



The Turning Point

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Don Moore

(Work in progress)



Member since 2012

The next meeting of the Nova Woodturners' Guild would normally be at Lee Valley Tools but, this month **(SUPRISE!)**

Online via Zoom

March 15, 2021 6:45 p.m.

The next meeting will feature

The Best Of Jigs, Tools and Techniques
Home grown (blown) solutions
from the Creative Minds of our Members.

The President's Workshop

Gary Landry

PRESIDENTS NEWSLETTER REPORT

MARCH 2021

I'll start out with a reminder that competition pieces for the 2021 Turning Competition can be dropped off at Lee Valley starting April 17th and ending at 5PM on April 24th. Read the rules under the "Documents" tab on the top of our website's home page. Each piece will require an entry form and three judging forms to be filled out and a \$5 entry fee (\$15 if you are not a paid up member of the Guild). Please do not forget the forms or the entry fee. The packages will be opened only one day before the judging so there will be no time to contact you to get the missing items. Incomplete entries will have to be eliminated from the competition. Pack your entries well as the Guild and Lee Valley will not be responsible for any losses or damage. Now you just have to turn something for an entry...or several.

This year will have a 'Junior Category' at the request of Lee Valley. [T]he Guild will be waving the entry fees as an outreach and recruitment endeavour.

This year will have a 'Junior Category' at the request of Lee Valley. The entrants will use entry forms we are in the steps of preparing and the Guild will be waving the entry fees as an outreach and recruitment endeavour. The Guild may provide a certificate and some small gift (a sandpaper selection perhaps) to the Juniors and Lee Valley may be providing gifts on their own. As of this writing we have permission to hold live demos for two hours in the weekday afternoon at the Lee Valley Showroom. Times are 1 to 3PM Monday to Friday over a span of about a week and a half. If you can spare the time please contact **Calum Ewing** (secretary@novawoodturnersguild.com) to volunteer.

Also, in an effort to get plenty of participation, please keep in mind that the March Zoom meeting will have a "Best Of" theme. Please present your best work, favourite tool, most helpful jig, greatest website, new technique, etc. Pictures can be sent to Calum in advance of the meeting or you can present them live using your own web camera. These presentations always give your fellow turners inspiration to expand and/or improve their turning efforts.

Please continue to stay safe...and spin some wood,

Gary Landry – President

Meeting Notes Feb. 15, 2021

Calum Ewing, Secretary

Meeting held on Zoom Platform

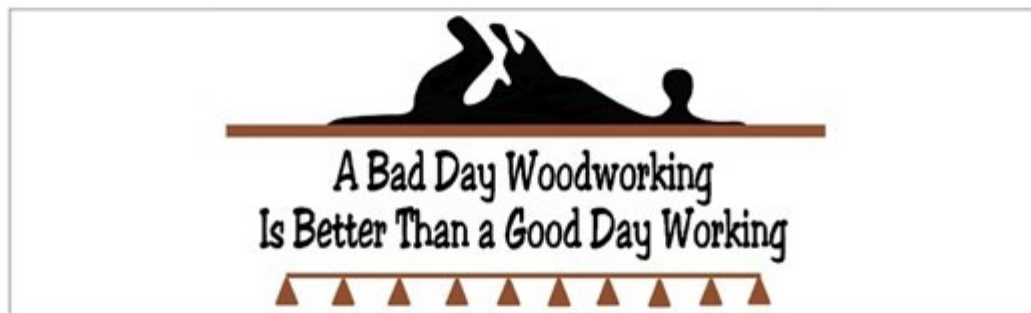
President Gary Landry called the meeting to order at 7:00pm with 21 members present

David McLachlan and **Dianne Looker** demonstrated how to wear a 3M Face mask to protect both the eyes and lungs while turning. Careful attention to mounting the replaceable filters is needed to ensure the filters are out of the way and do not block vision of the user.

Announcements:

- The Fun Turn reveal is tonight, and pieces can be showed off at the start of the Show & Tell section of the meeting.
- The annual competition is going ahead this year for 2021 with **Bill Maes** (Chair), **Edmund Benoit** and **George LaFontaine** as the Competition Committee.
 - All of the needed documents (rules, entry forms, guidelines, etc.) are on the Guild website under the 'Documents' section.
 - Competitors are reminded that any materials can be turned, but pieces must be produced primarily on a wood turning lathe.
 - Drop off of pieces is at Lee Valley in Halifax from Apr 17 to 24th at 5:00pm
 - Competition set up will be on Apr 26th
 - Judging will take place on Apr 27 & 28th
 - Entries can be collected at Lee Valley for 7 days after the Awards announcements or May 15th at the latest.
- **Bill Maes** would like to get an estimate of the number of people planning to enter the competition to help with planning. If you are thinking about entering the competition this year, please email Bill at vice-president@novawoodturnersguild.com and let him know and how many pieces you plan to enter.
- We will be holding turning demonstrations during the competition and there are 3 spots left. Demos will be Weds to Friday, from 1 to 3pm. See elsewhere in this Newsletter for more info.
- Next month's topic: Member Night – so be prepared to show off your favourite or recent purchases of tools, Jigs, wood, etc.
- April's topic will be an Interactive Remote Demo with **Harvey Meyer** of Atlanta, GA, demonstrating how he makes Pedestal boxes.
- Scott Manor House Museum will not be holding its public shows in 2021 due to COVID restrictions so we will be looking at a show & Sale opportunity in 2022.

Meeting adjourned at 9:05pm.



Main Prese

Guest Speaker - Gary Landry

Gary Landry gave an informative presentation on the use of various glues and adhesives with woodworking, covering the history uses and special considerations with a wide range of adhesives.

What is the difference between an adhesive and a glue

- Glue – natural sources (horse parts, fish skins, etc)
- Adhesive – synthetic (man made) products
- Current usage has both being used interchangeably

Some ground rules first

- The following information is essentially limited to issues of bonding wood and wood products
- Application will be assumed to be at normal temperature and humidity
- “Normal” is defined by each manufacturer in their product information
- Adhesives can be used for binding many types of materials but we are speaking of wood here
- Adhesives can be used in a variety of environmental conditions but usually for us it is at residential/commercial type locations.

Adhesives – Past and Present

- Hide glue, fish glue and other animal products
- Flour paste
- PVA (white, yellow, cross-linking)
- Resorcinol
- Epoxy
- Hot melt
- Cyanoacrylate

History of Adhesives

- 70,000 years ago – cavemen made cave paintings and needed a binder.
- 4,000 years ago into the 1700's – natural glues from plant & animal materials in small batches to industrial production
- 1900's up to World War II – PVA adhesives
- World War II -Resorcinol
- Post-World War II – epoxy, CA, polyurethanes

Surface Preparation

- Important characteristics of the surface of woods
- Flatness
- Cleanliness
- Joint tightness (gap)
- Extractants and oils
- Moisture content (important for polyurethanes)

Strength of Adhesive Bonding

- Strength of a bond depends on how well the glue holds itself together as well as how it holds onto the glued surface(s)

Meeting Notes continued

Calum Ewing

- Adhesive strength within itself is called 'molecular bonding'
- Adhesive strength related to the bonded surface is based on a mechanical lock within the wood fibers
- Where a mechanical lock is formed the wood often fails before the adhesive itself fails

Strength of Adhesive Bonding - Continued

- As woodturners we want to maximize strength
- The downside to this is when we need to repair a piece
- A debonder provided by the manufacturer is best
- If a debonder is not available read the clean up instructions
- Use a cleaner to release or weaken a join line
- If the adhesive remains pliable, try gentle heat
- Timing is sometimes critical. Some adhesives get stronger with time. Repair ASAP

Considerations for Woodturners

- Colour of an adhesive line. Will it detract from the final appearance?
- Is the adhesive line stable for the intended use of the final piece?
- Consider heat of sanding on stability of an adhesive line. Strength may be compromised
- Are you bonding dissimilar materials? Wood to metal for example
- Will the final piece be subject to high humidity or water contact?
- Is the piece to be subject to shock when finished?
- Consider effect of joining end vs side grain on strength
- Consider the beneficial characteristics of 'oddball' adhesives such as rubber cement or silicone adhesive.

References

Chris Minick, Fine Woodworking – September 1992, pp 44-50. “Adhesives for Woodworking”

William T. Young, Fine Woodworking – January/February 1999, pp 61-67, “A Working Guide to Glues”

Charles R. Frihart, Forest Products Journal – Vol 65, No 1/2, pp 4-8, “Wood Adhesives: Past, Present and Future”

Web Resources

- www.explainthatstuff.com/adhesives.html
- www.cottagelife.com/design-diy/everything-you-wanted-to-know-about-wood-glue
- www.permabond.com/resources-center/difference-epoxy-glue-epoxy-adhesive/

Main Presentation 2 – From Log to Rough Turned Bowl with David McLachlan

Treasurer David McLachlan gave a demonstration of his process for cutting up green logs to create a variety of bowl blanks, then trimming and rough turning bowls from the harvested wood.

The full video of Dave’s demonstration is on the NWG YouTube Channel at

<https://www.youtube.com/watch?v=4Td-L5dxI7w>

Guest Speaker – David McLachlan

Bowl harvesting and preparation is done with several power tools. Safety is paramount. Make sure you always have and wear the proper protective equipment:

- Felling and chunking up logs – hard hat, hearing protection, full face shield, gloves and especially protective pants to prevent chainsaw injuries. Using a saw with a safety brake is essential.
- Rounding blanks – safety glasses or face shield, good lighting, hearing protection
- Rough Turning - safety glasses or face shield, good lighting, effective dust extraction and/or dust mask

Logs are assessed and the best cuts determined to get blanks. Pay attention to grain patterns and where you want to take the blanks from. Also pay attention to where the pith of the tree is as you want to make sure the pith is not in your resulting blanks to reduce cracking as the blanks dry.

Make sure logs are well braced and secure so that they won't move during cutting. Make sure your saw teeth are very sharp to ease cutting and make a safer cut.

Once the logs are cut into the desired pieces, it is time for rounding into blanks. This is done with a bandsaw, normally using a blade with 4-6 tpi. Dave uses a range of plywood circles to trace a circular line on the blank to get the desired round blank saving the grain he wants. If the surface of the blank is too rough, he screws the plywood to the blank and uses the plywood disk as a rough guide for cutting.

Once cut round, Dave mounts the blank on the lathe using either a faceplate or faceplate ring for the chuck attached to one side. For smaller blanks, a screw adapter for the chuck can be used.

The outside is rough turned to shape leaving a tenon to use to mount the blank in the chuck for hollowing. It is important to do all of the hollowing in a one session as the bowl will begin to dry once it is turned and will change shape as it dries.

Once the outside is turned to the desired shape, the blank is reversed in the chuck and the inside is hollowed. The aim is to leave a consistent wall thickness of about 1 inch. This will allow the bowl to dry consistently and leave enough wood for final finishing and to get things round again as the bowl will shrink more across the grain and become oval as it dries. Leaving the wall thickness much more than 1 inch will likely result in cracking as the uneven forces generated during drying cause the wood to split.

Rough bowls can be placed in a paper bag to ensure slower and even drying to help reduce the risk of cracking.

Weigh the rough bowl and write the weight on it. Set it aside to dry slowly and reweigh it every few months until the weight remains constant. Then you'll know that the bowl is fully dry and ready for final turning and finishing.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				April 1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17 Drop-off
18 Drop-off	19 Drop-off NWG Meeting	20 Drop-off	21 Drop-off	22 Drop-off	23 Drop-off	24 Drop-off
25	26 Setup	27 Judging	28 Judging	29 Display	30 Display	May 1 Display
2 Display	3 Display	4 Display	5 Display	6 Display	7 Display	8 Display
9	10 Pick-up	11 Pick-up	12 Pick-up	13 Pick-up	14 Pick-up	15 Pick-up
16	17 NWG Meeting	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

NOTES:

Fun Turn 2021

Calum Ewing

The Fun Turn for this year involved a starting blank of 2” x 2” x 12” of any material. Turners were challenged with the theme of “Light”.



Glenn McCarron showed off an attractive tea light candle in Pine and stained with red Trans Tint Dye. Glenn used the ‘inside-out’ turning method to create heart-shaped openings in the sides once the walls were turned thin. In the spirit of Valentine's Day, Glenn’s wife decided the candle holder needed a ‘mug rug’ to sit on and made a matching quilted mat for it with a similar heart motif.



Gordon Marshall turned a tall hollow cylindrical sculptural piece with pierced openings representing stars in the sides. He used airbrushed acrylic colours to give it a dark blue exterior and an iridescent yellow interior, giving the appearance of light shining out from within.



Bill Maes showed off a traditional candle holder in Maple keeping with the “Light’ theme



Dianne Looker showed off a tall cylindrical vase with pieced openings in the sides and a plastic inset to hold water for flowers in the vase.

Two Lee Valley Gift certificates were awarded through a random draw to **Glenn McCarron** and **Dianne Looker**. The gift certificates were donated by **Gary Landry** and **Calum Ewing**.

Show and Tell

Calum Ewing



Don Moore showed off a turned and carved piece in Cherry Burl. The work in progress is Don's representation of Grief and he will present it when completed.



He also showed a turned and painted piece titled Full Moon over the Atlantic. The piece was turned in Hornbeam on a driftwood base and the seascape image was airbrushed with acrylic colours.



Dianne Looker showed off three needle threaders she had recently completed in Aromatic Cedar and Maple.



Calendar of Events

Date	Subject	Location
September 21, 2020	AGM	Online via Zoom
October 19, 2020	Zalman Amit with Don Moore Care and Use of Carbide Cutters	Online via Zoom
November 16, 2020	Richard Ford Turning a Hollow Christmas Ornament	Online via Zoom
December 21, 2020	Gordon Marshall Colouring and Airbrush Techniques	Online via Zoom
January 18, 2021	Stuart Taylor Turning a Goblet	Online via Zoom
February 15, 2021	Gary Landry – Adhesives Dave McLachlan - Tree to Turning Blank	Online via Zoom
March 15, 2021	A “Best Of” theme. best work, favourite tool, most helpful jig, greatest website, etc.	Online via Zoom
April 19, 2021	Harvey Meyer Pedestal Box Demo	Online via Zoom
May 17, 2021	Richard Ford Fantastic Food Safe Finish	Online via Zoom
June 21, 2021		Online via Zoom
	BBQ?	

What's on the Web?

Norm Jolivet

These dates are the third Monday in their respective months. Things may change.

From: Richard Ford



[https://](https://www.youtube.com/watch?v=vTVrIKg7C7g)

www.youtube.com/watch?v=vTVrIKg7C7g



Woodworking Wisdom - Offset Pendant

You will love Colwin at Axminster Woodworking Wisdom. He has a broadcast every Tuesday morning about 1 hr long

and they are all posted immediately on the Axminister website to review at your leisure. You can scroll back and see any of his previous presentations. He is a professional woodturner and very likeable and knowledgeable presenter.

Lighting up the Shop

Jim Diamond

A long time ago I put a bunch of fluorescent lights in my workshop. A few years I thought about changing over to LED lighting, but I wasn't particularly impressed by anything I saw, so I didn't make any changes.

Sometimes procrastination pays off. In the fall I bought a few LED "tube" fixtures when they were on sale at Canadian Tire for about 1/3 to 1/2 off. And, more recently, I finally came across some LED tubes at Costco that I could use in my remaining fluorescent fixtures. If you have been thinking about some new lighting, now might be the time to act.

First, the Canadian Tire products. All of these came with cords, so they are not really suitable if you want to replace a wired-in fixture. I bought the following:

- Feit 4' single-strip fixture (152-2598-4) for \$15; it claims 1850 at 19W (cool white);
- two Feit 3' single-strip (152-2599-2) for \$20/ea; they claim 3000 lumens at 19W (cool white).
- Noma 4' single-strip fixture (052-9457-6) for \$20; it claims 2100 lumens at 22W (daylight);
- Noma 4' double-strip fixture (052-9463-0) for \$35; it claims 4000 lumens at 40W (daylight);

100 lumens/watt seems to be business at usual these days. The 3' fixtures are well above this performance level, but they are very bright. The Feit 4' fixture provides plenty of light, I am quite happy with it. Normally I am not that fond of Noma products, but the single-strip fixture is quite bright and has an-line on-off switch, as does the Feit 4' fixture. Finally, the double-strip fixture is **bright**; I have it above my lathe, and I ended up hanging the diffuser from the recently-departed fluorescent fixture from it, because it was glaringly bright otherwise. The "body" of the fixture itself is pretty flimsy, but now that it is installed, that is not a problem.

The lights above made a huge difference in my shop, but I still had two fluorescent fixtures left. I had seen lots of LED tubes for fluorescent fixtures, but they all required an electronic ballast and/or were only good for replacing T8 tubes, and I had old-fashioned magnetic ballasts with T12 tubes. However, Costco is now selling some Feit LED tubes, two for \$14 at the store (much more money on-line). Feit has a ballast compatibility list on their web site; unfortunately (or maybe not) my remaining ballasts (Thomas STB-240-120) was not on their list. I phoned Feit's customer service line and the nice lady told me their list was not complete, it just contained ones they actually tested, and she went on to say that neither the tubes nor the ballast will be damaged if the aren't compatible, so just go ahead and try.

I'm happy to report that the LED tubes are compatible. The package claims 1750 lumens at 14W (4000K), with a 5-year warranty. I compared these lights with the fluorescent ones and got these results, using an EM-100 power meter for the electrical numbers, and both the "lux light meter" app and a Nikon DSLR (with fixed aperture and ASA settings, pointed at a near-white piece of paper under the fixture) for the brightness measurements:

Lighting up the Shop continued

Jim Diamond

	34W florescent bulbs	Feit LEDs
Watts	66	55
Amps	0.66	0.56
Volts	121	121
lux	615	1300
Shutter speed	1/250	1/500

The measurements are not worthy of a scientific testing lab, but do indicate a lot more light for fewer watts. (I don't know if the different between 55 and $2 \times 14 = 28$ is due to the ballast, or whether Feit's claim is ludicrous. In any case I am very happy with the results.)

In summary, if you have been waiting to find some LED tubes that might work in your fluorescent fixtures, I can enthusiastically recommend trying the Feit tubes. And if you want some new fixtures, a reasonable variety can be found locally at reasonable prices.

Upcoming Events

The **April Zoom** meeting includes an Interactive Remote Demo by **Harvey Meyer** who will show us how to turn a pedestal box. Mr. Meyer's description of this demo is as follows:



The pedestal box is an elegant form. Starting with a comparison of several lidded boxes, I explain why the pedestal box is different than the others. Then I'll show the components that make up the box. Beginning with a 3" square blank, 4" long, I'll show how to divide the blank into 2 parts for the lid and body of the box. Then I'll round off both pieces and begin to work on the lower part of the box. I'll establish a few key elements, then begin working on the lid. I'll show how I do jamb chucking to be able to work the lid while it's attached to the body of the box. After completing the lid, I'll get back to working on the body: establishing the "tulip" form, hollowing the inside where I show several methods for end grain hollowing, turning the base, reverse mounting (again using jamb chucking) to finish the bottom of the bottom and finally turning the knob and plug for the lid.

Please look at his website (<http://www.harveymeyer.com>) to see his work. Our remote demo is also listed on his calendar. Only if you are a member in good standing (dues paid) will you receive an invitation and code to attend. Contact **Dave McLachlan** (Treasurer) at mclachlandg@gmail.com to arrange to pay any outstanding dues. This remote demo is a first for us and based on how it goes we may be able to have others in the future.

Nova Woodturners' Guild – 2020/2021 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 addresses should be followed by @novawoodturnersguild.com to send mail to that person

Position	<address>@novawoodturnersguild.com	Name	Chairperson?
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Executive	executive (sends the message to all positions on the list)		
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President	president	Gary Landry	
Vice President	vice-president	Bill Maes	
Secretary	secretary	Calum Ewing	
Treasurer	treasurer	Dave McLachlan	

Members at Large	members-at-large	Brian Sharp	
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Committees

Library	library	Jim Diamond Richard Ford	C
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Web Site	webmaster	Richard Ford	C
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Membership & Promotion	membership-chair	Brian Larter	C
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Newsletter	newsletter	Norm Jolivet	C
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Competition		Vacant	C
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Guild Photographer		Chris Palmer	
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Fund Raising		Vacant	C
Raffles		Norm Jolivet Yogi Gutz	

Nominating		Bill Maes	C
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