

Crosscut

◀ Toys, toys, toys...

P O Box 1, Randpark Ridge, 2156 Secretary: Matt Hoffmann secretary@wwa.org.za Editor: Trevor Pope tpope AT iafrica.com
All written content and opinions are those of the editor, unless stated. © Copyright reserved. Go to www.wwa.org.za for back issues of *Crosscut*.



Next Turners Meeting on Monday, the 5th February 2018 from 18h00 at the Living Link Hall — Please bring examples of your holiday projects to show at the meeting. Remember, the new gate-code to get into Living Link is now **1574#**

Next General Meeting on Wednesday, the 14th February 2018 from 18h00 at the Albertskroon workshop- Interesting woodwork videos: mortising behind glass /carving with chainsaws by Herman and Ben

News

4th December 2017- Turner's meeting. Using thread pipe fittings in turning. Herman showed some of the plastic and brass fittings available to be repurposed. He showed how to fit a combination of PVC male and female threads to a turned wooden box, to make a screw-on lid. The Nova Comet II lathe that we use for demonstrations at the Living Link hall has a forward/reverse switch. This was in the incorrect position, when Herman started turning, which caused some bafflement due to the inability of his tools to cut until this was spotted by somebody in the audience. Then the demonstration proceeded as expected. The picture on the right shows Herman demonstrating his home-made texturing tool.



13th December 2017- General Club meeting. Tom Howden and Trevor Pope compiled a "What tool is that" quiz using a variety of interesting tools. Tom has an antique shop so he always has interesting and unusual tools to show.

(Tom's shop is not far from the clubhouse – Mala's Antiques. To get there from the WWA workshop, travel west along 5th St, which becomes Long Rd, which is just as well as it intersects with another 5th St, and then you can see the shop on the left.)

Nobody got all the answers right, but a couple came close, so the level of difficulty was probably fair. Peter Middleton and Lynton Dennill tied with the highest score, with Peter receiving the bottle of red wine after a toss of the coin.



10th January 2018- General Club meeting. Without a specific topic, the meeting was a general Show-and-Tell. John Speedy showed his Chinese balls creation, modelled after a project in David Springett's book *Woodturning Wizardry*. Made from Jacaranda, the four concentric balls took about 8 hours to make, using a set of custom made tools.



Willie showed his precision vice in beech, modelled after a machinist's vice that allows him to hold workpieces very accurately for drilling.



Club Notices

Toy makers' fundraising braai – This took place on Saturday, the 25th November 2017, at the Gereformeerde Kerk, Randburg. Alistair reported that about 1300 toys were made and delivered to three separate charities. Money raised from the auction of some items at the braai was used to

purchase children's stationery for the three charities, helped by a generous discount from Makro. Well done to Alistair for co-ordinating all this, as well as all those that helped by collecting prizes and on the day. Also, well-done to all those that made toys.

Hobby-X 2018 – this takes place from Thursday, the 1st

Mar 2018 to Sunday, the 4th March 2018 at the Dome in Randburg. As in previous years, assistance with demonstrating, manning the stand, bringing items to show and sell will be

appreciated. Details to follow at the February meetings. See <http://www.hobby-x.co.za/> for more information as it becomes available from the organisers. The pictures are from Hobby-X 2017.



Possible future visits and courses being considered by the committee:

- Door Making – factory visit and demonstration at Greg Hirschon’s factory in Robertville – near Austro. Greg will demonstrate how they make a door – Saturday Morning.
- Airbrushing course at Vermont, Olifantsfontein – week day.

Details will be advised when available – probably in 2018. Please respond to Alistair when he requests feedback on so that he can confirm attendance when the dates become available.

Regular Events:

Toymakers. The toymakers meet on the first and third Mondays of every month, at 09h00 till 12h00 at the Albertskroon workshop. Meetings will be cancelled if they coincide with a public holiday. Winston will open up the workshop – see Winston’s contact details below.

Ken’s Saturday Workshop. Ken Bullivant holds a Saturday workshop at his house in Boksburg. The location is 13 Franklin Avenue, Comet, Boksburg on the first Saturday of the month from 09:00 to 12:00. They decide on an annual project and work throughout the year making it. Individual projects are discussed and problems solved. Ken also offers private lessons too. Contact Ken on 082 809 0020 if you wish to take part.

Friday Morning workshop - Winston Klein will be convening a workshop at the Albertskroon work shop on the 1st and 3rd Fridays monthly from 09:00 to 12:00. Contact Winston at 072 553 5045 or kleins AT iburst.co.za

SPIRIT OF THE WOOD - WOODTURNERS

Offering Woodturning lessons, One-on One Training, Classes and Club, Willing to assist persons with limited physical/intellectual abilities. Contact Johan Kramer on 083 251 0183 or Johankramer300@gmail.com

Saturday meetings

1. Second Saturday of month - Herman will open the workshop – all things turning related – 083-631-0501 hermanpotgieters@netactive.co.za
2. Third Saturday of month – Clive will open the workshop – 083 407 8008 stacey AT netactive.co.za Clive will also open the workshop during the week “BY ARRANGEMENT”
3. Fourth Saturday of month – Graham will open the workshop – 082 900 0242 grahamcr AT mweb.co.za
“SHOULD NO ONE ARRIVE BY 10h00 THE WORKSHOP WILL BE CLOSED.”

Please can the conveners complete the attendance register on the bar counter, so we can gauge attendance?

The closing up instructions must please be followed by the convener when leaving. Graham has placed the procedure in prominent positions in the workshop.

Sine Plate

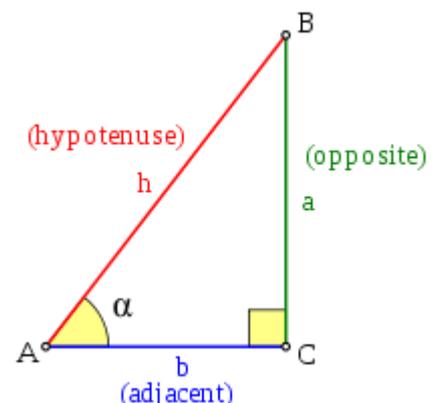
Last year Ken Bullivant showed a fixture he uses for drilling angled holes to precise angles. The fixture consists of two wooden boards hinged together on the one side and supported by a movable spacer between them on the other. A machinist’s metal sine plate is shown on the right.



The principle of a sine plate is illustrated in the diagram below. The equation given allows you calculate the height of the spacer Z required between the two boards on the left-hand side. For those who require a quick refresher for high-school trigonometry, you may remember the equation

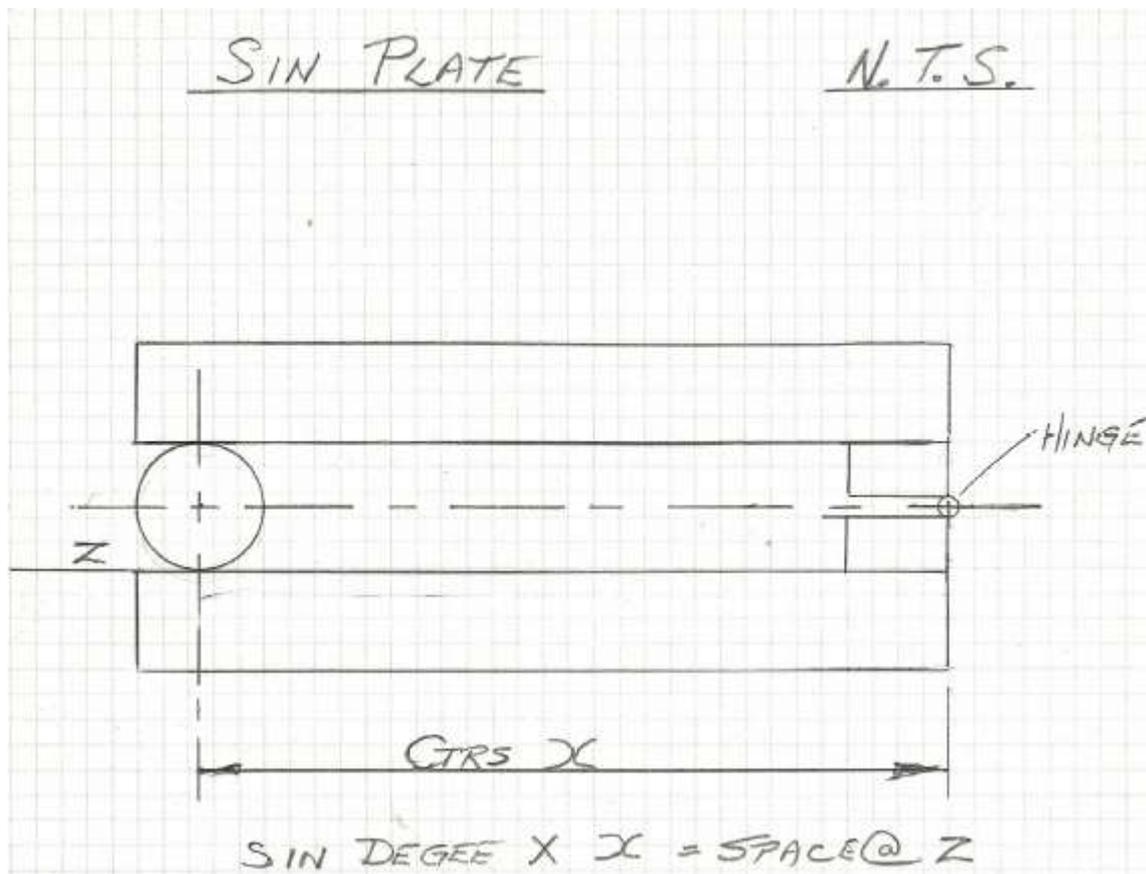
$$y = r \sin \theta \text{ or as shown in the diagram on the right, } a = h \sin \alpha$$

where y is the opposite side (or a)
 r is the length of the radius (hypotenuse h) and
 θ is the angle of inclination of the radius / hypotenuse line h



You may also remember being issued with books of trigonometric tables, where you looked up in the sine table, the value of $\sin \theta$, which you then multiplied with r to calculate y .

In Ken's diagram, $z = x \sin(\text{angle})$, which is approximately the same as the equation $y = r \sin \theta$ given above. If you draw it out precisely, the two are not exactly the same, but for small angles they are practically the same.



For example, if you wish to drill a hole at an angle of 10 degrees, and your platform is over 200mm wide, then you need a spacer Z of

$$Z = 200 \times \sin(10^\circ)$$

Looking up the sine of 10 degrees in your book of sine tables, you will find a value 0.17365, which multiplied by 200mm, gives the value of 34.7mm.

Thus, for an angle of 10° , a spacer, positioned at 200mm from the pin the hinge, must be 34.7mm taller than the spacing of the two boards at the hinge end.

These days, if you no longer have sine tables, you can use a scientific calculator. If you don't have one, most cellular telephones and computers have a calculator that you can set into scientific mode.

If have a protractor or a digital angle setting gauge, you can use that, and to be sure, measure the distances of x and Z to confirm your setting.