



JUNE 2022

Turning Times

THE NEWSLETTER OF THE

CASCADE WOODTURNERS ASSOCIATION

WWW.CASCADEWOODTURNERS.ORG

PRESIDENT'S LETTER

We are slowly sliding through the Spring cold/rainy weather with bursts of sunshine into Oregon Summer with progress at Wild Lilac.

On Saturday, Steve Strawn, Steve Walgrave, and Ajit Aserappa constructed the secure storage space for all of the equipment for our meetings. It has been a long slow process of cleaning the area, planning the site and determining the configuration, then purchasing the wood for such, and now it is finally here! Many thanks to this great team. In the next month we will be bringing various items and equipment from our homes to finally have everything in one place!

Since we have been carefully watching the new Covid wave, we will continue to have in-person meetings at Wild Lilac, still requesting that members who attend be vaccinated and masked to protect yourself and

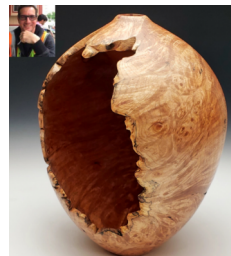


June Demo

Our June demonstrator is Kevin Jesequel, club member, club safety officer and turner of marvelous hollowforms.

Kevin will present a video, filmed and edited by Roger Crooks, demonstrating how he does his spectacular hollow forms, some of which you have all seen in our Show & Tell presentations. Kevin will cover selecting the blank, hollowing, and finishing the piece.

You can see more of Kevin's work [here](#).



GRESHAM ARTS FESTIVAL

One part of our mission as a nonprofit is to educate the public about the craft and art of turning wood. You as a turner do that – unconsciously – each time you talk about a piece you have made.



Please join us as we educate a larger audience of people interested in woodturning. A typical Festival draws 10,000 to 12,000 people, and while we do not see every one of those people, we see many of them, and we interact with each on their own level.

Please consider helping us as we fulfill part of our mission. We need you!
Here are some ways you can

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others. We will have a Wood Raffle, Store items to purchase and Show & Tell at our June meeting and then in July we will be adding our books and videos library. We will also continue with ZOOM for those of you who may not wish to attend in person.

We have some exciting presenters scheduled for the next several months. June 16 will be Kevin Jesequel's video of turning Hollow Forms, and he will be at the meeting to answer any questions you might have. He has been turning only a couple of years and is quite accomplished at turning some unique hollow forms with voids.

July 21 will be Donna Zils Banfield with her IRD (Interactive Remote Demo) "Illusions in Wood" and August 18 will be Phil Rose with his IRD "Split Turning". More information about these will follow next month!

September 15 will be our Annual Wood Auction featuring a huge selection of wood for your turning pleasure and other items for the avid woodturner - an event not to be missed. We will present this

Auction live and for those who may not be able to attend, you will have the ability to bid on items via Zoom just as we had last year! For those of you who bid and win items online, arrangements will be made to pick up.

Much more about these events as we get closer to the dates, but be sure to put them on your calendar now! Also a reminder to get your pictures for Show & Tell to Harvey Rogers, harveyrogers@gmail.com, so he can include them in the newsletter or you may bring them to the meeting and we will photograph for inclusion in the following month's newsletter!

Stay safe, turn lots and have a wonderful time at the AAW Symposium if you are attending!

Suzanne Jensen, President

GRESHAM ARTS FESTIVAL CONTINUED FROM PAGE 1

participate – and help:

- Loan us your awning, preferably one with sides
- Be a greeter/host at our booth
- Help set up/take down at beginning and end of the day



- Demonstrate turning for an hour or so on our midi- lathe
- Loan a piece or two of your work for our display
- Contribute

wood from your stock for demonstrators to turn

- Help transport the various parts needed to make our booth a booth
- Use your photo skills to document the day

- Be a 'Jack/Jill Of All Trades' (JOAT) and lend a hand when needed

The Festival is on Saturday, July 16th this year and is located at the aptly named Gresham Arts Plaza. More information will follow for those who volunteer, but if you are even mildly interested in being part of the fun, please reach out to Harvey, Suzanne, or me.*

*LenOtto 503-200-8193 or
Len@HonorYourPast.com

HarveyRogers 646-660-3669 or
harveyrogers@gmail.com

SuzanneJensen 772-521-5102 or
suzannejensen@bellsouth.net

Thank you in advance for any and everything you can offer!

Len Otto, Cascade's Liaison to the GAF

Women in Turning

The WIT (Women in Turning) group met for our second turning class at the SWWT meeting location in Vancouver.



There are eight women in the class and this month we had two mentors. The club added casters to its Rikon lathes, and it made set up and take down a lot easier. The class meets from 9-12 the first Saturday of the month

(pre-registration only). From 12-2 we have an open session open for women. I do need to know in advance if someone plans to attend the open session.

For more information, or to be added to the WIT email list, please contact me at: woodspinner@gmail.com

Kathleen Duncan, WIT Liaison



Dale's Open Shop

Open shop in May was success. We had four new turners and four lathes going.



Because of the AAW symposium is on the last weekend of June (where all real woodturners will be), **open shop will be June 18th, the**

Saturday directly after the Cascade meeting. We will start around 9am. Bring your tools and an idea.

And as I like to say, everyone is welcome, we have no standards.



Dale Larson - woodbowl@frontier.com

Oregon Woodturning Symposium Volunteer Needed

Another symposium is being planned for March 17 to 19, 2023 in Albany, Oregon.

Cascade needs a representative to the symposium. The representative:

1. Attends the symposium.
2. Coordinates activities in the room that is assigned to Cascade.
3. Arranges to get Cascade's lathe, shield, cameras, tripods, and maybe the mic's and sound system, out of storage at Wild Lilac, down to Albany, moved into Cascade's room at the Albany convention center, and then back again to Wild Lilac when the symposium is done.
4. Participates in board meetings that happen

roughly monthly. So far they have been by Zoom.

It's a fair bit of work but a lot of fun. You get to be up close and personal with the demonstrators, and really get to know the ones assigned to Cascade's room. And you are surrounded by lots of folks who love woodturning and are right close to a good vendors area with lots of wood.

If you are willing to be Cascade's rep for the Oregon Woodturning Symposium please email me at harveyrogers@gmail.com.

May 2022 Show and Tell

Turning made by Gerald Stutts



Turning found by Gerald Stutts!



Brush Holders Turned by Harvey Rogers



THINKING, SUCKING AND BLOWING

Woodturners regularly recycle things. We often make useful or beautiful thing from pieces of wood that would otherwise be burned, like when we turn awkward stumps into bowls. Editors of woodturning newsletters also recycle; this safety article is recycled from pieces of one written by Harvey Rogers that appeared in our July 2015 newsletter.

The most important and succinct bit of safety advice fits on a small sign that should be attached to everyone's lathe:



Think before you do something unless you have done it safely hundreds of times before. Even then, a bit of thought won't hurt.

Now for the sucking and blowing.

The worst wood dust to have deep in your lungs is the really small stuff. There are two basic ways to keep the really small stuff out of your lungs: sucking and blowing.

A dust collector for your lathe sucks air away from the lathe, runs the air through a filter, and then blows it back out. If your dust collector is located inside your shop, the quality of the filter is very important, because anything the filter doesn't trap gets blown back out into the shop where you can breathe it. A dust collector located outside your shop can be set up to blow the particles outside your shop, so the quality of the filter is less important.

Different filters filter differently, and, sadly, you will probably have to pay more for a filter that captures really fine particles, like a HEPA (high-efficiency particulate air) filter. Because the worst dust is the really small dust, I think it makes sense to pay up for filters that trap the really small particles.

The location of the dust collection tube or hood and the volume of air the dust collector sucks are also important. If the dust collection tube or hood is close to the spinning wood on the lathe it has the best chance of sucking the fine dust into the collector before it escapes into the rest of the shop. And the more air the dust collector sucks, the more dust will be drawn away from the lathe and into the dust collector.

You can purchase dust filters that hang on the ceiling of your shop. But those ceiling filters only remove the dust particles after they have floated by your mouth and nose up to the ceiling. That means the ceiling collectors are less effective in keeping you from breathing fine particles of dust coming off your lathe, even if the ceiling filter traps really small particles of dust.

Likely the best way to protect your lungs and your face is to use a powered air purifying respirator (PAPR). These are dust masks that have a powered air filter. The PAPR sucks room air through a filter, cleaning it, and blows the cleaned air into the dust mask where you breathe it. PAPRs are often combined with face shields that can protect your eyes and face from liquids and inappropriately flying wood objects.

PAPRs can be quite expensive. Most of the dust generated by turning comes from sanding. The least expensive way to protect your lungs from harmful wood dust is to always wet sand, using a fluid like walnut oil. The oil traps the dust, keeping it out of the air and out of your lungs.

Rough Turning the Inside of a Bowl

This is the second article of a series on turning bowls written by Past President Gary Borders. It is based on a class Gary took with Dale Larson. The first article appeared in the May 2022 newsletter.

The bowl blank is still mounted on the lathe between centers, you have shaped the outside of the bowl, and you have cut a tenon on its bottom.

Next we must complete two major objectives:

1. Mounting the bowl blank onto the chuck using the tenon on the bottom of the bowl. And,
2. Roughing out the inside of the bowl to prepare it for drying.

Mounting the Blank on the Chuck

If you took care in measuring your tenon properly, this step is very easy. If the tenon is too small for the chuck jaws you have, it will be a huge deal. If the tenon is too small, your most likely course of action is to remount the blank between centers and cut a new tenon. This will cause your bowl to be shorter and the shape will change significantly from what you had planned.



Let's assume the tenon fits the chuck jaws properly. As you insert the tenon into the chuck, close the jaws using your chuck key with your left hand – while ensuring that you apply even pressure into the chuck by pressing firmly on the right side of the bowl blank. One way to do this safely is to bring up the tailstock and loosely push it against the top of blank. This will allow you to turn the chuck key tightly to secure the bowl blank. You will want to rotate the chuck 180 degrees and turn the chuck key again. This is still green wood, so you want to make sure the chuck is grabbing the tenon firmly. Rotate the chuck 180 degrees and turn your chuck key one more time for good measure.

Roughing Out the Inside

We are going to start at the top of the bowl on the right hand side of the blank. Turn your tool rest roughly 180 degrees to the bed of the lathe and about one-quarter inch away from the blank. You can leave the tailstock in place for additional safety while you flatten the top of the blank from center to outside edge of the bowl. The top of the blank may still be fairly rough with chainsaw marks. I like to use a 'nibbling' cut into the top of the blank using a larger bowl gouge – let's say 5/8", but a 1/2" will do just fine. This is a short cut into the top of the blank followed by a pull toward the outside of the blank. This is a pretty safe cut as most of the pressure of the cut is into the top of the blank from right to left. In this cut, most of the pressure is into the chuck. There is some lateral pressure as you pull the cut toward the outside, but having the tailstock in place absorbs some of this pressure.

Work your way from the center of the blank toward the outside with the nibbling cuts until the top is smooth. Once the top is smooth, some people like to do a push cut from the outside edge of the blank into the

center. Don't worry about the small amount of wood under the tailstock, this can be removed later.

Next is to cut the bowl rim to your desired shape. I recommend a straight cut or slightly curved cut from the edge toward the center of the bowl using either your 5/8" or 1/2" bowl gouge. Depending on your personal style and the size of your final bowl, this may be anywhere from a 1/4" to a full inch in width. The actual shape is not as important, but the inside of the rim is where you will begin to take deeper cuts into your bowl blank, so knowing where the rim stops is a guide to your next action. Before moving inside the bowl, you should very slightly round over the outside of the rim. The two reasons for this; one is that you want to remove any sharp corners on the bowl to reduce cracking during the drying process.

Rough Turning the Inside of a Bowl, cont.

The second is for safety – as you don't want a razor sharp bowl edge spinning close to you hands as you remove waste from the inside of the bowl.

If you have the option, I would recommend using your ½" bowl gouge for cutting the waste out of the inside of the bowl. The size of your bowl will determine how many steps you should take in removing the waste wood. On a large bowl, say 12" or more, you will want to remove wood from the inside of the bowl in stages, with each stage only being maybe a couple of inches deep. The green bowl blank is drying rapidly while you are turning it and removing wood from the inside of the bowl. This rapid drying may cause the wall to distort and go out of round. Once it distorts you can't easily go back and recut the wall. Cutting in stages allows you to cut a small part of the bowl to its final thickness before it goes out of round.

You can remove the center last, after you have hollowed the rest of the bowl. This will let you leave the tail stock in place for extra security, but doing that may limit your access to the inside of the bowl.

Be sure to check your chuck periodically to see if it needs tightening. Green wood will compress, sometimes substantially, making it necessary to tighten the chuck periodically to keep the blank from flying off the chuck.

The rough-turned bowl may warp or distort, so you need to make the wall thick enough that you can cut away the distorted parts and still have a bowl that is as thick as you want. Dale recommends about 1 1/4" inches of thickness for a ten to twelve inch bowl. But Dale notes that different woods may need different thicknesses. Apple moves a lot when it is drying, so the sides of an apple bowl need to be relatively thicker. Black walnut is stable and can be a little thinner.

The overall objective of removing waste material from the inside of the bowl is to make the inside of the bowl parallel to the outside of the bowl, so

all parts of the bowl are the same thickness. Dale uses double-ended calipers to measure bowl thickness, and notes that the bottom of the rough-turned bowl should be the same thickness as the bowl sides. If the bottom is thicker it restricts the movement of the wood when it dries, increasing the likelihood of cracking. Similarly, having the bowl sides be the same thickness everywhere reduces drying stress and cracking.

It is easiest to control your cuts if the distance between the cutting edge of the gouge and the place where the gouge contacts the tool rest is small. The larger that distance is, the easier it is to have a cut go awry, removing wood where you didn't mean to, getting a catch, or worse. So it's safer to minimize that distance as well.



Of course, it's easier to minimize that distance if you use a tool rest that is shaped like the curve inside the bottom of your bowl. Dale likes "J" shaped tool rests.

Once you have finished roughing out the green bowl you should put a sealer on the end grain. Dale uses inexpensive paste wax, but Anchorseal and Sealtite work fine too. After sealing the end grain, place the rough turned bowl in a place that will control the rate at which it dries. Controlled drying reduces the likelihood of cracking. Dale places his green bowls in plastic bags with dry chips. The dry chips absorb the free moisture as it comes out of the wood. He periodically takes the wet chips out and put new dry chips in the bag with the bowls. In the warmer months care must be taken to slow down drying so the bowl blanks don't crack. The simple rule to follow is: If the wood is molding it is drying too slow. If the wood is cracking it is drying too fast. Take the appropriate action to fix the problem. If you find micro cracks on the drying blanks you can use superglue to seal them.

Gary Borders, Past President

Image from https://www.youtube.com/watch?v=D_P8Fm5-aVs

Storekeeper Needed

Cascade's store makes turning supplies available to members at a lower cost than they are likely to get elsewhere. Steve Walgrave is currently both our Store Keeper and club secretary. Since Steve is continuing as Secretary and is also an integral part of our tech team in producing our Zoom and the in-person technology at the meetings, his talents are needed in these areas.

I am asking to replace him in the position of Store Keeper. I would like to have someone step forward and volunteer to take over this position for 2022. You may contact me by phone or by email (see below). I'll be waiting for your phone call or email so I can explain further what the Store Keeper duties are.

Suzanne Jensen, President

From Our Secretary

Cascade WoodTurners held a general Board meeting on May 12, and a follow-up Officer's meeting on May 26. Minutes from both meetings are available on the Cascade website, in the 'Members Only' section. Significant item of note is the renewal of the use agreement with Wild Lilac for another year.

Steve Walgrave, Secretary

Wild Lilac

When Cascade meets in person it meets at the Wild Lilac Child Development Center (WLCDC), which is located at:

[3829 SE 74th Avenue, Portland, Oregon.](https://www.wildlilac.org/)



WILD LILAC
Child Development
Community

In Memoriam

Ed Hodgson, an early and long time member of Cascade Woodturners passed away May 14th.

Ed was a warm and generous person. He was the Treasurer for Cascade for many years and after he stepped down he continued to audit the books once a year. You can read his obituary [here](#).

It has a long list of all the organizations Ed contributed to in his life. For a quiet person he made a big impact.

For Sale

Members can advertise things they are selling. To see their ads, log in and click [here](#). Here's a recent addition:

DEWALT 20 inch Scroll Saw.

- * Double parallel link arms
- * Tool-free blade clamps
- * Cuts to 2 inch depth
- * Variable Speed, 1.3 amp
- * Flexible dust blower
- * Easy to reach blade tensioning lever
- * Quick and easy to thread blade through material
- * Model DW 788
- * Received 4.8 stars out of 5 and rave reviews i.e.:

Best scroll saw I've ever owned; Excellent saw;

Easiest blade change ever.

* Used on one project. This saw has approx. 30 minutes use. Yeah. 30 minutes.

* Seen on Ebay for

\$948. And several at over 700. Plus NO availability issues.

* I bought this the same time I bought my new Laguna lathe. I figured I'd test the waters and see which tool inspired me. Then I took a few lessons, met Dale and a few other turners and I was hooked. Now I need money to buy more lathe tools.

* Asking \$425.00
If you are interested contact:

Ed Vachal
edvachal@gmail.com
971 275 3962



The Company Store

The Company Store will be back at the live meetings at Wild Lilac as soon as we have our onsite storage facility there, hopefully by our August meeting. We will have all of our supplies available then.

The Company Store is here for the benefit of our members. We buy in bulk (usually with a discount) and sell at cost!

Now In Stock – The Store now carries 2” Scalloped Sanding Discs, hook & loop backed, for power sanding. Grits available are from 100 through 400. Packages of 10 or 50 available.



Made from the same PS33 aluminum oxide paper as in the sanding sheets. The scalloped edge discs wrap around the edge of the sanding pad so there is no sharp edge to scratch your work.

We continue to carry Klingspor 9x11” sheet sanding paper, Walnut Oil, EndSeal, as well as

StarBond CA glues and accelerator.

Cascade WoodTurners also has an online STORE for your turning supplies! Since we do not always have in-person meetings, and even after we do, we have created an online store for you, our members. You will find it on the Cascade Website, in the Members Only section. Orders and payments are all handled online. Once an order is created, delivery and/or pickup will be arranged. Current prices are listed on the website. Try it, you’ll like it!

You also have the option of ordering your supplies before a meeting, paying for them online, and then just picking them up at the meeting. Please order at least a day ahead of the meeting. Easy as pie!

Steve Walgrave, Secretary and (hopefully temporary) Store Keeper

TRYING TO GET BACK TO NORMAL

As many of you know, the pandemic lockdown had a dramatic effect on Cascade. First we could not meet because of COVID, and then we were told we could not keep meeting at the Willamette Carpenters Training Center after the lockdown ended.

Then President Gary Borders arranged for all of our equipment to be moved out of the Carpenters Center and stored, mostly with generous member Steve Strawn. Gary then led us in learning how to hold virtual meetings on Zoom, and how to present Interactive Remote Demonstrations to members while they stayed at home.

As the lockdown eased Gary, with help from member Tom Hansen, found us a new meeting space at Wild Lilac Children’s Center. We have had several club meetings there, but we haven’t been able to have live demonstrations because the equipment we need to have those demonstrations has mostly been in storage.

To be reasonably confident that our equipment would be safe when we moved it to Wild Lilac, we needed to build a large storage box. Gary, Steve Strawn and Steve Walgrave worked together to design the storage box, and earlier this month Steve Strawn, Steve Walgrave and Ajit Aserappa built it. We can now start moving our equipment to Wild Lilac in preparation for future live demonstrations!



AAW News

2022 AAW Symposium in Chattanooga

The next AAW Symposium is scheduled for June 23-26, 2022. Registration is still open.

You can find out more [here](#).



Cascade's Sponsors

Support of the sponsors listed helps make available tools and supplies for our hobby. Remember that your current membership card may good for discounts at these firms.



Gilmer Wood Company

Gilmerwood.com



Klingspor Abrasives, Inc.

Klingspor.com



Milwaukie Hardwoods LLC

Milwaukieshardwoods.com



Rockler Woodworking and Hardware

Rockler.com



Woodcraft Supply LLC

Woodcraft.com



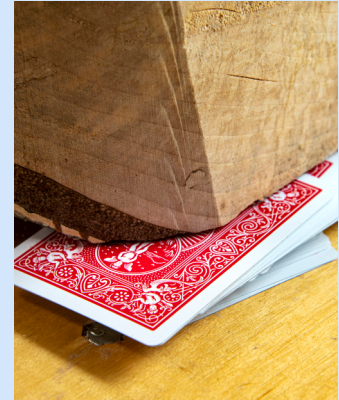
Woodcrafters Woodworking Supplies

Woodcrafters.us

Doug Pizac's Tool Tips

A couple months ago I had a tip on making a jig to drill holes in wood blanks for mounting to a chuck's worm screw.

Here's an alternative — playing cards and a small level — with your drill press. Put the level atop your blank and use enough cards under the low end to make it level. Then rotate the level 90 degrees and use more cards on another low side to level it in all directions. The drill bit will now enter straight.



Cascade's Officers and Board Members

President	Suzanne Jensen	772-521-5102	suzannejensen@bellsouth.net
Vice President	Harvey Rogers	646-660-3669	harveyrogers@gmail.com
Secretary	Steve Walgrave	503-997-6378	woodsven13@gmail.com
Treasurer	Ken Kirkman	360-687-9866	kenpegkirkman@gmail.com
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Video Librarian	Joyce Botsch	503-473-3889	joycebotsch@comcast.net
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Past President	Gary Borders	360-609-1241	gbborders@comcast.net
Mentor Coordinator	Skip Burke	503-233-4263	drgramp@comcast.net

Remote Demonstration Event Calendar

The American Association of Woodturners maintains a list of remote demonstrations. Members of the AAW can access it here:

<https://community.woodturner.org/events/ird-demonstrations>

Local Woodturning Chapters

Northwest Woodturners

Next Meeting: Thursday, July 7, 2022

Multnomah Art Center, 6:00 PM - 8:00 PM

Rick Rich — Three Piece Dish



Southwest Washington Woodturners

Next Meeting: Friday, June 24, 2022



Willamette Valley Woodturners

Thursday, July 14, 2022, 6:30 PM - 8:30 PM

Willamette Valley Woodturners

Local Classes

The following local stores offer a variety of classes on turning:

Rockler Woodworking and Hardware, 11775 SW Beaverton-Hillsdale Hwy Beaverton, OR 97005.

Rockler's list of classes is here:

<https://www.rockler.com/retail/stores/or/portland-store#mt>

Woodcraft of Portland, 12020 SW Main Street, Tigard, OR 97223.

Woodcraft's list of classes is here:

<https://www.woodcraft.com/stores/portland/classes>

Woodcrafters, 212 NE Sixth Ave | Portland, OR 97232

Demonstrations and classes are currently suspended

Big Leaf Maple

Harvey's Research

Botanists call big leaf maple "Acer macrophyllum." That's just botanist-speak for "big leaf maple." Woodturners here often refer to it as "BLM." BLM is the largest of the maples that are native to the Pacific Northwest. The only other native PNW maples are shrubby: vine maple (*Acer circinatum*) and douglas maple (*Acer glabrum*).



Big leaf maples can grow to be more than 100 feet tall, can have trunk diameters of more than three feet, and can live more than 200 years.

About 18 percent of the total hardwood volume in the PNW is big leaf maple. The other "biggies" are cottonwood and red alder.



Big leaf maple is also called "soft maple," to distinguish it from "rock maple" and other harder maples that grow on the east coast of the United States. Big leaf maple rates 850 on the Janka hardness scale. "Rock maple" has a janka rating of 1,450, which is just a bit less than Oregon white oak at 1660. BLM is harder than douglas fir at 660 or red alder at 590.

If you haven't run across it, the Janka wood hardness rating scale is a measure of how resistant a piece of wood is to denting and wear. The Janka rating of a particular wood is determined by measuring the force required to push a steel ball of slightly less than half an inch, exactly half way into the wood. Janka ratings are particularly useful for wooden things that will be used hard. Flooring and baseball bats are good examples.



Big leaf maple trees, not surprisingly, have big leaves. They also flower, and produce winged

Dale's Wisdom

Master bowl turner Dale Larson kindly gave these comments to Harvey on BLM:

We are really blessed here in the Northwest with all the good wood to turn. High on the list is Big Leaf Maple burl.

It is an absolutely beautiful wood to turn and work. Straight grain maple from young trees is just firewood. Fiddleback and quilted maple are beautiful when finished. Both are somewhat difficult to turn because the grain is wavy in the wood.

Straight grain maple is very stringy and difficult to cut clean. You can burn the straight grain wood.

The burl is much nicer to turn and wonderful at taking stains and colors. And about half of the crotches have a nice clean feather.

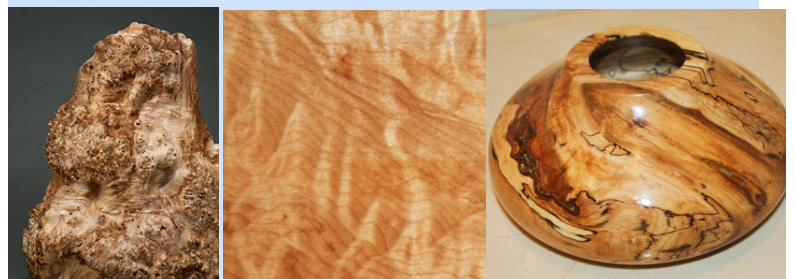
A few years ago I got a 17" solid feather out of a maple tree east of Gresham. I made a nice bowl and a very nice oval out of the crotch. Bigger, older trees will have more figure in the wood. And the figured wood is best near the bark.

Dale Larson, Master Turner

seeds that whirl through the air and fall to the ground.

Big leaf maple machines well, which makes it great to turn.

But the particularly excellent thing about big leaf maple is that, occasionally, it is burly...Or quilted...Or spalty!



Spalted Maple Bowl by Ken McCloud, Los Altos, CA

Harvey Rogers, VP

Images of figured maple taken from nwfiguredwoods.com. Other info in this article taken from <http://nativeplantspnw.com/big-leaf-maple-acer-macrophyllum/>; <https://owic.oregonstate.edu/bigleaf-maple-acer-macrophyllum/>; and <http://nativeplantspnw.com/big-leaf-maple-acer-macrophyllum/>