



VOLUME EIGHT—ISSUE 9

June, 2006

**PRESIDENT’S COLUMN:**

*Bruce Campbell*

I was very impressed with the number of bowls that appeared at our last meeting on behalf of the Empty Bowl Project last month. I did not get the exact count but I think it was over 50. As an afterthought I contacted The Loving Spoonful Society and offered that the Guild would demonstrate on the evening. They were delighted and asked if I would volunteer. On checking my schedule I discovered that the event fell the evening before a busy day in my

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life – my wedding – so I asked Marco if he would do it. We will need to get a report from you this month, Marco. How did the event go?

Many thanks to Claudia for showing us how she uses the McNaughton system to core out bowls. It was an excellent presentation – well organized and well delivered. Well done, Claudia.

The June meeting will be our last before the summer break but there is a busy summer ahead. In July we have Jean-Francois Escoulen demonstrating and in August we will hold our mostly-annual Guild picnic/auction.

Please book July 1<sup>st</sup> (Canada Day) to attend the demonstration by Jean-Francois Escoulen at the Sapperton Pensioners Hall. Mr Escoulen is known internationally for his wonderful off-centre turnings as well as his whimsical sense of design. This presentation is free to Guild members and \$25 to non-members. I am sure it will be a fun way to celebrate Canada’s 139<sup>th</sup> birthday. The following day (Sunday) Jean-Francois will teach a class at Island Woodcraft. He will cover off-centre turning and well as turning long, thin objects. There are still spaces left in the class so see me to reserve a space (\$150 per seat).

Many thanks for Kerry for helping to organize our 2006 picnic/auction. This year it will be on August 6<sup>th</sup> (Sunday) at Belcarra Regional Park. Details will be announced at the June meeting and though direct e-mailings.

Finally, in closing the 2005-2006 Guild season I want to thank all of you that volunteer for the Guild. The GVWG is a very active Guild with a long list of regular and special events to our credit. But it could not be done without members stepping up and saying, “I’ll do that”. To each of you that volunteer, thank you. Thank you for making it so much fun to be a part of the GVWG.

**NEXT MEETING**  
**June 28, 2006**  
 Sapperton Pensioners’ Hall  
 318 Keary St., New Westminster.  
 Meeting starts at 6.30

**Double Speaker Night:**  
 Enhancing Your Turnings With Paint—Anne Rostvig  
 Turning Salt & Pepper Shakers—Al Koehn

**May Food Providers:**  
 Vic Dahl, Kerry Deane-Cloutier, Colin Delory, Bob Doop, Edward Suier, Neil Elmer

## MAY'S MAIN EVENT: CLAUDIA HAYWARD ON USING YOUR BOWL-SAVER

*Kerry Deane-Cloutier*

Claudia is a professional woodworker and turner who has made a name for herself for combining wood and pottery in attractive and useful ways. She fearlessly demonstrated practical bowl-saving for us. The “why use a bowl-saver” question was easy for Claudia to answer: you can get 2-3 bowls out of one blank, it is faster than hogging the waste out, and it leaves you with fewer wood shavings to dispose of. From there, however, choices have to be made. There are three types of bowl-savers: the Woodcut, the One Way and the McNaughton. The first two cut a fixed arc, but the McNaughton can cut different shapes and depths. Woodcut and McNaughton cost around \$300 each, the One Way is more expensive. The McNaughton is the system Claudia uses. It comes in 3 different sizes: large, for up to 16” diameter bowls; medium for up to 12” bowls, and the mini, for under 10” bowls. The large blades need a large lathe. The medium blades can be used on any lathe with a 12-16” swing and a minimum of 1 hp, although 1.5 hp is better. The mini blades need less power. Locally they are sold in sets of 3 blades, each with a different arc. Craft Supplies sells the blades individually.

Sharpen the knives with a hone and leave a slight burr. You can grind them if you hit the screws.

When mounting the blank, use a chuck or a face plate. If using a chuck, make the tenon about 40% of the bowl size. If using a face plate, screw it on to a tenon, to keep the screws away from the bowl-saver blades. Shape the outside of the blank, then flatten the face of it. Cut a tenon in the centre of the face to enable you to grab it after the core is removed, so you can fine tune the shape of the outside of the core.

The bowl-saver cuts a fairly wide kerf. Claudia allows 1 1/8” and plans on ending up with a wall thickness of about 10% of the diameter. In order to determine which blade to use, draw a diagram of the profile of the blank, and the inner and outer curve of the rough turned blank. Hold the different knife blades up to the drawing and find the knife that will give the most continuous curve.

Set the gate properly. The biggest or deepest slot is used for the big knife set, the middle slot for the medium set and the shallowest slot for the mini set. The tip of the knife should be at or slightly below centre. A sleeve made from ABS pipe will allow you to quickly set the right height. The gate should be about 1” away from the blank.

To cut, set the speed at 500-750 RPM. Do not be aggressive – the key is to gently push the knife, not pull it. The tip of the knife should go straight into the wood. Open up the first part of the kerf a bit wider to help clear the chips, and clear them frequently, especially once you have rounded the corner. Claudia drops the tool handle while backing out, which seems to help the chips come out. The cut around the corner through the end grain is the most difficult. It helps to lubricate the tool with water or WD40. Do not be afraid to move the tool rest if the tool binds on the outside of the kerf – 1/8” to 1/4” is enough. You know you are close to being done when the tool handle points at the centre of the blank. It will also sound and feel different. Claudia usually whacks the core with a mallet to detach it, but if the grain is confused this might result in breaking the bottom of the outer bowl off.



Finally, Claudia recommends that you rough the blanks down to an even thickness before drying them.

It was a pleasure to watch Claudia’s fearless coring – no smoke, stalling the lathe, jumping with fright or cursing. Many thanks, Claudia!

## IMPORTING WOOD

*Bruce Campbell*

Who remembers when Windsor Plywood had barrels of exotic turning blanks in their stores at reasonable prices? I used to go there and happily dig through hundreds of 6x6x3-ish blanks - but not any more. Changes in Canadian importation rules have made it impractical to import wood that way today. In the past, a barrel of 200 blanks could be declared as “exotic wood – cut”. Today, each piece of wood in the barrel must be documented separately, so retailers rarely bother and when they do the cost is prohibitive.

The problem moves down the line to wholesalers, too. P J White is a large wholesale supplier of hardwood in Vancouver. At one time their warehouse was brimming with exotics for all over the world. Today they find it increasingly difficult to find suppliers that can meet the importation restrictions of Agriculture Canada. That has put resourceful wood turners in the interesting position of “doing it myself.” Here are some hints that can save you time and money at the border.

First, we should understand why the importation restrictions exist. There are three main reasons:

- to prevent the accidental importation of pests and disease (think Pine Beetle here)
- to restrict importation of endangered species (eg, Lignum Vitae, Koa, Pink Ivory)
- to protect domestic wood industries

To administer these goals Revenue Canada and Agriculture Canada have rules and regulations that they refer to when you arrive at the border. Your wood will be checked for disease and pests. This is done visually and if there is any bark on the wood that cannot easily be removed the piece will not be allowed in. The argument is that most wood pests live under the bark. Next, it will be inspected for bug holes and if there are any (in the opinion of the officer) you must show documentation that the piece has been fumigated by an Agriculture Canada certified fumigation facility. As of last Fall there was only one such facility outside Canada – in Malaysia. Not much help when you’re standing at the border with a lovely Mesquite burl. Some members have told me that they were allowed to arrange fumigation in Washington, but it will be hit-and-miss.

Your wood will also be checked to see if it is on the Allowable Imports list. This list of nearly 1000 botanical names is maintained by Agriculture Canada and your wood must be on the list to be allowed in. I have asked Steve (our web master) to post the list on our web page [www.gvwg.ca](http://www.gvwg.ca) You will need to have the botanical name of each piece of wood that you are importing. The “common” name will not do and the inspectors will not do the translation for you. Fortunately, this is not too difficult if you have access to the Internet. For example, if you would like to import some nice Peruvian Walnut type ‘Peruvian Walnut botanical name’ into your favourite Web search engine. I got back 906 hits using Goggle, one of which told me that Peruvian Walnut is *Juglans neotropica*, which is on the list.

Finally, you will need to pay the GST and excise tax on the wood, but these are usually quite modest.

So, in summary, know the botanical names of the woods you are planning to import, remove all bark, and be prepared to show some proof of fumigation if wormholes are present. The wood vendors in Washington and Oregon should be able to help you with this information. Also, don’t expect much assistance from the border inspectors. Few of them have much knowledge of wood so the more information you have on hand the easier it will be. I carry the Allowable List with me when I go south.

One last word – don’t smuggle. It may seem a temptation to save a little time and money but the costs can be enormous. If caught, smugglers face stiff fines, loss of the product and vehicle, and a criminal record. But even if you don’t get caught you could still get badly stung. A woodturning friend recently told me of having to get his entire house fumigated because he unknowingly imported southern termites in some dressed lumber. By the time he discovered them they had infested his entire wood stock.

Ouch!

## PROJECT EMPTY BOWL GALA

*Myrna Berera*

The Loving Spoonful extended a huge thank you at the gala via emcee Kathryn Gretsinger to our GVWG for all the turned bowls you made which were sold gift wrapped. Marco Berera set up his lathe and demonstrated to all patrons the process of wood blank to finished Loving Spoonful bowl. Stan Clark contributed a beautiful wooden pedestal bowl which raised \$210 at the live auction, and also had several pieces in the silent auction. At age 92, Stan really inspires us. The Gala was very well attended including by people like Gloria Macarenko. June Katz, the recording artist, sang with the Jazz band while people viewed the art available for sale and sampled the food



from The Irish Heather, Zin Restaurant, Cobs, Chocolate Arts, etc. Stan Clarke, Bob and Bonnie MacConnell as well as Marco and I thoroughly enjoyed the evening. Thank you all for your beautiful Loving Spoonful bowls.



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## WEST COAST ROUNDUP 2007 – UPDATE

The second West Coast Roundup will held be at the Richmond Inn from September 7 - 9, 2007 and will be somewhat larger than the 2004 one, accommodating over 250 delegates. We also plan to include a spousal program. Art Liestman has successfully confirmed the following demonstrators: Richard Raffan, Bonnie Klein, Al Stirt (<http://www.alstirt.com/>), Betty Scarpino (<http://www.bettyscarpino.com/recent1.html>), John Jordan, Molly Winton (<http://www.turningmaven.com/>), Martin Thorne, and Dave Schweitzer. Art is also working on hands on classes by some of the demonstrators, to be held both before and after the symposium. Details on these will be forthcoming once they are confirmed. Further details will be available after September, when our hardworking organizers will start putting the team together to look after the various aspects of running the event. Any early volunteers can contact Colin Delory or Art Liestman now.

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## GVWG NOT-QUITE-ANNUAL PICNIC

We are pleased to announce that we are having our not-quite-annual picnic this year, at Belcarra Regional Park, on August 6, 2006 from 11 AM to 4 PM. We have reserved picnic shelter #1. Lawn games start at 11 AM. Croquet is the starring event, but you are encouraged to bring boche/boule sets if you have them. Lunch follows lawn games, and an auction of demonstrator's items and donated items will follow. There will be a silent auction of donated wood and tools throughout. All proceeds will benefit your Guild.

“Electric barbeques” are available, but if you want grilled food, a real hibachi or portable barbeque would be a good idea. There is a bin for coal disposal. The Guild will supply the plates, cups, cutlery and condiments. Bring whatever food and beverage appeals to you, but remember that we do not have an alcohol permit. Bring a comfortable chair if this seems essential.

Please bring your croquet ringer, a.k.a. spouse or significant other. Parking is somewhat limited, so consider car-

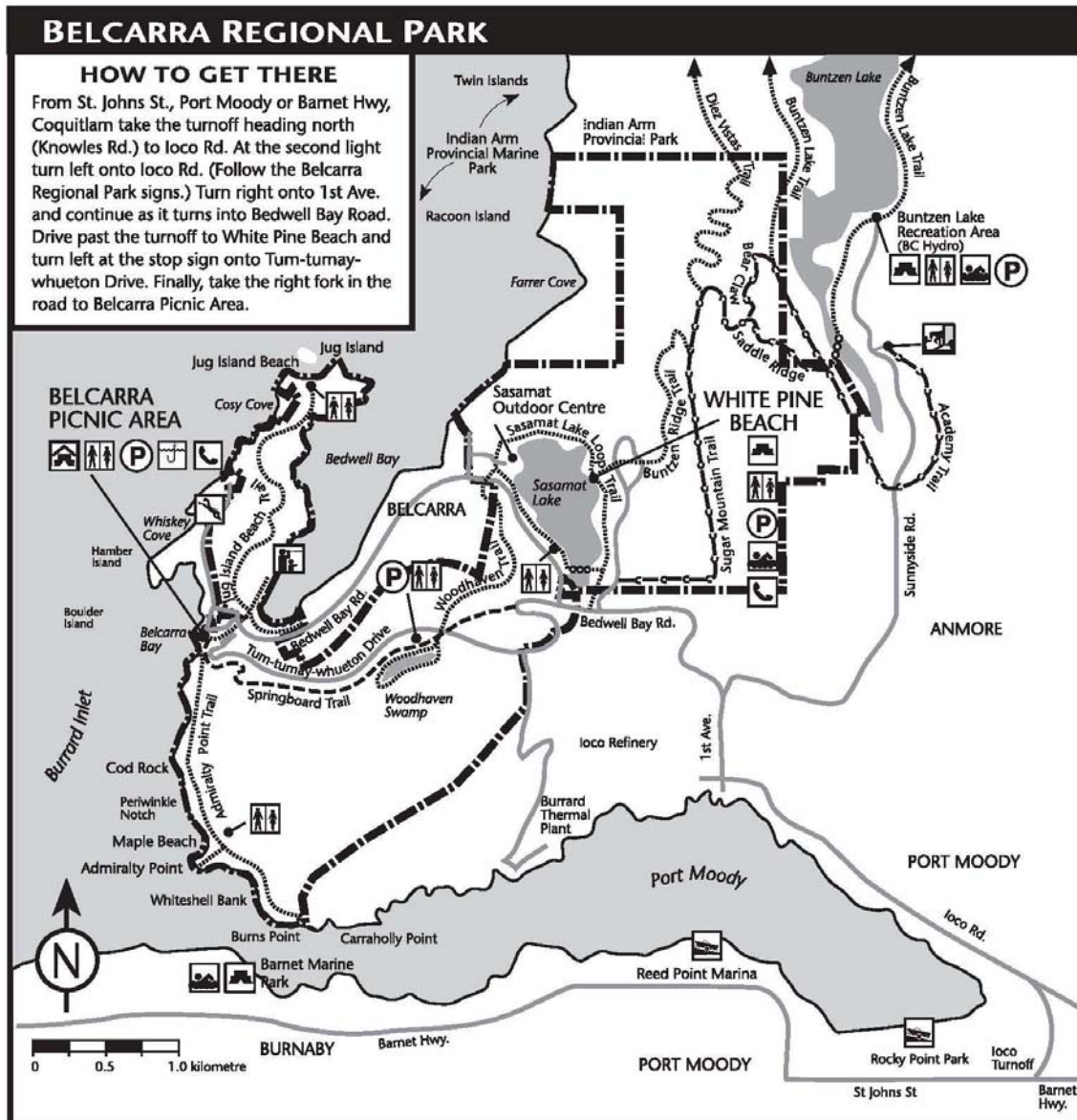


## GVWG NOT-QUITE-ANNUAL PICNIC (CONT.)

pooling.

Regarding croquet, the rules are that you have to turn a ball (3 5/8" diameter), a croquet mallet (32-36" tall, head 9" minimum), and a place ring (3/4" thick, 1 1/2" diameter, with a 3/4" hole in the middle), all with matching decoration. The place ring will be drawn at random from a hat, and placed on the starting stake, to denote the starting order. As befits a bunch of Woodturners, you are at liberty to choose whatever wood, with whatever density, you like. There are no weight restrictions.

If you want to bone up on croquet rules, or see more details about the dimensions of croquet equipment, visit <http://www.croquet.ca> for more information. The above dimensions are from the "C" class of equipment.



## TOOL REVIEW—POWERED RESPIRATORS FOR WOODTURNERS

Michael Finkelstein (Reprinted from the Woodturner's Guild of Ontario Newsletter, by permission of the author)

### Wood dust\* , chemical gases and vapors can be hazardous to your health: Be Prepared & Turn Safely with a Powered Respirator

**Up to now**, I've been using disposable surgical masks along with a thin face shield to "protect" myself. Prior to that, I used a NIOSH approved chemical face mask — but found it way too hot around my face, and I would look like Homer Simpson after a few hours of use. My average turning sessions are up to 5 to 6 hours. In my workshop, I have a portable air filtration system with \_\_\_ per minute rating and an industrial kitchen fan (exit) going all the time. I have used an industrial vacuum with a wide heating vent pipe next to my lathe—and nearly lost my hearing from the noise. I have minimized some dust during the finishing process by using **Claphams Sanding Compound** (available at Woodchucker's Supplies). None the less, after 3 years of this routine, I have developed minor sensitivity on my skin, runny nose, coughing, etc., when turning and sanding certain woods. A recent poll on the [WOW](#) website indicated that only 32% of woodturners use a "full face shield with powered respirator". Do yourself and your health a favor; remember that you are not invisible to respiratory problems caused by inhalation or minor, continuous, exposure to toxic woods. Please go to the [Botanical Dermatology Database \(BODD\)](#) on the internet and do a keyword search on each type of wood you turn with. You may run the risk of developing certain cancers—unless you are sufficiently protected when exposed to wood dust.

\* The (U.S.) [Federal Report on Carcinogens](#) states that unprotected workers exposed to wood dust have a higher risk of cancers of the nasal cavities and sinuses. The more I read, the more I became convinced that I will have to get a personal Powered Respirator—but which one? So, this article will show you what I have learned along the way—and help you decide which unit is best suited for your particular needs. *Please see my technical summary documents (attached) titled "[Michael's Review of Woodturner's Air Respirators](#)" and a "[Check-List Summary](#)".* I have tested 4 units in my workshop, during numerous 5 to 6 hour woodturning sessions: 3 are powered respirators for wood working applications (**3M ClearVisor with AdFlow, Trend Airshield, Triton Powered Respirator**); the 4th unit is a non-powered, half-face piece unit, used for "organic vapors" applications (**3M Half-Facepiece 7500 Series**).

My review will address: 1)face shields, 2)visors & impact ratings, 3)battery types, 4)fan info', 5)respiratory filters, 6)respiratory safety standards, 7)helmet weight, 8)helmet inside temperature, 9)air-flow rate inside helmet, 10) noise level inside helmet.

All technical specifications are provided by the manufacturers. I tested & took my own readings for #3,4,7,8

### Hands-On Test Summary

1. Face shields; I prefer full head, neck coverage with a flexible & adjustable shroud. The Triton shroud felt more comfortable than the 3M shroud. If you have a beard, there's more chin room with the Triton.
2. Visor; the Triton is the only unit that allows you to lift-up the visor so you don't have to take the unit off in order to talk to someone. Both the 3M and the Triton are rated "high impact resistance". Trend is EU rated Low Energy Impact.
3. The best battery charger is the one which recharges the quickest and then places the battery on a "trickle charge" to keep the battery topped-up and running at normal operating levels. Look for about 5hrs hours of **strong filtration** with the 3M (trickle-charge type), 5 to 6 hrs with the Triton. The Trend units operated for about 4 hours with 1 battery installed—on my working sessions (I produce a lot of dust when I work). Battery re-charge times: 3 hrs for the 3M Clear Visor with AdFlow, "1 ½ hrs per hour of use" for the Trend, and 8 hrs for the Triton unit.
4. 3M and Triton have their fans on the belt pack so the dust is drawn to your waist. The heaviest unit is the 3M, followed by the Triton + Trend.
5. 3M & Triton employ 3 filters in their units. Trend's has 2 filters.
6. 3M's unit meets the NIOSH 42 CFR 84 standard & an APF:25. Triton's conforms to AS/NZ 1716—Performance Class PAPR P1 or P2 & an APF:\_\_\_(see note 2). According to Triton, the unit is "fine for filter-

## TOOL REVIEW—POWERED RESPIRATORS FOR WOODTURNERS (cont.)

Michael Finkelstein

ing the particles from sanding lacquer and polyurethane—as long as you are not actually burning the polyurethane”. Trend states that their unit is EN146 THP2, and an APF:10<sup>2</sup>

7. Helmet weight: The lightest unit is the Trend, followed by the 3M and the Triton.
8. Helmet inside temperature: I took temperature readings inside the helmet and outside (ambient room temp). The temperature reading inside the helmets ranged from 2°C to 3°C above the ambient room temperature. The Trend unit is the coolest, followed by the Triton and the 3M.
9. Air-flow rate inside helmet: Best airflow rate from the 3M, followed by the Trend and the Triton.
10. Noise level inside helmet: Lowest noise level with the Triton. (Trend & 3M are the same dB noise level)

I also created a poll on WOW and asked members “what do you consider the most important factor in deciding to purchase an air respirator? The highest % of the votes went to “comfort to wear” and “NIOSH approved respiratory standard for the filters”.

A poll was taken at the WGO member’s meeting on Oct.13th,2005. Here’s a summary of the high votes;

90% of members voted for full face shield type respirator,

100% of current owners of respirators want a faster battery charge of less than 4 hours,

70% wanted the battery to last for an 8 hour session & 30% voted for 4 hours,

80% say that comfort to wear for 8 hours is important & 20% would accept 4 hours of comfort,

Michael's Review of Woodturner's Air Respirators

|  | 3M ClearVisor with Adflo and HE PF System | Trend Powered Airshield   | Triton Powered Respirator PRC001 |
|--|---|---------------------------|----------------------------------|
| Full Face Shield/Head/ Coverage  | √   |                           | √                                |
| Visor: high impact resistant   | √   |                           | √                                |
| Battery: maximum usage per charge (5 to 6 hours of use)                | √   | √ *only with 2 batteries  | √                                |
| Battery: trickle charge with battery strength meter                    | √   |                           |                                  |
| Motor , Air intake & filters location on belt-pack                     | √   |                           | √                                |
| Face Shield / Head Unit weight   | <b>1 Lb 5.5 Oz</b>                        | <b>1Lb 13 Oz</b>          | <b>2 Lb 4 Oz</b>                 |
| Comfortable to use & wear during turning sessions of more than 4 hours |   |                           | √                                |
| Meets Certain Respiratory Safety Standards, With appropriate filter    | √   | √                         | √                                |
| Average inside temperature in helmet is comfortable                    | √   | √                         | √                                |
| Air-flow rate inside helmet (litres per minute)                        | <b>170 LPM</b> √                          | <b>140 LPM</b> √          | <b>120 LPM</b> √                 |
| Price of Unit  |   | √                         | √                                |
| Filters Replacement Costs (Low cost Maintenance)                       |   | √                         | √                                |
| Acceptable noise level inside helmet                                   | √   | <b>FAN NOISE APPARANT</b> | √                                |
| OVERALL RATING (12 = 100%)   | <b>9</b>                                  | <b>6</b>                  | <b>11</b>                        |

## TOOL REVIEW—POWERED RESPIRATORS FOR WOODTURNERS (cont.)

*Michael Finkelstein*

50% split on belt pack VS “all in the helmet”,

65% voted for “adequate air flow” i.e. the unit does not have to stay cool inside the helmet,

65% voted for low noise level inside the helmet,

90% voted for a high impact rated visor.

A hot issue for our members is filtering performance; most of us felt that better filtering performance should not influence price much above a mid-range price unit. Most agreed that good performance should be 'included' with a well designed product rather than an expensive add on to a reasonable performance design. If you need a battery which will last for an entire 8-hour work session, the only choice at present is to purchase a second battery and always keep one connected to the charger. You should also consider that if you have a battery with double the battery life, it will also be twice as heavy (unless you also change battery technologies. i.e. 4-hour lead/acid battery will be heavier than an 8-hour lithium ion battery).

### **All three respirators provide various levels of protection and comfort:**

For safety & dust protection, I am quite satisfied with the visor impact rating & respiratory protection for the Triton & 3M units.

For comfort during my 5 to 6 hour woodturning sessions, I liked the Triton the most, followed by the 3M and the Trend.

On pricing, the 3M unit is priced & marketed as a commercial unit. The Triton and Trend units are priced for consumer use.

I have also noted some “suggested improvements” for each unit; The 3M unit could stabilize its shroud with a face-shield guard (along the sides & bottom) to minimize chin contact with the fabric at the bottom part of the shroud. I would like to see Triton introduce a higher capacity battery with a faster charger, overlays for the face shield and removable ear-muffs. A stronger, cooler fan would also be a great extra feature. I felt that the Trend could reduce its motor's noise and it could have a better fitting face shroud / visor to eliminate dust residues inside the helmet.

The **3M 7500 Series Half Facepiece (chemical vapors) Respirator** with #6001 filter cartridge is NIOSH approved for “certain organic vapors”. I am now using it when working with finishes, sprays, etc. The unit is very light, comfortable to wear and minimizes moisture build-up in the facepiece.

All three respirators offer varying levels of comfort and protection. You have to decide what your safety & comfort priorities are when making your “air respirator” purchasing decision — and I hope that I have provided you with the information you need.

**My overall rating (12 = 100%) on the 3 respirators: 3M Clear Visor w/AdFlow = 9, Trend = 6, Triton = 11**

Where to buy: **Triton** dealers; <http://www.tritonwoodworking.com/>. **Busy Bee Tools** (\$299.99); <http://www.busybeetools.com/> **Trend**; <http://www.trend-usa.com/> (a similar unit made by **Purelite**, available at [Woodchuckers Supplies](#))

**3M ClearVisor with AdFlow**, available through Jacques Coulombe Ltd., (\$1211.63); <http://www.jacquescoulombe.com/3M-HORNELL.HTM>

**3M 7500 series** kit comprising; organic cartridge, pre-filter, etc. — available through Jacques Coulombe Ltd., (\$71.00);

<http://www.jacquescoulombe.com/3MHalfFacepiece.htm>

### **Article Resources for further reading**

-Product manuals: **Triton**; <http://www.triton.net.au/images/manuals/PRA001Inst.pdf>, **Trend**; <http://www.trend-usa.com/manuairv2.0.pdf>,



## TOOL REVIEW—POWERED RESPIRATORS FOR WOODTURNERS (cont.)

Michael Finkelstein

**3M ClearVisor with AdFlow**; <http://www.speedglas.com>

-Link to NIOSH: [www.cdc.gov/niosh/homepage.html](http://www.cdc.gov/niosh/homepage.html)

-Noise at work—A guide for Safety Representatives: [http://www.tuc.org.uk/h\\_and\\_s/tuc-10724-f0.cfm](http://www.tuc.org.uk/h_and_s/tuc-10724-f0.cfm)

-HSE Information Sheet — Selection of respiratory protective equipment suitable for use with wood dust: <http://www.hse.gov.uk/pubns/wis14.pdf>

-U.S. Dept.of Labor (OSHA) - Safety + Health, Wood Dust: (resources that provide safety & health information relevant to wood dust in the workplace); <http://www.osha.gov/SLTC/wooddust/>.

-Central Ohio Woodturners Newsletter , April 2001 “Cutaneous Hazards of Woodturning”;

<http://www.centralohiowoodturners.org/newsletters/2001-04.pdf>

-Triton Respirator review– OnlineTool Review: <http://www.onlinetoolreviews.com/reviews/tritonrespirator.htm>

- 3M ClearVisor with AdFlow; <http://www.hornell.com/hsi/clearvis.html>

<sup>1</sup> particulate filters which allow 1% of the particles below 1 micron to pass and will remove 95% particulates down to 0.3 micron

|  | 3M ClearVisor with Adflo and HE PF System | Trend Powered Air-shield | Triton Powered Respirator PRC001 |
|--|---|--------------------------|----------------------------------|
| Full Face Shield/Head/ Coverage                                      | √   |                          | √                                |
| Visor: high impact resistant   | √   |                          | √                                |
| Battery: maximum usage per charge (5 to 6 hours of use)              | √   | √ *only with 2 batteries | √                                |
| Battery: trickle charge with battery strength meter                  | √   |                          |                                  |
| Motor , Air Intake & filters location on belt-pack                   | √   |                          | √                                |
| Face Shield / Head Unit weight                                       | 1 Lb 5.5 Oz                               | 1Lb 13 Oz                | 2 Lb 4 Oz                        |
| Comfortable to use & wear during turning sessions of more than 4 hrs |   |                          | √                                |
| Meets Certain Respiratory Safety Standards, With appropriate filter  | √   | √                        | √                                |
| Average inside temperature in helmet is comfortable                  | √   | √                        | √                                |
| Air-flow rate inside helmet  | 170 LPM √                                 | 140 LPM √                | 120 LPM √                        |
| Price of Unit  |   | √                        | √                                |
| Filters Replacement Costs (Low cost Maintenance)                     |   | √                        | √                                |
| Acceptable noise level inside helmet                                 | √   | FAN NOISE APPARANT       | √                                |
| OVERALL RATING (12 = 100%)   | 9   | 6                        | 11                               |

## CLASSIFIEDS:

### Wanted:

**Starter lathes and/or tool sets** for beginning turners. Two of my keen grade 9 students wish to purchase their own lathes. Please contact John Pope [jpope@wpga.ca](mailto:jpope@wpga.ca) or (604) 874-9946 if you have an extra lathe and/or tools you wish to sell.

**Free to good home: Sears Bandsaw and radial arm saw** - the trick is getting them out of my basement. Some disassembly of the radial arm saw will be required. [jweir@shaw.ca](mailto:jweir@shaw.ca) or 604-524-5831.

## NOTICES:

Gregg apologizes that there will be no pictures for the June newsletter, and the May and June web pictures won't be posted until later in August. He is busy preparing to participate in the Victoria to Maui Yacht race. If you are interested in following along, the boat name is 'Turicum' and the web site is [www.vicmaui.org](http://www.vicmaui.org)

The Fraser Valley Woodturners Guild is having a shop crawl this July, and we are invited to come! More details will be provided at the June meeting, along with a schedule.

## GVWG Officers, Appointees and Volunteers

### PRESIDENT

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### SECRETARY

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### TREASURER

Merv Graham 604-272-3525

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Gerry Vickers 604-463-0760

Jay Mapson 604-723-8692

Marco Berera 604-274-7594

David Wagner 604-983-3852

Georges Leroux 604-541-4710

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