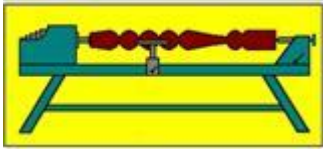


Turning Talk

Volume 31 Number 7

August 2017



Presidential Words

For August 2017



Dear Members,

Mt Coot-tha Exhibition 12 and 13 August



Woodturners
Society of
Queensland Inc.

WOODTURNING EXHIBITION & SALES

Bowls, Platters, Boxes and Containers
Wall hangings, Clocks, Pens and Kitchenware
Vases, Vessels, Turned Wood Art
And hundreds of other things as well.

At the Auditorium,
Mount Coot-tha Botanic Gardens
Saturday & Sunday, 12-13 August 2016
9.00 am to 4.00 pm



Woodturning demonstrations and advice from experts
Information on the Society and its activities
Tea, coffee, cakes, scones and canned drinks
Turning tools, equipment, accessories, and timber available for purchase

FREE ENTRY

For enquiries, please phone 3397 8156

entry so bring the whole family. Members wanting to donate cakes or slices please let us know so we can organise our catering. Demonstrations of Leather Craft, Pyrography and Woodturning will happen from 9 am – 3 pm on both days. The raffle is going to be bigger than Ben Hur this time so don't forget to buy your tickets.

We need members to help on Friday 11 August at Pine street from 7.00 am to load the truck. Members are reminded that we will not be up at Mt Coot-tha until 9 am to set up the tables. Volunteers are still needed in the kitchen area, so please contact John Lullfitz ph 3356 7904. I hope to see all members across this weekend to support our Society. Please like us on Facebook, or get your kids or grandkids to do the same. We need to spread the word to maximise our ability to attract the public to our event.

Dad's Passing

On behalf of my Mother and our Family I would like to express our heartfelt thanks to all those members who attended Dad's funeral, sent Sympathy Cards or contacted us to wish us well at this difficult time. My Father passed away on 14 July quietly at his home, he was 85 years of age.

Till next month

Rob McKee
President

Members wanting sale tables for the weekend should register with Sue Kennedy on ph 3892 4675, or place your name on the list on our notice board at Pine Street. We will be open from 9 am till 4 pm both Saturday and Sunday. It is free

Diary and Looking Ahead at WSQ

August 2017 and Beyond

Date	Day of Month	Session Title	Convenors	Times
1 Aug	1st Tuesday	Open Workshop New Member Training Evening Open Workshop	John Sheppard & Bob McGeechan	8.00am – Noon 1.00pm – 3.30pm 6.00pm – 9.00pm
3 Aug	1st Thursday	WSQ Safety & Workshop Induction for New Members		9.00am – 12noon
4 Aug	1st Friday	Toy and Open Workshop Toy Group Open Workshop	Peter Churchward	8.00am – 3.00pm
8 Aug	2nd Tuesday	Open Workshop New Member Training Evening Open Workshop	Lyndon Prescott	8.00am – Noon 1.00pm – 3.30pm 6.00pm – 9.00pm
10 Aug	2nd Thursday	Pre-Booked Project Tuition Cost - \$25.00	Rob McKee	9.00am – 12.30pm
12 Aug	2nd Saturday	Management Meeting	Meeting brought forward to Saturday 5 August due to WSQ Exhibition at Mt Coot-tha	9.00am – Noon
15 Aug	3rd Tuesday	Open Workshop New Member Training Evening Open Workshop	John Sheppard & Bob McGeechan Rob McKee (Former DVA Team members welcome) John Sheppard	8.00am – Noon 1.00pm – 3.30pm 6.00pm – 9.00pm
19 Aug	3rd Saturday	WSQ Monthly Forum/ Show and Tell	To be advised	9.00am – Noon
22 Aug	4 th Tuesday	Open Workshop New Member Training Evening Open Workshop	Rob McKee Rob McKee (Former DVA Team members welcome) Allan Dickson	8.00am – Noon 1.00pm – 3.30pm 6.00pm – 9.00pm
24 Aug	4 th Thursday	Pre-Booked Project Tuition Cost - \$25.00	Rob McKee	9.00am – 12.30pm
26 Aug	4 th Saturday	WSQ Demonstration	To be advised	9.00am – Noon
29 Aug	5 th Tuesday - Only if one falls in the month	Open Workshop New Member Training Evening Open Workshop	Rob McKee Rob McKee Rob McKee	8.00am – Noon 1.00pm – 3.30pm 6.00pm – 9.00pm
Future Events and Important Dates				
Friday 11 to Saturday 20 August	Ekka – Royal Queensland Show - https://www.ekka.com.au/			
Saturday 12 and Sunday 13 August	WSQ Woodturning Exhibition at the Mt Coot-tha Botanic Gardens Auditorium - 9:00 am – 4:00 pm Cost: FREE Refreshments available at very reasonable prices.			
Saturday 2 September	Ipswich Woodcrafts Club Open Day - Competition/ Demonstrations/ Displays/ Sales - https://www.dropbox.com/s/7je17od901lebg2/newsletter_2017_03_screen.pdf?dl=0			
Saturday 21 October to Sunday 29 October	Bribie and District Woodcrafters 2017 Annual Competition and Exhibition - http://www.briebewoodies.org.au/			
Saturday 29 October and Sunday 30 October	Caloundra Woodworking Club Open Days - http://caloundrawoodworkingclub.com.au/?page_id=181			

First Aid Training

WSQ has arranged for the Australian Red Cross to conduct First Aid Training for 20 members. The training will take place at WSQ Hall on Monday 21 August, between 9 am and 5 pm. There are still spaces available. Please act quickly if you wish to participate.

The training is being funded by a grant recently received from the Volunteers 2016 Grants Program.

Further training may be arranged, subject to demand.

Geoff Holbeck
Editor – Turning Talk

Treasurer's Report

A summary of our financial position at the end of June is:

Receipts	
Open Day - commission on sales	\$343
Open Day – raffle	\$336
Open Day – café	\$389
Memberships	\$1,675
Meeting Income	\$963
Store Sales	\$2,211
Sundry Income	\$169
	\$6,087
Less Payments	
Competition Expenses	\$875
Open Day Expenses (café)	\$187
Workshop Expenses	\$248
Newsletter & Office Expenses	\$551
Cleaning	\$200
Insurance	\$291
Electricity	\$871
Rent	\$438
Store Purchases	\$3,841
Soft Drink Purchases	\$230
Other Expenses	\$244
	\$7,976
Cash Deficit	\$1,889
Cash at Bank	\$30,687

The profit from the Open Day Weekend on 10-11 June was \$882. The expansion of stock in the store continues, and accounts for most of the cash deficit recorded for the month. Store sales also continue to grow.

Brian Creese
Acting Treasurer

Letters to the Editor

Dear Wonderful and Helpful Gentlemen of the Woodturners Club

My dear friend Phillip Brain has mentioned that some of you may be able to help me with some of these timber items, rolling pins and mushrooms for children aged 3 to 6 years.

I hope the pictures are clear and you can gauge the measurements. I don't mind if most of the mushrooms are different shapes but similar size. A few could be a little smaller.

[Editor's note: A copy of the original request is attached to the Notice Board in the WSQ Auditorium. The mushrooms appear to be approximately 11cm tall x 11cm wide, and the rolling pins appear to be approximately 18cm long x 3cm wide, with small handles about 3.5cm long at either end.]

I would love 20 of each for my beautiful playgroup children to roll their bread dough with and to use in their play. Preferably light colour timbers please. Much gratitude to you all if this is possible.

Kind Regards

Judy Harris
Noosa Pengari Steiner School

Library Displays

	NORTHSIDE	SOUTHSIDE
August	Everton Park	Sunnybank Hills
September	Strathpine	Logan North

Many thanks to all those people who have loaned items for display. If you are willing to offer some of your pieces for display, Sandy and John would be pleased to talk to you.

John Byrne
WSQ Member

Sandy May
WSQ Member

Woodturning Consumables (Sandpaper, Polishes, Oils, etc.)

It is accepted practice, that WSQ members provide their own consumables such as sand paper and polishes, waxes or oils. We allow some leeway with new members; however, this period should not exceed 4 weeks. In the future, could you please bring your own consumables if you wish to completely finish your turnings at the WSQ workshop.

Sandpaper, waxes and oils are available in our Store at very competitive prices.

Thank you and best wishes.

Bob Kennedy
WSQ Management Committee

Workshop Code of Conduct

Hi Folks,

The WSQ Workshop Code of Conduct has been in place for quite a number of years. The Management Committee reviews the Code annually (or more frequently if required) to ensure its continued relevance to workshop operations at WSQ Hall. This year's review resulted in the inclusion of a reference to the newly installed Micronair Dust Extraction System. This is a quite an important inclusion, in that if the proper sequence to start up/switch off the system is not followed, then significant damage could occur to the system. The 2017 Code is shown below.

I'm confident that regular workshop users at Pine Street are observing the Code's requirements as a matter of course, however this will serve as a reminder not to allow ourselves to become too complacent. I urge

all members, not only those who use the workshop facilities regularly (or even occasionally), to make themselves familiar with the current Code which is displayed at various points in the workshop area.

To workshop users in particular, let me conclude by reiterating the final section in the Code, which is:

- Treat your fellow workshop users with proper respect and consideration
- Think Safe.... Act Safe....at all times
- Enjoy your workshop experience!!

Kev Kruger
WSQ Vice President

Woodturners Society of Queensland Inc

Workshop Code of Conduct

The WSQ workshops at 19 Pine Street, Greenslopes have been established to provide a safe environment for learning and practising the art of woodturning (and associated woodcraft) under the supervision of experienced Convenors. By observing the Workshop Code of Conduct, as detailed herein, members and visitors will obtain maximum benefit from the facilities provided.

Workshop Hours of Operation: Are as determined by the Management Committee from time to time and as published in the monthly newsletter and/or as displayed at the workshop entry.

Convenors (and Assistant Convenors) :

- Have full authority to control all matters in the workshop and any reasonable directives issued by them must be complied with unreservedly
- Supervise all workshop activities.
- Provide expert guidance to members on safe use of machinery, tools and equipment
- Initiate repairs to defective machinery / equipment
- Endorse Incident Report Forms as necessary

Members: Members must -

- Sign in the Attendance Book, pay set fee, whether or not using machinery, tools etc. and sign out on leaving (essential for building evacuation purposes).
- Observe any and all warning/cautionary signs.
- Check all machinery prior to use, report any faults to Convenor and if necessary, place a “Do Not Operate” sign on the faulty machine.
- Wear a high impact face shield when operating ***ALL*** machinery and equipment (lathes, band saws, bench grinders etc.).
- Wear enclosed footwear (preferably sturdy boots).
- Wear dust mask and hearing protection (ear muffs/ear plugs) as appropriate.
- If operating a machine, on completion of the workshop session, turn off the machine, return any club tools and accessories (chucks etc.) to the Tool Store and ensure the work area is left in a clean and safe condition. In this regard, the air compressor, if used for cleaning a lathe or machine, should be used sparingly and not used to “sweep” the floor.
- If observing an actual (or potentially) dangerous situation developing at a machine site, request the operator to immediately turn the machine off and then seek Convenor assistance.
- Complete and lodge an Incident Report Form in the event of an incident (or “Near Miss”) occurring in the operation of machinery/equipment.
- Not operate band saws unless listed as a person duly authorized to do so.
- Not operate the Micronair dust extraction system other than strictly in accordance with the directions posted adjoining the system’s Control Panel.
- If a new member, not operate machinery/equipment in the workshop unaccompanied, until they have demonstrated their competence to a Convenor
- Unless being either a Convenor or Assistant Convenor, refrain from giving unsolicited advice, no matter how well intended, especially to new members, as mixed messages can cause confusion and lead to incorrect, and ***potentially unsafe***, tool, machinery or equipment usage.
- Not fool around in the workshop.

Visitors: All visitors must-

- Sign in when entering workshop (no fee payment necessary) and sign out when leaving.
- Not stand too close to any working equipment or in line with turning object on lathe.
- Not distract the machinery operator by talking to him/her when machine is in operation.
- Not operate any machinery or equipment in the workshop without the express permission of a Convenor.

All Persons in the Workshop: All persons should-

- Treat their fellow workshop users with proper respect and consideration.
- Think Safe andAct Safe ...at all times.
- Enjoy their workshop experience!!

Reviewed and amendments endorsed by the Committee this 3rd day of June 2017

Chemicals and Timber

As a teenager, I was interested in chemistry. My father was a cabinet maker. He promised me some rarely used chemicals he had in his workshop.

He promptly brought home in ground glass stoppered bottles, iron sulphate, copper sulphate, ferric oxide, ferrous oxide, and potassium dichromate. I had a lot of fun with some of these chemicals, and then promptly forgot about them, not questioning why Dad had them in the first place.

Forty years later I took up woodturning and became interested in the embellishment of pieces.

I first tried ebonizing, with rusty nails or steel wool in vinegar. This worked turning some wood black.

To lighten timbers I discovered bleaching, and managed to get some hairdresser's 2-part bleach. It worked very well on several timbers.

Sometime later, I was told that the reason some timbers ebonize with rusty nails and vinegar was that they contained tannin. Tea contains tannin I thought ... idea? I tried a strong black tea solution on some light timber, then the rusty nail brew with limited success. Next idea ... tannic acid. It is readily available on the web. I put it on light timbers before the nail brew, and Wow, it works.

Which gets me back to Dad. It dawned on me that in the "old days" (1920's and 1930's) when he started out chemicals were used to darken timbers.

So after some detective work on the web I found that potassium dichromate (very poisonous) was used to darken mahogany (Brazilian Mahogany then looks like African Mahogany). Depending on the strength, different shades result.

Iron sulphate turns some timbers grey, like old hardwood, or bluey black, if put on timbers with tannin.

Copper sulphate can have similar effects. Copper sulphate and iron sulphate are used for gardening, and

Bunnings would have them. Otherwise they are available on the web.

Ferrous oxide is also known as "jeweller's rouge" and can be used as a paste with beeswax for buffing a finish.

I haven't worked out what the black ferric oxide would have been used for.

Another chemical I investigated was iodine crystals, which are readily available on the web. Dissolve it in methylated spirits (tincture of iodine) and depending on the strength, it darkens timbers.

I'm sure there are many other chemicals that can alter the colour of wood. Bicarb soda is another one I found on the web.

If you're interested, you may have some of these chemicals at home, in the gardening supplies, kitchen, or medical kit. Also, check out the web. "Chemicals and timber" is a good starting point.

Good luck!



John Byrne
WSQ Member

New Member

One new member has joined in the last month.
The new member is:

- Zoe Pollock

Please make Zoe welcome when you meet her at WSQ Hall.

Alwyn Clark
WSQ Membership Secretary

A Cautionary Dust Extractor Tale

It was with interest I read in the last newsletter that the club has installed a new dust extraction system. I also have been working on this problem in my own workshop and after researching many sites I came across a very good article by Bill Pentz www.billpentz.com on dust control and how most dust extractors only clean the dust particle down to 30 micron, and that this needs to be reduced down to 2 microns if we really want to avoid health issues.

My workshop is inside my home and, consequently, dust is a big issue for me to also keep it out of the home. So, I spent quite some time searching for a dust extractor that I could install in my workshop to overcome this problem. As always price and space in the workshop was a big determining factor in my eventual choice, which was a *Hafco CD-2A Industrial Dust and Cyclone separator* with a 15amp induction motor and a 1 micron pleated filter capable of moving 1200 cfm, the minimum volume recommended by Bill Pentz.



With great anticipation after assembling it, I switched it on and was astounded with the excessive noise of the machine

I had to find a solution to a really big problem. How do you reduce the noise and still have the extractor work efficiently? In order to know if what I did to reduce my sound levels was working I needed to be able to measure this. I researched the web and reviewed many apps that would do this with your iPhone and for \$5.50 purchased an app, SPLnFFT noise meter to measure the sound levels. My Hafco machine read 92.1dB, well above safe hearing levels. Sound is measured in decibels, dB, and every 3 dB is a doubling in the sound level that our ear perceives. My Hafco was recording over 10 times the comfortable level recommended.

I ended up, building outside my workshop, a small **air tight** weather proof shed, using a relatively new product called Mass Loaded Vinyl, MLV. This is a very heavy flexible vinyl material, in place of lead, that in simple terms absorbs the sound vibration energy and converts it to heat. It is expensive at about \$225, for a roll of 5mx 1.35 wide from www.higginsinsulation.com.au, but much cheaper and easier to use than lead!

I built a timber frame for an enclosure and stapled the MLV to the outside of the frame and then covered this with sheets of Hardiflex. I then lined the inside with 50mm high-density rock wool, which was then covered with another layer of MLV on the inside of the enclosure. The same procedure was used to make the airtight doors to the enclosure.

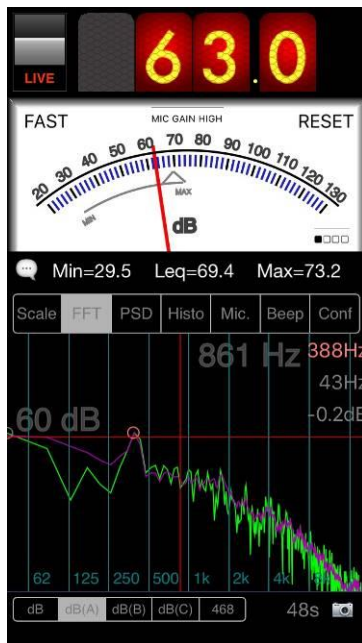
Having built the enclosure to house the dust extractor I had to design a return air system so that my sound level stayed in the enclosure and the noise did not get expelled via the exhaust outlet back into the workshop! As my workshop is air-conditioned I also did not want to lose all my air-conditioned air when it is turned on in the heat of summer.

To overcome this issue, I designed a baffle made from plywood (photos below during construction). This baffle had to be able to fit in the confined space of the enclosure, and so was an unusual shape so it could come out through the wall of the workshop between the studs. The inside of the baffle was lined with acoustic foam and designed so the air/sound went through a 180 degree turn and then another 90 degree turn. A smooth curve with a large radius was needed to enable efficient movement of the air as it changed direction through the baffle. The outside of this baffle was also covered with a layer of MLV. When making the baffle it was important that the inlet surface area of the baffle was at least as large as the diameter of the inside of the pleated filter.





Below are photos of the air tight shed with the doors open showing the dust extractor as well as my air compressor, which also is very noisy, on 12mm thick rubber mat; the sound level, 63dB, measured inside the workshop 1m from the return air vent inside the workshop.



In Summary:

The dust extraction system works well at collecting the dust and returning clean air, you will see that the soundproofing has eliminated the 394 and 1163Hz frequencies that caused the excessive noise. However, the sound level, 71.9dB, of the air being sucked in at the hooded workstation, is a bit more than I would like and still necessitates the use of ear protection.



Conclusion:

Had I known how noisy this machine was to start with I wouldn't have bought it. I believe the metal used to make the dust extractor is too thin and is the cause for the high level of resonance noise recorded at 394 Hz and 1163Hz. This machine, I believe, is designed/marketed for the home workshop, but without the extra cost of over \$800 and time to make my airtight enclosure to conform to council regulations and personal noise safety levels, it is not really suitable for a home workshop.

Regards

Peter Steller
Former WSQ Member

Tree of the Month

Osage-Orange



Osage-Orange Tree

Availability: Very limited though usually available from craftwood stockists.



Osage-Orange Timber



Bowl made from Osage-Orange

Botanical name: *Maclura pomifera*.

Distribution: A small tree found in North America.

Colour: The heartwood is a strident orange-brown colour. sapwood is distinct - pale yellow. The image below is from a sawn slab.

The timber: The grain is variable and sometimes interlocked. The texture is fine and even. Growth rings are pronounced and produce an attractive appearance grade timber.

Mechanical properties: Osage-Orange is a very hard, dense timber. It kiln dries to an average of 950kg/m³ (59lbs/ft³). The heartwood is durable and the softwood is attacked by Lyctid borer. It is rated high in all classifications. It cannot be steam bent.

Working properties: Requires frequently sharpened cutters especially if variable grain is encountered. It does not glue well. Pre-boring is required for screws and nail. It can be worked to a very good polish.

Uses: Woodware, sports equipment components, turnery.



Pen using Osage-Orange by Gary Bidgood

Geoff Holbeck
Editor – Turning Talk

The text, timber and tree and bowl images were sourced from "Timber in Australia in Colour" by David C Clark. The pen image was provided by WSQ.

Turning Talk

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Other organisations are welcome to use, with appropriate acknowledgement, editorial material from this publication.

You're invited to contribute to the content of TT.

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Or, by mail:

C/O TT EDITOR @ WSQ

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All contributions for the September 2017 edition of Turning Talk need to be submitted by no later than Tuesday 29 August 2017.