



Crosscut

◀ Model of an Eland 90 by Douw Kruger

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Next Turners' meeting – Monday, 7th October, 2024 from 18h00 at **Made in Workshop** –
Topic – Herman will turn a natural edge bowl from an upside-down blank.

Next Main club meeting – Wednesday, 9th October, 2024 from 18h00 at **Made in Workshop**
– to be advised

New WWA Account number. **FNB 63026931287** – please make sure that your payment can be identified by adding your **full name**, perhaps cell number and **reason for payment**.

News

Turners' meeting. Monday, 2nd September, 2024
from 18h00 at **Made in Workshop** – Topic –
Turning threads by Poena Coetzee.

Poena demonstrated the use of a threading jig to cut the threads for a lidded box. Poena used a Chinese-made jig, modified based on Simon Hope's design. He explained how the geometry of the threads dictates the sizes of the inside and outside starting sizes. It is important to follow the right sequence of steps and be accurate with sizing. The top picture shows him cutting the outside thread on the base. The middle picture shows the finished threads on the lid and base. The base still needs to be hollowed out, followed by overall finishing. The picture below shows how the jig mounts on the toolpost and the lathe. The 60° thread cutter is fitted into a collet on the headstock spindle.



Main club meeting – Wednesday, 11th September, 2024 from 18h00 at **Made in Workshop** – Harvesting of wood for cabinet making (flat work) – held over from August. Trevor explained some principles for harvesting and cutting timber;

and drying it for cabinet making and joinery. Herman

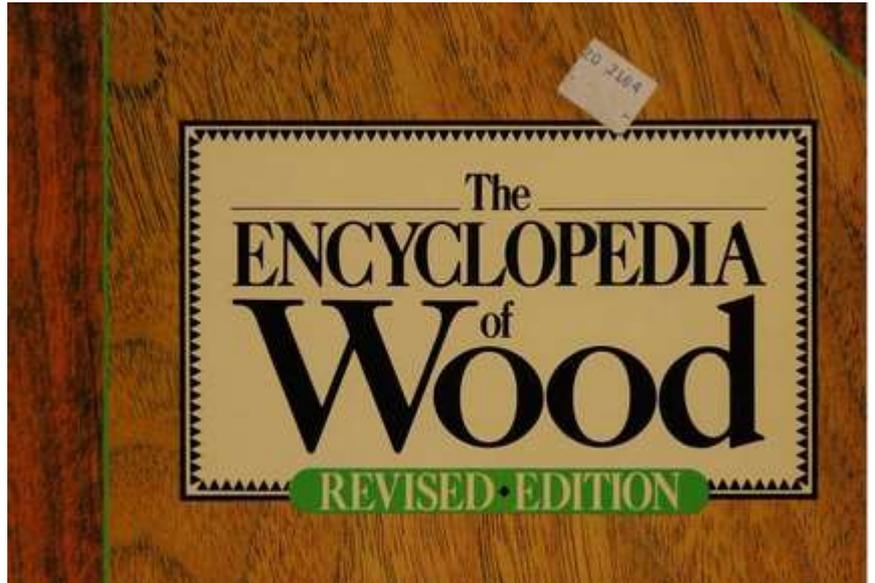


showed a bandsaw jig he uses to cut logs into planks. Trevor showed the Siegley #8 plane restoration documented below.

The book referred to in the talk on wood harvesting – The Encyclopaedia of Wood – Revised edition can be found at https://archive.org/details/encyclopediaofwo0000unse_w5w4/mode/2up

Reminder - New WWA Account number.

Due to ongoing difficulties in changing signatories and poor service from Nedbank, the committee resolved to change banks. Anesh, our treasurer has opened an account with **FNB** and requests that all payments be made into this new account: **63026931287** – please add this to your beneficiaries list. Please make sure that your payment can be identified by adding your **name**, perhaps cell number and **reason for payment**. Annotations such as “annual subs” or “WWA shirt” without your name are not helpful – Anesh will not be able to trace your payment. Please note that the **Nedbank account will be inactive from the 01st April 2024**, so any funds paid into the Nedbank account may be forfeited.



Access times for **Made in Workshop for WWA members :**

MiW times for WWA members are as follows

Monday, Thursday, Friday and Saturday 9AM to 12AM. However please take note of the following: WWA members CANNOT just arrive at **MiW** and use machines unless they have booked them with **MiW**. This refers to the bookable machines such as the panel saw, thicknesser/planer, drum sander, spindle moulder as well as CNC machines of any kind. This applies only the woodworking machines. The other machines require the purchase of a membership at the monthly (30 day) rate – which is a good rate anyhow. Machines such as the bandsaw and the Triton router table need no booking. Henry also requires that all the major machines may only be used if the WWA member is familiar and fully understands the importance of the correct and safe use of these machines. Speak to Graham regarding training and qualification to use machines.

MiW is a **Maker Space**, which means that members are able access the machines which are included in the list above. Access to the other machines and facilities is subject to additional fees as mentioned above. While **MiW** will provide assistance and training where necessary, members are responsible for providing materials and performing the work themselves. Members need to be skilled and competent to use the facilities to do the work. For example, if you wish to use a CNC machine, you will need to manually program the tool path on the machine or import it from a design tool that generates the tool path for you. There may be a steep learning curve, but that is part of the challenge.

Bookings can be made during office hours of 8h00 to 17h00, weekdays by contacting one of these numbers: Henry – 083-269 9505; Josh – 083-768 7853; or Trenton – 081-365 6039

Schedule for Regular Events at **Made in Workshop**

1. Second Saturday of month at 9h00 - Herman – all things turning related – 083 631 0501 [hermanpotgieteresq AT gmail.com](mailto:hermanpotgieteresq@gmail.com)
2. **Show & Tell** meetings are held at Hardware Centre every Friday Morning at 09:30. All WWA members welcome. Contact Eugene on 0824953394 or eugene@antlerfin.co.za

This list is subject to change, so please consult your *Crosscut* each month for any updates.

Toymakers Annual Braai – Saturday, the 23rd November 2024. Saturday, the Gereformeerde Kerk - 41 Third Road (41 Derdeweg), Northwold, Randburg. Coordinates S26°04'20" E27°57'30.1"

Starting 10h30 for 11h00; the raffle starts at 12h00, lunch at 13h00. Watch your inbox for more info.

Toys made and donated by WWA members at last year's event.



Mystery Hand-plane – Siegley #8 - rebuilt

Trevor Pope

To recap from May 2024, Alistair gave me an unknown #8 plane, covered in rust and missing the blade and cap iron. It has no identifying marks at all, so its maker was a mystery. I managed to identify the make and model as a **Siegley #8**, dating from between 1892 and 1901, from pictures of a few similar ones for sale. There weren't any exact matches that I found, particularly comparing the grooving on the top and bottom of the body. To restore the plane to working order, I decided to source and/or make the missing iron, cap iron and lever cap.

The picture below shows the #8 with new iron, cap-iron and lever cap. Compared to the Record #7



below, it is somewhat larger. Surprisingly, the #8 is lighter at 3271 grams compared to the #7 at 3542 grams (8% lighter). This is despite the thicker iron and cap-iron assembly.

#7 planes have 60mm width cutters, only #8 planes were fitted with a 66mm cutter, so it wasn't easy to source a replacement. I managed to find one made by Quangsheng. This is listed as a 2-5/8" plane iron and I bought the matching cap iron too. It is possible to make the iron and cap-iron from gauge plate, which I would have done if I hadn't found one for sale.

I needed a replacement Y-lever as well. Clifton makes a brass one that is also longer than standard, with a replacement pin too. Brass is much better than pressed steel or pot-metal used in



currently made planes. This picture shows the new Y-lever fitted with the new pin. You can see the rather unusual frog, with the cap-iron screw in its new position above the adjustment slot. You can see the rather narrow adjustment wheel too.

I ordered these parts from Workshop Heaven (www.workshopheaven.com) in the UK.

(As previously explained, the original Siegley #8 had the cutting depth adjuster locate in a series of grooves in the underside of the iron – this was not replicated here.)

The iron and cap iron are somewhat thicker than standard at ???mm compared to ???mm. The cap iron comes with a longer screw to match. (This is sometimes a problem with thicker irons, when the cap iron screw is too short – longer cap-iron screws are available from Clifton if needed.)

The iron and cap-iron were about a millimetre wider than the mouth, so some careful grinding of the sides of the iron and cap-iron was done. They have to be a millimetre or so narrower than the mouth about 30mm above the cutting edge, to allow the iron and cap-iron assembly to move



laterally. Lateral adjustment is needed, so that the cutting depth across the width can be adjusted to be uniform.

Another snag was the absence of a slot for the cap-iron screw in the frog. This was solved by drilling and tapping another hole further up the cap-iron, clear of the frog. The cap-iron screw can still clamp the iron to the cap-iron, albeit somewhat higher. Not ideal, but there is not really any alternative. You can see this in the above picture. The original hole is on the left, and the new hole is located above the depth adjustment slot on the right. The cap-iron screw is shown fitted in the new hole.

I don't know what the lever cap looked like exactly, probably similar to the image on the right, which shows a #5 (which looks like a #4 in size to me). You can see that the lever cap is a casting that locates under the cross pin. There is no cap iron – the lever cap is intended to serve that function as well. Like the #5 shown, a lever cap is needed, which I fabricated.

Due to the somewhat thicker iron and cap-iron assembly, the lever cap needs to be thinner than the original.



I made a lever cap from 6.5mm (1/4") mild steel plate, cut and filed to shape. The gap under the cross-pin is about 5mm, so the lower half of the cap-iron was thinned down and a groove filed to locate under the cross-pin.

The tensioning hand screw was made from a 10mm brass bolt, so the hole drilled at the top of the lever-cap was tapped with an M10 metric thread. The tensioning screw can be tightened



sufficiently by hand, without the risk of over-tightening. The picture above shows the completed lever-cap with tensioning screw fitted in the #8. The Record #7 has a similar arrangement, but with the Bailey pattern frog.

The adjustable mouth had to be opened slightly, due to the thicker iron. Even with the mouth set as far forward as possible, the opening was too tight, causing shavings to jam. I carefully filed about 1/2 mm away from the bottom edge. (Because the frog is fixed to the sole, an adjustable insert is used to allow the width of the mouth to be set by slackening off two screws on the top side.) This picture shows the corrugated sole and the tight mouth on the right.



One unresolved feature of my #8 is the extra holes in the sides – I'm not sure what purpose these serve. You can see the extra hole in the pictures above – there is one on each side, and they don't appear to be threaded. Suggestions on what was intended for are welcome.

This picture shows the lever cap made from 6.5mm mild steel plate. There are two slots filed on the top, but only the left-hand or lower one is used. The upper one was a measurement error!

The new Y-lever and pin are shown on the left. Fitting it all together, I found there were some minor interferences between the Y lever, the lever-cap, the frog and the slot in the cap-iron. These were



caused by various misalignments. Some very careful bending and filing resolved these.

Fortunately, there are a lot of standardised measurements between the different Bailey pattern planes, so parts are mostly interchangeable, but with some fettling required. The new Y-lever comes with a 4mm pin. So, the 2.5mm hole of the original was carefully bored out to 4mm. The new pin is actually hardened, which I discovered when I tried to slightly spread the end with a hammer for an interference fit.

With the #8 assembled and the iron sharpened, I was able to set the plane to take a fine cut across



the full width. There is no lateral lever, so lateral adjustment is done by some light tapping on the sides of the blade. The depth adjustment wheel is a bit narrower than the usual Bailey pattern so it is uncomfortable to use. It works OK, except that the thread is opposite to the Bailey pattern. This means that I have to keep thinking which way I have to turn it to change the depth.

(After many years of using Bailey pattern planes, I don't even have to think which way to adjust the depth wheel – this #8 is opposite!)

With the custom fitted Y-lever from Clifton, there is less backlash than I am used to.

The sole seems to be quite flat, but it is difficult to assess using a straight edge because of the corrugations.

The #8 is quite wieldy to use, despite its size and weight, although I wouldn't like to have to use it all day! It's actually quite a nice plane to use. The work done to restore it was worthwhile. The lever-cap is a bit ugly – a brass one would be nice. Maybe one day I will make one out of brass or bronze. I have the pattern in mild steel now.