejoinery.com



FOR SALE: Powermatic 3520A with outboard tool rest, turning tools, live center, drill chuck etc. As pictured for \$2250 in Eugene. Gary Stancil gstancil24@gmail.com 541 335 9264



WANTED: Looking for a lathe that can turn bowls with a maximum turning diameter of 16-18 inches. Can use a relatively short bed as I don't do much spindle work. I can be reached at: davidkolasky@gmail.com or 419.902.6644.

CASCADE WOODTURNERS OFFICERS AND CONTACTS

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CASCADE WOODTURNERS SPONSORS

Support of the sponsors listed helps maintain our hobby supplies. Remember that your current membership card is good for discounts at these firms

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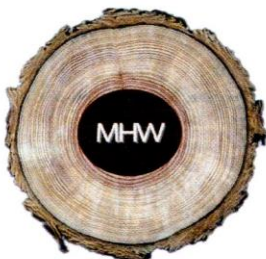
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