



# Greater Vancouver Woodturners Guild

130<sup>th</sup> chapter of the  
American Association of Woodturners



Newsletter

Vol. 1 Issue 7

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## Vice-President s Column

*John Bese*

It was a pleasure to chair last month's meeting and I was pleased to see such a great turnout. Bonnie Klein's seminar and class will have taken place before our next meeting so we would like to take this opportunity of thanking Bonnie, in advance, for sharing her extensive knowledge and skills with us. We are planning more seminars of this type for the future.

Just a word of thanks to Bruce Campbell, Andrew Forrest and Rich Schmid for agreeing to take charge of the Canadian Woodturning Competition. If any other members would like to volunteer, please contact Bruce or Andrew.

At the last Executive Meeting, a decision was made not to donate any money to "Turning on Furnishings, 2000." However, some members

### April 26, 2000 Meeting:

Focus on Fundamentals —  
Choosing a Lathe  
(starts at 6:30 p.m.)

Main Speaker — Bob Gadd  
— Tool Selection

**Meeting at Canadian Legion Hall  
1025 Ridgeway Ave., Coquitlam**

individually donated funds toward sponsoring this event.

We are presently asking for volunteers to organize a summer picnic. We are looking for either a member's home with a large yard or a venue such as Belcarra Park. The Fraser Valley Woodturners Guild has done picnics in the past to great success. The picnics are usually potluck, while buns, butter and drinks in the past provided by the Guild. We d like to do something similar with the Greater Vancouver Woodturners Guild. This is a great barbecue opportunity so bring along your meat, plates, cups and utensils plus a side dish or goodies to share with the group.

A wood auction is usually held at the picnic, providing an opportunity to raise some money for our Guild's expenses. Your donations of turning wood and turned objects will be welcomed.

We are currently looking for a volunteer to temporarily fill the position of Newsletter Editor for the May, June and July newsletters. If you are interested, please contact Art Liestman or Amie Hillaby.

This month, the members will be challenging the Vice-President for the President's Challenge. Turn either a napkin ring or a yo-yo. The person who demonstrates the most yo-yo tricks will win a nice piece of turning wood.

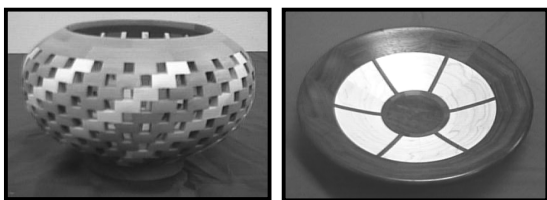
I would like to thank the members of the Executive for their reports and information on upcoming events, Sandy and Neno for presenting the Instant Gallery, and Colin Delory for his presentation on constructing segmented vessels.

If any members have extra wood for the wood exchange, it would be greatly appreciated.

### March's Instant Gallery

*Amie Hillaby & John Flanagan (photos)*

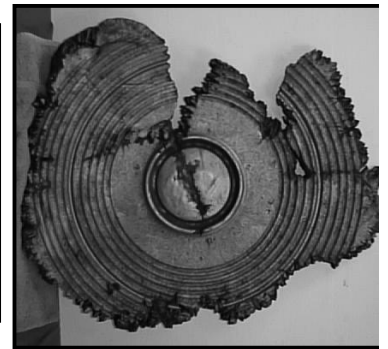
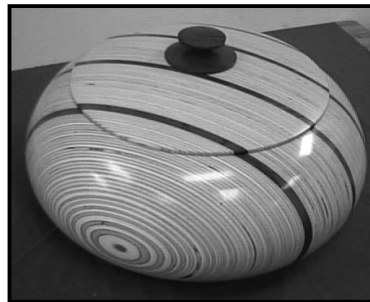
Yet again, we had a stunning turnout for our instant gallery last month. We had a total of seventeen pieces ranging from the small (Amie Hillaby's first turning attempt) to the extremely huge (John Bese's enormous laminated Baltic birch plywood & padauk lidded bowl), as well as many examples of intricacy (Cornelius Regehr's Oh, I hand-sanded to about 400 grit before I got tired and decided it was enough delicately carved walnut bowl, Ross Pilgrim's carved maple bowl and Colin Delory's fabulous open segmented turnings), plus an interesting example of a modified tail nut from Phil Laliberte, and an example of when to stop and check your wood before you hurt yourself from Sandy Dougal.



*Colin Delory — Open segmented vessel (holly, acacia & mahogany — 4" tall)*

*Bob Varner — Padauk & maple laminated bowl (11" diameter)*

We also had a slightly modified presentation of our instant gallery, special thanks to Sandy Dougal and Neno Catania. We decided to give instant gallery participants the option to have their pieces critiqued or not. Sandy did a fine job of offering insight and encouragement to all those interested in a critique. Those who were not interested in a critique got a chance to make a comment on their piece; otherwise, Sandy and Neno displayed each piece for our viewing pleasure. Thanks again to all who participated, and keep those pieces coming! We want to encourage everyone to show their stuff — great, good, beginnings, failures — whatever form it takes.



*John Bese — Baltic birch plywood laminated lidded bowl (16" diameter)*

*Bill Luck — Maple burl wall shield (26" diameter, rotated 90° — sorry Bill!)*

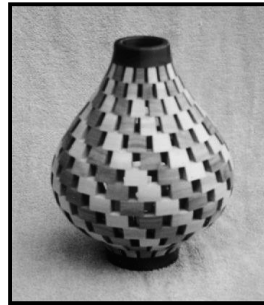


*President's Challenge — Toothpaste tube rollers (and a pair of knitting needles — from last month's challenge)*

This month's president's challenge was again apparently very challenging. Our task was to create a toothpaste tube roller. Phil Laliberte, Colin Delory, Doug Schop, Andrew Forsyth, Leif Hansen, and Bruce Campbell all

contributed something to the challenge. Thanks, too, for your participation.

**Main Presentation —  
Segmented Turnings**  
*Colin Delory '*



There are four distinct steps to making open segmented turnings like the one in the photo to the right. The design phase encompasses defining the shape and pattern, determining the number or 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 jigs to position the segments. Finally, the vessel can be turned and finished. I will now expand on each of these four steps.

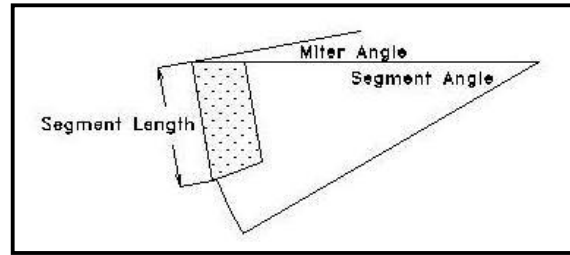
**Design -** The selection of a shape and pattern is a personal choice, but one must keep in mind that the pattern selected is a factor in determining both the number of segments per row and the number of rows so it is best not to get too fancy.

The number of segments per row is selected such that it will work with the pattern and that no segment is less than  $\frac{1}{8}$  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  $\frac{1}{8}$ . To achieve a  $\frac{2}{3}$  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.

◆ Segment angle  $A = 360/N$

- ◆ Segment length  $L = 2r \times \tan(2A/3)$
- ◆ And the miter angle is half of  $(2A/3)$  or  $120/N$  degrees



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

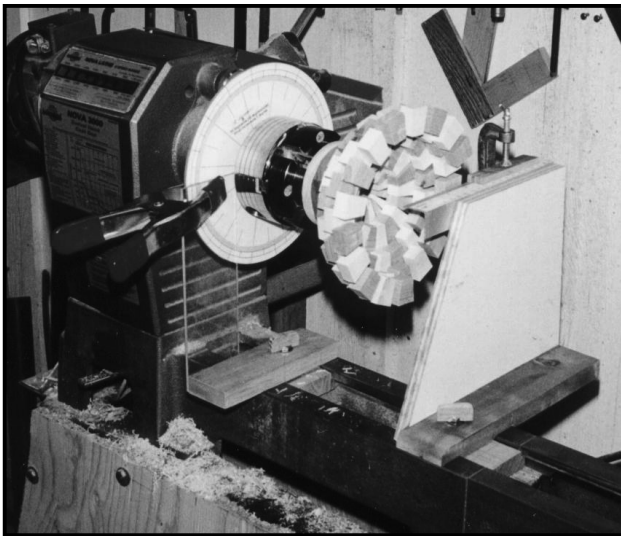
**Material Preparations -** There is nothing magical about selecting and cutting the materials, although the number of pieces can

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  $\frac{1}{2}$  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.

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.

**Turning & 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.

#### Meeting Food Providers — Reminder

Those who volunteered to provide food for April, please don't forget!

*Thanks, guys!*

#### Langley School of Fine Arts

*Bruce Campbell*

On Saturday April 15, 2000 Amie and I demonstrated on behalf of the GVWG at the Langley School of Fine Arts. This is a unique grade school (grades 1-12) that specializes in programs for children with an artistic bent. For the sixth time in 10 years the school has held their Adventure in Art Day where artists and craftspeople from the community demonstrate for the day. Amie demonstrated a print-making technique called monotyping which she is very good at and I turned tops.

Amie was off in the painting area while I set up in the woodworking room. Our friends at the Fraser Valley Guild (Paul Wiebe and Ted Lightfoot) were also there.

I had planned to do tops because they are always a hit with kids but it was even more fun after Bonnie Klein's superb talk and demonstration on Friday night. I must confess I spent most of the day trying things that Bonnie showed us at her talk.

The woodturning was a big hit and lots of people asked about the Guild and how they could get started turning wood. I had a lot of fun and suggest that we support this wonderful event in the future. Next time it would be good to have several demonstrators as well as an approved flier about the Guild.

All in all it was a very fun day!

### **Bonnie Klein — A Big Hit!**

*Art Liestman*

As you know, Bonnie Klein was here on April 14-16. In case you missed it, here's a brief summary.

On Friday night, Bonnie did a wonderful demonstration of several small scale projects including spinning tops, threaded lidded boxes, and the remarkable threaded lidded tops! She amazed us with her proficiency with the tools and her deep knowledge of the woodturning. It was a wonderfully informative evening and she even appreciated our jokes.

On Saturday, the first class began with some cutting tool theory and then proceeded to several exercises and small projects including tops, whistles, and carrot pens. Apparently, the squeal of the chatter tools being used in Belcarra could be heard as far away as Anmore! On Sunday, the members of the second class each made a threaded lidded box. Both classes included some fairly new beginners and some

more experienced turners. Everyone seemed to enjoy it. I know that I learned a lot.

This was a great first special event for the GVWG. We plan to do more of these in the future. Please give any feedback or comments on the event to the executive.

### **Upcoming Events**

*Fred Baldwin — Educational Coordinator*

Guest presenters for upcoming meetings are as follows:

April 26 — Bob The Tool Man Gadd of KMS Tools will discuss some of the latest tools and products available for wood turners as well as answer any questions you have about tools.

May 24 — Bill Smith of the Northwest Washington Wood Turners will be giving a demonstration on Goblet turning (with a barley twist).

June 28 — I always have trouble in hollowing out a bowl. Steve Hanson will be discussing and showing us his techniques to do hollow bowl turning.

September 27 — Fred Holder of the Northwest Washington Wood Turners will be demonstrating his techniques on making Chinese Balls.

October 25 — Ross Pilgrim will show us how he uses a lathe to make a watch.

November 22 — Four members will present their ideas on Turing Xmas Gifts.

That's all so far. For future meetings if you have any suggestions please give me a call — 604-224-5780 or email me at [fbaldwin@direct.ca](mailto:fbaldwin@direct.ca).

## Woodcraft Show

The Ridge Meadows Art Council is putting together a Community Arts Initiative project called Art in Unusual Places, which will focus on BC wood products. The show will be held at the old Bay Lumber Interfor site in Pitt Meadows, on June 24, 2000 from 10 a.m. to 4 p.m. This show will be open to the public, and members of the woodworking community are invited to set up a table for display of items for sale and/or demonstration of their craft. There is lots of space, and all sorts of woodcraft is going to be represented, including carving, boat building, intarsia, woodturning, etc. More information will be forthcoming in a future newsletter.

### THANKS!

Special thanks to the following for donations, expertise and help:

KMS Tools (Coquitlam) 522-5599

Mount Cheam Woodworking  
(Chilliwack) 795-9297

Neufeld Brothers Hardwoods  
(Chilliwack) 795-7886

#### **GVWG Officers, Appointees, and Volunteers**

President — Art Liestman (939-3843)

Vice President — John Bese (581-8807)

Secretary — Dave Martin (521-8327)

Treasurer — Don Hoskins (939-6808)

Member at Large — Ted Fromson  
(876-0267)

Focus on Fundamentals Coordinator  
Bruce Campbell (469-0221)

Education Coordinator — Fred Baldwin  
(224-5788)

Librarian — Dave Armatage (936-0705)

Wood Exchanger — Phil Laliberte (936-2995)

Instant Gallery Managers — Neno Catania  
(291-7898), Sandy Dougal (931-5952)

Food Chief — Rich Schmid (852-2810)

Digital Photo Guy — John Flanagan (939-0942)

Newsletter Editor — Amie Hillaby (469-0221)

Webmaster — Mark Bese (markbese@home.com)

Collaborative Challenge Coordinator —  
Bruce Campbell (469-0221)