



Contains May 2007 Minutes

June 2007



Woodturning Finishes, Techniques and Vase Piercing

***By Ben Fix and Ralph Kubal
May 19, 2007***

Ben and Ralph gave a general overview of finishes and some of the techniques that are used to develop the better quality surfaces on turned items. He stated that if one had a group of woodturners together, they might each have their favorite finish applications and styles. In many cases it will depend on what the turned object will be used for that will determine the type of finish applied. Ben gave a list of common finishes and the recipe used to make these. These formulas and others that have been acquired from magazine articles on woodturning and woodworking will be issued to club members. Ben also indicated that there has been the use of nut oils on some



turnings, but that if these objects are given away, one should be very careful that individuals are not allergic to the source of the nut oil. Peanut oil would be one of the more reactive finishes that might cause a reaction in children. Some nut oils do not dry and might become rancid. Walnut oil is another favorite and used by Mike Mahoney, a nationally known Woodturner. It has been suggested that after the smell has disappeared and driers have sufficiently evaporated or cured in about 3 weeks, it would be rather safe.

Ralph indicated that he used to use a coat of lacquer sealer that was made up of 50% lacquer and 50% lacquer thinner. Then he would use about 3 coats of brushed on lacquer and allow about 30 minutes to dry between coats. He would hand sand his finished piece to a smooth finish. He would

buff lightly after completely dry, usually in 24 hours. He warned that one should not buff hard or he would overheat the finish and it would soften and become dull in appearance and might become gooey in appearance. Ralph also indicated that he has used polyurethane as a finish, but it took longer to dry. Usually it took 10 to 16 hours to dry. He would use three coats and sand lightly between coats. The poly would be applied using T-shirt pads. Currently he is almost exclusively using a gel finish made by General Corp. and totally satisfied with the results. Ben responded that he is in total agreement with the ease of application and the final results achieved by this new style of gel finish. Ben suggested that you use very little finish and rub it into the wood surface. If too much is applied, then you will build up ridges or ripples and then later have to sand these out of the surface in order to get an even appearance. Using three coats of gel finish would be a minimum and one can use up to 5 or 6 coats for a deeper finished look.

Ben also suggested that there are certain situations where one can use CA glue as a finish.

This finish has been applied to corn cob pens where more stabilization of material is needed. As an example of turning corn cob pens, one would turn down the barrels of the pen with a gouge and then sand to 400 grit. Then you would apply any dye color of your choosing. This dye color has been acquired from Pat Cataans hobby store. Apply several coats of dye to make sure that the color is even in appearance. Then use a medium CA glue and apply with the rough backing of cloth backed sandpaper. Smear the glue completely around the barrels. Let dry and then sand off the glue with some 400 grit paper to get a smooth finish. Then continue to sand through the finer grits to 1000 / 2000 grit paper for a shiny finish. Some pen turners will use Micro Mesh up to around 2400 grit

for a finer finish. One needs to be careful when using the glue so that there are not heavy bubbles or ridges that might not be completely cured and then with a spinning lathe, it might lodge in one's eyes.

Ben gave a summary of the use of the Hut Sticks used for finishing pens or ornaments. He indicated that you should use the dark brown wax stick first and then the white stick for a more glossy appearance. He said that these are applied directly to the barrels and then heated with a buffing rag until there is a smooth finish. It might take several applications to reach a desired finish.

Ralph instructed the club on the use of the Beall Buffing System. He indicated that there are 3 separate wheels that are used in acquiring a superb finish. These wheels are 8 inches in diameter and made up with 40 to 80 layers of material. Each of the wheels are made of different materials, depending on the type of buffing compound that is used. The coarse wheel is used for brown Tripoli. The second buffing wheel is used for white diamond and yields a brighter glossy finish. The third wheel is used only for wax. The three wheels cost approximately \$45 and the buffing compound is extra, although a little of this will go a long way. Several accessories are also offered by Beall, when used, make for an easier operation. For example there are some extensions that one can purchase to get the buffing wheels further away from the power source and make them usable for larger turnings. There are also some goblet wheels available, to reach into the interior of the piece. It was mentioned that the proper speed for these wheels should be around 1000 RPM. Some turners have used them as high as 1500 RPM. It was also suggested that one use smaller objects to be buffed at the bottom of the wheel to allow the direction of the spinning wheel to be away from the

turner. One must hang onto smaller objects in order for them not to be jerked out of their hands and end up across the room. Fantastic results can be achieved with this type of buffing system, but make sure that the finish has dried and cured sufficiently and buff lightly.

Ralph gave a short demonstration on the use of his piercing system. He uses a discarded dentist drill that he acquired. He also uses the tool bits that his dentist gave him. He recommended the use of 40 lbs of pressure from the compressor. He made some irregular shapes with a pencil and then drilled through the thin walled vase with the bit and followed the outline. The thin walls of the vase allow for easy cutting. He mentioned that one could use a Dremel tool but the process would be very slow. He also mentioned that some of these tools could be purchased on EBay. Ralph also uses a wood burning tool where he will trace patterns from nature on the sides of his vases and then outlines them with the burning tip. He has been using a lot of maple leaf designs on his pieces. After the outline is complete, he will also use some colorful dyes to enhance the beauty of the piece.

The club would like to thank Ben Fix and Ralph Kubal for their fine effort in giving this very informative demonstration.

Respectfully submitted,
Jerry Schaible, Sec.

FINISHES FOR WOODTURNING

By Jerry Schaible

The following formulas for finishes are compiled from various printed sources and discussions. These are not listed in any order of preference and some are used for woodturning and others are listed for furniture.

1. Greg Jensen finishes... 3 types, depending on type of turning project.
A. Mike Mahoney Walnut Oil
B. Danish oil. He uses 4 to 6 coats of Danish oil to bring out the highlights. Water could be used as the lubricant for sanding to the finer grits.
C. Shellac.... 2 lb cut. Shellac Finish.....Brings out the best grain enhancement. Sand woodturning to 220 grit. Use 4 to 6 coats and let dry 5 minutes between coats. Brush on first coat and wipe off excess. Let dry 5 minutes. Sand lightly and apply second coat, and 5 minute dry time. Apply no. of coats desired....4 to 6 coats. Use Abralon Sanding Pads from Mirka Corp. He uses 5 inch sanding pads and cuts them into 4 quarters. When last coat is applied, sand with Abralon through the following grits, 500-1000-2000, using mineral oil as the lubricant. Store pads in plastic bags. Let dry for 24 hours and wax and buff with the Beall system.

2. Larry McCardel Finishes Buckeye Woodworkers and Woodturners
A. Lacquer Finish. Campbell brand, located at Hartville Hardware in qts, gallons and spray can. Spray lightly and let dry between coats. First coat is a 50 / 50 mix for a sealer. Spray on 4 to 6 coats. Let dry for 24 hours. Buff on buffing wheel.
B. Danish oil.....Sand project to 320. Apply Danish oil with rag then sand with 400 grit. Apply 2 nd coat of Danish oil and wet sand with 800 grit. Apply 3rd coat and wet sand with 1000 grit. Apply 4th coat and wet sand with 1200 grit. Always sand slurry into wood and wipe dry before moving to next grit. Wax and Buff.

Greg Jensen.....BWWT and North-Coast....50% Danish Oil, 50% Deftane [urethane oil], after mixing add 40% mineral spirits. Apply three coats.

Jacques Vesery....Friction Finish.....2

parts shellac, 1 part oil, 1 part alcohol.

Ellis Walentine.....Oil Varnish Blend for furniture....1 part boiled linseed oil, 1 part 100% tung oil, 1 part polyurethane.....Use 3 or 4 coats.

Ellis Walentine.....French Polish.....1 part shellac, 1 part denatured alcohol, 1 part boiled linseed oil

Joe Smith...Northcoast Woodturners....wetsand Danish oil to 320 or 400 grit,..Dry 24 to 48 hrs, Sand to 1200 grit....apply a coat of Minwax wax and then buff.

Lothar Baumann.....oil /varnish finish,.....3 parts polyurethane...2 parts boiled linseed oil...2 parts mineral spirits. Use 2 to 3 coats.....lightly sand 1st coat with 600 paper

Garrett Hack.....wiping varnish..... 1 part polyurethane....1 part boiled linseed oil...1 part turpentine. Apply 3 or 4 coats.

Chris Minick...Finish Chemist in Stillwater Minn.Danish Oil Mix.... 1 ½ cups mineral spirits, .
.1 cup brushing varnish

[polyurethane]... ¼ cup of linseed oil.

Chris Minick.....4 oz. Boiled linseed oil....8 oz. Varnish [polyurethane]...5 oz .mineral spirit.

Sam Malooffamous woodworker in Calif. 1 part satin polyurethane....1 part linseed oil...1 part tung oil.

Sam Maloof Finish.....1 cup boiled linseed oil, ..1 cup oil varnish...1 cup mineral spirits. The more oil in the formula results in better wiping properties, but longer drying times and less protection.

Bill Lovelace....Southwest Bowls....1. Thin coat of Parks Lacquer[type of sanding sealer]..apply even coats and watch for drips....sand with 0000 steel wool. 2. Use Jasco Tung Oil[polymerized]...5 or

6 coats,let first coat dry for 24 hrs., then apply second coat. Use 0000 steel wool between coats.

Art Carpenter furniture finish. Pro furniture woodworker since 1948. 1/3 part linseed oil, 1/3 part turpentine, 1/3 part varnish[polyurethane].....1. Damp cloth and wipe down project to raise grain. 2. Sand to 220 or 320 grit. 3. Wipe one coat of Danish oil and let dry for 24 hrs. 4. Wipe on varnish mixture listed above....12 to 15 coats for table tops...5-7 coats for chairs and legs. 5. Use 0000 steel wool or gray Scotch brand/ Brite pads to smooth out any reflective glare.

16. San Diego Woodturners French Polish....1 part denatured alcohol, 1 part boiled linseed oil, 1 part clear shellac. Shake bottle to mix ingredients, sand to 320 or 400 grit. Power lathe at slow speed and apply finish with a rag. Sand with fine mesh. Apply next coat until 2 to 4 coats have been applied. Apply paste wax and buff.

Bonnie Klein, finish for turnings.....equal parts of shellac, boiled linseed oil and solvent alcohol or Shellac thinner. Apply with rag and buff.

David Ellsworth....woodturner. uses a tung oil product called Waterlox. After power sanding to 320 or hand sanding to 600 grit[he claims equal performance] he soaks the exterior of the piece. If hollow vessel he will not coat the inside. Let soak into wood. As tung oil dries he adds more coats. When both the oil and wood[if turned wet] are both dry, he will buff off the oil residue using tripoli or white diamond buffing compound with wheel spinning at 3500 rpm. The turnings exterior

looks like there is no finish at all and leaves a very natural look of the wood.

Bob Flexner Finishing specialist. Wiping Varnishes are simply varnishes [including polyurethane] thinned with 2 or 3 parts of mineral spirits or paint thinner. Common commercial names are Formby's Tung Oil Finish, Gillespie Tung Oil Finish, Hopes Tung Oil Varnish, Jasco Tung Oil, Waterlox Transparent, Val-Oil, McCloskey Tungseal, and Seal-a-cell. You can make any wiping varnish by adding enough mineral spirits to any varnish so it's easy to apply with a cloth.

Bob Flexner. Oil / Varnish blends such as Danish oil and teak oil are simply a blend of straight oil [linseed oil or tung oil] and varnish. Common names are Watco Danish Oil, Deft Danish Oil, Minwax Antique Oil. You can make your own by mixing one part linseed oil or tung oil with one part of varnish. If mixture is too thick, then thin with mineral spirits.

21. Waterlox.....1 part polyurethane, 3 parts mineral spirits

22. Oil Varnish.....1 part varnish, 1 part oil [any kind], 1 part mineral spirits

23....Wiping Varnish....15% sanding sealer, 35% gloss lacquer, 50% lacquer thinner

24.....Danish oil.....1 part varnish, 2 parts boiled linseed oil, 3 parts mineral spirits

25.....Friction Polish....1 part denatured alcohol, 1 part shellac, 1 part boiled linseed oil

PRESIDENT'S SOAPBOX

June 2007

We have a lot going on the next four months and we need help with most of the activities the club is undertaking. Some of

you have already volunteered to help and we thank you. For others, if you are looking for something to be involved in, please let me know. Help is always needed.

Below is a list of the dates and events that BWWT is committed to in the next few months.

June 13th - Hands-on workshop for Y-NOAH summer counselors

June 16th - Club meeting at Doll Lumber, we will be grilling Bergs and Dogs

June 20th - Hands-on workshop for Y-NOAH youth campers (6:30 - 9:30 p.m.)

June 27th - Hands-on workshop for Y-NOAH youth campers (6:30 - 9:30 p.m.)

July 11th - Hands-on workshop for Y-NOAH youth campers (6:30 - 9:30 p.m.)

July 18th - Hands-on workshop for Y-NOAH youth campers (6:30 - 9:30 p.m.)

July 21st - Club auction at Camp Y-NOAH (Regular club meeting date)

July 25th - Hands-on workshop for Y-NOAH youth campers (6:30 - 9:30 p.m.)

Aug 1st - Hands-on workshop for Y-NOAH youth campers (6:30 - 9:30 p.m.)

Aug 8th - Hands-on workshop for Y-NOAH youth campers (6:30 - 9:30 p.m.)

Sep 15th - Jeff Burrows all day demo (Regular meeting date)

Sep 16th - BWWT Picnic/social (Need additional help to ensure it is success)

As you can see there is no shortage of things to do. If you feel the urge, step up and volunteer to assist at one of these events. You can let me know by email or give me a call.

All of these plus other events are now on the calendar out on the BWWT website. Please take the time once or twice a month to get onto the website to see if anything has changed. The website is www.bwwt.org. Just click on the calendar window, then click on the year you want to see.



G. Hackney ^



L. Jones ^



R. Maier ^



R. Kubal >



J. Bohmer ^



R. Maier ^

J. Bohmer



D. Greaser >

L. Jones



J. Woods





J. Dilling

D. Floyd ^

Table, P. Brower >

J. Dilling ^

C. Jones ^

R. Kubal >

T. Parsons ^

G. Raeder

G. Raeder

Calendar of Events

**The June meeting will be
at Doll Lumber Saturday
June 16th.**

**See map & directions on page 10.
Food will be provided! Please bring
a chair for each member in your party.
There will be no other chairs provided**

June 20. Camp Y Noah Project. Our club will be involved in teaching woodturning to the young campers of Y Noah.

July 21... Annual Club Auction. Tom Nero will be our auctioneer at this event. The auction will be held at the pavilion on the Camp Y Noah grounds.

August 18,....Possible All Day Demo.

September 15.... An all day demo is planned with Jeff Burrows from the Cincinnati Woodturning Club.

Sept. 16.....Annual Picnic. The annual picnic will be held at Sand Run Metro Park.

The Ohio Valley Symposium will be held in Cincinnati, Ohio again this year. Members are encouraged to sign up as soon as possible since there will be limited participation. The dates for the symposium will be Oct. 12- 14, 2007.

There are plans being made to have a field trip to the **Warther Carving Museum** in the coming months. Stay tuned for further information on this great opportunity

Please see the minutes on page 9 for more details on listed events.

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**BUCKEYE WOODWORKERS
AND WOODTURNERS
May 19, 2007**

The regular meeting was called to order by Pres. Ben Fix and he welcomed all visitors and regular members. He developed the first order of business by identifying the upcoming events for BWWT members. The following events are currently scheduled for the remainder of the summer and early fall of 2007:

June 16 Regular Meeting... a field trip to Doll Lumber is planned. This will be a tour through the saw mill to show how logs are brought into the yard in a rough state and then debarked and prepared to be run through the large band saw on site. A picnic will be planned with food at a nominal cost. Bring your own lawn chair for the meeting since no chairs are available at the sawmill. Wood from the mill will be available for sale at the conclusion of the meeting.

June 20. Camp Y Noah Project. Our club will be involved in teaching woodturning to the young campers of Y Noah. We will have several projects planned with one being a pen made from cherry. The pen parts have been purchased from Berea Hardwoods for this project. Some members have already cut the pen blanks to size and the holes are drilled and brass inserts glued into position. Photos will be taken of this turning event and sent to the AAW for insertion into their youth projects program.

July 21... Annual Club Auction. Tom Nero will be our auctioneer at this event. The auction will be held at the pavillion on the Camp Y Noah grounds. Access to this pavillion will be off of Cristman Road which is the first road west of the Y Noah camp grounds entrance. Members are urged to bring their excess tools and items for the

donation to the club. All proceeds from the auction will go into the club treasury for our future events.

August 18,....Possible All Day Demo. There are arrangements being made to have a demo on turned wooden hats. Final preparations are being made. Food will be provided at a nominal fee.

September 15.... An all day demo is planned with Jeff Burrows from the Cincinnati Woodturning Club. He will demonstrate offset turning and hollow forms. Food will be provided at a nominal fee.

Sept. 16.....Annual Picnic. The annual picnic will be held at Sand Run Metro Park. The rental date has been coordinated by Phil Brower. Food will be provided. A shelter will be available for our comfort and use.

In old business, it has been identified that most of the Y Noah Information boards are nearly complete. These boards required a lot of scroll saw work and planning for layout.

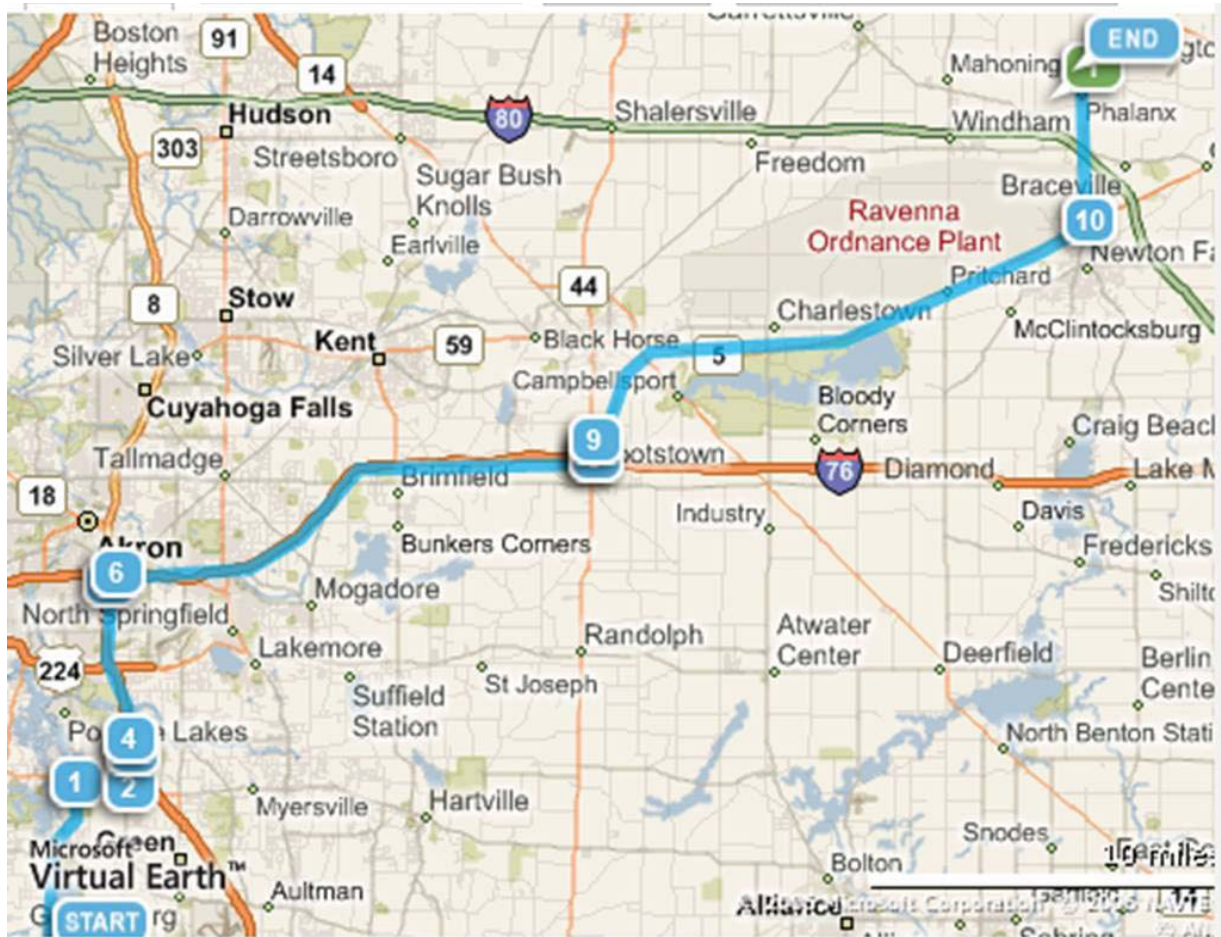
Pres. Ben Fix has been responsible for coordinating this event. These info boards will be placed in main buildings of the YMCA campus for current information and Y announcements.

The club bylaws are nearing their final stages and will be published and placed on our website at a future time.

Ten sets of turning tools have been purchased for club turning activities like the Turn and Learn sessions. The money to purchase these tools was supplied by the AAW Grant Program. We are deeply indebted to them for this contribution to our club.

Respectfully submitted
Jerry Schaible, Sec.

Doll Lumber Directions from Interstate 77



Written Directions from I-77:

- 4) Basically, get on **I-77**. Go either North or South so that you can get on I-76 East.
 - 6) Merge onto **I-76** and take it **EAST** towards Youngstown.
 - 7) Take exit **38B RIGHT** towards **Ravenna**.
 - 8) Merge onto **SR-5 North**
 - 9) Bear **Right** (north) onto **Oh-44 / Oh-5**
 - 10) Turn **LEFT** (north) onto **SR-534 / Miller Ave**
- END) **Arrive** at Doll Lumber 1363 State Route 534, Southington, OH. 44470.