Apple Valley Woodturners

AAW Chapter in Winchester, Virginia



AVW Officers:

President: Roger Marchant president@applevalleywoodturners.info

Vice-President: Mark Zimmerman vp@applevalleywoodturners.info

Scott Reynolds secretary@applevalleywoodturners.info

Treasurer: Mike Fraser treasurer@applevalleywoodturners.info

Program Director: Andrea Melillo progdir@applevalleywoodturners.info

Newsletter Editor: Steve Halliday newsletter@applevalleywoodturners.info

Website Director: Mark Zimmerman webmaster@applevalleywoodturners.info





May 2025 Newsletter

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Notes from the President

Happy May 7th.

Did you know that

Agarwood (Aquilaria Malaccensis)

Estimated Price: Starting at around \$500 up to \$100,000 per kilogram (depending on the type)

Agarwood, often called the "Wood of the Gods," is one of Earth's rarest and most sought-after materials. This unique wood forms when an Aquilaria tree is infected with a specific fungus, triggering the tree to produce a dark, aromatic resin. The result? A transformation of ordinary wood into a highly valuable substance prized for its rich fragrance. Only about 7% of Aquilaria trees produce agarwood, which is critically endangered. Its rarity makes it extremely valuable. Agarwood has been used in perfumes, incense, and spiritual rituals for centuries. It's considered the most expensive wood in the world.

Our club has been moving ahead on many fronts. The new format for meetings seems to work very well. That's an example of a member suggested change that works very well. Thats the best way to improve our club. If you see something say something.

The tool auction is in two weeks, and it will be a fun time. We have a bunch of tools already donated. Look around your shop, basement, trunk of your car or anywhere else you may be squirreling tools away. If you haven't used them in a while, perhaps consider donating them to the club (wood turning related tools only please).

I know you say if I get rid of it or them, I'll need it for my next project. No problem! I'm sure whomever buys the tool will gladly loan it to you. (teehee). So, bring your checkbook or plenty of cash, we can't accept credit cards (yet!).

Also, some folks have not renewed their membership. If you are one of them, are you unhappy with the direction the club is going? Are your interests not being met? We can't change what we don't know about.

With that being said, if you haven't paid your dues, we cannot have you there during our meeting as you are not covered by our insurance. One-time visits are okay for nonmembers, not for members whose dues have lapsed.

If the dues are out of reach for you, please let me know.

We are looking for people to demonstrate at the meetings. Maybe you might like to do a demo but are not sure how to go about it. We are looking at running a session in August to help you. You will learn about planning, presenting, doing the demo including safety features etc. We are also looking at scheduling a sharpening session in September so watch out for more news.

See you at our next meeting.

Roger

From the Editor

The newsletter continues to see minor changes and additions. If anyone has any ideas they want to see included, then let me know.

We have now set up a gallery page on the web site so you can supply images of your favorite pieces. A maximum of five (5) pieces for each category. We have created the following categories, but we can add more if you have ideas:

- Bowls
- Boxes
- Hollow Forms
- Miscellaneous
- Pens
- Vases

If you want to supply pictures, you can download the <u>agreement form</u> and send the form and pictures to <u>webmaster@applevalleywoodturners.info</u>. NOTE: The pictures must be of your own work.

Remember we have a special challenge for all members. AVW has a booth at the Apple Harvest Festival in September and last year a couple of us made wooden apples for the club to sell at the event. They all sold, making the club some extra needed cash. This is your chance to help. Make some apples (or other fruit) for the event and bring them to the August meeting and donate them to the club. They can be any size, colored or plain, and you can make one or 101 pieces. If you don't know how to turn an apple, then you can watch this you tube video for an idea of one way to do it - <u>https://youtu.be/t_9WhxpHOAU</u>. Colwin Way is a well-respected turner in the UK. We will also do a skills session on turning apples before August.

It has been suggested that we have a member spotlight in the newsletter. If you would like to be featured in the newsletter then write 500 – 1000 words about yourself and your involvement with wood turning. Include a photo of yourself and any other items you want us to publish (examples of work, workshop etc.). Send the article to <u>newsletter@applevalleywoodturners.info</u>.

Remember: the deadline for entries for the newsletter is two weeks before the monthly meeting. You can send anything for inclusion in the newsletter to me at <u>newsletter@applevalleywoodturners.info</u>.

Program Schedule

The Apple Valley Woodturners Mission is:

"To educate our members, other woodturners, and the public in and about the art and craft of woodturning."

The meetings take place on the third Saturday of the month at NW Works, Inc. starting at 9:00 am and usually comprise the following events:

- Meeting Notices etc.
- Show and Tell (bring your latest turnings to share with the members) including the challenge for the month.
- Raffle and "Win one Turn one" (We have a "win one turn one" raffle where, if you want to participate, you get a free ticket and if your ticket is drawn, you win the piece turned by someone else BUT you agree to bring a piece the following month to be raffled.)
- Demonstration

The demonstrators currently booked for 2025 are:

May: David Fry/Auction of woodworking tools (don't forget to tell the president of your intent to provide tools for auction)

June: Roger Marchant (our president) will talk about and demonstrate how to core a bowl using the Woodcut Coring system.

July: Mike Fraser – Christmas comes early with Christmas ornaments. Get ready for the ornament exchange in December.

August: Joe Lehman from the Department of Forestry - Urban forestry

September: No meeting – Apple Harvest Festival – volunteers needed

October: : To be announced. Skills session will be a battle tops workshop

November: Jason Breach - Japanese Box. This is an IRD (Interactive Remote Demo) and it will start promptly at 10:00am (Jason is in the UK, so we will start promptly). To learn more about Jason you can visit his website at https://www.jasonbreach.co.uk/, or his bio and examples of his work on the The Worshipful Company of Turners website - https://turnersco.com/craft/awards/yeoman-programme/jason-breach/.

December: Battle tops, ornament exchange, Dinner and Business Meeting.

The Saturday following the meeting is a skills event. Meeting at the same place, at 9:00 am, this is your chance to bring that troublesome piece and get some expert advice on how to solve your problem. Occasionally this session is used to hold a hands-on session to follow on from the meeting demonstration. There may be a small charge for this, and numbers are limited to the number of available lathes, so sign up early.

May Meeting Notice and Program

The May meeting will be held on May 17 at:

NW Works, Inc. 3085 Shawnee Dr, Winchester, VA 22601

The meeting will start promptly at 9:00am and usually is done by noon. The doors will be open from 8:30am for people to come in and chat. There is often a group heading out for a sandwich after the meeting, so plan on joining them if you can.

- Business notices, announcements etc.
- Show and Tell (bring your latest turnings to share with the members) including the Easter challenge for the month.
- Raffle and "win one turn one"
- Monthly Demo David Fry will discuss his career as a wood turner. Some of David's work can be seen at <u>https://davidmfry.wixsite.com/woodbowls/bowls-for-sale</u>. There will also be an auction of woodworking tools. If you have tools that you would like to be a part of the auction, please contact the president of your intent to provide tools.

Show-And-Tell

The April meeting featured Mark Wertheimer. Mark demonstrated making a bowl from a slab. The Challenge for April was an Easter related item.

Every month at the main meeting, attendees are encouraged to bring their turned items to show the rest of the attendees. Also, every month we have a club challenge. This is your chance to participate and show everyone your view of things. It is not compulsory and there are always lots of ways to meet the challenge. The challenges set so far are:

May: A Wand – A great chance to practice your spindle turning (and your skew use!). Wand can be any size, and any style.

June: A Toy – anything that is turned that is meant to be played with.

Challenges are usually announced at the meeting prior so there is a full month to get the piece made.

Program Report

The April meeting was well attended with a lot of people participating in the challenge for the month. Mark Zimmermann (vice president) presented Gene Lockhart with a plate turned by Roger Marchant to commemorate his years as the president of the organization. The photos below show many of the Easter related items plus other items brought for show and tell. Mark's demonstration of a bowl from a slab brought many questions from the attendees.







Treasurer's Report

We will usually include a report from the Treasurer each month so that you are aware of the financial state of the club.

Treasurers' Report for Meeting of March 15, 2025

27 people signed in

- I cannot recognize 4 names
 - -- two names unreadable
 - -- two not on the member list; guests?
- three members attended who have not paid 2025 dues
- One member paid Individual dues

- 45 paid to date
- compare to 71 at end of 2024

Raffle produced \$65

Current financial position

- Bank Balance: \$5431.45
- PayPal Balance: \$568.81, no activity in past 30 days

Tips and Tricks

If you have a tip or trick you would like to share, send it to <u>newsletter@applevalleywoodturners.info</u>.

Guest Editorial

If you would like to write an article or editorial for the newsletter, let us know. It must be woodturning related. This month we have an article supplied by Tony De Masi and written by Steve Schlumpf, from Michigan

Vacuum Chuck System – How I Built Mine

While there is a lot of info on the subject of vacuum systems that can be located on the various forums, not many walk you through the process of putting one together. I researched vacuum systems, read every post I could on the subject and tried to get an idea of what it would take to put together an affordable system. While I am sure there are many different ways to construct a vac system, here is a simple system that works and costs less than \$200.

<u>The normal disclaimer</u>: I have learned what I know through active participation here on SawMill Creek and trial and error. The following photos offer only a few of the many possible ways to hook up a vacuum system. Most importantly, if something doesn't look or 'feel' safe to you – <u>DON'T do it!</u>

At this point I want to give credit to two folks who helped make my vac system become a reality:

Vaughn McMillan, (familywoodworking.org) from whom I borrowed the design of the cart, and

Tom Steyer, (sawmillcreek.org) who not only listed and sourced the individual components I needed but designed and built a custom rotary adapter to fit my Jet 1642 lathe. Thanks Tom! Without your detailed assistance my vac system would still be in the research stage! Tom makes adapters for several popular lathe models. You can contact Tom at <u>vacuumadapters@cox.net</u> or through Sawmill Creek.

The following items were obtained from Surplus Center (<u>www.surpluscenter.com</u>)

Description	Item No.	Qty
Gast 0523 220VAC Vacuum Pump	4-1540	1
Air Filter	4-1565	2
Vacuum Gauge	21-1583-CA	1
¼" NPT Brass Ball Valve	20-1486	1
1/8" NPT Air Silencer	4-1657	1
Bushing ¼"x1/8" NPTF	455-HH	1
The following items were obtained from Menards:		
3/8" ID x 20' Vinyl Tubing	6840442	1
1/2" ID x 10' Vinyl Tubing	6840455	1
¼" NPT x 3/8" ID Hose Barb	6801821	7

3/8" NPT x ½" ID Hose Barb	6801847	2
3/8" x ¼" Brass Adapter	6805940	2
¼" Brass Elbow	6805827	1
¼" Brass T - Female Threads	6805115	2
¼" NPT Brass Barrel	?	1
9/16" to 1" Hose Clamps	?	10
20A/250V Standard Plug	3635362	1
20A Double Pole Switch	3637535	1
20A/250V Single Receptacle	3638974	1
2" Rigid Casters	2171995	2

I also picked up a Fram G2 fuel filter from Wal-Mart for less than \$3. It's used as a small air filter for the relief valve. There are a few other parts such as junction boxes, PVC conduit, outlet covers, etc that you can pick up at your local home improvement store as needed.

I wanted the vac system to be portable so that when I finished using it I could store it out of the way of my lathe. I modified Vaughn's idea of a cart/hand truck and used scrap pieces of lumber I had on hand. I am sure with a little thought and planning you can come up with something that fits your needs.



Front View



Building the System

I installed the Gast pump such that the input/output were oriented to the left which placed the pump wiring close to the wall of the cart and out of the way. The pump was mounted to the $\frac{3}{4}$ " plywood using $\frac{1}{4}$ " bolts and lock washers so it wouldn't vibrate loose.

On the front side I installed a junction box (for power) at the location where I wanted the pump wires to come through the wall. A $\frac{3}{4}$ " hole was drilled through the junction box and plywood wall for the wiring. A second junction box (for the on/off switch) was then installed directly above the power box. I installed a short piece of $\frac{3}{4}$ " PVC conduit that I just happened to have left over from installing the 220 VAC drop for my lathe.

Power

For the power hookup I used pieces of an old 50' 16-3 outdoor extension cord. I cut a piece about 12' long and installed the 220V standard plug on one end and routed the other end through the pump side

of the wall and into the power junction box. From there I threaded it through the conduit and into the on/off switch box. A 3' piece of the extension cord was then run from the on/off switch box back through the conduit and into the power junction box.

The on/off switch (220VAC double pole/single throw) was then wired with the long power cord connected to the input side of the switch and the short 3' piece connected to the output side of the switch. Pulled all the excess wiring back down into the power junction box, installed the switch in the box and attached the cover plate.

Next, using wire nuts, I wired the Gast pump to the 3' piece of orange extension cord. Made sure all the connections were secure - then installed the cover. <u>If you have to ask how to wire the pump to a 220</u> <u>VAC line – **PLEASE** get someone qualified to make the connection for you! While I have no problems showing you how to make point to point connections on the vacuum lines (worse that can happen is you lose vacuum), if you hook up the 220 VAC wrong it could get serious!</u>

Plumbing

This is where the fun begins as there are any number of ways you can route the vac lines. A simple overview of what we are going to do - connect the lathe to the vacuum pump, provide a filter to keep the wood dust out of the pump, install a gauge to monitor the vacuum and provide a means to regulate that vacuum.

Starting at the lathe we have to use a special vacuum chuck. These need to be different sizes and can be either bought or made in your shop. I will give an example later of a simple homemade chuck that works great.



In addition to the pump you need an adapter that provides a means to attach the vacuum hose to the spindle. There are a number of adapters out there that fit different lathes but I decided to go with the adapter Tom Steyer designed as it allows me to just plug it into the handwheel without having to bolt it on or buy yet another threaded adapter. I also love the fact that when I am done using the vac system I simply pull the adapter from the handwheel and wheel the vac system away!



<u>Step 1</u>: Connect the rotary adapter to the input air filter using the 3/8" ID vinyl tubing. I used about 4' of tubing but the amount is up to you.

Remember to use pipe tape for all your threaded connections!

I installed a ¼" NPT elbow at the adapter in order to route the vinyl tube away from the lathe. I then connected a ¼" to 3/8" barb to that elbow so I could connect the vinyl tubing.

The air filter has a ¼" NPT input connection but a ½" output barb – don't ask me why they are different cause I don't know. I installed a ¼" to 3/8" barb on the input and slid on the vinyl tubing. I actually used a hair dryer to warm the vinyl tube before sliding it on the barb and it helped a lot! I then secured both tube connections with small hose clamps.

<u>Step 2</u>: Secure the air filter to the 3/8" plywood

wall. I figured where I wanted the filter and drilled a few holes through the plywood and held the filter in place with tie-wraps. Real Hi-Tech!

<u>Step 3</u>: Connect the output of the air filter to vacuum relief valve. The output barb of the filter is for $\frac{1}{2}$ "



ID tubing. I heated the end of the ½ vinyl tubing, pushed it on the

barb and secured it with a hose clamp. I then moved the tubing around until I found an area where I wanted to place the relief valve and vac gauge. I cut the tubing at that length leaving just a little extra.

<u>Step 4</u>: Connecting the $\frac{1}{2}$ " tube to the rest of the system required an adapter that went from a

 $\frac{1}{2}$ " barb to 3/8" NPT. Then an adapter that went from 3/8" NPT to $\frac{1}{4}$ " NPT. The $\frac{1}{4}$ " NPT threaded into one end of the first $\frac{1}{4}$ " T.



Step 5: Connect the Relief Valve to the T and then attach the small air filter to the bottom end of the Relief Valve. The small air filter is to prevent dust from entering the system when regulating vacuum. I also used the ¼" rubber hoses that came with the filter – just because they look really cool!

Step 6: Connect the ¼" barrel to the T and then connect to the remaining ¼" T. Attach the Vacuum Gauge as shown and then attach another ¼" NPT to 3/8" barb so you can connect to the 3/8" ID vinyl tubing.

Step 7: Run a length of tubing from the ¼" T to the input of the pump. The input and outputs of the pump are labeled on that end of the pump. Cut the tubing to length and install a ¼" to 3/8" barb into the pump. **MAKE** sure you attach the 3/8" vinyl tube to the input side. Secure with a small hose clamp.

<u>Step 8</u>: You are going to connect some 3/8 ID tubing to the output of the pump but first you must figure out where you want the output air filter located. Drill a few holes and secure the output filter with tie-wraps.

Step 9: Install a ¼" NPT to 3/8" Barb to the output side of the pump and another one to the input of the air filter. Cut a piece of 3/8" ID vinyl tubing to length and install between the pump and air filter. Secure with hose clamps.

<u>Step 10</u>: Determine the location for Silencer and attach to the structure.

Connect the output air filter to the Silencer using ½" ID vinyl tubing and adapters as listed in photo.

At this point the construction of the vacuum system is complete. All you need now is a vacuum chuck!





Making your own vacuum chuck

The following is a simple vacuum chuck and is only one example of some of the materials you can use for chucks.

Step 1: The wood is rough cut cherry approximately 1" thick and the PVC is a 4" coupler. I surfaced one side of the cherry, cut the piece in half and glued the pieces together using Elmer's Ultimate High Performance Glue. It's one of those glues where you wet the surface of both pieces of wood, spread the glue and then clamp it overnight. The glue expands and fills all the small areas between the two boards that could potentially cause a vacuum leak.

<u>Step 2</u>: You can use a faceplate to mount the vac chuck to your lathe but I use the Beall Spindle Tap and will demo how I use it to make my own faceplates.

Mount the glued-up wood between centers and round the outside such that it can fit into the jaws of your chuck. I have a Talon chuck and use the larger #3 jaws to hold the blank for the next step.



The outside is now rounded over.



Step 3: Mount the blank in your chuck and bore a hole 1/8" less than the finished tap size – meaning 1/8" less than the size of your spindle. In my case I drilled a 1 1/8" hole all the way through the blank. There is enough room for the forstner bit to clear the chuck once it cuts through the blank – however – it is a good idea to watch closely and not ruin your drill bit!

Step 4: Following the instructions for the Beall Spindle Tap, I start the tap into the wood and have the back of the tap supported with the tailstock. The spindle of the lathe is locked so that the blank cannot move. I use a crescent wrench to turn the tap a ½ turn and then snug up the tailstock center. Repeat until the tap is fully inside the wood and the tailstock is no longer needed to help keep the tap traveling straight. Tap the wood all the way through. **Unlock the spindle!**



Step 5: Remove the blank from the chuck and then remove the chuck from the lathe. Thread the blank onto the spindle and true up both faces of the blank.



Step 6: The idea here is to turn a shoulder area that will support the PVC coupler. You want to make this a fairly snug fit and should take your time when you get close to the final size.

I dry fit the PVC often until it makes contact on the shoulder as well as the inner tenon area.

Once you have a good dry fit, I clean up the shoulder area with a parting tool – just to make sure I have a good 90* angle between the shoulder and the inner

tenon.



Note: make sure the PVC is clean and its edges are smooth so as to make good physical contact with the wooden faceplate.

Step 7: Glue the PVC coupler and the wooden faceplate together. I use hot melt glue and find it works very well. I run a bead of glue along the shoulder/tenon junction and then seat the coupler while the glue is still hot. I then run a bead of glue along the inside of the chuck at the PVC – wood joint and also along the outside joint. The glue cures very fast but I usually let them sit for an hour or so before returning the chuck to the lathe.

Step 8: With the chuck mounted on the lathe, use a bowl gouge and true up the PVC and round the edge over. Use sandpaper to clean up any tool marks.

Also, I highly recommend the use of a closed cell foam gasket on the rim of the chuck to help provide a good seal and protect the turning. Any

number of different closed cell materials can be used. You can find 1/8" craft foam (with self-adhesive back) at Hobby Lobby, Michael's, and other craft stores. Use white or light colors to avoid possible stains on your work.

Congrats - you just made your own vacuum chuck!

For Sale/Wanted

List your surplus woodturning related equipment or your needs here.

Support Our Friends



Benefits of AAW Membership

AVW is a Chapter of the American Association of Woodturners (AAW), the largest organization for woodturners in the world. You can enjoy a free 60-day trial membership by going to http://www.woodturner.org . In addition to home delivery of their award-winning bimonthly

publications, American Woodturner and FUNdamentals, there is always something new to learn and discover on the AAW web site.

What's Going On

AAW Symposium 2025:

Every year the AAW holds a symposium with many demonstrators from around the world along with vendors for you to buy that new toy! The 2025 Symposium will be June 12-15, 2025, at the Saint Paul RiverCenter in St. Paul MN. Registration is already open, and you can get early bird pricing until April 11, 2025. For more information including a list of the demonstrators already confirmed and the hotel information go to:

https://www.aawsymposium.org/?utm_medium=web&utm_source=woodturner_org&utm_campaign=2_025symposium&utm_content=registration_

For the last few years, AAW have offered the chance to attend virtually with a limited number of demonstrations available to watch from the comfort of your home. Details are not available yet but keep watching the AAW web site.

Mid Atlantic Woodturning Symposium

Date: 09/19/25 - 09/21/25

Location: The Lancaster Marriott / Convention Center at Penn Square Address: 25 S Queen St, Lancaster, PA 17603 Phone:(717) 239-1600

Other symposiums:

May 3-4	Alaska Woodturners Symposium, Anchorage, AK
August 22-24	Southwest Association of Turners Symposium, Waco Convention Center, Waco, Waco TX
Sept 19-21	Rocky Mountain Woodturning, Loveland, CO
Sept 20-21	Apple Harvest, Clearbrook Fairgrounds, (AVW is participating)
Sept 26-28	Segmented Woodturning Symposium, Crown Plaza Hotel, Northbrook, IL

Virginia Clubs & Events

Catoctin Area Turners

Areas served: Serving western Loudoun County, Maryland

Contact: <u>https://www.catoctinareaturners.org/content.aspx?page_id=4&club_id=779723</u>

Meetings: Thursday before the 3rd Saturday each month, 6:30-? pm at the Leesburg Volunteer Fire Department, 215 W. Loudoun Street, Leesburg, VA (Note: See web site for meeting exceptions in January and July.)

Web: <u>https://www.catoctinareaturners.org/</u>

Capitol Area Woodturners

Areas served: Northern VA, DC, and MD.

Contact: https://capwoodturners.org/membership/#contact

Meetings: Pimmit Hills Center located at 7510 Lisle Ave, Falls Church VA 22043... second Saturday of each month, 8:00 am for "Social & Donuts", 8:30 am for show and tell and 9:00 am for business meeting and demo.

Web: http://www.capwoodturners.org/

Central Virginia Woodturners

Areas served: from Charlottesville to Staunton to Harrisonburg.

Contact: <u>https://centralvawoodturners.org/contact-us/</u>

Meetings: Third Tuesday of each month, 6:30-9:00 pm, at the Crimora Community Center, 1648 New Hope and Crimora Road, Crimora, VA 24431,

Web: http://www.centralvawoodturners.org/

Mid-Maryland Woodturners Club

Areas served: Serving the Frederick, Maryland area.

Contact: https://www.mmwtc.org/content.aspx?page id=4&club id=840995

Meetings: Wednesday before the third Saturday of each month at 6:45 pm at Bethel Lutheran Church, 9664 Opossumtown Pike, Frederick MD 21702

Web: <u>http://www.mmwtc.org/</u>

Tidewater Turners

Areas served: Serving the Norfolk, Virginia, area.

Contact: tidewaterturners@gmail.com

Meetings: Fourth Tuesday of each month, 6:30-8:30 pm, at the Woodcraft of Norfolk/Virginia Beach 5802 E. Virginia Beach Blvd, Suite 152, Norfolk, VA 23502

Web: http://tidewaterturners.net/

Woodturners of the Virginias

Areas served: Serving the foothills of the Shenandoah Valley and neighboring West Virginia

Contact: https://woodturnersofthevirginias.org/contact2/

Meetings: First Saturday of each month, 9:00 am at Peter Shoemaker's "Phoenix Shop" at 5906 Main St., Mount Jackson, VA.

Web: <u>http://www.woodturnersofthevirginias.org/</u>

AVW Membership Renewal Form

Membership Type (check one): Individual (\$40) Family (\$45)
(check one): New Renewal
Name:
Address:
City, State, ZIP:
Phone: () Alt. Phone: ()
Email:
Emergency Contact Name:
Contact Phone: ()
AAW Member (yes/no):
Active-duty Military (yes/no)? (\$20) Branch?
Already a member of an AAW affiliate club (yes/no)? (\$20 discount on Individual and family))
Club name:
Check #: Amount: Date:

Mail form to the Treasurer with Check or contact <u>treasurer@applevalleywoodturners.info</u> for other payment methods.

Mike Fraser 329 Russell Road Berryville. VA. 22611