Official Journal of the Nova Woodturners' Guild

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The Turning Point

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Member since 2012

The next meeting of the Nova Woodturners' Guild is At Lee Valley Tools, 150 Susie Lake Crescent, Halifax ***SUNDAY****, November 20, 2022. 1:00 p.m.*

The next meeting will feature

Richard Ford

"Not Jimmy's Platter".

The President's Workshop November 2022

Gary Landry

*"This month **Richard Ford** will be presenting his new demo and we are looking forward to it"*

Another month has gone by. We are in the grey of late autumn and the temperatures are falling. Oh well, Tempus Fugit.

Our October meeting was not very well attended. We had a total of eight attendees including executive members. We had members tell us in 2020 that they would not participate while we used Zoom and, until we are meeting in person again, they would not be members. Now we are meeting in person and the attendance is less than most of our two years of Zoom meetings. I am at a loss to explain why this is happening other than the uncertainty of the COVID situation.

Well, November brings a new meeting and perhaps we will see an uptick in numbers. This month **Richard Ford** will be presenting his new demo and we are looking forward to it. Dave's demo in October on making hand-held and self-powered sanding blocks was very interesting.

You have, no doubt, have seen the messages from our Secretary and in previous President's letters indicating that the Guild is trying to supplement our revenue reserves that have been battered during the pandemic. Without sufficient revenue the Guild's activities such as the annual Turning Competition are in jeopardy. We have been soliciting donations of turned pieces from members of the Guild for a sale at a craft show, with all revenues generated going into our bank account to support Guild activities. Well, I can announce that the sale is going to be held. We have a table, generously financed by member **Jim Kuzma**, at Cole Harbour Place for November 12th and 13th. If you have already committed to donating or if you were thinking of making a donation, we need your pieces before Thursday, November 10th so we can process them and put them out on set-up day which is the 11th. Please contact one of the Executive to donate and to arrange for delivery or pickup. **Calum Ewing** should be sending an email to all members with complete info in the very near future.

Our next meeting will be held on Sunday, November 20h at 1:00 PM sharp in the Seminar Room of **Lee Valley**, Halifax. If you have outstanding books, DVDs, tools or magazines from our library please bring them with you so others can check them out. Finally, please bring your show and tell items and some spare change to buy raffle tickets from Norm.

Please stay healthy and turn some wood to relieve some stress.

Gary Landry – President

Pictures from our last meeting.




Photos by Chris Palmer

. Building a self-driven 3” vacuum sander David McLachlan.

I had often seen and wondered about having a self-driven sander and then on the www.woodessence.com site I saw that Mirka had Abranet 3” Sanding disks and backing pads with 6 hole pattern. This got me to thinking that I could build a vacuum version of a self-driven sander…. The starting materials are shown in Figure 1.
3” abranet disk, 3” soft foam backing pad, 3” sanding disk, 3” pad saver disk, 2”x1” aluminum blank, 37mm x 25mm x 7mm bearings, 3/4” brass plumbing sleeve and a copper 45° 3/4” pipe fitting.

Figure 1

The first thing was to modify the 3” sanding disk to having 6 vent ports… this was accomplished by attaching the ported Mirka saver pad onto the sanding disk to act as a drilling template. An 8mm brass pen sleeve was sharpened with a small conical grinding stone and then used in an electric drill to core the sanding disk foam down to the internal phenolic disk at a slight angle so the exit holes on the back of the sanding disk were within the depressed area of the disk. (One may have to detach the cored foam with small needle nose pliers). There is a phenolic disk embedded in the pad which had to be drilled out using a regular drill bit on the drill press. First the centre holes were located by using a 1mm drill in the hand drill approximating the center of the angled holes through the foam through the phenolic disk… then these were enlarged using an 8mm drill bit from the back side of the disk with a drill press.

The next operation was to make the bearing retainer/sanding disk connecting hub from the aluminum blank on the Taig lathe.

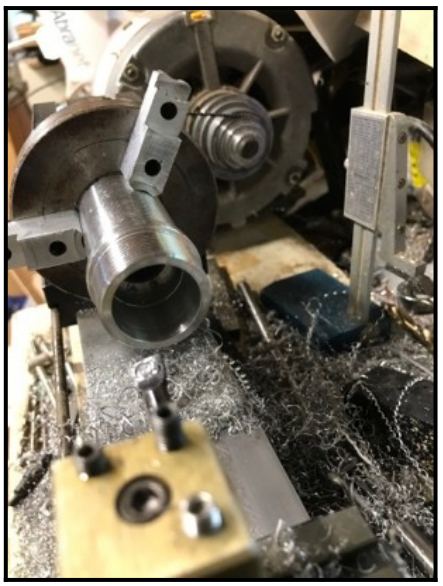
The block was mounted in a 3 jaw chuck on the lathe and a center drill used to mark out the center of the disk. Next a 5mm hole was drilled through the block so it could be taped for M6 to accommodate the M6 stud on the sanding disk. This was then taped on the lathe turning the chuck by hand so that the threading operation would be center aligned.

Then a recess was created so that the edge of the hub would just meet the foam backing ridge on the sanding disk when it was threaded into the hole (left). The hub was then reversed in the chuck and the bearing retaining hole machined in (center) This was accomplished using a carbide insert 1/4" tool bit in the tool bit carrier, resulting in a bearing retaining pocket 37mm x 14mm. The bearings would just barely slide into the holder (right).



Then six 8mm ports were drilled on a 3/4" radius on the drill press to give you the pattern seen above, with the bearings in place and the sanding disk threaded in place. The next operation was to place the head back in the lathe and taper the upper half of the holder to make it less heavy and more streamlined.

The inner brass sleeve was turned down to 25mm so that it would fit inside the bearing and a small shoulder created so it wouldn't bottom out in the housing. The bearings were fixed into the housing using LocTITE 609 bearing retaining compound, as well as the inner brass sleeve. The 45° copper fitting was epoxied into the inner brass sleeve. Thus the rotating sanding head was created.



The handle was made of carbon fibre with an aluminum bolster epoxied in it that was bored out to hold the copper fitting. The bolster was hollowed out back on the Taig lathe.

Back on the wood lathe, a piece of 1 1/2" PVC pipe was held in a chuck and turned down to 32mm to accommodate the flex hose in a friction fit. The PVC was then reversed in the chuck and turned down to 35mm and a groove cut in it for an O-ring to friction fit it to the carbon fibre handle. When it is all put together you have the completed 3" self-driven vacuum sander seen below.

Happy bowl sanding….

Dave McLachlan

Winter Wonderland at Cole Harbour Place

I only took a picture of our booth. (Note: The wire rack on the right was part of **Jim Kuzma's** display).

Dave McLachlan

Hard to take pictures of us at work because there were only two of us there at a time. FYI the volunteers were **Dave McLachlan, Calum Ewing, Yogi Gutz** and myself, **Gary Landry**.

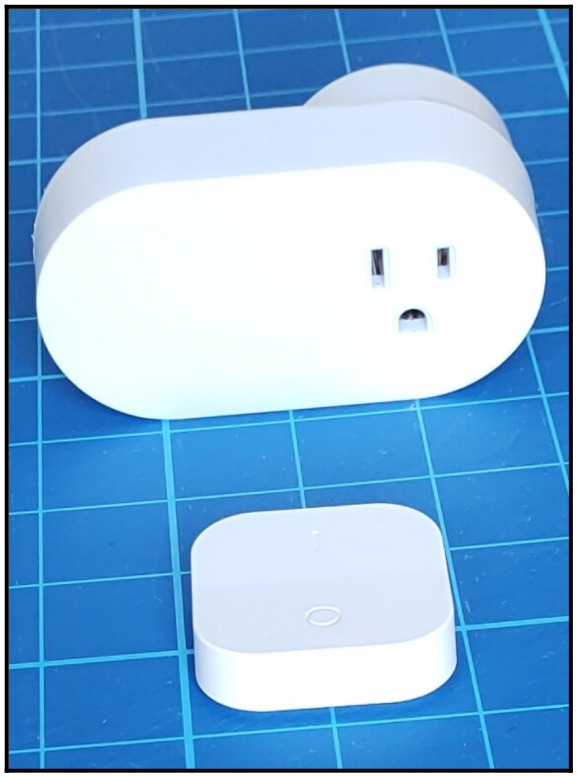
Gizmo of the Month

Jim Diamond

There are a number of products on the market aimed at woodworkers who want to turn on their shop vac or dust collector via remote control, or even automatically when another machine (such as a table saw) is turned on. Some of these products are downright expensive, with price tags north of $150.

A while back I saw a remote-controlled relay board at Banggood for only a few dollars and decided to make my own. I brought a prototype in for show-and-tell one day, and have since packaged it up more neatly inside a two-gang electrical box. While this was fun from the “I built this out of parts all by myself" point of view, by the time I bought all the ancillary parts I was over the price of similarly functional devices found on the mega online retailer we all love to hate.

Fortunately, the fact that recent generations are largely unable to get up to turn a light on or off has worked in our favour, as remote control \outlets" have come down in price to very reasonable levels. For the reasonable (in my humble opinion) price of $20, Ikea sells the “TRÅDFRI Control outlet kit, smart" which has the components shown below in the photo (the squares on the blue mat are 1 cm by 1cm).



The outlet just plugs into a regular outlet, and it is controlled by the remote shown in the foreground. It is not clear in the picture, but you press the top of the remote to turn the outlet on, and you press the bottom of the remote to turn the outlet off. The remote control has a strong magnet embedded in the back, which makes it convenient for sticking on your favourite piece of cast iron (or other steel).

Ikea claims that this outlet is good for 15 amps (and maximum 1800 W), which puts it well above a lot of similar gizmos. I tried running a shop vac for a while on this outlet, and there was no evidence of it getting at all warm.

One other nice thing about this system is that the remote can control multiple outlets at the same time, and that you can buy additional outlets (without the remote control) for $15. So if you have four or five shop vacs (or exhaust fans, or...) that you want to turn on and off all together, you can just arm yourself with more outlets.

I've only had this a couple of days, and so I cannot talk about its long-term performance. If I encounter any problems I'll put a follow-up note in the newsletter.

Jim Diamond

Calendar of Events

Date	Subject	Location
September 18, 2022	Registration Meet-n'-Greet / Various Developments	Lee Valley Tools
October 16, 2022	Dave McLachlan Sanding Tools	Lee Valley Tools
November 20, 2022	Richard Ford "Not Jimmy's Platter"	Lee Valley Tools
December ?, 2022	Xmas Social	TBA
January 15, 2023		Lee Valley Tools
February 19, 2023		Lee Valley Tools
March 19, 2023		Lee Valley Tools
April 16, 2023		Lee Valley Tools
May 7, 2023		Lee Valley Tools
June 11, 2023	AGM	Lee Valley Tools

(Third Sunday of the month, 1:00 pm.)

What's on the Web?

Norm Jolivet

From **Jim Diamond.**
Apparently Abranet had a patent, but this has expired, and a bunch of other people jumped on the idea.

Here is a YouTube video showing a reasonably scientific test of 14 different 5" sanding disks:

https://www.youtube.com/watch?v=NZDCRFi8dKY

And here is a blog, giving a non-video summary of the results:

https://kmtools.com/blogs/news/the-great-sandpaper-showdown-top-3-sandpapers-for-woodworking-in-2021

He calculates an interesting measure: cost per gram of sawdust. Which makes a lot more sense (I think) than just "cost per sheet", since, as the test shows, a couple of 3M products blow the doors off the competition in that measure, *and* are much cheaper per sheet than **lots of the competition.**

Nova Woodturners' Guild – 2022/23 Executive

Our e-mail now reflects a more consistent method of communicating with the various offices in the Nova Woodturners' Guild. The recipients will change as the need arises but a note sent to the president will go to who ever is president at that time. All the following <address> *should be followed by @novawoodturnersguild.com to send mail to that person*

<address>@novawoodturnersguild.com

Position	<address>		
Executive	executive (sends the message to all executive positions on the list)		
President	president (or) pres	Gary Landry	
Vice President	vice-president (or) vp	Bill Maes	
Secretary	secretary	Calum Ewing	
Treasurer	treasurer	Dave McLachlan	
Director at Large	director-at-large	Brian Sharp	

Committees

Library	library	Jim Diamond Richard Ford	**C**
Web Site	webmaster	Richard Ford	**C**
Membership & Promotion	membership	**Vacant**	**C**
Newsletter	newsletter (or) news	Norm Jolivet	**C**
Competition	competition	**Vacant**	**C**
Guild Photographer	photographer (or) photos	Chris Palmer	
Fund Raising	Raffles	Norm Jolivet Yogi Gutz	**C**
Nominating	nominations	Bill Maes	**C**
Members Group	members	30+ members	

To add or remove yourself from the group email: webmaster@novawoodturnersguild.com
Note: to email all NWG members you must go via the club secretary.