

Works Courtesy of Members of NC Woodturners

# North Carolina Woodturners Association

North Carolina WOODTURNERS

Journal of the North Carolina Woodturners Association

A Chapter of the American Association of Woodturners

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Website: [www.ncwoodturners.com](http://www.ncwoodturners.com)



## PRESIDENT'S MESSAGE

Newsletter 7 of 24.

I hope everyone is having a great start to summer. From the looks of the pictures, it looks like the June club meeting with Jerry demoing was a good time and learning experience.

This month's challenge project is turning acrylics. This can be a lot of fun. Use sharp tools, and if you are scraping, avoid heat buildup if possible. It is almost impossible to find all the little pieces after it pops and shatters.

For the July meeting we will be having a turn and learn; isn't that how most of us started turning. We saw someone turning and the bug bite you and now you are hooked. Also, this meeting is one of my favorites - clean out your shop, studio or basement. It is time to trade or sell those turning items that you bought and don't use or don't like to other club members. Ten dollars to the club will get you a table space. (No % of sales to club this year.)

I hope to see everyone on the second Saturday in July; until then turn something colorful out of acrylics and bring it to the next meeting.

*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.

## AAW NEW MEMBER SPECIAL

### 1) AAW 50% dues discount incentive for chapter members who are new AAW members will *END June 30*:

- Local chapter members *who have never been AAW members* will have the exclusive opportunity to become AAW members for one year for just \$30, a 50% reduction on the \$60 rate. Only AAW chapter members who have never been AAW members are eligible, and the special rate is available only during the exclusive sign up period ENDS June 30, 2017.
- Chapter members *may sign up* for the discounted AAW membership during the exclusive sign-up period at <http://www.woodturner.org/NewGenMembership> or may *call* the AAW home office at 877-595-9094 (toll free) Monday through Friday from 8:30 a.m., to 4:30 p.m. CST. [NOTE: you do this directly with AAW, not through club.]

## 2017 PRESENTERS/TOPICS

	Presenter	Topic / Demonstration
January	Sam McDowell	Design and Structural Problems
February	Scarlette Rouse	Three-winged box
March	Tom Denne	Segmenting – the ‘mystery’ revealed (Tom’s method)
April	Ric Erkes	Tips and Tricks (should be very enlightening).
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	Finishing and texturing
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	Michael McNeilly	Finials (and spirals), segmented Christmas ornaments; bird house ornaments
September	Scott Caskey	AM – Turning/Sharpening – various methods
	Beth Parham	PM – Pyrography – beginning information and more
October	Bob Baucom	AM-Lantern ornament turning
		PM-turning small bowl with “Ride the Rainbow” cut and texturing in afternoon
November		
December		<i>CHRISTMAS PARTY @ Market on Main, Hickory, NC</i>

## ITEMS FOR SALE

John French has a couple of big items for sale and can bring to July’s meeting. If interested in these items, please contact John directly. I have enclosed all information I have below. John is reorganizing his workshop. (Images are from internet, not of John’s exact piece of equipment.) If I remember correctly, these machines are on stands with rollers so they can be moved around, but confirm that with John! Call 704-821-3479.



Delta Scroll Saw, Cat#40-601

Asking \$300



Jet 6” Jointer Model JJ6

Asking \$250

## 2017 CHALLENGE PROJECTS

Project		Description & references
Jan	<i>Trembleur</i>	<a href="http://www.woodturningonline.com/Turning/Turning_projects.php?catid=63">http://www.woodturningonline.com/Turning/Turning_projects.php?catid=63</a>
Feb	<i>Spheres</i>	<a href="http://www.woodturningonline.com/Turning/Turning_projects.php?catid=71">http://www.woodturningonline.com/Turning/Turning_projects.php?catid=71</a>
Mar	<i>Eggs</i>	<a href="http://www.woodturningonline.com/Turning/Turning_projects.php?catid=35">http://www.woodturningonline.com/Turning/Turning_projects.php?catid=35</a>
April	<i>Natural edge Mushrooms</i>	<a href="http://www.woodturningonline.com/Turning/Turning_projects.php?catid=54">http://www.woodturningonline.com/Turning/Turning_projects.php?catid=54</a>
May	<i>Square edged bowls/platters</i>	<a href="http://www.instructables.com/id/A-Square-Bowl/">http://www.instructables.com/id/A-Square-Bowl/</a> <a href="https://www.youtube.com/watch?v=eXBTzDr3ylU">https://www.youtube.com/watch?v=eXBTzDr3ylU</a>
June	<i>Non-kit Letter openers</i>	<a href="http://www.woodturningonline.com/Turning/Turning_projects.php?catid=92">http://www.woodturningonline.com/Turning/Turning_projects.php?catid=92</a>
July	<i>Acrylics</i>	Turn something out of acrylic/or use Acrylics with your turning <a href="http://www.alumilite.com/">http://www.alumilite.com/</a>
Aug	<i>Copy it. (no bowls)</i>	Copy an object you have around the house or shop; bring both objects
Sept	<i>Miniatures</i>	<a href="http://www.woodturningonline.com/Turning/Turning_projects.php?catid=52">http://www.woodturningonline.com/Turning/Turning_projects.php?catid=52</a>
Oct	<i>Boxes</i>	<a href="http://www.woodturningonline.com/Turning/Turning_projects.php?catid=13">http://www.woodturningonline.com/Turning/Turning_projects.php?catid=13</a>
Nov	<i>Fruit</i>	<a href="http://www.woodturningonline.com/Turning/Turning_projects.php?catid=39">http://www.woodturningonline.com/Turning/Turning_projects.php?catid=39</a>
Dec	<i>Ornament Sway</i>	Bring one to party if your spouse wants to participate in the annual swap.

## JUNE PRESENTER – JERRY MEASIMER

Jerry Measimer was our demonstrator for our June meeting. He is a life-time member of the Concord club and is in demand as a demonstrator for many different clubs. His demonstration was on texturing, coloring and finishing your turnings. Jerry always gives a very entertaining and informative presentation with the emphasis on entertaining.

We were the beneficiaries of three weeks of experimentation with General Finishes woodturner's finish which is a water based finish. He uses Trans Tint dyes and likes having a centrifuge or spin look. He also uses a Deco Art Metallic Lustre wax finish available from Michaels, Hobby Lobby or AC Moore.

He began by mounting a 14-15 inch platter blank on a screw chuck. Using a bowl gouge he trued up the rim so that it was round. He then trued up the bottom with a push cut and, after truing it up, he trued up the top side using a pull cut. Returning to the back side, he made a mark 2-1/2 inches in from the edge as the demarcation point between the bottom and the rim of the platter. He made another mark that was 6 inches from the center in diameter. Using a Proxxon carving tool with a chain saw cutter which he rested on the tool rest, he made a concave cut between the lines. Then using a Dremel bit in a drill, he made other marks in embellishing the piece. He then sprayed black lacquer on the part that he had embellished. After spraying he realized that he had just done this to the bottom rather than the top. He used a heat gun to dry the lacquer. He then cut a recess in the back with a Bedan tool and a spindle gouge so that it would fit on the jaws of the chuck when he turned it around to turn the top. Before turning the blank around to turn the top he created a curve toward the outer edge of the blank.

He sands 600 using 2-inch sanding disks on a blue foam sanding pad by Klingspor. He then puts General Finishes woodturner's finish on with a foam brush and dries it with a heat gun. After drying, he using 220 sandpaper to smooth the grain which has been raised by the finish. He then applies a second coat of finish and then uses 320 sandpaper. He applies a total of 5-6 coats of woodturner's finish. He does all of this on the lathe. The finish dries very quickly so that it doesn't take much time between coats of finish.

He turned the blank around and mounted it on the jaws of the chuck into the recess and tightened it up with the expansion mode of the jaws. He trued up the blank and made the same marks as before on the bottom. He then hollowed out the center of the blank getting rid of the hole used to mount the blank on the screw chuck. He then textured the front just like he had done the back.

After lunch, after cleaning up his turning, he began layering his dyes. He uses denatured alcohol to thin his TransTint dye. Pouring the dyes into cutoff styrofoam cups, he used artists paint brushes to apply the dye to the platter blank. He dabs it on rather than painting it onto the raw wood with no other finish on it. He used yellow, blue and green dye. He applied yellow first, then blue and finally green in blotchy area. Then he basically covered the other colors with green always dabbing it on. After drying it with the heat gun, he burnished it with 600 Abranet. Then he applied the Woodturner's finish. He applied 5-6 coats using 600 grit Abranet only between the first two coats. After the dye dried, he buffed the center of the platter with the Beale bluffing system using only the Tripoli and White Diamond wheels. This really enhanced the piece and put sheen on the color.

It was then that he applied the dye to create the spin look. He applied a mixture of purple tinted shellac with an artist's paint brush with the lathe turning at about 1000 rpms. After it dries for a couple of days, it can be buffed with the Beale system and he used Renaissance wax. He then applied the tinted wax to the embellished part of the platter creating a red accent.



We had many more members stay for the afternoon session than we normally do which speaks to the interest in the topic and the quality of the demonstration. Another very good job, Jerry.

## JULY MEETING – LEARN ‘N TURN/TOOL SELL

July is scheduled as a “Learn ‘N Turn” for those that may want help learning something new or improving a skill as well as a “Club Sale” where members can sell (pay \$10/table) tools, wood or other turning related items that they may have duplicates of in their shop or a tool they don’t use for whatever reason. This is a great way for new turners to get items as well as a way for club members to tidy up the shop all at the same time.

## NC WOODTURNERS SYMPOSIUM

*By Ric Erkes*

This month I wanted to talk a little bit about the Symposium demonstrators, but you really have to go to the website and click on the demonstrator links yourself. These folks all have impressive resumes and portfolios. Topics will cover the basics to get a new turner started with bowls or spindles, progressing through carvings, embellishments, coloring, pyrography and more, and then ending up with demos on those kinds of turnings where you ask yourself, "How do you turn that?"

The rotation schedule is posted on the website and I recommend that you look at the demonstrators personal website to get a feel for what they do, decide what or who you would like to see and then build your own schedule to optimize your experience. If you want to take your turning to a new level or just be wowed there are plenty of choices among the seven simultaneous demonstrations in the nine different time slots.

Once again, the Symposium will be Friday to Sunday, Nov 3-5 at the Greensboro Coliseum and the Website is, [www.northcarolinawoodturning.com](http://www.northcarolinawoodturning.com).

## MEMBERSHIP/NEWSLETTER/LIBRARY NEWS

By Beth Parham

### LIBRARY

Library is coming along; August is a targeted date for having it open to check out even if everything is not 100% organized with the restructuring of our cabinet and rearranging of the DVDs and/or books. DVDs are in pretty good shape. Some have been found that don't play well or even maybe missing but these will be ready to check out for sure by August meeting. I am working on an updated listing of DVDs and books to distribute to the membership as well as an electronic version available on the website. Target for paper version is August as well.

Let me know if there are any new DVDs or books that you may be aware of that would be an asset to the library and I will work at updating materials.

### 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

I am working on updating the website but that's a major task and I will not have time to focus on that until after our Artists in Residence week (July 13-18) in Blowing Rock (Edgewood Cottage). I will be updating and adding to our website – <http://www.ncwoodturners.com/>. I want to generate an online gallery that will “slideshow” challenge and especially gallery items each month. Any suggestions of things you'd like included in our website would be welcomed.

### NEWSLETTER

If you fail to get your newsletter (via mail or email), let me know at the meeting or contact me. Sometimes emails change and I don't get the notification from you and sometimes, crazy computers “gremlins” change something or drop off something – got to love hackers! (NOT!!!)

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.

### MEMBERSHIP DIRECTORY

Membership directory is being updated as well – no photos this time around. This will be in print and available at August meeting. I will not be posting this information on the website as there are individuals that do not want that information accessible electronically and I fully understand that.

Klingspor has the updated membership list for store discount purposes. I am also working on getting “membership cards” that can be shown in the event new or renewed memberships don't get “officially” sent to KWS before you are ready to purchase.



## TIPS AND INFORMATION

### SEGMENT PRO

(courtesy of <https://www.woodturningonline.com/>)

Woodturner PRO has announced a new product called Segment PRO. It is a completely new piece of software for designing segmented vessels. The software uses 3D technology to allow users to design simple or complex segmented vessels in a matter of minutes.

Segment PRO was created so that beginner segmented turners can start designing vessels right away using the 150+ sample vessel shapes. All you have to do is to modify the vessel height and the software automatically creates the design for you. You can then see this design in three different formats: Painted Segment, Feature Ring or Tornado-style vessels. So, one design gives you three different techniques. You can then print out the Summary Sheet and go into the shop to start making the vessel or you can customize it to your liking.



Advanced users will be able to take advantage of all the new features which will make designing vessels faster and easier. And being able to take one design and use it in three different formats should be a big boost to productivity.

Segment PRO is available stand-alone or as a software suite containing all the Woodturner PRO products. When you download the software, it starts a free 30-day trial period. This way you can test out the software before purchasing it.

The price of Segment PRO is \$79 (or \$139 if purchased as a suite of all four programs from Woodturner PRO – Segment PRO, Woodturner PRO, Lamination PRO, and Stomper). For more information or to order, <http://www.woodturnerpro.com/>

### GETTING A GRIP ON FOUR-JAW LATHE CHUCKS

(courtesy of <http://www.woodmagazine.com/woodworking-tips/techniques/woodturning/four-jaw-lathe-chucks>) – Article by Kip Christensen and Rex Burningham

For more experienced turners, this is probably knowledge you already possess but for new turners not familiar with all the language used in our craft, I thought this was useful information (note from editor ☺)

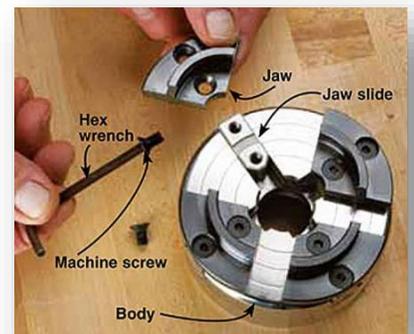
#### “Four-Jaw Lathe Chuck

With prices ranging from about \$35 up to \$280, you're probably asking yourself why you should buy a four-jaw chuck for your lathe. Here are some of the best reasons:

- Chucks provide quick, accurate, and positive centering of bowl blanks and standard turning squares.
- There's no need to glue a waste block to your turning blank or give up bowl-blank thickness to accommodate the screws needed to fasten it to a faceplate.
- When using a chuck to turn a bowl from green stock, you can rough it out, remove it from the lathe, and then later remount it with greater ease and convenience than with faceplate mounting.
- Accessory chuck jaws are available to hold work as small as a ¼ "-diameter tenon on a miniature vessel and as large as the rim of an 18"-diameter platter. You can turn a bowl and finish it inside and out with little or no trace of how it was held on the lathe.

#### How a chuck works

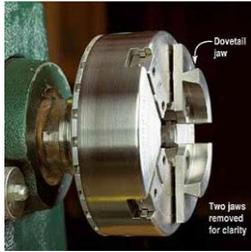
A chuck consists of a body, jaw slides, and jaws, as shown *right*. Internal spiral gearing moves all four jaws simultaneously, keeping them equidistant from the center of the chuck body. The jaws operate with twin levers or a single key. Lever action requires either the simultaneous use of both hands, or temporarily locking the lathe spindle to adjust the chuck with one lever. Single-key chucks offer the advantage of one-hand operation without the necessity of locking the lathe spindle. One-hand tightening or loosening leaves the other hand free to control stock when mounting it or a finished piece when removing it from the chuck.



The chuck jaws attach to the jaw slides with machine screws, allowing use of a wide variety of specialized accessory jaws.

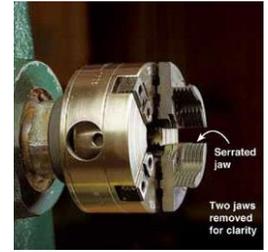
## Jaw Design

There are two basic jaw designs, dovetail and serrated, as shown below. Most jaws for Vicmarc and Axminster chucks are of the dovetail design. The flanged SuperNova jaws are a variation of this design. Serrated jaws are most common on Oneway chucks.



Dovetail jaws (*left*) usually leave minimal or no marking on the finished vessel, reducing the need to remount it to remove any marks.

Serrated jaws (*right*) have great holding power, particularly when gripping end-grain stock, but leave marks that must be removed.



## How a chuck grips

Chuck jaws either contract around a turned spigot (round tenon) or expand into a hollowed-out recess. In contracting mode, the jaws commonly supplied with chucks grip spigots from 1½" to 3" in diameter. These same jaws expand into turned recesses from 2" to 3½" in diameter.

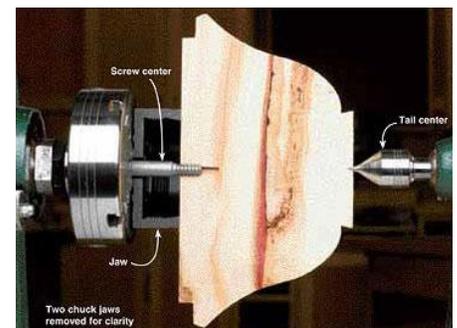
Because chuck jaws form a circle when completely closed, they make continuous contact when contracting around a spigot or expanding into a recess that is just slightly larger than the diameter of the circle, as shown *below*. This provides the greatest holding power and safest operation. As the jaws approach their maximum open position they make only point contact with the workpiece, as shown *below*. Gripping only at these points (eight in contracting mode, or four in expanding mode) is less secure and risks marring the wood. Manufacturers offer accessory jaws to cover a wide range of gripping diameters.

When turning, be careful of chuck jaws adjusted near their maximum diameter. The farther open the jaws, the more they extend beyond the chuck body, and if touched, the more likely they are to cause injury.

## Turning a bowl with a four-jaw chuck

### Start on the outside

For mounting side-grain bowl blanks, many chucks come with a screw center. To use this center, install it in the chuck by gripping it with the jaws. Drill a hole equal in diameter to the root of the screw and slightly deeper than its length, centered on the top face of the blank. Then thread the blank onto the screw. Engage the lathe tail center for additional support while turning the rough shape of the bowl. Now turn the outside of the bowl, shaping its bottom to be held by the chuck jaws, as shown in the photo. Screw-center mounting allows for easy removal and remounting of the blank while maintaining its centered position.



With its exterior shaped, this partially formed bowl was cut in half to show how the screw center secures it to the chuck

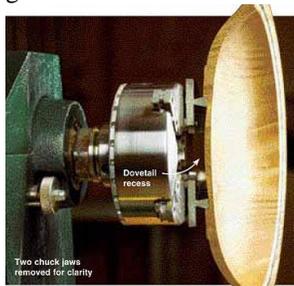
### Shape the bottom

When shaping the outside of a bowl, form its bottom to fit your chuck jaws so you can reverse the blank, grip it with the chuck, and form the inside. For contracting dovetail jaws, form a dovetail spigot as shown *below*. Cut the inside corner where the spigot meets the bowl body crisp and clean to provide a positive gripping corner for the chuck jaws. Leave a flat bearing surface for the jaw ends. Because the jaws pull in on the spigot as well as squeezing it, make the spigot slightly shorter than the jaw depth, so it does not bottom out. Sand and finish as much of the outside of the bowl as possible.

The same jaws that contract onto a spigot also will expand into a recess hollowed out in the bottom of a bowl, as shown *below*. When planning the shape of your bowl, leave extra thickness in its bottom to accommodate this recess. Make it about ⅛ - ¼" deep, cleanly

cut, and with its edge following the shape of the jaws. Leave sufficient wood around the recess to support the outward force exerted by the expanding jaws. Gripping the bowl in this manner allows you to completely form the outside, including its bottom. With the outside of the bowl formed, sand it and apply a finish.

Generally speaking, contracting onto a spigot provides the greatest holding power. However, for turnings of large diameter but shallow depth, such as a large platter, expanding into a recess gives better results. Regardless of how the chuck holds the workpiece, be sure to periodically check its tightness.



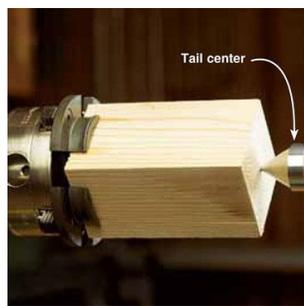
Dovetail jaws expanding into a recess: When forming a recess in the bottom of a bowl, match the angle of the inside rim of the recess to the angle of the jaws.

### Back to the bottom

For a bowl gripped by a spigot, reverse-chuck it, gripping the rim with a shop-made jam chuck or accessory adjustable bowl jaws, as shown above. Then turn away the spigot, and form a slight recess in the bottom of the bowl. Whether using a jam chuck or a four-jaw chuck fitted with bowl jaws, support the workpiece with the tail center for as long as possible. Finish-sand the turned area, and apply a finish.

Although each manufacturer has a different name for this chuck accessory, adjustable bowl jaws all work the same. Resilient grippers hold the bowl rim to the chuck jaws.

### A chuck also grips Square stock



Chucks also can grip most common sizes of turning squares. Because square stock cannot be held as securely as round stock, hold it with the chuck and support it with a tail center, as shown. Then turn a round spigot on the tailstock end. Now flip the square end for end, and grip the spigot in the chuck, once again supporting it with the tail center. When you cut square stock for mounting in a chuck, make accuracy a priority; out-of-square stock is difficult to grip securely. The slightly rounded jaw corners of Oneway chucks offer the best design for gripping square stock.”

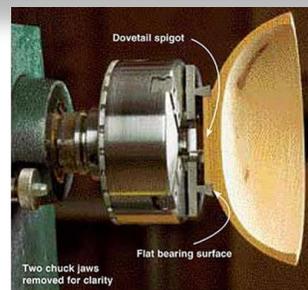
### Sources - Woodturning chucks.

Packard Woodworks. Call 800/683-8876, or go to [packardwoodworks.com](http://packardwoodworks.com).

Grizzly Industrial. Call 800/523-4777, or go to [grizzly.com](http://grizzly.com).

Penn State Industries. Call 800/377-7297, or go to [pennstateind.com](http://pennstateind.com).

Craft Supplies, USA. Call 800/551-8876, or go to [woodturnerscatalog.com](http://woodturnerscatalog.com).



Dovetail jaws contracting around a spigot: When forming a spigot at the bottom of a bowl, match the angle of the outside edge of the spigot to the angle of the jaws.

### Now form the inside

With the outside of the bowl complete, remove it from the screw center, and remove the screw center from the chuck. To hollow the inside of the bowl, remount it as shown. When turning the inside, take care not to catch the tool. Chucks do not hold turning stock as securely as a standard faceplate where several screws secure the blank. A bad catch can dislodge the bowl from the chuck. Once the final inside shape and wall thickness of the bowl have been achieved, sand it and apply the finish. For a bowl gripped in a recess, simply remove it from the chuck.



## 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.

## ARTISTS IN RESIDENCE – BLOWING ROCK, NC

Artists in Residence at the Edgewood Cottage, Blowing Rock, NC, - a great day trip for this summer as 6 of the 11 artists are from Catawba County. Gene and I are lucky to have been juried into this group and hop you will come visit us between 10 AM and 6 PM on Thursday, July 13 thru Tuesday, July 18. We will be there and will be working on pieces as well as items on display. For more information, see

<http://www.blowingrockhistoricalsociety.com/artists-in-residence/>



## CHALLENGE PROJECT – ACRYLICS

The purpose of the Challenge Project is to help us all try something new, possibly, and step out of our comfort zones.

Dorothy and Ralph Green – Kudos to you both as you enter items each month!!!!!!



Dorothy Green - Zebrawood



Ralph Green - Purpleheart

## GALLERY



Ric Erkes



Edgar Ingram -  
Mahogany, Paduck & Maple



Glenn Weber -  
Maple



Jerry Ostrander –  
Maple



Edgar Ingram –  
Cherry Burl



Ken Stovesand -  
Goblets



Tim Colvin



Ralph Green -  
Bottle Stoppers



Tom Denne



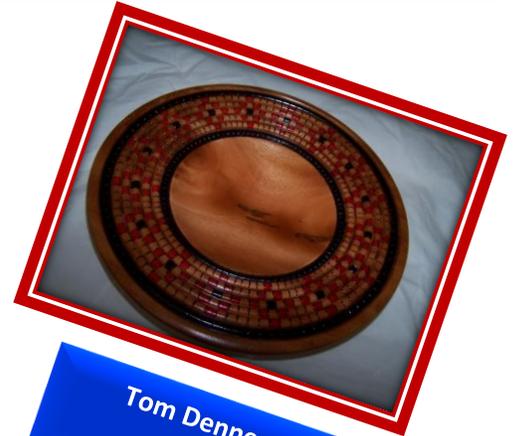
Gil Millsaps –  
Cherry Burl Vase



Gil Millsaps –  
Cherry Burl Vase



Tom Denne



Tom Denne



Bob Moffett –  
Oak Natural Edge Bowl

**2017 OFFICERS AND BOARD OF DIRECTORS**

<b>Officers of NC Woodturners – 2016</b>		
<b>President</b>	Tim Simmons	(828) 726-1599
<b>VP/Program Chair</b>	Jerry Long	(704) 437-2188
<b>Treasurer</b>	Bruce Whipple	(828) 584-0890
<b>Secretary/Journal &amp; Website Editor</b>	Beth Parham	(828) 439-9576
<b>Board of Directors / NC Woodturners</b>		
<b>Last year of 3-year term (thru 2017)</b>	Gene Parham	(828) 294-4001
	Dan Greaser	(704) 325-0222
<b>2nd year of 3-year term (thru 2018)</b>	Bob Tate	(704) 735-2382
	Dorothy Green	(704) 692-4278
<b>1st year of 3-year term: (thru 2019)</b>	Scott Caskey	(704) 735-2382
	Ralph Green	(704) 692-4278

## NEXT REGULAR MEETING:

July 8, 2017

WHEN: Second Saturday of each month

10:00 AM – 4:00 PM

### LOCATION Klingspor's Woodworking Shop

856 21<sup>st</sup> Street Drive SE

Hickory, NC 28602

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

