



September 2001 NEWSLETTER

The F.V.W.G. meets every 3rd THURSDAY of each month of the school year at 7:00 p.m. We meet at 6418 Mt. Lehman Rd. (and Taylor) in Abbotsford. Take the Mt. Lehman exit off of Hwy 1 and proceed North about 3 miles. The Hall is on the corner to your right. Next meeting is September 20th.

<p><u>Goodies – September</u></p> <p>Maguire, Marshall, Mays, McConner, Meier, and Murphy</p>	<p><u>Wood Rotation – September</u></p> <p>The following folks are kindly asked to bring a chunk of wood for the monthly raffle.</p> <p>Blenkarin, Boldt, Broomhead, Burke, Clarke and Delory</p>
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GOODIES for October

Nelson, Neufeld, Niehaus, Olsen, Paterson, Peardon

Cont....

PRESIDENTS CHALLENGE

If you were at the May meeting, our challenge was a honey dipper. Since most of us didn't know what one was, we now have been doubly challenged or punished. Our goal is to make the dipper and the honey pot. So get busy and impress us by giving up some of your time from your summer holiday fun.

UPCOMING EVENTS

September Meeting: **Membership Dues are DUE. We'll have Membership forms and disclaimer at this meeting – receipts will be issued at the following meeting.**

Try something new. Group Panel discussion.

October: **Vern Liebrant (date to be announced later) We were to visit him for lessons on green turning in May. This was cancelled due to it being a long weekend. Hopefully we'll have better luck this time around.**

October Meeting, we'll have Ian Fulford show us how to make pens.

November: **Ernie Newman for a Saturday Demo (date to be announced later)**

November Meeting, we'll have Scott Belway do a demo on Spindle Turning.

GENERAL NEWS

Perry Niehaus has offered to make stick-on nametags that are to be worn at the Meetings. It would make it easier for new members and old to introduce themselves. I am certainly one for forgetting people's names, especially when you're introduced to twenty plus persons in one night.



If you're all wondering about the new format of the Newsletter, please forward your nice comments to classic@direct.ca. This is my first try at it so bear with me.

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A few comments were tossed my way in regards to the E-mailers, and how they read it on the Internet. It is awkward reading one column, and then go back up to the top to continue the page, I tried it. The June Newsletter was 14 pages long; I got dizzy trying to read it. Printed it out, instead.

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At this time we will continue to rent Mt. Lehman Hall for our monthly meetings. We are still looking at other options.

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Don't forget that October 19th – 21st is the BC Woodworking Show & Canadian Woodturning Competition. If you haven't got something turned out for this event, then crank up your lathe and start turning. This is a great event for all, whether you're a Novice or Expert. This is a great opportunity to display our work, plus there are some great prizes to be won.

Contact Steve Hansen for more information.
FVWG will have a Demo Booth set up.
This will be my first time to go and see the show and I am going to enter the Competition. The Woodcarvers Show & Competition that was held in Richmond, BC this past May was quite an experience, so I'm looking forward to this Show.

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LIBRARY BOOKS: Please return your borrowed books for the September Meeting. It would be greatly appreciated if we had a complete inventory for the start of the new year.

NEW EXECUTIVE/COMMITTEE:

President – Murray Harris	V. President – Perry Niehaus
Past Pres.- David Broomhead	Treasurer – Gerry Blenkarn
Program Coordinator – Sam Nelson	Library – Jim Peardon
Secretary – Margaret Eisenman	Soc. Con. – Paul Weibe
Website – Kelly Maguire	Raffle – Perry Niehaus

FRIENDS OF FVWG:

These fine retailers have donated items for our monthly raffles; floor space for meetings and/or equipment for demonstrations. They deserve our consideration when we make purchases that they can supply.

Bow River Craft Woods 604-795-3462 www.bowrivercraftwoods.com

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KMS Tools (Abbotsford and Coquitlam) www.kmstools.com

Lee Valley Tools www.leevalley.com

Neufeld Hardwoods (Chilliwack) 604-795-7886

Mohawk Western Finishing Supplies

Reimer Hardwoods, Peardonville Road, Abbotsford

Windsor Plywood (Langley)

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FOR SALE:

Tecknatool TL 1200 Swivelhead – 8 speed (200 – 3600 rpm)

¾ HP Baldor motor, cont. rated, like new.

Two beds – 44 inch and 60 inch

16 inch over bed, 20+/- inches outboard.

Spur center, live center and 6 inch faceplate.

\$600.00 Contact David Broomhead

home: 604-533-1142, cellular: 604-724-2751 or broomhead@telus.net

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FOR SALE:

Dell Pentium 75 Computer with 32Mb ram, 1 GB HD, 33.6K modem, CD reader, keyboard, mouse and monitor. Great for viewing all those woodturning sites on the WEB. \$225.00 Phone Colin at 604-576-1172

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FVWG Website

Check out our Website: www.lanslide.com/fvfg/fvfg.html

If you click on LINKS you can view some of our local advertisers. Click on New Links and check out some local woodturners. Take the scenic tour.

Laservalley Technologies for all your Computer & Printer requirements. Sales and service. Perry Niehaus, our new Vice President has offered to keep my printer in good repair plus donate Toner that is required, so I can print out our Newsletters. Thank you, Perry.

Colin Delory – I wouldn't mind seeing how you put all those little pieces together to

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create such masterpieces. I'd hate to ask you how many hours does one creation take?????? Check out Pages 6 Thru 8 for instructions.

If you want to know more about Measuring Wall thickness with a Laser Pointer, check out: www.fholder.com/Woodturning/article7.htm by Fred Holder

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We did not have a great turn out for the Russ Fairfield 2 day Demo. I went on the Sunday and learned how to take a band saw apart, etc. I also learned how to correctly set up my Sharpening tool stand. It sure made a difference on the sharpened edge. Can't curse no more.

A very well written book was published for this Demo and we still have some available at a reasonable cost. There are over sixty pages of useful information, from segmented bowls, finishing secrets, or how to make zebra & diamond shaped plates. All this at One Low Price!

WELL WRITTEN - WELL READ

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PRESIDENTS COLUMN:

I hope each of you has had an enjoyable summer and that you come back to our Guild meetings full of enthusiasm and new ideas. May I remind you of the oft-quoted phrase that our club is only as good as you, the members, make it. Each member has something to contribute and the executive hopes to find a way to help you make that contribution.

I look forward to seeing you all on September 20th at Mount Lehman Hall.

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LAST MINUTE:

David Broomhead has volunteered to publish a Manual on Safety Tips. He will be asking the guild members to submit articles, references, etc... so that he can use this information for the booklet. When completed all members would be given one with there Membership.

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Open Segmented Woodturnings – Colin Delory ©



There are four distinct steps to making open segmented turnings like the one in the photo above. The design phase encompasses defining the shape and pattern, determining the number of rows and the number of segments per row and finally calculating the segment length for each row and determining the wood requirements. This is followed by the material preparation, which includes selecting the wood species and cutting all the segments. The third phase is the actual assembly of the turning blank using the jigs to position the segments. And finally the vessel can be turned and finished. I will now expand on each of these four steps.

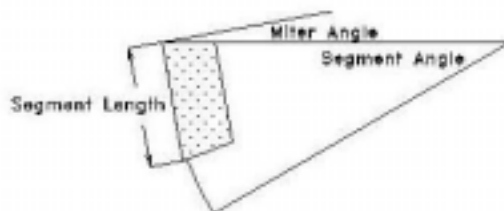
Design

The selection of a shape and pattern is a personal choice but one must keep in mind that the pattern selected is a factor in determining both the number of segments per row and the number of rows so it is best not to get too fancy.

The number of segments per row is selected such that it will work with the pattern and no segment is less than 1/4" long as anything less is unmanageable. The number of rows on the other hand is arbitrary except for satisfying the pattern requirements.

And now comes the fun part. Draw a full size outline of the vessel and measure the maximum radius of each row rounding up to the next 1/8". To achieve a 2/3 overlap, which seems to be optimum, the segment length is determined as follows where "N" is the number of segments per row and "r" is the radius of each row.

$$\begin{aligned} \text{Segment angle} & \quad A = 360/N \\ \text{Segment length} & \quad L = 2r \times \tan 2A/3 \\ \text{And the miter angle is half of } & (2A/3) \text{ r } 120/N \text{ degrees} \end{aligned}$$



These formulas are presented here for reference only as it is much easier to use a table such as shown below.

SEGMENT LENGTH VS RADIUS – Inches				
Segments ⇒	12	16	18	20
Cut Angle ⇒	10.05	7.54	6.70	6.03
Radius ↓				
1/2	0.180	0.133	0.118	0.106
5/8	0.224	0.167	0.148	0.133
3/4	0.269	0.200	0.177	0.159
7/8	0.314	0.233	0.207	0.186
1	0.359	0.267	0.236	0.212
1 1/8	0.404	0.300	0.266	0.239
1 1/4	0.449	0.333	0.295	0.265
1 3/8	0.494	0.366	0.325	0.292
1 1/2	0.539	0.400	0.354	0.318
1 5/8	0.583	0.433	0.384	0.345
1 3/4	0.628	0.466	0.413	0.371
1 7/8	0.673	0.500	0.443	0.398
2	0.718	0.533	0.473	0.424
2 1/8	0.763	0.566	0.502	0.451
2 1/4	0.808	0.600	0.532	0.478
2 3/8	0.853	0.633	0.561	0.504
2 1/2	0.898	0.666	0.591	0.531
2 5/8	0.943	0.700	0.620	0.557
2 3/4	0.987	0.733	0.650	0.584
2 7/8	1.032	0.766	0.679	0.610
3	1.077	0.800	0.709	0.637

Material Preparation

There is nothing magical about selecting and cutting the materials although the number of pieces can make the process somewhat tedious. Wood species are selected to satisfy the pattern color requirements but should be close grained to minimize failures when the time comes to actually do the turning. I cut the wood into 3/4” wide strips except where the shape requires extra width. These are then planed to a uniform thickness and finally cut into segments on a miter saw.

Assembly

Assembly is done on the lathe and starts by truing up a solid piece of wood for the base and then gluing the segments into position using the jigs. It is best to use a glue with a good initial tack such as Titebond I or Probond wood glue.

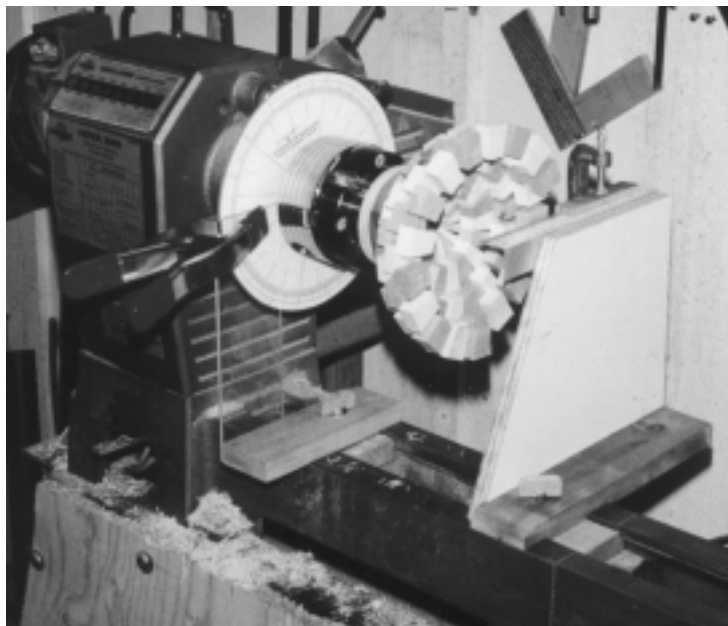
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Two jigs are needed for positioning the segments, an indexing system and a segment-positioning jig.

The indexing system I use consists of a Plexiglas disk with the required number of divisions marked on it that mounts behind the chuck, a pointer mounted on the lathe bed and a spring clamp. Since each row is offset from the preceding one in brick fashion you require twice the number of divisions on your index ring as segments required per row.

The positioning jig is a piece of 1" by 1" angle mounted on the lathe bed such that its end is at the center of rotation. The stop on the positioning jig is set to the radius of each row and segments are glued into position one at a time clamping the work with the indexing system to accurately locate each segment. The face is then trued up with a sanding board after allowing a half hour for the glue to set and the next row is glued on.

A picture is worth a thousand words so here is a picture of my setup in action.



Turning and Finishing

The actual turning is quite straight forward using normal turning tools and techniques. However one must make very light cuts with very sharp tools, as it is very easy to destroy the piece at this stage.

It is a good idea to use shaped pieces of polystyrene foam as sanding pads to help keep the edges crisp.

As for a finish, I use a spray lacquer with the lathe running slowly to get in between the segments and seal the wood. Also the spinning acts as a pump and sucks the finish onto the inside surfaces when you spray down the neck.

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SAFETY TIPS

Safely holding ultra-small pieces for band sawing:

Sometimes, it's necessary to cut extremely small pieces of stock that are impossible to grasp properly without getting your fingers well inside the red "safety zone" where fingers are not supposed to be!!! Guiding your stock with the eraser ends of two pencils can often solve this problem.

Woodturning Tip:

I know I have been told, never turn your back when your lathe is still running!! Turn it off. All this is true. But I can add, never take your EYES off your TURNING project. The tool I was using wasn't sharp enough so I reached over to grab another tool when my piece (which was a very prickly Burl) became a very unsuspected flying projectile. It nailed me good, just about broke my arm.

I have had my share of bowls flying off the lathe, the difference is, I was watching and listening to what I was doing. I took my Eyes off what I was doing and I didn't hear the piece let loose. I did not have time to get out of the way.

This was a lesson for me, and the Burl that nailed me is sitting on my bench waiting to be finished.

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**Well, that's all for now Folks. See you at the September Meeting.
Reminder: Membership Dues, we accept CASH or CHEQUES. Thanks.**

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