



President's Column	1
Bruce Campbell	
2007 AAW Symposium - Portland, Oregon	2
Al Hockenbery	
Calling All Volunteers	3
Steve Kent	
Gregg Parsons Makes Sparks! Sapperton Hall Survives!	4
Kerry Deane-Cloutier	
Coming Events - Alan Leland - June Meeting Demonstrator	7
Art Liestman	
Thanks	7
Merv Graham	
Focus on Fundamentals	8
Claudia Hayward	
Bucking Box - A Safe Way to Trim Logs	8
Michael Finklestein	
Marco Does the Eccentric Snake	9
Marco Berera	
Classifieds & Announcements	10

President's Column - Bruce Campbell

Many thanks to Gregg Parsons for his excellent presentation on working with metals. While it was not directly about woodturning it certainly helped me to understand why we see a variety of performances from different tools out there. Well done, Gregg! Now, if I can only afford a whole new set of cryogenically tempered tools.....

By the time you read this our Swap Meet will be over. As I write this my truck is full of things I don't use but are too "valuable" to throw away. Maybe my truck will be empty as I drive home tomorrow or maybe I will have a different load of "treasure".

This will be our last meeting before the summer break and just a few days before the gala AAW Symposium in Portland. A few people are still looking for rides or passengers. If you are one of them let me know and I will see if I can help to put last minute rides and riders together.

If you have not already done so, you need to register for our Symposium in September



Shoe-ing Off - Marco Berera - Spalted Maple Ebony - 9in x 10in - Satin Lacquer

(see details at <http://www.gvwg.ca>). Remember, the Early Bird discount ends at the end of this month. Also, if you want to take any

(Continued on page 2)

2007 West Coast Roundup Symposium Reminders

The early bird discount expires June 30, so sign up now!

(See <http://www.gvwg.ca> for details)

We still need volunteers for the symposium. See page 3

Next Meeting: June 27, 2007
Sapperton Pensioners' Hall
318 Keary St., New Westminster.
Meeting starts at 6.30

June Food Suppliers:
Robert McConnell, Peter McLaren, David Middleton,
Dan Moleschi, Jackie Montgomery, Ralph Myhill-Jones

Main Event:
Alan Leland - See the article on pg 7



Instant Gallery:
Natural Edge Platter - David Wagner - 19in x 1.5in - Mineral Oil - Bees Wax



Instant Gallery:
Cup N Saucer - Colin Delory - Maple - 5.5in x 4in - Oil

“Bring a toy for the give back to the community”



Instant Gallery:
Bowl - Merv Graham - Figured Maple - 10in x 2.5in - Tung Oil

President’s Column (cont.) Bruce Campbell

(Continued from page 1)
of the classes just before or after the Symposium you need to do let Merv Graham know. Also, remember that priority goes to those who both register for the Symposium and volunteer to work at it. To register as a volunteer contact Steve Kent (see the end

of the newsletter for contact information).

Finally, the President's Challenge for this month is to turn some jewelry. I hope to see lots of examples on the table at the meeting.

2007 AAW Symposium, Portland Oregon Al Hockenbery

The 2007 AAW symposium is June 29-July 1 in Portland, Oregon. This year there are more demonstrations, evening special interest sessions, four gallery shows, a youth program, Pop award winners, and a great city to visit.

Five ways to a better Symposium experience:

1. Register by 15 May to save late registration fee [too late now!]
2. Bring a toy for the give back to the community. Toys will go to the Doernbecher Children’s Hospital. A few minutes at the lathe will bring many hours of enjoyment to some child. Suggestions include finger tops, pull string tops, toy cars and trucks, as well as rattles for the little ones...
3. Bring a YOUTH! Bonnie Klein, Nick Cook, and Larry Miller will teach hands on classes to young people ages 10 through 17. The youth register FREE when accompanied by a fully registered adult. As we did last year, we will give away 25 JET Midi lathes with stands, 25 sets of Crown tools, 25 Nova Midi-chucks and 25 face shields to 25 of the lucky youths. Bring your kids or grandkids. Register early, June 12, 2007 is the absolute latest. <http://www.woodturner.org/sym/>

sym2007/youths.cfm

4. Plan your days! View the draft of the biggest most extensive woodturning demonstration schedule the world has ever seen at: http://www.woodturner.org/sym/sym2007/grid_1.pdf

5. Become part of the symposium, VOLUNTEER. The symposium, like most AAW activities is run primarily by members pitching in. Volunteers do most of the work along with a small paid staff of conference coordinators. Please consider volunteering for couple of hours. You will get more back than you put in. We need help with Room Assistants, Youth classes, and Instant gallery.

INSTANT GALLERY: help check in pieces, place them in the gallery, help visitors. To volunteer for the instant gallery Email Lynn Geller at: lynngel@pacbell.net

ROOM ASSISTANT: provide assistance to the Demonstrator or Videographer as requested and cleanup after the session. New this year, we'll have a cadre of top notch videographers to operate the cameras so this will not be a Room Assistant duty. You do have to sit up front. Please go to <http://>

(Continued on page 3)

2007 AAW Symposium, Portland Oregon (cont.)

Al Hockenbery

(Continued from page 2)

hockenbery.net/volform.htm and complete a web form that will be e-mailed automatically to Paul Rasmusen (this years Volunteer Coordinator) when you hit submit. Please hit submit only once as each time sends an e-mail.

YOUTH ASSISTANT: The Symposium will include a youth class room for 25 students. We will have 8 class sessions, two that are 3 hour long and 6 that are 90 to 110 minutes

long. The instructors would like to have 10 to 12 assistant in each session. The duties correspond to the assistant's experience and confidence. It can be as simple as calling the instructor to help a student that needs a little extra help to actually guiding the student directly. Seeing a kid's eyes light up with wonder and accomplishment is quite a reward. Please go to <http://hockenbery.net/volform.htm> as mentioned above.

Calling All Volunteers

Steve Kent

Once again we are calling on you, the members, to pitch in to make our 2nd West Coast Roundup an enormous success. Help will be needed in two different categories: those that will be registered attendees and those who are not.

REGISTERED ATTENDEES

- **Audio Visual people** as well as assistant to Demonstrator for each rotation. Duties will also include general clean up after demo and other duties as assigned.
- **Material supply:** assisting with material gathering and distribution, possible wood preparation and duties as assigned by team lead
- **Banquet helper:** silent auction etc. and duties as assigned by team lead
- **Set up and tear down** of demonstration rooms Thursday night before and Sunday night after, and duties as assigned by team lead

GENERAL HELPERS - Those who will not be attending rotations

Registration and Reception: sign in and distribute packages to attendees

Instant Gallery: set up and tear down of instant gallery, maintain a secure area for gallery pieces, answer questions and give general info to public, and other duties as assigned by team lead

Set up and tear down of demonstration rooms Thursday night before and Sunday night after, and duties as assigned by team lead

Spousal program: could involve arranging sightseeing excursions, shopping, onsite crafts etc. and duties as assigned by team lead

Drivers to pick up and welcome Demonstrators at the Airport

You can contact me at 604-937-0145 in the evening, or by e-mail at mailto:stevenr_kent@TELUS.net Please insert Volunteers in the subject line. I will forward your names to the appropriate team leads. For those

(Continued on page 4)



Instant Gallery:
Bowl - Jay Mapson - Elm - 6in x 4in - oil - 0000 steelwool



Instant Gallery:
Bowl - Bruce Campbell - Western Maple - 8in x 4in - Mineral Oil

“make our 2nd West Coast Roundup an enormous success”



Instant Gallery:
Dish - Murray Stewart - Walnut - 8in x 1-5in - Lacquer



Instant Gallery:
Winged Bowl - Merv Graham -
Horse Chestnut - 8in x 4in -
Wipe On Poly

“a demonstration of heat treating that had many of us wondering if we were going to have a hall to meet in this month”



Gregg Makes Sparks

Calling All Volunteers (cont.)

Steve Kent

wanting to help with the Audio/Visual and Demonstrators, check the GVWG web site for the rotation schedule and we can work together so you can see the demo's you want up close and personal. I will try to accommodate all

your requests, on a first come first served basis. If you are able to take a more active role as a second to a team lead this would be greatly appreciated. With your help we will make this another GREAT SYMPOSIUM.

May's Main Event: Gregg Parsons Makes Sparks! Sapperton Hall Survives! - Kerry Deane-Cloutier

Gregg finally made good on his promise to teach us all about metal working. He opened up with a power point presentation, followed by a demonstration of heat treating that had many of us wondering if we were going to have a hall to meet in this month. Despite our fears, it was an entertaining and informative presentation.

In the first part, we learned factoids to drop into casual conversation. Did you know the Hitites were a secretive bunch that were able to keep the secret of how to make iron for 400 years? That although steel was used in India from around 250 BC, the backwards Europeans did not figure it out until 400-500 AD? From there we went onto figuring out the mysteries of how steel is numbered and what characteristics different elements bring to steel. From a woodturner's perspective, two common steels are:

- T1 steel: 18% tungsten, 4% chromium and 1% vanadium, considered the best general purpose high speed tool steel
- M steel: high molybdenum content, resulting in high strength, high hot strength, high hot hardness and high wearability

We then moved on to the question of how you identify the steel you have. The answer to that question is apparently “not easily”. The difference between cold rolled and hot rolled is fairly clear. Cold rolled steel is formed at room temperature, resulting in a tougher surface due to work hardening. The surface appears shiny and clean. Hot rolled steel is red hot when formed into its shape, and a black scale forms on it as it cools. If you want to go

further, try the spark test, which is fun and makes you look like you know what you are doing. It looks simple, just hold the steel against the top of the grinding wheel face, and watch the sparks given off. Look for colour, stream length, volume, spark type and so on. In order to get some information from the test, you will need to compare the piece you are testing against the sparks made by steel you have already identified. Even with that, the best you can probably hope for is a rough idea of the identity of the steel you are testing.

We then moved on to heat treating, and the real fun began. Some key terms are:

- Austenite: a metallic, non magnetic solution of carbon and iron that is formed in steel when heating above the critical point.
- Annealing: the process of heating steel to the critical point and cooling very slowly, which refines the grain structure and renders the steel into a softened state
- Hardening: the process of heating steel to the critical point then cooling it quickly, which causes the grain structure to form in a fashion to make the steel hard and brittle
- Critical point: the point during heating when austenite formation is complete, and the steel becomes non-magnetic.
- Normalizing: the process of heating steel to the critical point and air cooling, steel still retains some of its hardness and toughness

(Continued on page 5)

May's Main Event: Gregg Parsons Makes Sparks! Sapperton Hall Survives! (cont) - Kerry Deane-Cloutier

(Continued from page 4)

- **Tempering:** the process of reheating steel after hardening but to a much lower temperature (max 575 F), which decreases some of the brittleness and increases the toughness.

Normalizing refines and equalizes the grain structure of steel that has been coarsened through forging operations. Reheat the item to the temperature dictated by the carbon content of the steel (e.g. 20 point to 900 C, 50 point to 850 C, 80 point to 790 C, 100 point to 850 C), allowing one hour of heating per inch of diameter so the heat penetrates fully. Let it cool on a fire-brick in the air, and do not forget to label it "HOT!".

Annealing softens steel that has become hard through cold working. Heat the item as dictated by the carbon content (e.g. 20 point to 875 C, 50 point to 790 C, 80-100 point to 760 C), again allowing one hour per inch of diameter. The next step requires either (a) a furnace, or (if I understood Gregg correctly) (b) a self-cleaning oven and an absent spouse. Leave the item in the "furnace" and let it cool slowly at a rate of 4-5 C per hour until it reaches 650 C. In the interests of harmony with the chef in your home, you might want to leave annealing to the professionals.

The one Gregg showed us was hardening a chisel by the "letting down" process, water hardening a simple forged tool made from 60-point carbon tool steel. After the chisel has been forged and rough ground to shape, heat it to hardening temperature, in this case 790 C, a friendly cherry-red colour. Check the tool to ensure it is non-magnetic to verify the temperature. Borax melts at 1366 F, which is just above the critical point, so this is another way to check. Once there, quench the cutting end with 1/3 of the length in the water, moving it up and down slightly as you swirl it in a figure of eight. It would not hurt to chant some Latin incantations here (quando omni fluncus moritati, or caveat canem, or something). Once the immersed tip is cool enough to touch, remove it from the water and polish the tip rapidly with a coarse emery cloth. Note that the body will still be dull red – do not touch or polish it! Watch the tempering colours ad-

vance from the hot body towards the tip. When the desired tempering colour reaches the tip, immerse the whole tool in the water to arrest further tempering. Finally, dress the tool to correct the cutting edge and test it out.

The tempering colours for different tools are:

Pale yellow	lathe centre
Light straw	drills
Dark straw	taps, dies
Yellow brown	axes, chisels
Purple	centre punch
Violet	cold chisel
Dark blue	springs
Pale blue	screwdrivers
Grey	original hardness

The figure 1 below shows the colours to look for (reprinted with permission from the threeplanes.net website – see below for the URL). For forging, the temperature range is 760-816 C. For tempering the temperatures are below 260C.

If you are interested in making your own tools, Exact Metals (604) 294-3001, the Metal Mart in Langley or the Metal Supermarket in Richmond are sources for steel. The following web sites will also either assist or entertain:

<http://www.navaching.com/forge/heat.html> - a good article on building a small kiln for heating using a propane torch, also an Austenite/critical Point graph

<http://www.threeplanes.net/toolsteel.html> - a good site for heat treating, also the tempering chart

<http://www.1stconnect.com/anozira/SiteTops/tools/metallurgyFAQ.htm#DEFINITIONS> - definitions and steel descriptions

(Continued on page 6)



Gregg Makes Like Thor



Instant Gallery:
Dish - Murray Stewart - Horse Chestnut - 6in x 4in - Lacquer

“The next step requires either (a) a furnace, or (if I understood Gregg correctly) (b) a self-cleaning oven and an absent spouse”



Instant Gallery:
Burl Bowl - Davd Wagner - Maple Burl - 29in x 4-5in - Mineral Oil



Instant Gallery:
Jewelry Box - Bruce Campbell - Maple on Aluminum - 4in x 4in - Hut Turning Polish



Instant Gallery:
Bowl - Merv Graham - Figured Maple - 15in x 2.5in - Tung Oil



Instant Gallery:
Bowl - Jay Mapson - Elm - Unknown Size - Oil Steel Wool



Instant Gallery:
Re-Turned Value Village Bowl - Bruce Campbell - Pine - 10in x 5in - Liberon Turners Polish

May's Main Event: Gregg Parsons Makes Sparks! Sapperton Hall Survives! (cont) - Kerry Deane-Cloutier

(Continued from page 5)
<http://www.youtube.com/watch?v=u6CQ0WtjxxI> – a cool video on forging a patternwelded Damascus steel blade

Our thanks to Gregg for not only taking us through this huge and complex topic, but also for providing top quality handouts and loads of websites to go to for more infor-

mation. This article reproduces some of those handouts, with permission of the authors; specifically the colour chart from threeplanes.com, the description of heat treating techniques (normalizing, annealing and hardening) adapted from the 1974 classroom notes of D.D. Caspersen and the above definitions from Istconnect.com/

2000°F	Bright yellow	1093°C
1900°F	Dark yellow	1038°C
1800°F	Orange yellow	982°C
1700°F	Orange	927°C
1600°F	Orange red	871°C
1500°F	Bright red	816°C
1400°F	Red	760°C
1300°F	Medium red	704°C
1200°F	Dull red	649°C
1100°F	Slight red	593°C
1000°F	Very slight red, mostly grey	538°C
0800°F	Dark grey	427°C
0575°F	Blue	302°C
0540°F	Dark Purple	282°C
0520°F	Purple	271°C
0500°F	Brown/Purple	260°C
0480°F	Brown	249°C
0465°F	Dark Straw	241°C
0445°F	Light Straw	229°C
0390°F	Faint Straw	199°C

Figure 1: Steel Colour Temperature Chart

Coming Attractions: Alan Leland, June Meeting Demonstrator - Art Liestman

For the final meeting of the season, we have a special guest demonstrator. Alan Leland is a well-known wood-turner, furniture maker, and turning teacher from Durham, North Carolina. He is known for his functional work including stools, ornaments, candlesticks, and balusters. Alan has demonstrated at several AAW conferences and often demonstrates for AAW chapters. Since he'll be in the area attending a Furniture Society conference in Victoria, we were able to convince him to give us a demonstration

at our regular monthly meeting. After our meeting, he'll be heading to Portland for the AAW symposium.

At the meeting, Alan will demonstrate turning an ornament and (if there is time) he'll show us a quick and easy way to turn a sphere. During the demo, he'll give out lots of tips and helpful advice that can be applied to various other projects. If you'd like to know more about Alan, check out his website at <http://www.alanleland.com>.



Alan Leland

Thanks

Merv Graham

To the 12 people who volunteered to show the talents of the members of our guild I would like to declare my heartfelt thanks. These people managed to cover the 28 spots necessary and gave a great show. To the novices who showed their stuff for the first time I say GREAT SHOW!! We had a good time though the audience was light they were still delighted to see us there. However, if we are to continue to hold this event, there will need to be greater participation. We cannot

expect that the amount of time needed to be covered should be done by so few. Thanks to Lance Rossington, Bob James, Neil Elmer, Rich Schmid, Ted Fromson, Peter McLaren and Len Sawyer for giving their time. My special thanks to Gregg Parsons who covered 5 shifts; and Murray Stewart, Jay Mapson, and Al Koehn who did double shifts. The success of this event belongs to you.

THANK YOU.

“if we are to continue to hold this event, there will need to be greater participation”



Merv, Almost Smiling



Carver's Show - "Something Fishy" - Marco Berera



Carver's Show - Inside Out Ornament Merv Graham



Carver's Show - "Shoeing Off" Marco Berera



Carver's Show Table



President's Challenge:
 "A Pain in The Butt"
 Merv Graham



President's Challenge:
 "An It or Thing"
 Murray Stewart



President's Challenge:
 "Plug n Hole"
 Bruce Campbell

Focus on Fundamentals

Claudia Hayward

Summer is here but September is not far away. Already I am starting to think about planning for the new sessions of FOF. This year I am hoping to get some new faces to volunteer to show your stuff - its really not as scary as you think! And if you want to pair up with a buddy and do a module, that would be great! I'm also planning on adding a new module called "Ask the Experts". Similar to the round

table discussion on design that we have at every second meeting, this would be a place to bring technical problems. Questions such as "how do I deal with this tearout?" or "there's a crack in this piece of wood...how do I fix it?" will be open for discussion. So plan on bringing your problems (the woodturning type that is!) to the September meeting.

Bucking Box - A Safe Way to Trim Logs

Michael Finkelstein

[This article is reprinted with permission from the November 2006 issue of the newsletter of the Woodturners Guild of Ontario. You can find their newsletters at <http://www.wgo.ca/newsletters/newsletters.htm>]

My simple shop-built "bucking box" took 15 minutes to build. I use it whenever I have to rip logs with my chainsaw, as it firmly supports most logs in the center cavity. As long as you have a slightly curved log in the center portion, your work will be stable and the log will not move while rip-cutting. I also use a 3' long C-Clamp for added support when cutting cross-grain. If the log has an irregular curve, I use an 8" x 5" wedge to help stabilize the log in the center cavity. I also use it shape logs into a bowl blank when they are too high for my band-

saw.

Note: the actual lumber dimensions (net) are 1 1/2 x 3 1/2 for 2 x 4 and 5 1/2 x 1 1/2 for the 2 x 6 lumber

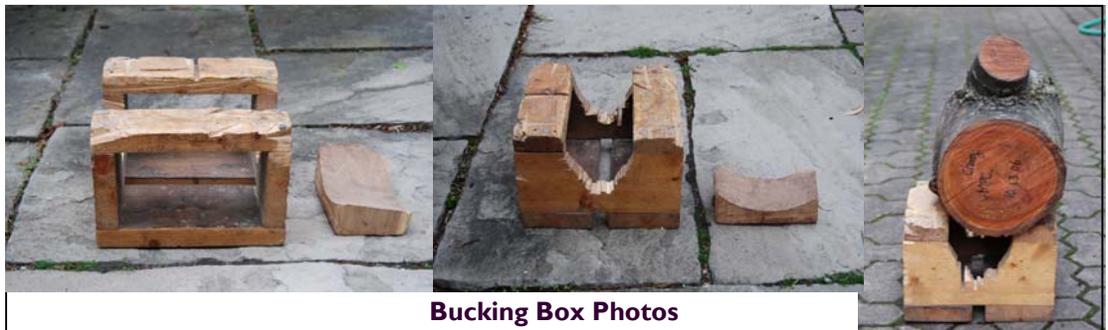
Materials:

2 pieces of 2' x 4" spruce, fir or pine.
 4 pieces of 2" x 6" lumber

Carpenters Glue or TiteBond

Construction: Find the mid-point on the front 2 x 6 piece and draw an arc from 3 1/2" on both sides, then cut out the half-circle on a bandsaw. Glue the pieces together, use dowels for extra support. Do not use screws or nails; your chain will always find the nail by accident!

Always wear protective gear and follow chainsaw safety guidelines when using your chain saw.

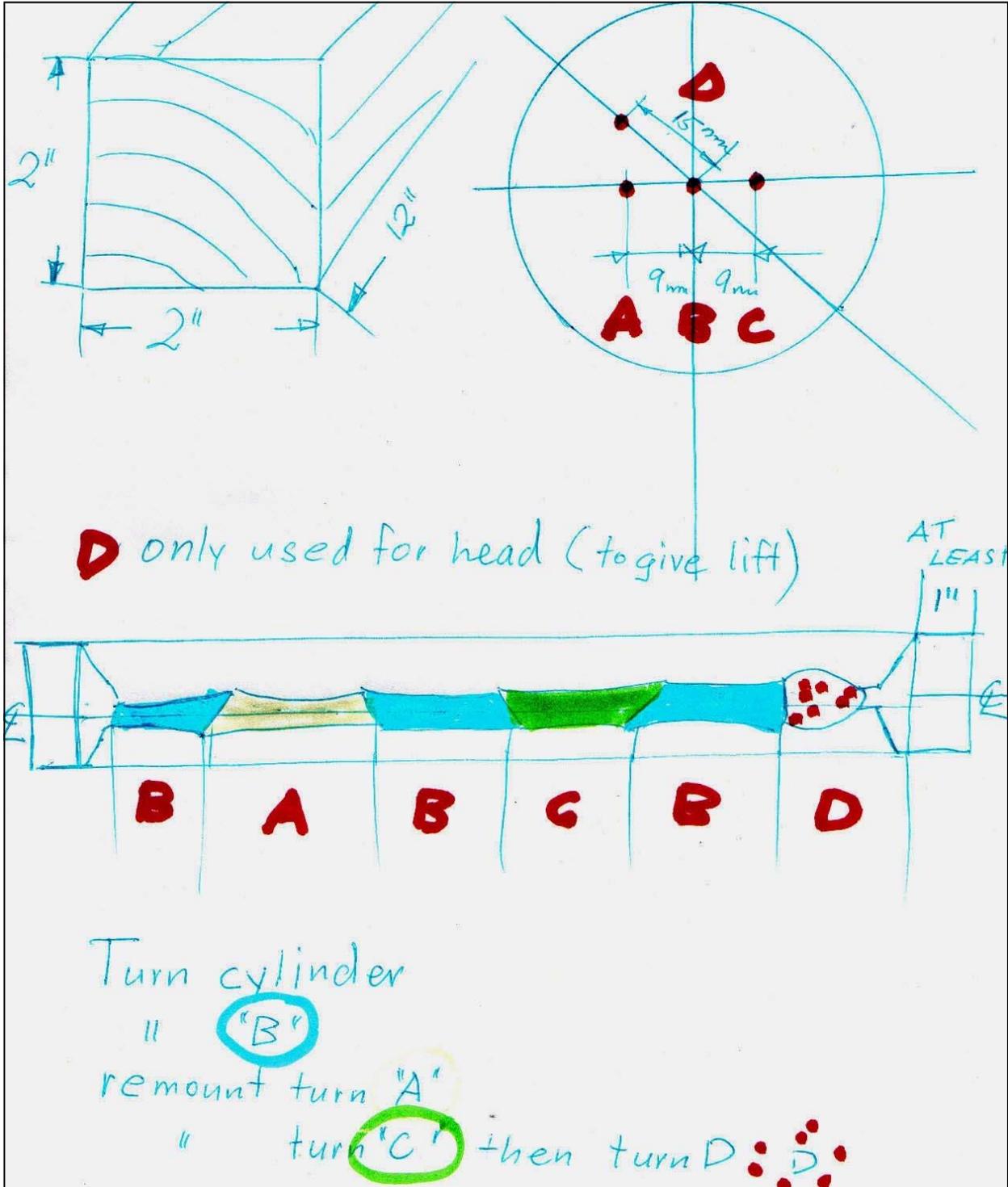


Bucking Box Photos

The Eccentric Snake

Marco Berera

A long time ago Marco demonstrated how to do the eccentric snake (kinda sounds like a dance, doesn't it). At last we have space in the newsletter and can print the drawing.



Classifieds & Announcements:

FVWG Shop Crawl: Come out to the last of this years shop crawls:

On June 30, 2007 the hosts are:

Allan Cusworth: 7305 - 198 St, Langley

Colin Delory: 19251 - 76 Ave, Surrey

On August 28, 2007 the hosts are:

Bruce Campbell: 3228 Harwood Ave, Coquitlam

Rich Schmid: 2832 McBride Avenue, Surrey

Turning 101: Turning 101 is taking a break over the summer, but in fall you can look forward to spheres and Christmas ornaments.

GVWG Officers, Appointees and Volunteers

PRESIDENT

Bruce Campbell 604-944-3028

VICE PRESIDENT

Larry Stevenson 604-438-3947

SECRETARY

John Weir 604-787-9220

TREASURER

Merv Graham 604-272-3525

MEMBERS AT LARGE

Colin Delory 604-576-1172

Gerry Vickers 604-463-0760

Steve Hansen 604-585-0638

Marco Berera 604-274-7594

Allan Cusworth 604-534-6223

Georges Leroux 604-541-4710

Steve Kent 604-209-3700

Rich Schmid 604-538-7012

Claudia Hayward 604-462-7597

Don Hoskins 604-939-6808

LIBRARY ACQUISITIONS ADVISOR

Don Hoskins 604-939-6808

EDUCATIONAL COORDINATORS

Marco Berera 604-274-7594

Steve Hansen 604-585-0638

Larry Stevenson 604-438-3947

LIBRARIAN

Rich Schmid 604-538-7012

FOOD CHIEF

Lance Rossington 604-462-9985

FOF COORDINATOR

Claudia Hayward 604-462-7597

TURNING 101

Gerry Vickers 604-463-0760

NEWSLETTER

Dennis Cloutier & 604-468-0605

Kerry Deane-Cloutier

gvwg@runningdogwoodworking.com

DIGITAL PHOTOGRAPHY

Gregg Parsons 604-542-9066

WEBMASTER

Ivan Cvekic 604-275-8459