

North Carolina WOODTURNER

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A Chapter of the American Association of Woodturners

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THE PRESIDENT'S MESSAGE by David Kaylor

our February meeting. I think that contributions make the symposium shows that there are lots of members possible; (6) to volunteer to help. Keep If "Mother Nature" cooperates, I will who feel the need for basic and simple the symposium in mind during the bring new directories with your demonstrations. Ric Erkes has done a spring and summer. Plan to attend. Be membership cards attached to our great job of balancing our program for ready to volunteer for the many tasks March meeting. Of course, some of you all levels of turning: beginning, we will have to accomplish to make it a have never picked up your 2004 intermediate, and advanced. Thanks to Ron Mechling for showing us the variety of ways of approaching turning wine stoppers, and to Ric for demonstrating basic techniques as well as simple ways to add surface decoration, as he turned flower arrangement containers.

Have you thought of how much we very much a beginner. It opened a would miss the sweets if Mary did not whole new world of woodturning to Library News - by Mary Bachand bring them? Thanks to Mary for her me. I even attended a demo by our own "sweet" service, and for all the other Don Olsen! Don will again be a Years ago I read in a craft catalog that ways she makes our club work demonstrator this year. Start thinking smoothly.

Did you miss the coffee? I did. Would he gets. Will you step up and help him?

Edgar Ingram and I met February 10 with representatives of Piedmont Triad Woodturners (Greensboro) and Woodturners Guild of North Carolina (Raleigh, formerly Triangle Woodturners) to begin planning for our jointly-sponsored November 5-6 Symposium in Statesville. This event will offer our members several opportunities: (1) to see some excellent We need volunteers for reviewing demonstrations, on topics from basic to advance; (2) to gain experience in demonstrating, preparing the way to be demonstrators at the national or other

regional meetings; (3) to place our **Member News** - by Mary Bachand work in the gallery (each attendee can bring three pieces); (4) to meet and talk Please welcome Dave Fisher, Steve We had a gratifyingly large turnout at the wares of our vendors, whose Lincolnton, to our group. success.

> The American Association of I have the name tag renew boxes with experience. My first Symposium was vour new number. the in Akron in 1998, while I was still greatly rewarded.

you be willing to take on the task of I regret that I will miss our March preparing it? Jesse Wilkinson arrives meeting. I will be in Haiti with a early for every meeting, spends lots of Presbyterian Church mission trip. Jim time and energy getting the equipment Miles, a member of our Board, and a up and ready, including the coffee very talented woodturner, will be our makers. He deserves more support than demonstrator - for details about his demonstration, see Ric Erkes's column. I am returning the DVD "Sculpting The Board will meet at 10:45.

> I hope to see you in April. David

2005 Demonstration Reviewers Wanted

Thanks to Ed Mackey for writing the My new theme is "Have Money, What review for the February demonstration.

demonstrations this year. Contact John Uteck at 704-395-0728 or by email (john-uteck@carolina.rr.com) to sign up for a specific month.

with other turners; (5) to see and buy Hoyle, and Max Schronce, all from

directories and cards.

Woodturners will have its annual me. It is my plan to cull the tags of national symposium in Overland Park, those who didn't and rearrange the tags. Kansas, July 22-24. Attending that SO--your tag may have a new number event is an amazing and inspiring on the back. If so, please use the slot of

"no library would be complete withoutabout it. If you can attend, you will be -- "a certain set of books. So-I ordered the set by C. Holtzapffel for our library. And watched them gather dust! Yesthese are very thick and rather deep books-not a bunch of pretty pictures. But-we finally have someone who was willing to check them out. Thank you-David Allen!

> Wood" with Trent Bosch as it is defective and am asking for a replacement. For the library I have ordered Segmented Turning by Bill Kandler. Jim Miles suggested this book.

> Do We Need?" Please, folks, I need some ideas. I am not a turner and I haven't the faintest idea what would perk your interest.

Next Meeting: March 12th at 1:00 pm Demonstrator: Jim Miles Demonstration: Bowl Turning



Meet at Klingspor's in Hickory, 856 21st Street Dr. SE (828-326-9663)

Program Notes - by Ric Erkes

Hopefully, by the time you read this you have had a chance to practice your tool skills with one or more of our February project demos. Jim Miles is I still have a few months open to going to take us to the next level by schedule demonstrations for us this walking us through the steps of completing a turned bowl. Jim is a your input. To put it in flying terms, at the Icehouse Woodturning facility in you know of a nationally known turner initial wood selection, orientation and mounting the blank on the lathe. He'll then demonstrate the use of a bowl gouge to achieve the shape he desires design. He'll follow up with his technique for drying 'green wood' bowls. Since sanding is an integral part of a nicely finished piece, Jim will also give us his short version on sanding tips. If time permits, Jim will show off his Grandfather's 100 year old lathe. you, I am going to assume you circled Lathes have certainly come a long way.

see demonstration. For those of us that Symposium. have turned a few hundred bowls already, you know as well as I do, that NCW Calendar of Events every time you see somebody demonstrate there is always something Mar. 12 - Jim Miles - bowl demo. that clicks or resonates, "maybe I'll try Apr. 9 - Russ Fairfield - Polychromatic that" or "never thought of it that way". In any case, this is a demo to come May 14 - Elvie Jackson - hollowing. prepared to ask your questions or give June 11 - John Penrod—lidded vessels. your own insights.

Okay, I'm really serious now, put this November 5-6 - Carolina Symposium. down, I'll wait, and circle the first December - Holiday Festival. weekend in November to be at our Symposium. You back? We are **John C. Campbell Folk** planning on 20 back to back demonstrations to appeal to both new and experienced turners. The Symposium is held in the Statesville Convention center. If overnight reservations are needed, local hotels will have special rates. A gallery of turned work will be on display ranging from museum quality to someone's first pride and joy. Be prepared to bring a few pieces to share your inspirations. You can even stick a price tag on them if you want. The idea is not to win best of show or bust. No matter where you are in the turning spectrum, there is

always somebody wishing he/she could do just what you did. More Symposium information will be coming along as our plans firm up.

year. Believe it or not, I really do want member of our board and an instructor I'm almost out of ideas and airspeed. If Davidson. Jim will walk us through touring the country clue me in. If you went to a regional symposium and saw a demonstration that would be worth having at our club, clue me in. See something on the internet of interest, while discussing his thoughts on clue me in. If I get more demonstrators than I have months left, there is always next year. Now don't shove this aside... think about it... let me know, and I'll schedule the demo to clue us all in. I expect over 100 emails, rate@adelphia.net. If I don't hear from the first weekend in November and never came back to finish reading this, If you are a new turner, this is a must but at least we'll see you at OUR

platters.

July 9 - Don Olsen - "Various Ways to Turn Crotches"

School

For several years, the John C. Campbell Folk School has offered a half scholarship to a member of our club, which the club matched, giving one of our members a week of classes under excellent instructors. They have changed their policy, so that all scholarships will be based on financial need. Anyone who would like to apply will need the endorsement of our Board of Directors. For more information, visit their website or call them for a catalogue (addresses elsewhere in this newsletter).

Want to learn something new about woodturning?

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

- Dean Amos (Sandy Ridge, NC) 336-871-2916.
- Gene Dampier (Banner Elk, NC) 828-898-6143.
- * Ric Erkes (Davidson, NC) 704-896-3302.
- * Edgar Ingram (Statesville, NC) 704-876-4576.
- * David Kaylor (Davidson, NC) 704-892-8554.
- Glenn Mace (Mocksville, NC) 336-751-1001.
- Sam McDowell (Statesville, NC) 704-871-9801.
- Grant McRorie (Rutherfordton, NC) 828-288-9572.
- Ron Mechling (Shelby, NC) 704-487-0506.
- * Jim Miles (Cornelius, NC) 704-661-0600.
- * Dick Nielson (Gastonia, NC) 704-864-1742.
- * Don Olsen (Lincolnton, NC) 704 735-9335.

.. or see what's offered at one of these Woodturning Schools

Arrowmont School of Arts and Crafts,

Gatlinburg, TN 865-436-5860

(www.arrowmont.org)

Ice House Center, Davidson, NC (704) 892-7323 (www.icehousecenter.org)

John C. Campbell Folk School, Brasstown, NC

1-800-FOLK SCH (www.folkschool.com)

If you want to volunteer as a mentor, please contact John Uteck with your information to include in the newsletter.



910-582-0051 www.vectorshirts.com

Demonstrator Review

by Ed Mackey

At this meeting, we were fortunate enough to have 3 demonstrations from our own members. Ron Mechling showed us how to make bottle stoppers, David Kaylor demonstrated turning Napkin Rings and Ric Erkes showed us how to turn a small bowl with some added texturing.

Bottle Stoppers

Ron's demo of bottle stoppers proved to the stoppers. The bottle stopper adapter be quite interesting. His demo covered:

- Preparing the wood
- Attaching the wood to the lathe
- Turning
- Sanding
- Finishing

Preparing the wood. Ron starts out with a piece that's 1.5 x 1.5 x 12 inches. To speed up the turning process, (Ron usually turns 4 dozen at a time) Ron takes the wood pieces to the bandsaw and cuts away the corners. He points out that this is not necessary; it just speeds up the turning process. Using a roughing gouge, Ron turns the piece hole should be 3/4 inch.

Attaching the wood. Now that the this. These include:

- Collet
- Jacobs chuck
- Small spur drives
- Bottle stopper adapter

Ron had a sample of each type, and doesn't mind sanding and finds it pointed out the pros and cons of each. therapeutic. Don Olsen asked if he In his demo, Ron used the bottle hired out...but I don't recall a deal stopper adapter and the collet to hold being made.



is similar to a screw chuck in that it has threads that the piece screws onto. The collet is used to hold a dowel that is pushed into the 23/64th hole in the bottle stopper. The collet is attached to a drawbar (i.e., a rod threaded through a spindle.)

Now Ron begins to turn first stopper. Ron uses 4 tools to do his stoppers.

- 1 Roughing gouge
- 2 Spindle gouges (Both freshly sharpened. The second is to use when the first becomes dull)
- 1 Round skew

Riding the bevel is emphasized. It's Cocobolo and was held with the Bottle worth noting here that Ron uses his Stopper adapter. Ron pointed out that thumb to deflect the chips. When the some folks are allergic to this wood and wood is trued up to a cylinder, he uses that it's advisable to have a dust the bandsaw again to cut the pieces into collector near the work. The first task 2.25-inch segments. These are then was to true the stopper. Ron 23/64th inch hole in the stopper. The taken to the Drill Press and a 23/64ths emphasized riding the bevel when collet and drawbar was used to hold hole is drilled into the wood (end grain forming the shape. Ron showed his side). This is where the bottle stopper skillful use of the spindle gouges will attach to the wood. The 23/64ths forming both the top of the spindle and size is 1/64th less than 3/8ths and this is tapering it down to where it will attach intended to achieve a nice snug fit. A to the cork. For some added detail, he jig at the drill press to center the used a narrow parting tool to cut a few stoppers is helpful. The depth of the grooves in the stopper. He pointed out that the depth of the grooves should all be the same.

stopper is ready to be turned, it needs to **Sanding.** The next step in this process be attached to the lathe. Ron pointed is to sand the stopper. Ron mentioned out that there are several ways to do that his normal grit changing routine is as follows: 150, 180, 220,240, 280, 320, 400 and finally 600. If the wood allows, he might go with 180,240,320 and 600. Ron indicated that he always doubles the sandpaper; it just seems to

work better. He indicated that he

Finishing. For this stopper, Ron used Bri-Wax. He mentioned that this was a Carnauba based wax. He applies the wax using a small cloth while the lathe is running. And after only a short while, 20 seconds or so, he buffs it with a clean soft cloth.

Now the stopper is "unscrewed" from the adapter. This stopper was then screwed on to what Ron termed as Chrome Band stopper. This stopper has the cork, followed by a chrome band and 3/8 screw that matches the 23/64th hole in the stopper. Getting a tight



fit may require some assistance by using a vice to hold the stopper while the wood is screwed on. It's advisable to use a cushion of some sort, like a between centers and forms a cylinder. The first stopper Ron turned was rubber strap to avoid marring the chrome while in the vice.

> The process for the next stopper was similar to the first. This second stopper contained a 3/8-inch dowel in the this stopper. Turning was also similar except the parting tool was not used for adding detail to this one. Instead the spindle gouge was used to form some decorative coves and the round skew was used to get even cleaner cuts.

> Ron used the same sanding process on this stopper as the first one. Instead of Bri Wax, Ron used Mylands Friction Polish for this stopper. This is a shellac based product that produces a very high gloss. Ron points out that it might take some experimenting with this to get the desired result. Putting too much on can cause problems.

Napkin Rings



basic steps Ron 1.25 inches. Mechling showed turning stoppers.

- preparing the wood
- attaching the wood to the lathe
- turning the piece
- sanding
- finishing

2004 issue of American Woodturner by chooses. After squaring up the edge, the ring can be from several different edges with a spindle gouge. Then the sources. David used a piece cut from a thin parting tool was used to cut a few Peach branch and another from a scrap decorative grooves in the center of the salvaged from a bowl. When taken ring. A wire held between 2 wood from a branch, he starts with about an 8 handles was then used to burnish the -10 inch long limb turned to a cylinder ring in these grooves. (between centers) about 2.5 inches in diameter. Then using a band saw, they Turning was then complete and David can be cut into slices that are about 1/2 sanded thru his normal grit sequence. to 5/8th wide.

When the wood has been selected, the approach that Chris Stott uses. After David starts off by using a 1.25 inch buffing with a paper towel, David forstner bit to drill a hole through the applied Bri Wax and buffed the outside center. He notes that it's important to of the ring. The ring was then removed. get a nice clean cut in order to He noted that since he used a very minimize tearout. If the forstner bit sharp forstner bit, the cut was clean and from the center to the edge (which needs sharpening, it would be a good only minor sanding was needed and idea to drill to a depth where a pilot could be done by hand. BriWax can hole appears in the other side and then then be applied to the inside of the ring turn the piece over and drill starting in and buffed by hand. The Napkin Ring that pilot hole. Again, this is to avoid was complete. tear out.

Once the ring has been formed, the next Flower Arrangement Bowl step is to attach it to the lathe. For this Next, Ric Erkes demonstrated how to David has made what I would describe turn a small bowl intended to hold as a jig held in a chuck that allows the flower arrangements. He showed us a When the outside of the bowl was ring to be mounted on. To make the jig, sample of what the finished product roughly shaped, Ric began to focus on a square piece of wood about 10 inches looks like. Its a bowl about 6-8 inches the foot of the bowl and prepare it for

David Kaylor was of the live center adapter used to woodworks and Craft Supplies (for n e x t tighten into this hole. Also a few kerfs about \$7.00). This is an insert made of demonstrator and were cut to allow for expanding when black anodized cast aluminum with showed us how to the ring is slipped on. This was then steel prongs that hold the flowers turn napkin rings. turned between centers with a tenon upright, in water and in position. The process formed in order to hold it in the chuck, top of the insert is about 3 inches in included the same It was turned to just slightly less than diameter and the bowl portion of the

us previously in Once the jig is mounted in a chuck, the catalog) bottle ring is then slipped over the open end and the tail stock is brought in with the Ric noted that dry wood works best live center making snug contact here, since it doesn't move and fitting the just enough to expand the jig to hold insert later on requires stability. The the ring nice and tight.

the outer edge of the ring. At this point David noted that his approach is similar it's strictly up to the turner to add

> After sanding, David applied a lacquer sanding sealer and noted that this was

should really be determined by the size These are available from Packard insert is 1 and 3/8ths diameter and 3/4 inch deep. (This I found in the Packard

bowl blank Ric used was pre-drilled and then mounted on a screw chuck. David uses a roughing gouge to true up Tip: wax the screw to allow for ease of getting the blank on and off. If need be, use thin laminates as shims so the blank to the article published in the summer whatever decorative turnings he does not have to be screwed too deep. For safety, Ric brings the tailstock up to Jerry Hubschman. The wood used for David added a slight cove to the front the blank. Also for Safety, Ric emphasized wearing a full face shield.



Then Ric began to turn the bottom side of the bowl. He noted that many turners true up the outer edge before turning the bottom. but he simply starts turning

eventually trues up the edge). Ric demonstrated pull cuts and push cuts and the benefits of each. He also showed how raising and lowering the gouge handle affects the direction of the cut and consequently, the resulting shape. Ric also emphasized the importance of using very sharp tools to get the cleanest cuts.

long and about 2.5 inches wide was in diameter and about 2 inches deep, reverse chucking. Knowing the size of used . A hole was drilled in the center The top of the bowl is only hollowed the chuck that will hold the bowl will of one end about 6 inches deep. The out in the center in order to determine the size of the tenon to form. size of the hole is was about 5/8ths but accommodate a "Flower Arranger". A pencil line was drawn on the turning

where to turn the tenon. Since Ric has 2 with 18 ga. wire and how to burnish the chucks, he's made 2 matching jigs that top of the bowl by cutting a groove and March - scrap wood project. sit on the live center, that allow for an burnishing with a piece of wood the April - Celebrate daylight savings time accurate pencil line to outline forming size of the parting tool used to cut the the tenon. A parting tool was then used groove. to turn the tenon used for reverse chucking making sure that the shoulder When this phase was complete, the the chuck when reversed.

foot.

When the bowl was reversed in the chuck, the top of the bowl was trued up. Now Ric refined the turning of the foot <u>December</u> - birdhouse ornaments. lightly scribe the left point of the center. caliper. When the scribe mark appears, line up the right side and then adjust the left side to where both points are on the same line and scribe a bit deeper. A parting tool was then used to form the location of where the rim of the insert would sit. The depth of the rim was about 1/8th of an inch. The rim only needs to sit on about 1/4th of an inch so it does not need to be flat to where the bowl portion begins. Ric then hollowed out the bowl portion and did a dry fit This completed the demos for today. tight fit where the rim sits is not on. Try for a loose (but not sloppy) fit.

remaining portion of the front of the the tools and jigs used.) bowl was turned. Here Ric demonstrated the multiple uses of the texturing tool and skew to add decorative details to the front (top) of the bowl. Ric also showed us how to

bowl indicating the outside edge of burnish a groove in the side of the bowl 2005 Challenge Projects

was flat in order to get a good fit with bowl was removed from the lathe and re-attached using a jam chuck approach. A block of wood was June - plywood project. Ric continued to shape the outside of attached to the chuck. For cushioning July - 2x4's - use no more than one 8' the bowl and then refined the shape of and protection of the surface, a paper the foot. Here he demonstrated the use towel was placed on the top of the August - turn a bird, animal, fish, etc. of pulling, or slicing, cuts with the bowl, and a drawer liner placed on top gouge handle as low as possible. The of the towel, and these 3 pieces were direction was from the center to the placed between the block of wood and September - then and now! Bring in outer edge. He also showed how to get the tail stock's live center which was a nice clean cut at the shoulder of the inserted in the center mark on the tenon. The bowl turned and appeared to October - wearables - something to be perfectly true.

Calipers were used to measure the by removing most of the tenon with a diameter of the rim of the insert. Then curved gouge that allows getting real Ric used the calipers to scribe a line in close to where the tail stock's live the front of the bowl where the rim center meets the tenon. Additional would sit. I often wondered how this texturing and circles were added to the was done, so reviewing this tape was area just inside the foot. The only quite useful to me. With the lathe remaining item was a small amount of turning very slowly, you guess at where sanding to get rid of the area between the left side of diameter would be and what was left of the tenon and the live



with the insert to ensure a good fit. A Many thanks to Ron, David and Ric ...all were well done and well advisable as the wood may move later appreciated. (editor's note: be sure to sign out the video for this month's demonstration, not only for a refresher Once the insert area was completed, the on the demonstrations, but also to see

at 2 a.m. on the first Sunday of April - turn a clock or watch.

May - alternative materials - including tagua nuts or banksia pods (available at Klingspors), alabaster, or other.

long 2x4.

either multi-center turning, or multiple turnings joined.

one of your early turnings, and one of your recent ones.

wear.

November - Symposium Gallery.

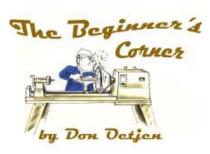
Raffle

Don't miss out on your chance to win



some great things in the monthly raffle, including tools, finishing supplies, CA glue, wood sealer, jigs, wood, etc. See Ken at the start of the meeting or during the break to purchase your tickets (\$1 each, or 6 for \$5, or 13 for

NEWSLETTER ARTICLES DUE MARCH 25



Now that the bowl is dry it's time to do the finish turning. You'll find that drying process has left the tenon out of round and the face where the jaws seat uneven. The first requirement is to true these surfaces so that the chuck jaws seat correctly. An easy way to do this is to use a piece of plywood faced with router pad. Glue a true 3"square of wood to the plywood, clamp it in a chuck or drill a hole precisely in the center of the square and use a screw Now we are ready to do the finish size bowls.



I use a dedicated screw chuck but all 4 jaw chucks come with a screw center. Now put the open end of the bowl over the pad and position the live center into the center hole left from the rough turning. Turn the tenon round and face off a flat. Now is also a good time to decide the shape of the bottom and do the preliminary cutting while it's on the pad.

Fasten the tenon carefully in your chuck being sure to seat the jaws against the flat. Use both keyholes to tighten the jaws. Notice that I've placed

the chuck. At some point you might demonstrators emphasize how they hate want to remove the bowl from the sanding. I liken it to ironing a shirt and chuck and it's wise to be able to replace I don't mind it all that much. Sanding it in its original position.



chuck then round the plywood to an turning. As I've said before if you need appropriate diameter. You should give help in tool control and proper cutting sharpen when it's not as sharp as it the plywood a slight convex face. Glue techniques please make an appointment should be. Throw it away and put on a on the pad with rubber cement and trim with one of the mentors listed in the fresh piece. If you discover a place that it to the same diameter. I have 3-4 of journal. I feel that each bowl you turn isn't cleaning up properly don't hesitate these padded units to use on various needs some distinguishing to go back to a lower grit. When power characteristic, some feature to set it sanding the work turns slowly and the apart. I've chosen to leave a band of paper moves fast. wood at the rim. Keep in mind that after finish turning the bowl may again I started this series by promising to help go out of round due to the release of you avoid mistakes that would identify stresses or due to further drying. If you you as a beginner. Here's a second plan on incising the rim with cut lines, suggestion. A clunky bowl is a burn lines or texturing you might get giveaway. Go ahead and take that extra skipped portions. If this is your plan cut. I try for an even wall thickness not then do the finish turning in two steps greater than 1/2" and more typically letting the bowl acclimate before the 1/4" to 3/8", depending on the diameter. final turning.



a mark on the tenon opposite a mark on Lets talk about sanding. Many of our just takes out the wrinkles. I do the best job I can with gouges and scrapers. Spritzing with water then taking very light cuts with a freshly sharpened gouge will often clean up troublesome areas. I start sanding with a grit that will nicely cut the wood I've chosen. That is often 60 or 80 grit. In my mind the final finish doesn't depend so much on the last grit used but on how well vou use the first one. It's where I take the most time. I probably spend 75% to 80 % of my total sanding time with the first grit and the rest with the all the others up through 400. Sand paper, too needs to be re-sharpened from time to time. The same rule applies to sandpaper that applies to gouges. You don't re-sharpen when it's dull, you re-

> Here's another caution. If you power sand the inside bottom there is very apt to be circular waves there. You get rid of these by stopping the lathe and moving the sanding pad from side to side horizontally with the grain.

> Next month we finish the bottom without using a vacuum system.

Each month Don will have tips, techniques and suggestions which will be of most interest to those members who are in the early stage of their turning career. If any member has a question or subject they would like to see covered send an e-mail to Don at donoetjen@aol.com.

Alcohol soaking method for drying bowls

by Dave Smith (www.woodnheart.com)

(Reprinted with permission from Dave Smith and Woodcentral. For more select the "turning" message boards, and the pot and led to a steam explosion. search for alcohol drying)

Background:

Wood turners have employed various piece. methods to maximize the drying speed process.

Criteria for a good drying process wood to dry faster. include ease of use, cost, and consistency of results. A process that is Researching the MSDS (material safety any method.

wood bowls is placing them in a paper instances of alcohol soaking of grocery bag. The theory is that the archeological artifacts to displace water permeable paper produces a micro in a complicated protocol for stabilizing climate around the bowl. The bowl and preserving historical wood pieces. dries slowly with a small differential Alcohol soaking is used as the first step moisture gradient across the bowl sides. in of a process to replace water in the This method works well but it is slow.

requiring considerable space for a large process. pot and heat source. Since most people don't want to boil bowls in the kitchen, My testing involved a large variety of

boil outdoors which can be a big have been consistently good. Types of drawback in cooler climates during the wood included some traditionally hard winter months. Boiling can also be to dry woods such as apple, plum, dangerous. A good friend of mine was cherry and mulberry. severely burned when a plate blank information, see www.woodcentral.com and wedged in a boiling pot of water, sealed The test consisted of turning two

difficult to use, even though it produces data sheets) for several commonly used. Here is a set of roughed out apple good results, will garner few adherents. soaps revealed that the surfactants were bowls that were cored from the same Likewise, an expensive protocol may listed as being alcohols. I reasoned that block. After more than a year they are appeal to a commercial turner who can using alcohol for a soaking solution still in good condition and ready to turn expect to recoup the investment but it might be a simpler method. The most when I get a chance. may be cost prohibitive for the average readily available alcohol is denatured wood turner. Consistent results without alcohol found in the paint section of labor intensive monitoring or any hardware store. A gallon of manipulations are a major benefit of denatured alcohol costs from 10 to 12 dollars.

The most common method of drying A search on the internet noted several wood with a stable inert binder that will maintain the shape of the artifact and Boiling can improve the stability of the prevent further degradation. The fact wood by rupturing the cells, allowing that alcohol is used to displace water in moisture to more readily migrate to the archeological artifacts suggests that it surface and evaporate. Boiling is time might also work to displace water in and labor intensive, consuming green wood thus speeding up the drying

it is necessary to set up some way to wood species. In each case, the results

similarly sized bows from the same type wood. One bowl from each sample Soap soaking has gained popularity in was soaked in alcohol then both were recent years. A bowl soaked in a soap dried in the same manner. Several Drying roughed turned bowls has solution is supposed to be easier to turn methods of drying were used from the always been a challenge for wood because of the lubricating action of the most conservative, a paper bag, to the turners. You need to balance the desire soap. Bowls are said to dry faster and most radical of placing the bowls to finish a piece as soon as possible crack less after soaking but some uncovered on a wire rack in my heated, with the inherent tendency of wood to people report that there is still a fair dehumidified shop. I recorded the warp and split when dried too quickly. amount of distortion of the finished weight, date and time when the bowl was set aside for drying and then recorded the weight daily when while minimizing the degradation of It was my experience with soap soaking possible. After the bowl stopped losing the wooden shape being created. Over that led me to the alcohol soaking weight it was considered dry or at time each method has collected its own procedure I use today. When I equilibrium with the surroundings. The supporters and detractors with respect researched soap soaking and read the data showed that small thin (1/2 inch to the relative effectiveness of the discussions on wood working forums, thick walls) bowls would reach the consensus was that it was the equilibrium in 4 to 5 days. Using this surfactant in soap that allowed the data, I developed a process that was quick and consistently yielded usable bowls.



The Process:

Bowls are roughed out to 1/2 inch wall thickness for pieces less than 8" in diameter. Over 8" in diameter, I leave a wall thickness of 5/8 to 3/4 inches. Since my lathe is limited to 12 inches, I have not tested bowls larger than that for optimum wall thickness. I often turn utility pieces with a finished wall

thickness of a quarter to half an inch. In of masking tape around the rim. Fold remover the big hunks. allow for distortion. No drying method on a rack to dry. If the bowl set on the roughed out blank accordingly.

Once the bowl is roughed out it is submerged in denatured alcohol for at The reason for wrapping the outside need to soak longer to ensure good penetration of the alcohol. Longer drying the inside quicker than the soaking time does not appear to damage outside. As the inside dries it shrinks the wood.



let it air dry for about an hour to dry the the smell. Isopropyl is not readily diameter and nearly 10 inches tall. surface.



heavy paper such as a grocery bag. Secure the paper with a couple of wraps



these cases the roughed out wall the paper over the rim, trim off the thickness needs to be thick enough to excess, and place the bowl upside down will completely prevent movement of foot it may not rest evenly due to the the wood when it dries, so plan your paper and the air may not circulate as well. The inside of the bowl needs to be exposed to air.

least 2 hours. Larger, thicker bowls only is the theory that it will create a compressive stress on the bowl by which pulls on the outside causing it to Containers used for storing soaking compress. This compressive force alcohol should be non metallic. Alcohol minimizes cracking during the drying is about 95% alcohol and 5% water process. Thinner walls yields less when purchased. As bowls are soaked distortion and fewer cracks by in it, the moisture content of the decreasing the maximum stress solution will increase, which, along developed between the inside and the with other impurities leached from the outside.

The alcohol I use for soaking bowls is I use plastic ice cream containers for denatured ethanol alcohol, straight from soaking bowls and storing used alcohol. the can. I do not recommend methanol A one gallon container will due to health and safety concerns. accommodate a bowl 8" in diameter by Although I did successfully test some 5" tall. A two gallon ice cream Remove the blank from the alcohol and bowls in isopropyl alcohol I did not like container will hold a turning 8 1/4" in available in concentrations greater than 70% while denatured ethanol normally For larger bowls, a 13qt stainless steel is 95%. Alcohol is added to a container bowl will accommodate 13" diameter as needed to cover pieces. During bowls that are less than 6" from the rim soaking, some alcohol will be absorbed, to the bottom of the foot. so a small amount will be lost when each bowl is removed and must be replaced with fresh alcohol. Because of this I have not worried about the dilution of the solution over time. The results have been consistent for bowls soaked in fresh alcohol and those soaked in solution used many times.

Now wrap the outside of the bowl in One concern was the possibility that alcohol used to soak dark wood would become a dye and discolor lighter colored wood subsequently soaked in the solution. There has been no To cover a large bowl, place a sheet of indication of this happening.

> and other debris over a period of time, tape, the cover can be removed and so I strain the solution when replaced as needed while providing a transferring between containers. A reasonably good seal. kitchen strainer place across a container with a paper towel filter is sufficient to Still larger bowls can be placed in a



wood will attack metal containers.



heavy plastic film over the steel bowl and secure it by wrapping the rim with The solution does collect wood dust clear packing tape. If you stretch the



be filled to reduce the volume of when he turns solid wood. alcohol needed to completely cover the quantity.

Other Trials:

obtained with alcohol soaking, I asked problem was Dominic responded, "The surroundings. Wrapping the outside of several other tuners to try it. I wanted to piece of Osage Orange cracked during a bowl reduces distortion and checking. get a cross section of turners with drying, but I believe this was a crack Testing by other wood tuners has different experiences and specialties, that was present in the blank, and not a verified that the protocol works Some of those who provided data direct result of drying". Dominic uses a consistently. The process is simple and included Bill Grumbine, Dominic moisture meter to determine when a relatively fast. The expense of Greco, Mark Kauder, and Jennifer bowl has completed drying. After 2 denatured alcohol is minimal compared Shirley.

bowls, two from box elder and one writing of this article, and Dominic time for roughed out bowls from from sycamore. He bought a slab of reported that it is now the only method months to weeks. freshly cut Ambrosia Sycamore, 4" he uses for drying bowls. thick and not sealed. He cut three 16" diameter blanks from it, roughed them Bill Grumbine used the alcohol soaking

out, then used the alcohol soaking method in late 2003 to fill Christmas method on one of them while orders he received during a completely covering the other two with Thanksgiving artist show. Bill has been Anchorseal. When he later pulled them an enthusiastic supporter of the method. out, the Alcohol Soaked on seemed dry, and had warped only about 1/2" across Jennifer Shirley soaked one walnut the grain. When he turned it, it was dry, bowl before reading the fine print as, and has not moved since. The two she calls it, and left it in the alcohol for Anchorsealed ones had both four days. When she removed it, she heavy plastic bag and then nested into a had "Potato chipped" or cupped about Four months later the bowl exhibited no pile of shaving to conform to the 1/2". After chucking them up and problems other than the normal out of bottom of the bowl and limit the getting them round again, they still round when she finished turning it. amount of alcohol needed to cover the continued to move. Mark reports he bottom. The inside of the bowl can also will use the alcohol soaking method Conclusions:

warped/shrunk 1" across the grain and simply left it on a shelf exposed to air.

Although I collected data in a consistent manner and attempted to bowl. With a little bit of ingenuity the Dominic Greco has completed more control variables, this is not a strict amount of alcohol required to process than a dozen pieces using the alcohol scientific study. The study did not large bowls can be held to a reasonable soaking process. He has used the verify my theory of why the process process on many types of wood works. The study does show that including; Box Elder, Norway Maple, soaking green roughed out bowls in Osage Orange, Cherry, Chinese Elm, alcohol does reduce the time necessary In order to verify the results I had and Apple. When asked what the worst to bring them to equilibrium with their weeks he reports that his pieces are at a to the savings in reduced bowl losses, moisture content of 6%. None of his but the biggest saving is time. Using the Mark Kauder has used the method for 3 finished pieces have distorted as of the alcohol soak method reduces the drying

Dave Smith



The 19th Annual National AAW Symposium Overland Park **Convention Center** Overland Park, KS July 22-24, 2005

(www.woodturner.org/sym/sym2005)

The Annual AAW symposium is the highlight of the woodturning year. We meet in a different location each year, rotating throughout the regions of the continental United States. The symposium has become the most attended woodturning event in the world.

Each symposium features three days of

woodturning demonstrations and * meetings. These are lead by numerous internationally known woodturners, the highest quality woodturning instructors, * and knowledgeable local talent.

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A Fine Rotation Schedule of the World's Best Woodturning Demonstrators.

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- The Largest Woodturning Trade Show Anywhere. This Includes Tool and Lathe Manufacturers or Their Representatives as Well as Vendors of Wood and Other Materials and Supplies Related to Woodturning.

FEBRUARY GALLERY

Photos by George Wunker

Editor's Note: Since I didn't receive the name cards this month to identify

the gallery pieces, thanks to all those who brought their turnings !!!!













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FEBRUARY GALLERY - Photos by George Wunker

















Remember, our meetings are always at 1:00 on the second Saturday of the month at Klingspor's Woodworking Shop in Hickory unless otherwise noted in the Journal.

NEXT MEETING: March 12th at 1:00 pm