



When Last We Met

By Fred Baldwin

Pre Meeting Demo

Steve Hansen began the June meeting by giving the club a demonstration on how to sharpen planes. He firstly suggested that one look at the book - *Fine Working in Planes and Chisels* by Tauton Press - as a good resource book.

In any successful venture planning is important. Therefore prior to sharpening it is very important to ensure that any plane has been properly set up. Steve gave a terrific overview on leveling the sole - here he used 300 grit sandpaper (mounted on glass) with cutting oil to ensure the front and back of the plane are level. Next he aligned the frog to be perfectly square to the sole with the chip breaker set back approximately 1/16". He then sharpened the blade with 240 and 400 grit sandpaper - again using cutting oil - then inserted the blade, chip breaker and cap iron. Once all the internal parts were installed he checked that the blade was square to the sole then proceeded to show us just how clean a cut the plane would make - such that two boards put together fitted exactly. Thanks Steve.

Business Meeting

Bob Bedier thanked Steve Hansen and presented him with a Lee Valley gift certificate.

Bob and Bill Ophoff discussed the Ridge Meadows show and asked for volunteers for the Booth and after almost canceling the event they managed to get enough volunteers to proceed.

Bob mentioned that to the best of his knowledge the Yo-Yo workshop went well.

Ted Fromson gave us a quick update on the Richmond Carvers show - we were again a big

hit - and thanked all volunteers.

Dennis Reid mentioned there would be a sawdust huddle the Saturday after the September meeting at Bill's shop to get started on Xmas Toy projects. Bob offered free wood to anyone who is interested.

Marco Berera discussed an invitation to put our 2x4 projects on display in July 2001 at the Mt Seymour center - consensus was this is a great idea.

Jan Dicks has raffle tickets for the Cloverdale show and ask that every member take a book.

Bob noted that if anyone is interested in bulk sandpaper (80-2000 grit) contact Royce Sales: 1-800-684-9262 - www.roycesales.com.

Finally Dennis Reid wants to organize a wood party for some maple and cottonwood for Bill's stove the second weekend in August. Call Dennis if you want to help.

Raffle

Again Jan did a terrific job on the raffle (big thanks to Don Fralick for all the goodies he brought in) and the club raised \$134.00. Thanks Jan, but next time how about pulling my ticket... Big winner was John Flanagan who won a set of forstner bits.

Show and Tell

Phil Laliberte brought in a rough bowl, given to him by someone in California, and asked if anyone could identify the wood. Lacewood was the consensus.

Marco also showed us his re-turned bowl. His wife bought a bowl at a garage sale and gave it to him to create something. A little off here, a little there and he held up a very nice (re-turned) bowl.

The Pacific Woodworkers Guild is a non-profit association of British Columbia Craftspeople dedicated to excellence in woodworking. Guild members meet on the third Tuesday of each month (except July and August) in Richmond, B.C.

The newsletter is published monthly, ten times per year, and distributed free to members and associate members. Membership is available to anyone interested in any form of fine woodworking. Membership fees are \$25 for twelve months; Associate membership fees (newsletter only) are \$15 for ten issues.

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Newsletter submissions should be directed to the newsletter editor, Steve Hansen, via email: shansen@bc-alter.net or call 585-0638.

Guild Executive

Elected Officers

<i>President</i>	Bob Bedier
<i>Vice-President</i>	Bill Ophoff
<i>Treasurer</i>	Lou Hafer
<i>Secretary</i>	Phil Laliberte
<i>Members-at-Large</i>	Paul Townsend Bill Fox Art Liestman Dan Lemire

Committees

<i>Newsletter - Publisher</i>	Paul Townsend
<i>Editor</i>	Steve Hansen
<i>Labels</i>	Murray Mackinnon
<i>Mailout</i>	Fred Otte
<i>Reporters</i>	Marco Berera Fred Baldwin Murray MacKinnon Bob Vergette Denis Reid
<i>Webmaster</i>	Paul Townsend
<i>Meeting Entertainment and Workshops</i>	Tony Carter
<i>2x4 Challenge</i>	Paulin Laberge
<i>Richmond Carvers' Show</i>	Ted Fromson
<i>BC Woodworking Show - Delta Workshop</i>	Denis Reid Art Eberwein Ron McLeod
<i>PWG Booth</i>	Denis Reid
<i>Christmas Toy Workshop</i>	Jan Dicks
<i>Fundraising/Charity Raffle</i>	Bob Bedier Art Liestman
<i>Library</i>	

Guest Speaker

English long bows. Not quite a dying art as demonstrated by Roy Day. Roy is a retired tool and dye maker, and at the urging of his brother, began his first long bow in 1993 and hasn't looked back since then. Roy brought in ~ 8 long bows and a selection of arrows all made by himself.

The best wood is Yew where the sapwood is on the outside and the heartwood inside. One has the perfect combination of stretch and compression in one wood. In the days of old Roy mentioned that the English insisted the Spanish traders include Yew staffs with all goods they sold in England – giving the English a non ending supply of Yew bow wood which in turn the English used against the Spanish in wars. He mentioned that a good archer could loose 20 arrows a minute.

In that yew is getting harder to find, Roy showed examples of laminated long bows made from combinations of yew, bubinga, hickory, osage orange, etc.

When laminating he uses G2 epoxy for strengthen and flexibility. All bows are rough cut then he does all his finishing with a cabinet scraper.

When finished bows can have a draw strength of 38 lbs to 100 lbs and shoot arrows up to 225 yards.

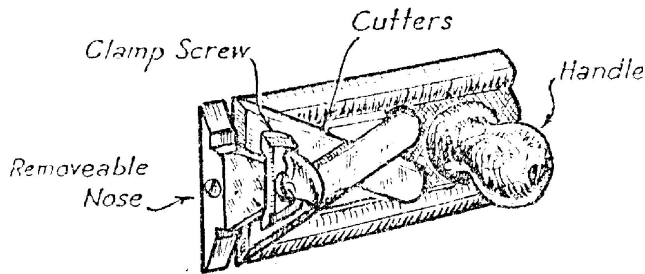
Seems the best material for arrows is in our own back yard – Port Orford cedar (Lawson cypress) or if you can get some – Norwegian Scotch pine.

Most bowman buy the finished arrow blanks for ~ \$6.00 then add turkey quill for the feathers. A typical long bow takes about 3 days to make and retails for ~ \$650.00 US.

Roy mentioned that there are meets every month all over the Northwest and upwards of 500 people can be in attendance. If you have questions for Roy call him at 462-1170.

Unclassifieds

- Wanted alive or restorable - side rebate plane as per picture. I would be very grateful for any leads here. Murray Mackinnon 986-5741.



- Stanley #50 plough plane for sale. Murray Mackinnon 986-5741.
- Half finished 16' sailboat to give away. It is called a "day sailer" and has (when finished) a small cabin. It is built to the gunwhales and I have about 8 sheets marine grade ply to finish the superstructure plus the plans and a box of misc. fittings. It is trailerable and has a drop keel (made) of fiberglass. Tony Carter 303-1914.

Next Meeting

The next meeting of the Pacific Woodworkers Guild will be held on September 19, 2000. The speaker is Chuck E. Chizzel, a local carver who makes his living doing fancy and innovative carvings. His speciality is carving from "live" wood - he carves in stumps (8 feet high) of trees that have been felled. He also makes coffee tables and lanterns etc. He will talk on different species of wood and how he uses them and how he gets his inspiration for his carvings.

Heads up on the BC Woodworking Show

By Ron McLeod

At our recent executive meeting there was some discussion of the BC Woodworking Show. Our booth will be much the same as last year with a few enhancements gleaned from the blue book that Bob instigated. Most of these deal with more and or improved signs. If anyone has any last minute suggestions bring these up at the September meeting.

It is time now to start thinking about display items. We need the usual; Two-by-Four Challenge entries and general works of wood art. Last year we had a good display of work from the guild members. Let's try for as good a display this year. Start thinking about items you might want to display. If you can't make it to the show you might want to bring an item or two to the September meeting and leave them in the care of the show committee.

Start planning to set aside some of your time to help man the booth and the Delta workshop. I'll have some sign up sheets to pass around at the next meeting. We need time commitments from as many as possible.

We also are in need of items to include in the raffle along with the second tool box. If you have anything in your inventory you can bare to part with bring it along to either the September or October meeting.

See you all at the September meeting.

Shrinkage of Wood

By Bob Vergette

I have a number of projects in which an element along the grained wood is glued solidly to another across the grain and have generally not had a problem with warpage due to shrinkage. Maybe I have been lucky because if you do not allow for the seasonal contraction and expansion of wood, problems can result.

In the drying process lumber shrinks both radially (in the direction from the centre of the tree) and tangentially (around the circumference of the tree) but not in length.

In unseasoned wood moisture exists in two forms, as liquid water in the cell cavities and as moisture held within the cell walls. Freshly cut Red Oak has a moisture content of 80% in the heartwood and 69% in the sapwood. Some other woods have a higher moisture content in the sapwood than the heartwood which makes sense intuitively as this is closest to the part of the tree that is actively growing. From the tables it appears to be random which species has the higher moisture content in which part.

In the drying process the free water is lost first. Once the wood reaches a moisture content of about 28% the water starts to be lost from the cell walls and they begin to collapse and the wood shrinks. No shrinkage occurs as the wood dries from 80% to 28%.

The shrinkage does not occur evenly in all directions and the tangential shrinkage is about twice that in the radial direction. For example Red Oak shrinks 4.0% radially and 8.6% tangentially. It is for this reason that quarter sawn lumber is preferred for large flat glued panels as less allowance has to be made for shrinkage. It is also due to the differential shrinkage that flat sawn boards cup away from the pith as they dry.

In most climates the moisture content of unfinished thin sections of wood kept indoors will fluctuate from 4% to 8% from summer to winter. Therefore a quarter sawn panel of Red Oak 12 inches wide will vary from summer to winter by about 1/8th of an inch and if it was flat sawn by about 1/4 of an inch. The reason that we do not have more problems with shrinkage is that the moisture content of the wood will vary by less than 1% if it is well coated with a finish that prevents moisture from passing through from the air to the wood.

References:

- *Fine Wood Working Techniques 1*, Taunton Press
- *Furniture & Cabinet Making*, John L. Feirer
- *Understanding Wood*, R. Bruce Hoadley.

[This article originally appeared in the January 1993 PWG Newsletter.]

Calendar

September 23, 2000 - *Sawdust Huddle* at Bills workshop to get a head start on making toys for the Xmas collection.

October 17, 2000 - *PWG Meeting*. Guest speaker is Morris Elliot - Canoe builder and re-finishing.

October 20-22, 2000 - B.C. Woodworking Show. Cloverdale Fairgrounds, Surrey B.C.

November 21, 2000 - *PWG Meeting*. Guest speaker is Les Jocsza from Forintek. He was a speaker about 2 years ago on the properties of wood.

November 25, 2000 - Annual Christmas Toy Workshop.

December 19, 2000 - *PWG Meeting*. Pre meeting demo will be the setting up of the annual Xmas tree donation with our hand made ornaments. Guest speaker will hopefully be Brent Gloecker who works in the movie industry and is also a sculptor.