



Tutor's Tidings

TT

No 39 - Friday 6th November, 2015

HEALTH and SAFETY

Look what has been installed for the health and safety of all club members.

TWO large-capacity air filters suspended from the rafters above the workshop machines.

After the Thursday evening session a member remarked on the HUGE difference these filters had made in the quality of air at the back of the workshop – RELIEF! Yeeehaaaaaar!

Members are most grateful for this most important development in club resourcing.



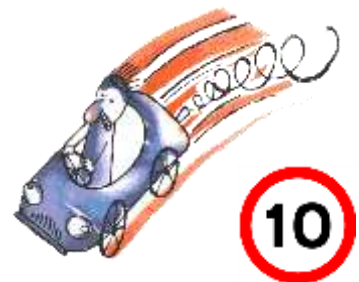
NEW AIR FILTERS

REMINDER NOTICES

The owner of the property expects all club members to **keep vehicle speeds to no more than 10 kph** when using the long driveway up to the clubrooms.

The route to our allocated parking space is clearly signposted, so just before the last rise please take a right-hand turn to the parking lot. **DO NOT USE the OWNER's driveway to approach the club workshop.**

This rule applies for both arrivals and departures from the workshop area.



Session PARKING is not permitted along the side or in front of the club workshop area. There are just two exceptions :

[1] a space for the tutor's truck (mobile tool store) [2] A reserved space for a member with a medical/health reason. **Please no other vehicles!**

Brief-period parking to unload/load equipment is permitted.



Members are requested to use the club's designated parking space located behind the large building opposite the workshop.

The History of the woodturning LATHE

Part FIVE - Final

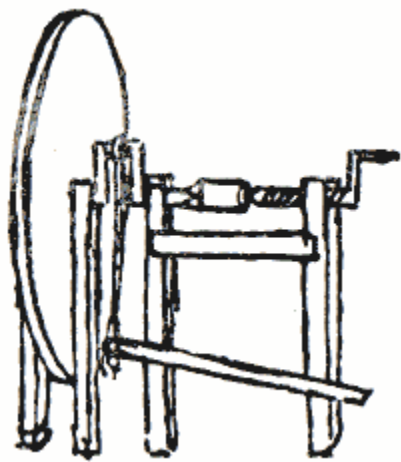


Fig 24: Leonardo's lathe c1500.

The treadle, or foot wheel, lathe

This sketch (Fig. 24) by Leonardo de Vinci is the first known illustration of a treadle lathe. It is not known whether it is a drawing of a lathe he had seen or if it is another of his original concepts. Whichever it is it is not a practical machine because it would turn too slowly.



Fig 25: Treadle lathe turner - 17th C.

Fig. 25 (Coker *ibid*) shows how the turning speed for a treadle lathe was increased by using a flywheel and belt to drive a small pulley on the headstock. Note that the flywheel and the pulley are provided with a number of stepped grooves so that a variety of speed ranges could be obtained by moving the belt.

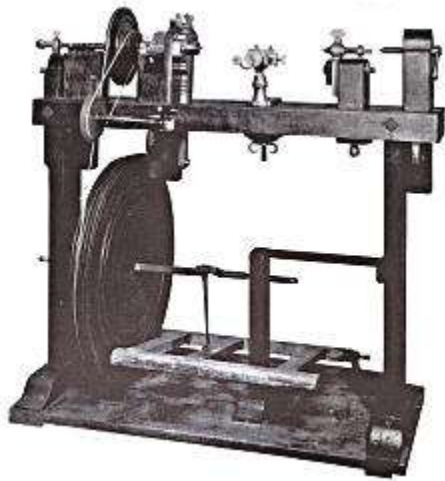


Fig 26: Treadle lathe - late17th C or early 18th C.

The lathe shown in Fig. 26 is set up for ornamental turning. Ornamental turners are able to create patterns on the work and obtain forms which are not possible with hand turning. Ornamental turning has always been very much a minority hobby - in its early days it was practised by members of the upper echelons of society, including royalty. It is still done today by enthusiasts, some of whom use antique machines similar to the one illustrated here. Good antique machines command very high prices. Examples of ornamental turnings can be seen on the website of The society of Ornamental Turners

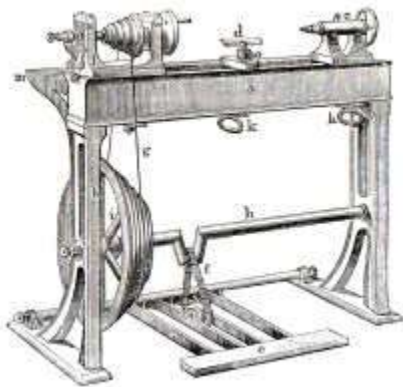


Fig 27 Treadle lathe circa 1850

The lathe shown if Fig. 27 is made entirely of metal and is a robust machine. Despite the existence of such machines the pole lathe was preferred by many hand turners and it lingered on well into the 20th century. To quote Holtzapffel again: "The exclusive or even general use of the foot wheel for the lathe, was probably considerably retarded, first, by the very simple and economical nature of the pole lathe, and then, by imperfections in the construction and in the manner in which the employment of the wheel was first attempted.". After small electric motors became available treadle lathes became museum pieces

Tailpiece

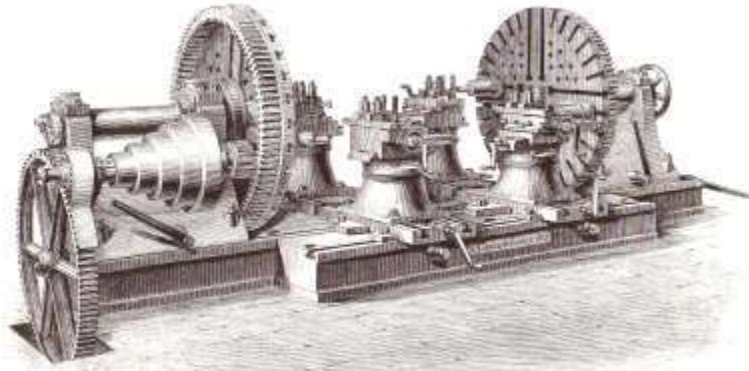


Fig 28 Lathe for turning locomotive wheels in mid-19th C.

This image has been added to provide some perspective. Until the beginning of the 19th century the tools for turning both wood and metal were handheld. In the early years of the century Henry Maudsley developed the slide-rest lathe for turning metal. The tool was clamped in the rest which slid along an accurately machined bed and was moved by a leadscrew. With the implementation of steam power the metal cutting lathe developed rapidly. The lathe shown above was able to turn two steam locomotive wheels on their axle.

End of series.

I hope you have enjoyed reading this fascinating historical account about the history of the lathe

Cheers

Clive

Club Project – Voluntary Participation

Woodturning and “CRACKLE” painting.

The picture right is a fine example of incorporating crackle painting into a turning project.

*Please prepare your finished turning and be ready on **Thursday November 26th** for the first night of the crackle painting process.*



CRACKLE PAINTING incorporated into your wood turning projects

OK, those club members intending to become participants in this project now have three weeks to prepare/finish a turning of their choice of any shape and design.

Note: do not apply any EEE or other finish to the part you intend to crackle paint. Leave that part sanded and ready to take an undercoat.

Having a demarcation groove between the part for selected painting and the rest of the turning would be a good idea as it makes the masking job easier.

ROBERT will be leading this project and is happy to provide any further advice during your preparatory work.

As time draws close, information about undercoat, first coat, crackle paste, and the crackle layer will be provided. To cut down on expenses perhaps the idea of bulk purchasing supplies would be a good idea.

On Thursday 26th November you will need a roll of good quality *electrician's tape and some newspaper for the masking job. (*beware the el cheapo stuff you get from the \$2 shop).

TUTOR's Comment

1. Record numbers of members are turning up for the weekly sessions. Last week the Tuesday and Thursday sessions were at capacity. Unfortunately last night Lathe No 6 had to be shut down as problems with this lathe continue.
2. Even with re-commissioning lathe No 14 we were still one lathe short to cater for our needs.
3. **Heather** intends returning to the Tuesday session as soon as an unexpected commitment in Auckland has been completed.
4. Great to see **Paul Dowsett** able to return to the Thursday session.
5. The installation of two large-capacity air filters is a welcome addition to the workshop. Members have already provided feedback about the positive difference the machines are making and the positive effect on a healthier working environment.
6. I am impressed by the varied challenges within a wide range of projects undertaken by club members. The overall quality continues to improve.

Cheers

Clive

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CHRISTINE's first shot at pen making. Woo Hoo!



DOMINIC turned a snazzy red, acrylic, 7mm pen



PAUL D. completed this rather beautiful bowl. What a finish!



MAURICE needed the long-bed lathe to make this monster rolling pin. (scones can't be far away)

This Week's Pictorial Roundup



Record numbers of members are attending sessions.
Keeps the tutor busy eh!



It's end-of-session clean up time



Turnings don't have to be big, they've gotta be high quality like PAUL's bowl.



It's all go here. Head down and gouges up!

The rugby's World Cup has been played and won.

The Melbourne Cup has been run and won.

The cricket test against Australia is under way.

The club's function is on Sunday 6th December.

There are just 49 days to Christmas
and next year is only 55 days away.

What a ride!

Cheers *Clive*