

North Carolina Woodturners

Website: www.ncwoodturners.com

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North Carolina WOODTURNERS

Journal of the North Carolina Woodturners Association

A Chapter of the American Association of Woodturners



President's Message

By Tim Simmons

I hope everyone is enjoying this nice warm weather in the middle of January. Who would have thought it would be in the 60's this much?

Thank you for all that brought something they turned for our "Show and Tell" gallery (2 tables full). Just a reminder to all - there is also a **monthly challenge project** to hone your skills on something out of the ordinary. You could also win a nice prize for displaying your challenge masterpiece or master "oops". You have to be in it to win it!

Just a little something to think about! Why do we turn? Why are we club members? What will be your legacy? Everyone has a story. I want to focus on the last question – a Legacy is defined as "anything handed down from the past, as from an ancestor or predecessor"

Now for the challenge: every one of us has a special skill, talent, process, task, job, or activity we do on a regular basis that we sometimes take for granted. There is more than one way to do any task – right, wrong or indifferent. Does it really matter as long as it is safe for you and the ones watching? We have almost 100 members and counting. How can we all build and grow our legacy? This is our club; can you demo a project at a club meeting? mentor a new turner? can you run a video camera? can you set up or

take down the meeting space? take pictures? write summaries of a demo? make coffee? make popcorn? sweep the floors? THANK YOU to all who are building your legacy.

If you would like to contribute in any way, shape, or form, please let myself or a board member know. So, we can point you in the right direction and..... keep turning and make something special.

Tim Simmons

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The AAW is dedicated to the advancement of woodturning by providing education, information, organization, technical assistance, and publications relating to woodturning. The North Carolina Woodturners Association purpose is to promote an interest in woodturning for persons of all levels, and to encourage membership in, and give support to, the American Association of Woodturners.

2017 Presenters/Topics

	Presenter	Topic / Demonstration
January	Sam McDowell	Design and Structural Problems
February	Scarlette Rouse	Three-winged box
March		
April		
May	Bob Moffett	Turning a wide rim bowl and using Lichtenberg Fractal woodburner on the rim. Will also show how to make the woodburner
June	Jerry Measimer	
July	Learn 'N Turn and "sell" of tools, etc.	Chance to help others improve their skills; everyone wanting to sell will pay \$10/table
August		
September		
October	Bob Baucom	AM-Lantern ornament turning PM-turning small bowl with "Ride the Rainbow" cut and texturing in afternoon
November		
December	CHRISTMAS PARTY @ Market on Main, Hickory, NC	

2017 Challenge Projects

	Project	Description & references
January	Trembleur (word that relates to trembler or wobbler)	http://www.woodturningonline.com/Turning/Turning_projects.php?catid=63
February	Spheres	http://www.woodturningonline.com/Turning/Turning_projects.php?catid=71
March	Eggs	http://www.woodturningonline.com/Turning/Turning_projects.php?catid=35
April	Natural edge Mushrooms	http://www.woodturningonline.com/Turning/Turning_projects.php?catid=54
May	Square edged bowls/ platters	
June	Non-kit Letter openers	http://www.woodturningonline.com/Turning/Turning_projects.php?catid=92
July	Acrylics	Turn something out of acrylic/or use Acrylics with your turning http://www.alumilite.com/
August	Copy it. (no bowls)	Copy an object you have around the house of shop bring both objects
September	Miniatures	http://www.woodturningonline.com/Turning/Turning_projects.php?catid=52
October	Boxes	http://www.woodturningonline.com/Turning/Turning_projects.php?catid=13
November	Fruit	http://www.woodturningonline.com/Turning/Turning_projects.php?catid=39
December	Ornament Sway	Bring one to party if your spouse wants to participate in the annual swap.

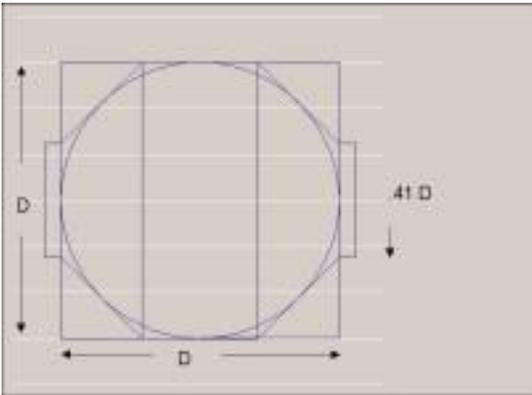
February Challenge helps

Courtesy of <http://www.detroitareawoodturners.com/uploads/3/4/8/5/34854207/spheredescription.pdf>

Geometry of Turning a Sphere

With practice a reasonable sphere can be turned by eye. However, the following the steps will enable you to turn a sphere while gaining the discipline and skills to turn a by eye alone. The most common error in turning sphere is making one cut below what should be the final surface of the sphere you are trying to turn. Once this happens you have to re-turn the whole surface down to or below this cut.

The process is to start with a cylinder, then make a series of straight cuts that intersect the surface of the sphere you are turning.



The diagram at the left is a cross section of the sphere in progress. It is an octagon around a circle. The face of the octagon has a length of $2R * \tan(22.5\text{deg})$.

Or $D * \tan(22.5)$

Where R is the Radius of the sphere and D the Diameter

.414 is the Tangent of 22.5 degrees.



1. From square stock like a 3x3, cut a blank that is 1/2-1" longer than it is square, find the centers, and mount it on the lathe.

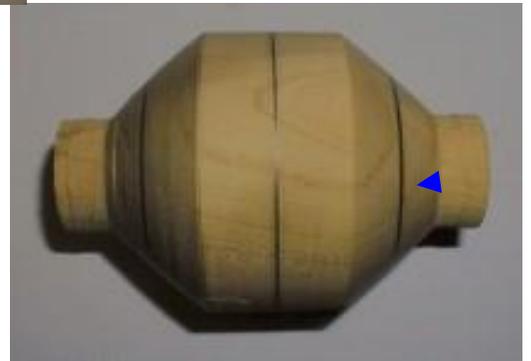


2. Turn the cylinder to desired diameter, mark the diameter length on the cylinder and the center. This centerline will be on the surface of the sphere.



3 Part in on each end of the cylinder to create a tenon that is .41 of the desired diameter. Mark the two lines on the cylinder .41D apart centered about the centerline.

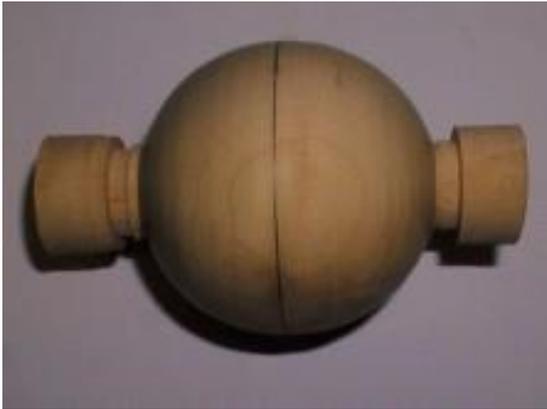
Cutting from these last two lines to the edge of the tenon, remove wood from the line on each end to the tenon making two flats.



Mark the centers of the flats. These lines are on the surface of the sphere.



Part in a bit at each end of the sphere. Mark the centers between the 3 lines on the surface of the sphere and the corners where flats meet. These are orange lines on the right above. Then cut the corners off establishing flats between these lines. The centers of these flats will be on the surface of the sphere. Note: the photo on the left has the cross section of an 8-sided figure and the photo on the right has the cross section of a 16-sided figure.



Visualize the sphere in the 16-sided figure and cut the surface taking care not to cut below any surface line.

Lay a small circle of plastic or wood on the surface of the sphere. When you have a sphere, it will contact the surface evenly. It will rise up on high spots. Turn these high spots away carefully and you will end up with a sphere like the one on the left.

Using a cup of wood mounted at the headstock and a wooden pin over the live center press the ball into the cup. You can now turn off the stubs using



light cuts with a bowl gouge cutting from the centers at each side up toward the middle of the tenon. As the ball rotates you see the outline of the sphere. Once you get close to sphere with cutting switch to scraping.



You may choose to cut the ends off with a handsaw. Note: it is extremely dangerous to cut these with any type of power saw.

January Presentation – Sam McDowell

Sam McDowell, a longtime member of the club, was the presenter for our first meeting of 2017. Sam began turning over 20 years ago, when he turned a set of chalices for his church. He was hooked and has been addicted to woodturning ever since. (And no, he did not turn his hat.)



Sam's demonstration was wide ranging, covering structure and form. He began with his one and only absolute rule which is DISPLAY THE WOOD. He introduced the “Rule of Thirds” and the “Golden Mean” which he nor anyone else understood. No straight lines and a constantly changing curve is the pursuit of a lifetime for a woodturner.

A helpful hint Sam shared was that using a dryer sheet to clean your face shield will reduce the static electricity that attracts the dust and will keep it clean longer.

For chuck jaws, he recommends dove tail jaws. For sanding he uses a regular drill or a right-angle type drill which can be held with one hand while a regular drill requires two hands

When he finally began turning, he mounted a bowl blank of ambrosia maple that was only cut two days ago, so it was very wet. He used a four-prong spur drive center and he drilled a one inch hole for the drive center to fit into. He used a rawhide hammer to hammer the drive center into the face of the bowl. Never use a metal hammer to the center because it will ruin the drive center. He spent time balancing the pith by marking on a piece of blue painter’s tape on the tool rest where the pith was. He then split the difference so that it was at the same place. He used a bowl gouge to shape the outside and turn the inside of the bowl. He used both a push and a pull cut on the outside of the bowl. After rounding the bottom, he formed the tenon on the bottom for attaching the bowl blank in the chuck for turning the inside of the bowl. Instead of "ride the bevel", his method is "put the tip of the tool in the corner" of the cut. He used a very fine pull cut to smooth the wood on a final cut. Because he was going to put feet on the bottom of the bowl he cut a smaller tenon within a larger tenon using a spindle gouge to cut the dove tail. Because the chuck would not fit into the groove he eventually had to remove the part for the legs. It took him only a few minutes to turn the inside of the bowl after he turned it round and attached the tenon to the chuck.

(Sam buys his turquoise in bead form at Michaels and crushes them into a powder.)

After lunch, he turned a natural edge bowl. He wanted to be sure that the pith and the bark lined up evenly for a good symmetrical form. When turning the outside of the bowl when he got to the top near the bark, he turned against the grain so that he did not knock the bark off. Instead of rough turning down to 1 inch diameter and letting the bowl dry and then returning it, he turns only once. He sands and coats the bowl with whatever finish he plans to use. He only turned the outside and gave the bowl blank away to a member to finish.

Next, he turned a vase out of a cherry burl. *Woodturning - A Sourcebook for Shape and Turned Bowl Design* by Richard Raffan were two books he recommended. He drills the inside out with a 2 1/4 inch Forstner bit.

Next, he explained the orientation of a side grain burl. He followed by how to balance a slice of burl used for a platter. He found the center by balancing it on the tool rest so that it was evenly balance and then drew a line on the bottom using the tool rest as a straight edge. He then turned it 90 degrees and did the same thing plus

doing it on the down side as well. He mounted the blank with a drive center and brought the tail stock up and then marked the outer edges with chalk so that he could see them better

Finally, he demonstrated how he creates his turquoise. He buys Howlite beads from Michaels or AC Moore and used a hammer to pulverize the beads. He then uses two sizes of strainers to separate it into coarse and fine powder. This is much cheaper and less difficult to work with than real turquoise. To fill cracks, he uses sawdust with thin CA glue, walnut bark saw dust, copper powder and turquoise of course. He has used Inlace but does not like it. He uses a Dremel tool with micro bits from Woodcarvers Supply to create cracks to make a piece look more interesting and then fills the crack with turquoise. He follows the thin CA glue with medium CA and then sprays with accelerator. After it dries he uses his drill with a 3-inch pad and 60-80 grit sand paper to sand the turquoise filler. Other suggestions were copper, aluminum, brass, etc. powder.

So now we all know that there are times when a crack is not just a crack but it is an opportunity to add value and eye appeal to a turned piece.

February Presenter – Scarlett Rouse



Our presenter for February is Scarlett Rouse, a turner who has been a member of AAW since 2010, and is part of their Profession Outreach Program (POP). She has always enjoyed working with wood, starting with refinishing furniture in her early teens. She took a woodworking class in 2005 and started building rocking toys and anything else her eight grandchildren wanted.

In 2007 she was fascinated by someone on television making pens so she decided she would give that a try. She ordered a midi lathe that came with a set of tools, pen kits and DVD's. "It took me three hours to turn a pen one day because I didn't know how to tighten the tailstock, plus I didn't have sharp tools. I took two classes from a woodworking store in 2009 and I joined my first woodturning club. Turning got put on the back burner because I was busy making toys for sale for neighborhood people. I longed to turn, so I stopped doing flatwork and joined a bigger club in December 2013 and took many workshops through that club. I've tried to absorb all I can from any woodturner I'm around. I love to pass along what I've learned as other turners have to me. I love to see the expressions of people while they are learning something new. I consider myself truly blessed to be able to be a woodturner and I hope to encourage others along this wonderful journey."



She will be turning a three-winged box for us; depending on time, she may add other information for us as well. She is from Seven Springs, NC, and is a member of Down East Woodturners Association of NC, Wilmington Area Woodturners Association and Women in Turning (WIT). She is a wife, mother, grandmother, farmer, hunter, and woodturner.

Challenge Project - Trembler

The trembler is made from one piece of wood in a spindle orientation. It is then turned with a turned element at the top, followed by a 2 or 3 mm thin spindle (1/16 to 3/32"), then another element and then another spindle and so forth until you get to the end.

Thanks to those that participated.



Jeff Campbell - Maple



Ralph Green - Maple



Ralph Green - Maple

Hopefully, like Tim mentioned in his message, we will ALL try harder to participate in the challenge projects each month. There is a monthly gift given each month with the winner being drawn from all participants – all skill levels are in the same pot so we all have a shot at this “reward” for stepping outside our comfort levels. I am challenging myself to try and participate in month; if I can you can too!

Gallery Pictures



Harold Lineberger - Cedar



Harold Lineberger –
Spalted Maple



Harold Lineberger –
Cherry Burl



Harold Lineberger –
Cedar



Tim Smith-Ash



Tim Smith-Ambrosia Maple



Jerry Ostrander – Sweet Gum



Don Olsen
"The Eyes Have It"



Don Olsen – Maple vase



Ric Erkes



Ric Erkes



Ralph Green
Ambrosia Maple



Dorothy Green – Natural Edge



Ralph Green –
Ambrosia maple



Edgar Ingram –
Rosewood



Tom Denne – Pine and
Walnut



Tom Denne –
Cookie Jar



Tom Denne – Flower Vase



**Bruce Whipple
Walnut**



Bruce Whipple - Cherry



**Don Hildebran
Ambrosia Maple**



**Tom Crawford –
Cherry Platter**



**Tom Crawford
Christmas Ornaments
Cherry/Maple & Walnut/Maple**



**Brian Butler
Walnut Cowboy Hat**



**Brian Butler
Walnut Top Hat**

2017 Officers and Board of Directors

Officers of NC Woodturners – 2016

President	Tim Simmons	(828) 726-1599
VP/Program Chair	Jerry Long	(704) 437-2188
Treasurer	Bruce Whipple	(828) 584-0890
Secretary/Journal & Website Editor	Beth Parham	(828) 439-9576

Board of Directors / NC Woodturners

Last year of 3-year term: Term expires 2017	Gene Parham	(828) 294-4001
	Dan Greaser	(704) 325-0222
2nd year of 3-year term: Term expires 2018	Bob Tate	(704) 735-2382
	Dorothy Green	(704) 692-4278
1st year of 3-year term: Term expires 2019	Scott Caskey	(704) 735-2382
	Ralph Green	(704) 692-4278

Tips

(Courtesy of AAW website "Tips" section)

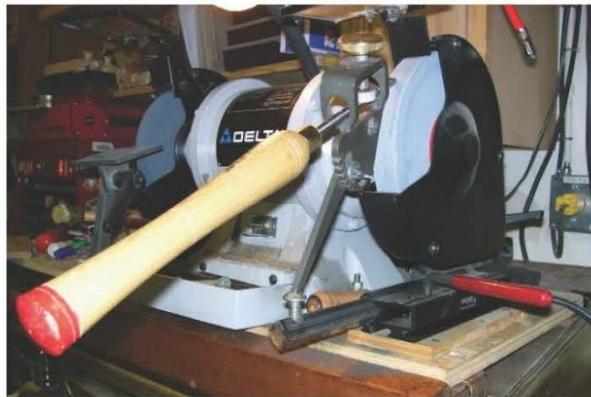
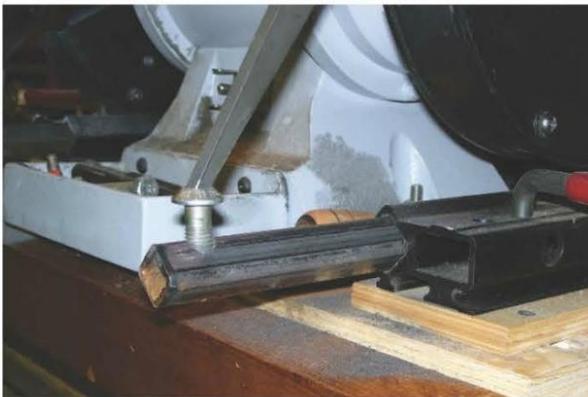
Tips:

Fingernail-Grind Jig

Using the fingernail jig with the V-notch rod is a balancing act—the bottom of the jig wants to move all around and I sometimes get faceted grinds. My solution was to use an 18" (46cm) length of 3/4 (19mm-) square tubing. Using a V block, I drilled a 5/16" (8mm) hole. I used a 5/16" cap-head bolt that uses an Allen wrench. I drilled out the hex socket with a 3/8" (10mm) drill bit. A friend tack-welded the bolt, but you may use JB Weld, or even a nut to hold the bolt. I then lightly ground the sharp edges on the leg of the fingernail jig. This allows smooth movement and better control to achieve a consistent grind.

As an alternative, you could turn the V-notch bar over and drill the hole there. That way you don't need to buy a new piece of steel. Mike Moore pointed that out when I sharpened his gouge, using my new adapter bar.

~ John Kaner, Anchorage, Alaska



Membership / Newsletter /Library News

By Beth Parham

Library

I may work on this the 25th of February in the afternoon. The Woodcrafters meet in the morning and the room would be open in the afternoon – if you might want to help me, please let me know. We can organize so this would go quickly and get the library back open.



Membership Matters

Types of Membership and annual pricing. See me at meetings if you want to join or have questions regarding membership. Also, remember that membership entitles you to a 10% discount from Klingspor on all purchases (except wood and things with a plug).



❖ Regular

▪ \$50/year –

- The following prorated price for yearly membership applies to new members.
 - After April 1st - \$45.00;
 - After July 1st - \$40.00;
 - After October 1st - \$55.00, which includes the following year.
- **If you do not renew by March 1st of any year, you must pay the full \$50 membership to "rejoin" in the calendar year per the by-laws.** This has not been done the last year but we will be enforcing this bylaw regulation going forward.

- ❖ Centurion \$100/year (paid to NCW Education Fund. Includes special nametag.)
- ❖ Lifetime \$600 one time paid to NCW Education Fund. Includes membership for life and special name tag
- ❖ Benefactor \$1,000 one-time paid to NCW Education Fund. Includes honorary membership in NCW (designed for businesses)

Website/On-line

Will be updating Facebook page with picture albums for Challenge and Gallery for all 2016 meetings. Website is still “a work in progress. Over the next few months, I will be updating and adding to our website – <http://www.ncwoodturners.com/>.

Newsletter

If you are currently getting the newsletter via mail and have an email, be sure to let me know of the email address. You will get the newsletter sooner and in full color; the mailed issues are in black and white and are always several days later getting to you than the online version.



Mentorship Information

If you are interested in learning new skills, or improving the skills you have, contact one of these NCW members:

Scott Caskey (Iron Station, NC)	704-735-2382	Edgar Ingram (Statesville, NC)	704-876-4576
Don Olsen (Morganton, NC)	704-530-6055	John Melius (Mooresville, NC)	704-995-7257

Additionally, if you are wanting to mentor and help new turners learn this art form we all love and are addicted to, please let me know if you want to be added to this Mentorship Information.

NEXT REGULAR MEETING:

February 11, 2017

WHEN: Second Saturday of each month
10:00 AM – 4:00 PM

LOCATION Klingspor's Woodworking Shop
856 21st Street Drive SE
Hickory, NC 28602

North Carolina Woodturners
c/o Beth Parham
2154 Frye Avenue
Hickory, NC 28602

