

NEWSLETTER

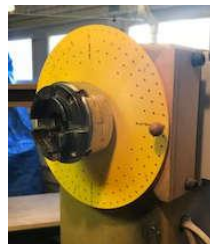


THE JIGS ARE UP

A collection of jigs and special procedures are presented by 6 of our own who are **“In The Know”**

Dan Luttrell

1. Dan showed how an aftermarket indexing wheel from Iron Fire can increase the capability of your lathe over the system available from the manufacturer. The plastic index wheel is bored to fit the headshaft of your particular lathe and is held in place by your chuck (see left photo). This disk has four rows of indexing, with 60, 48, 36, and 14 holes each.



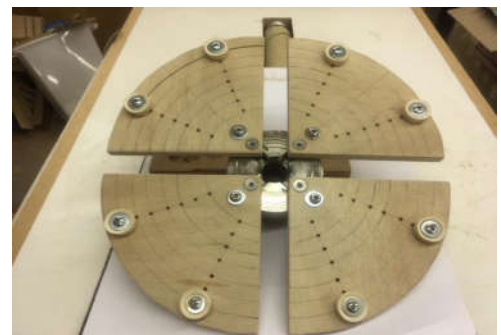
You can fabricate a stationary bracket (center photo) to hold the index wheel using a pin made from a nail with a turned wooden head (right photo). Mount the bracket to suit your situation. Dan made his from 1/2" plywood and used the two auxiliary bolt holes in the back of the headstock for mounting. The indexing wheels are available from ironfirellc.com. Go to: <http://www.flutemasters.com/iron-fire-index-wheels>

2. Dan also showed how a homemade string steady rest can be used to support very thin spindles that you may encounter when turning long finials or icicles, and trembleurs. You can use one, or as many as you need. String steadies are very easy to fabricate from scraps from around the shop, but they can be made extremely complex as you can see with an Internet search. Wrap the string around your spindle and back to each of four stationary points – use nails. Due to friction, an excessively tight wrap will burn the wood.



Jim Zorn      Make a Set of Cole Jaws

Lots of ways to hold things, such as a bowl, on a lathe to turn the bottom – disk with sandpaper, jam chuck, vacuum chuck, Longworth chuck, and probably others. Several years ago, while cruising the Internet, I came across plans to build a Cole Jaws chuck. This has worked well for me, given the limited number of times I need to use something like this.



There are a number of videos on the Internet that explain how to make a Cole Jaws or, if interested, a Longworth Chuck. Both are similar. Here is an outline of the steps I used to make my Cole Jaws. You will need a 4-jaw chuck, a piece of 1/2" plywood, and some rubber "bumpers". Total cost, not including the chuck, will be \$10 or so.

1. Determine the maximum radius for the Cole Jaws. I mounted my chuck, opened it fully, and measured from the inner set of screws down to the ways. I subtracted 1/2" as a safety factor. For my lathe, it was 5-1/2".
2. Cut four square pieces of plywood, using the dimension determined in step 1.
3. Draw a diagonal line between 2 opposing corners of each piece.
4. Remove one of the jaws from your 4-jaw chuck and carefully place it on one end of the line just drawn, with the edges of the jaw even with the edges of the plywood. Mark the location for the two holes that will be used to secure the plywood to the chuck.
5. Take the plywood to your drill press or use a hand drill to make holes at the marked locations. You can use this piece to mark the other 3 pieces of plywood or make a template and mark all.
6. Use a compass to draw an arc from the corner, where the holes are, between the two adjacent corners and cut that portion away.
7. Place marks on the curved portion of each piece, midway between the edge and the diagonal line drawn in step 3. This will be used to position the bumpers and ensures they are evenly spaced around the circumference of the Cole jaws.
8. Remove the remaining jaws from your chuck and mount the 4 pieces of plywood, using the screws that were securing the jaws. If you use thicker plywood, you may have to buy longer machine screws to make sure they hold the plywood securely.
9. Mount the Cole jaws on your lathe and, beginning at the outside edge, place marks (I used 1/2") incrementally toward the center of the chuck.
10. Place a pencil at the first mark and manually spin the chuck to draw a circle. Repeat for the other marks. The intersection of these circles and where you drew the lines in Step 7 is where you will drill the holes to hold the bumpers.
11. Remove the Cole Jaws from the lathe and drill 8 holes per ring for the intersection locations you want to use. Attach the bumpers with wood screws.
12. To use the chuck, place the bowl or other items against the jaws to see where the bumpers need to be to tighten the item in the jaws. Move the bumpers, if needed, and use your 4-jaw chuck wrench to tighten the rubber bumpers against the bowl.
13. Turn the speed down on the lathe (if possible), turn on the lathe, and adjust the speed to what's comfortable for you. Be careful! There is a large item spinning very close to where your tool and hands will be!

This technique was developed by John Beaver and demonstrated at the Segmented Woodturners Symposium in San Antonio, TX.

1st Step: Make a circle cutting jig like the bottom plate. Just a solid board with a slot holder on the bottom and holes for different radius cuts.

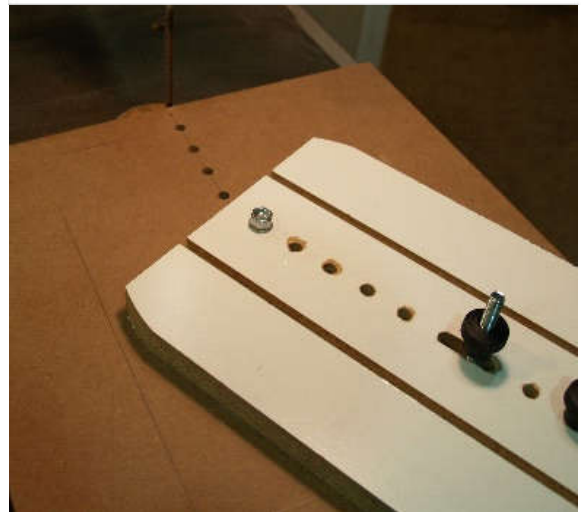
2nd Step is to make the holder/runner, the white looking bottom board in the picture. You will need at least one hole for the radius, see the bolt at the end of the runner section! Then toward the rear make two slotted holes to hold the next section on. I made slots on the bottom and used slotted T-bolts, so not to interfere with rotating the two plates.

Next you need the right-angled part to hold the chuck and bowl. It needs to be tall enough to allow any size bowl and the large slit down the middle just wide enough for the 1.25 chuck holder, see picture at right.

You should turn a bowl to the finished size on the interior and the outside to the largest diameter of the wave you want. If it is a 6 inch bowl a good radius is also 6 inches. Line up the bandsaw blade to the side of the bowl at the lowest point of the wave and cut the top most part of the wave. Then move the jig in (remember the slotted holes) about ¼ inch and cut the lower part of the wave. Set the wave aside (maybe hand sand it) and put the bowl back together (without the wave ring) and turn the outside down to the finish diameter. Take apart again, stack and glue with wave back in place, force it together with some means. It could be clamped/assembled similar to that of a stack of segmented rings.



THE JIG READY TO CUT ON THE BANDSAW



THE HOLDER/RUNNER



CHUCK MOUNTING HARDWARE



RUNNER & CHUCK HOLDER

Here is a bowl about to be cut. Always use a blade with as many teeth as you can buy and turn the bowl through the blade as slow as possible.

What I have skipped is John Beaver's method of making sure the wave ring and the top part of the bowl get re-aligned exactly. Maybe that's the topic for another day.



A BOWL MOUNTED ON BAND SAW ABOUT TO BE CUT



BOB SILKSENSEN'S BOWL



A BOWL BY JOHN BEAVER

## Barbara Dill

A fun multi axis project using a simple jig: First, turn a spindle with a large bead on one end. I usually use green or wet wood. The spindle part of the handle can be turned on more than one axis if you want. Then make a chuck using green wood. Turn a tenon on one end so the chuck can be held in a 4-jaw scroll chuck. Then turn a half sphere that will hold the sphere part of the spindle. Make relief cuts using a band saw to allow for some flexibility and then jam the sphere into the chuck. Now the ladle can be hollowed out fairly safely! I use a very slow speed when doing this. Enjoy!!



SOME FINISHED LADLES



THE SPINDLE WITH A MULTI-CENTERED HANDLE



MOUNTED ON CHUCK - ROTATION IS VERY LOW

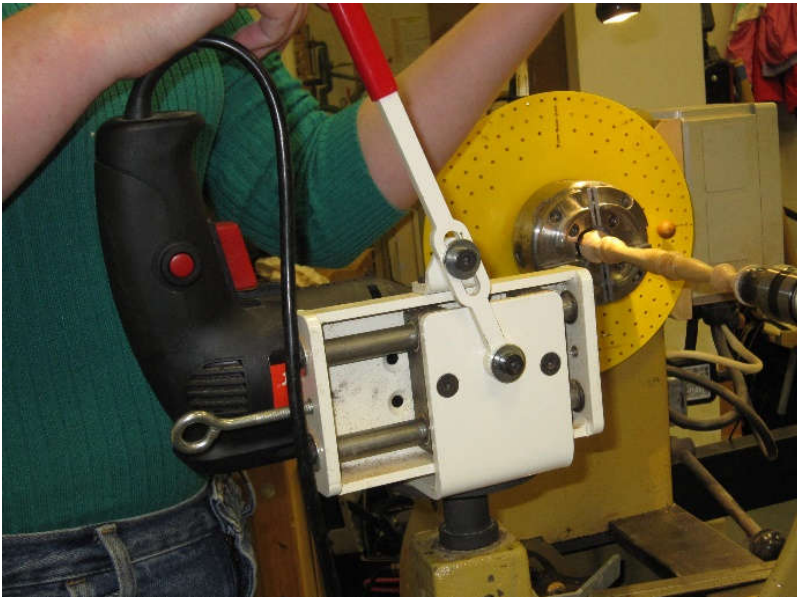


BENDING THE HANDLE



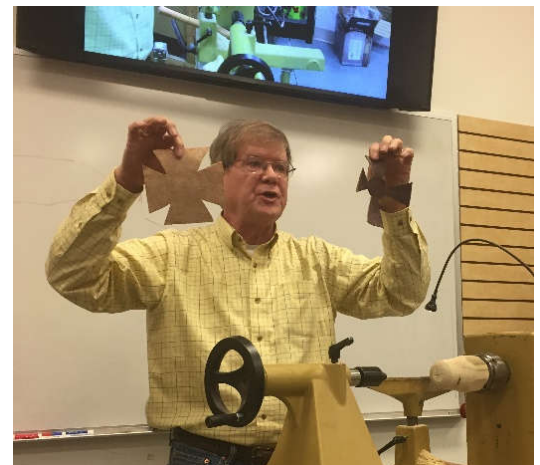
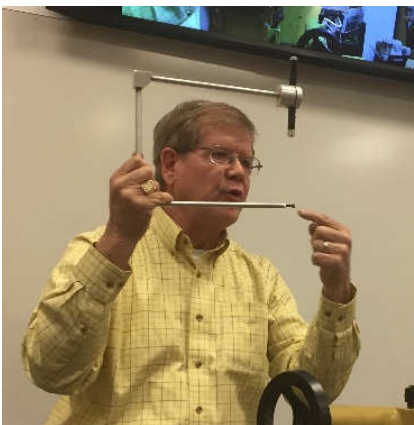
## Megan Shogren

Using a rig that holds a drill in the toolrest holder of the lathe banjo, very accurately spaced holes (with the aid of an indexing wheel) are applied to a turning. Fairly large or quite small turnings and of course various size drill bits. She showed her methodology for making holes in a lathe-held object so that precise locations can allow follow-up work off the lathe. Her jig (the "Drill Wizard" by One Way) holds an electric drill and can be used to hold other tools, i.e., a slot cutter.



## Ray Deyo

A simple depth gauge, Special chucks are described that holds a myriad of turnings - mostly to be finished presentable.



Ray Deyo showed a series of jigs he uses to do a variety of tasks, including a lazer pointing flashlight for measuring the thickness of a hollow form, the depth of the bowl, etc. His presentation of how to hold Jam Chucks followed; it covered the ground of how to hold an object. He went through each in detail quickly and pointed out the uses, advantages, the do's and don'ts and how to adjust each.

- \* Each must be made exactly for the task
- \* Each should employ the tailstock when possible and keep the speed down!
- \* Sharp tools are essential
- \* Take good care of the work-piece when using jam chucks so that the piece does not get damaged.

## Ray's Notes:

A jam chuck is one piece of material used to hold another on the lathe through pressure, friction or support. It can be used to correct an error identified after the actual turning is removed from the lathe; help create an unusual shape or assist in the completion of a task when an otherwise mechanical device (i.e.: chuck) will not accommodate the task.

Jam chucks are typically made of wood but can be made of any material, are each specifically tailored to a given turning and can be applied either inside or outside depending on the shape being held. While face or cross grain chucks can be used, typically a jam chuck made of face grain material is easier to achieve a precise diameter or shape and will hold the best.

There are a few cautions when creating and using jam chucks:

Use extreme care when turning an item on a jam chuck;

Turn slower;

Stabilize items being held by placing them against a flat surface as part of the jam chuck (when appropriate);

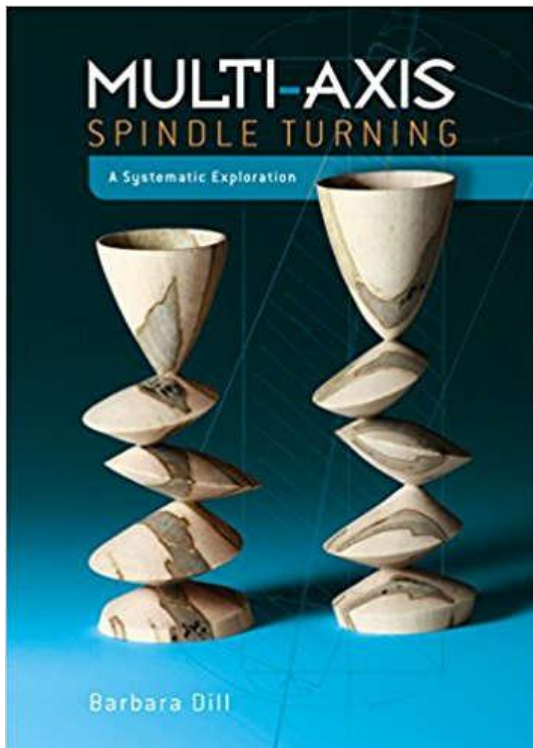
Always use sharp tools to avoid catches, vibration or rough turning. All cuts should be easily performed;

Jam chucks need to be a precise fit, tailored to a specific object being held. Sloppiness can cause separation of the chuck and item being held and making one too tight can crack the piece if thin;

Place a paper towel or piece of leather (rough side out) between the jam chuck and item being held to avoid scoring your turning should a catch occur.

Comfort with jam chucks will help you accomplish a desired look and expand your turning ability.

## Also: by Barbara Dill



Master the art of multi-axis spindle turning! This book offers a strategy for understanding multi-axis turning and the many options available to create unique forms. Dill, a self-professed "experimental turner," takes readers step by step through this complex area of turning. Working in multiple axes on a spindle can be confusing, but as Dill teaches the "hows" of turning spindles as systematic building blocks for future work, turners can finally make this skill their own. Hundreds of photos and diagrams offer detailed guidance, and explain the variables—axis placement, profile, orientation of the new axis to the center axis, and so on—and how they apply to each "quadrant" of multi-axis work. Split and thinned turning methods, planning tips, tricks of the trade, and a three-sided goblet project help you succeed. Concepts come to life as Dill shows examples of not only her work, but the work of other expert turners.

<https://www.amazon.com/Multi-Axis-Spindle-Turning-Systematic-Exploration/dp/0764355341>

# SHOW AND TELL



ROBERT GUNDEL, MAPLE & BOCOTE FINIAL,  
DANISH OIL BUFFED AND WAXED, 6 X 9



BOB MARCHESE, AMBROSIA MAPLE,  
MINERAL OIL BUFFED, 5½ X 2½



KATHERINE HARRIS, UNKNOWN  
SPECIES 3¼ X 4



BARBARA DILL, HOLLY, LACQUER, 3" SQUARE, MULTI-  
AXIS TURNING



CECIL BURRETT, VARIOUS WOODS, FINISHES AND SIZES,  
4 TO 3, HOLIDAY ORNAMENTS



DAN LUTTRELL, FRONT YARD MAPLE, CARNAUBA  
WAX, 14 X 4 BOWL



GEORGIA WOOD, CHERRY, WALNUT  
OIL, 5½ X 2½, MY FIRST BOWL



Royal Wood, Mulberry, 13 X 5





**BILL KING, OAK & ALUMINUM,  
LACQUER, 6 X 10¼**



**Ron Bishop, Honey Locust,  
Liberon Finish, 4 X 7**



**Dick Hines, Holly, Gesso, 4 X 6**



**BILL JENKINS, RED OAK SEAT - MAPLE LEGS, MILK PAINT,  
20 X 37½**



**JIM BUMPAS, AMBROSIA MAPLE, WIPE ON  
POLY, 14 X 20, NOT COMPLETED**



**GEORGIA WOOD, HOME MADE CASTINGS,  
WET SAND TO 12000, HUT GLOSS AUSSIE OIL**



**JERRY FISHER, MAPLE, CHERRY &  
WALNUT, OIL FINISH, 3 X 10**



**CHUCK, HORTON, MULBERRY,  
WIPE ON POLY, 6 X 3, VASE**



RON BISHOP, MAPLE, UNFINISHED, 3 X 3,  
BASKET WEAVE EXPERIMENT



RON BISHOP, SPALTED HONEY LOCUST, LIBERON  
FINISH, 6 X 7½



JIM ZORN, MAPLE, WALNUT &  
CHERRY, GENERAL FINISHES, 4 X 3  
..



BOB SILKENSEN, SYCAMORE, VARNISH, 7",  
PAINTED EDGE



MAC DERRY, WALNUT/MAPLE,  
SPRAY LACQUER, A THANK YOU GIFT



DAVID STERLING, PURPLE HEART,  
1 COAT OF SANDING SEALER,  
3 X 3



BILL JENKINS, CHERRY TOP, POLYURETHANE,  
12 X 1½, BOTTOM IS A FRIEND'S ANTIQUE



JARED PARKER, OAK, HIGH  
FRICTION POLISH, 5"



ED WOOD, CORIAN AND DEER HORN,  
POLISHED

## FROM OUR PRESIDENT

Last month I had the pleasure of attending a lecture by a futurist. This guy is buddy-buddy with the likes of Elon Musk, Jeff Bezos and other successful 21<sup>st</sup> century industrialists who are shaping our future with innovations such as robotics, self-driving cars, Uber helicopters, solar power, and medical advances that promise not only to extend the average lifespan but keep us healthy and sharp enough to enjoy it. He talked about the advances in computers where we heard that their capacity doubles every 2 years and has done so for the last 50 while the price keeps dropping. As my technical brain kept digesting this, my hobby brain was asking why do lathe and tool prices keep rising and why am I still skew challenged. Apparently, I'm still running the same software on the same hardware. I'm not sure I can do anything about the prices, but I've since added the skew to my bucket list. It's been there before but this time I may be more serious. Maybe.

I had planned to write a little about the near-term future as well and how I was anxious for spring to arrive when mother nature blessed us with some days warm enough to venture out into my shop. While it may be nice to think about how to travel from Richmond to Washington in 13 minutes, it sure is more relaxing to spin some wood on the lathe and make some chips. At this point I didn't care how much a new lathe costs but sure wish they would hurry up and find the fountain of youth. I also took a peek into the paper bags where I was storing my rough turned bowls from spalted maple. The turning gods must be looking after me because the moisture level was low and no evidence of cracks. Now to remember what I was going to make from them.

The future for the club also looks bright this year. Our competition and exhibition is right around the corner in April, so don't forget to bring in the best of your turnings. There are 3 classes from beginner to expert and 7 categories to choose from in each class. The team is working hard to put on some great demos in addition to the display. Later in the year we will likely return to teach some campers and in the fall there's the State Fair and Makerfest. As our club grows and gets more publicity I'm sure other opportunities will come up. Stay tuned.

Happy and safe turning,

Bruce

## Richmond Penturners – March 2018

Larry Jones led this month's meeting with an excellent demonstration of casting Alumilite Resin into pen blanks. Larry first talked about and compared the 3 generic types of casting resins which are polyurethane (Alumilite), polyester, and epoxy. He uses the Alumilite Clear version with dyes specifically formulated for use with that resin. Although a little more expensive and requires the use of a pressure pot to minimize bubble formation, Alumilite is easy to use and offers much faster cure times than the other types. Working time is about 7 minutes and demolding can be done in about 45 minutes. Larry demonstrated a 3 color red, white and blue blank and a hybrid of resin and stabilized grape vine.



CAREFULLY WEIGHING PART A AND B



POURING COLORS INTO SINGLE BLANK MOLD



PREPARING TO POUR INTO MOLD WITH GRAPEVINE



RACK TO HOLD MOLDS BEFORE PLACING IN PRESSURE POT

## MEETING NOTES OF 15 FEB 2018

President Bruce opened the meeting by taking note of the massive change to the venue brought about by the installation of a new audio-visual system for presenting demonstrations and the subsequent reorientation of the room to allow for more room for chairs. Bruce thanks all who came to help do all the work and the results are most impressive. The membership is over 100 and growing every month and it may be time that we purchase additional chairs. He then went through a "photo review" of the work effort with some humorous pictures of several members.

1. The results of the silent auction for the two old mini-lathes were announced; Ronald Thompson bid of \$130 and Steve Schwartz bid of \$101.
  2. The effort to amend the by-laws was passed by unanimous acclaim.
  3. A reminder of the Quarterly Challenge for next month's meeting was posted as an object of 3 different woods/materials.
  4. Bruce asked Ray Deyo to take up the task of presenting a consolidated write-up for the Web Page of the current AAW insurance policy coverage. No deadline was established.
  5. Bruce announced that Barbra Dill has a book coming out and it will be available thru Amazon in June. The title is "*Multi-Axis Spindle Turning: A Systematic Exploration.*" We all applauded her efforts and offered congratulations.
  6. The annual competition and Exhibition will take place on 21 April. It will run, as usual, from novice to experts and the rules and forms are available on the website. HURRY to get into this great competition/exhibition.
  7. Name tags, the fancy wood ones should be ordered - -\$3.50
- Show and Tell took place and the winning ticket was drawn by - - The winner - Jim Zorn!  
The demonstrations were a series of items which are jigs of one sort or another. (Provided by Phil Duffy)

## WOODTURNING COMPETITION AND EXHIBITION

The Competition and Exhibition is scheduled for Saturday, April 21, 2018. The categories, classes, and rules are all posted on the web site. **Entries can be submitted now.** Bring entries for both the Competition and Exhibition to our meeting and submit them before you leave. All entries for the Competition must be submitted by the end our meeting in April. Entries submitted after Thursday, April 19<sup>th</sup>, will be placed in the Exhibition category. Entry forms are available on our website and at Woodcraft.

We had 89 entries in 2017 which was less than the number in the recent past years (110 in 2016; 99 in 2015; 115 in 2014). The highest club membership participation was 40% in 2016. Our club goal should be at least 50% participation. If you brought a turning to the Show-and-Tell during the past year, it is at least a valid entry for the Exhibition, and most likely, the Competition.

# CAMERAS AND SCREENS

On Saturday February 10<sup>th</sup> an extensive team of helpers showed up at our meeting rooms at the Woodcraft building to install the new audio-visual equipment. The helpers were: Bill King, Jared Parker, Chuck Bajnai, Cody Walker, Dan Luttrell, Lee Scarbrough, Meg Turner, Mac Derry, Jerry Fisher, Mike Holmes, Wally Ubik, Herb Walke, Bruce Robbins, Robert Gundel, Jim O’Hanlon, and Dick Hines as well as Stan VanDruff – who was not there on that Saturday but did some camera setup from home.





## **SAVE THE DATE!!**

Virginia Woodturning Symposium 2018  
November 3 & 4, 2018  
Expoland - Fishersville, VA

Mark your calendars to reserve the dates for the Virginia Woodturning Symposium! There will be 41 rotations held at 7 different stations covering a number of turning techniques during this exciting 2 day event! This is an awesome opportunity to enhance your knowledge base!

Some of the demo topics include-

*Fabulous Finials, Pen Making Start to Finish, Fun with Spheres, The Airbrush Demystified, Natural Edge Winged Bowl, Basic Bowls, Techniques for Deep Vessels, and many other fantastic sessions!*

The following demonstrators are on the schedule:

Cindy Drozda  
Nick Cook  
Graeme Priddle  
Joe Fleming  
Mike Sorge

Rudy Lopez  
Barry Gross  
Mark St. Ledger  
Dick Hines

Donna Banfield  
Frank Penta  
Lyle Jamieson  
Fred Williamson

The symposium is a great place to meet woodturners from other clubs, learn new skills, and talk with vendors about your tool and supply needs! There are also opportunities to work on your techniques with experts at the Skills Center, and an Instant Gallery where you can view or display turnings!

If you pre-register before October 26, 2018, the price is only \$80 for the weekend!

Check us out for details on the web at: <http://www.virginiawoodturners.com>

**Stay tuned for more details in the months to come and MARK YOUR CALENDAR!! We look forward to seeing you there!**

## UPCOMING DEMONSTRATIONS

March: Explore the fascinating world of Segmented Turning with Bob Silkensen, Terry Moore, and Bill King

April: The Second Annual Richmond Turn-a-thon.

### Visitors

Jason Jones

### New/Returning Members

Alan Weber

### March Snacks & Drinks

Georgia Wood	Ice and Cooler
Charles Knight	2 Liter Coke
Charlie Hamilton	2 Liter Pepsi
Chuck Bajnai	2 Liter Diet Coke
Chuck Horton	Caffeine Free Soda
Chuck Mosser	Cookies
Cody Walker	Chips
Colin Campbell	Sweet Snack
Colin Smith	Salty Snack
Dan Fritz	Salty Snack

You can switch with someone if you are unable to bring those items for the month assigned.

### 2018 Challenges

1<sup>st</sup> Qtr: Something made of 3 or more species of wood

2nd Qtr: Functional utensil that is not a bowl

3rd Qtr: Hollow form

4th Qtr: Shop tool

2019 1st Qtr: Jigs

Further definition of these may be forthcoming.

### Financial Report

Our current balance is \$7857.32

### Richmond Woodturners Quarterly Challenge

The Challenge will now be regularly scheduled for the third month of each quarter (March, June, September, and December). Entries will be placed on a table separate from the Show-n-Tell table.



# FROM AAW

## WOODTURNING FUNDAMENTALS

The current issue of Woodturning FUNDamentals is now available online!

<http://www.woodturner.org/default.asp?page=FUNDamentalsRes>

### VOLUME 7, ISSUE 1 COVERS THESE TURNING TOPICS:

#### Projects

- Turn-to-learn candlestick
- Big bottle opener
- Apple bowl with handles

#### Tools and Techniques

- Spindle roughing gouge
- Chucking tenon on spindle
- Safely bandsawing small logs
- Turning bowls on a faceplate

#### Wood

- Apple, it grows everywhere
- More than one bowl inside that log

#### Turning Tips

- Bandsaw red zone
- Steer from the sides
- Flat disks
- Shower curtain traps chips
- Rolling utility table and trash can
- Box corrals finish overspray
- Zip bags organize segments
- Pins and needles



#### Ask an Expert

- Push cut or pull cut?
- Measure sharpening angle?
- Grinder angle?
- Grinder angle with protractor?
- What is bevel rubbing?
- How to sign your work?

#### Video

- Personal protection equipment

222 Landmark Center | [75 5th St W](https://www.woodturner.org), St. Paul, MN 55102-7704  
[877-595-9094](tel:877-595-9094) | [651-484-9094](tel:651-484-9094) | [woodturner.org](http://www.woodturner.org)

## Club Officers

President: \_\_\_\_\_ Bruce Robbins

Vice President: \_\_\_\_\_ Bill King

Secretary \_\_\_\_\_ John Anderson

Treasurer: \_\_\_\_\_ Cody Walker

## Directors

Activities Director: \_\_\_\_\_ Georgia Wood

Resource Director: \_\_\_\_\_ Chuck Bajnai

Information Director: \_\_\_\_\_ Stan VanDruff

Membership Director: \_\_\_\_\_ Dan Luttrell

Newsletter Editor: \_\_\_\_\_ Bob Marchese

Past President Directors:

Lee Scarbrough

Jim Bumpas

## Committee Chairpersons

Charlie Hamilton      Chairperson of the Social Media Committee

Barbara Dill              Chairperson of the AV Committee

Jim O'Hanlon              Chairperson of the Turning Competition Committee

## For sale or trade

If you have any items to list in the For Sale or Trade Section,  
Please email me at [forsale@richmondwoodturners.org](mailto:forsale@richmondwoodturners.org).

Please remember that each item needs a description, price, city, seller's name and contact info (phone/email).

You can include pictures if you like. They will run 1 month unless notified to "re-run".

## Meeting Schedule

March	3/15/2018	September	9/20/2018
April	4/19/2018	October	10/18/2018
May	5/17/2018	November	11/15/2018
June	6/21/2018	December	12/20/2018
July	7/19/2018	January	1/17/2019
August	8/16/2018	February	2/21/2019



Contact the store at: [804-355-3945](tel:804-355-3945)

Fax: 804-355-2532

Email: [richmond-retail@woodcraft.com](mailto:richmond-retail@woodcraft.com)

9862 West Broad Street  
Glen Allen, VA 23060

Organizations such as the Richmond Woodturners, Penturners and carving clubs would not exist if it weren't for the kindness of their sponsors. We are blessed and grateful to have the Richmond Virginia Woodcraft store supporting us and our activities. Please remember this and support them at every opportunity!

For the classes provided at this location see: <https://www.woodcraft.com/stores/richmond/classes>

Look for classes taught by Ray Deyo, Clark Brummett, David Sterling, Brian Noble-Marx and others.

## WANTED

**Subject:** Turned bowl for bathroom

**Date:** Tue, 27 Feb 2018 01:35:45 +0000

**From:** S Krig <[kriggerrising4@gmail.com](mailto:kriggerrising4@gmail.com)>

Good evening.

I am renovating the bathroom in my "new" 60 year old home I purchased 2 years ago.

The plan is an Asian theme. I would love to purchase a turned bowl as my sink, preferably made from Holly.

Thank you!

## FOR SALE

For Sale, Milwaukee/Delta Bandsaw. 6" x 14" 1952 beauty with 12 blades works fine, asking \$100. Delta 110v spindle shaper on mobile base with raised panel and door rail/stile cutters, asking \$450. Grizzly 15" planer, 220 volts on mobile base with spare blades, asking \$400. Call Ron Bishop 540 412-0229.

If you are interested in the following, please contact Jeanne at 804-517-0676 or at [wudge1257@aol.com](mailto:wudge1257@aol.com). in Montpelier, VA outside of Richmond, VA.

**Barracuda 2 Key Chuck System (9 pcs for mini, midi or full size lathes) - \$85**



**PSI Dedicated Bowl Finishing Chuck system (#LCJC8) - \$85**



**PSI 8" Bowl Chuck Flat Jaw Extensions (to 14") (never used) - \$35**



**Henry Taylor M2 HSS Round Point Scraper 3/4" - \$35**

**Henry Taylor M2 HSS Square Point Scraper 1/2" - \$25**

**Henry Taylor M2 HSS Skew 1/2" - \$25**



**Bowl Gouge – Benjamin Best, LX220, 1/2" HSS - \$12**



**Robert Sorby Multi-Tip Tool, RS 200KT - \$45**



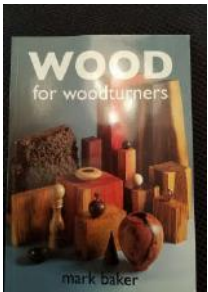
**Robert Sorby M2 HSS Round Point Scraper - \$35**



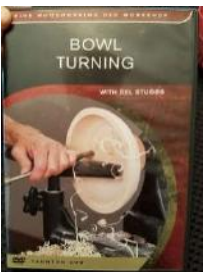
**Drill chuck with MT2 Morse taper with chuck key - \$25**



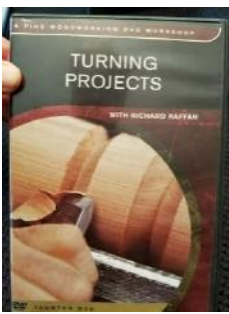
**DVDs and Book**



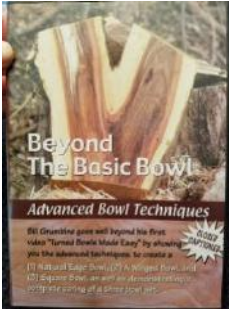
**Book - Wood for Woodturners by Mark Baker (\$12)**



**DVD – Bowl Turning with Del Stubbs (\$8)**



**DVD – Turning Projects with Richard Raffan (\$10)**



**DVD-Beyond The Basic Bowls by Bill Grumbine (\$15)**

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