

SEGMENTED MOB MEETING NOTES
MELVILLE CLUBROOMS
Thursday 26 October, 2023

Present – Syd Harvey, Noel Moyes, Ian Hamilton, Aiton Sheppard, Jon Brain, Tania Emmerson, Mike Phillips, Silvio Moriconi and Stan Nolan.

Apologies – Ray Dallin and John Townsend.

WELCOME

Only Syd, Stan and Noel attended the last meeting. So sad!

BUTTERFLY VESSEL PROJECT

Tania and Noel have finished theirs. Noel, Syd and Aiton are still working on theirs. Aiton is worried that his may be too thin – a basic design error to start with. To avoid it coming off the lathe while turning the outside, Syd recommended a long shaft to the base from the tail stock.

SOCCER BALL PROJECT

Silvio has now completed his together with its base. Refer to the photo. Syd explained to Mike how the pieces are assembled with masking tape but Mike decided it was going to be too hard and is not going to make one.

DUMMY SHELL PROJECT

Dummy shells 9.75”X31” shells for Rottnest Island is a project that can be made up from scrap timber. Note for future discussion when specifications are available.

RADIAL FEATURE RING

Noel brought in a photo of the radial feature ring he found on the Internet. He will make up a trial one which may make a useful group project. Aiton suggested that all the complex cutting be done at hands-on meetings. Members to make up the strip of timbers glued together to cut when Noel has more information for us.



WEBSITE

<https://drive.google.com/drive/folders/1ZXKXiCAKthAjxLWn1NCrY9UhL1xim9Cz>

Ian Ludford also has our page set up on the WAWA web page the link to which is <https://www.woodturnerswa.org.au/segmenters/>

On-line John di Sefano Segment Helper www.johndistefano.com.au

SUGGESTED PROJECTS

1. More hands on demonstrations.
2. Learning to make feature rings. (Basic through to advanced.)
3. Training video suggestions on website or YouTube.

3. 4. Jig designs and specifications to use when preparing, cutting, assembling, or turning your project.
4. 5. A team project from start to finish at meetings with all members being involved. This will then be sold for Seggie fund raising. Tania's artistic challenge may result in a suitable item for this.

AROUND THE TABLE

SILVIO - Finished his soccer ball using a scraper sharpened at 15 degrees. He also completed the stand since the last meeting. Now he is seeking motivation.



NOEL – offered to make Tania a 30/3.5 insert for her lathe to suit the holder he made for her to hold a chuck while she does her decorating.

TANIA – has completed her 'Butterfly' vessel but is struggling with the soccer ball.



STAN – hasn't done much but brought in a couple of the bowls he made and wishes to finish at the STEP finishing course in November. He wishes to make an open segment lampshade. The general consensus is that he is taking on projects that are too complex and should hone his skills on easier tasks.



MIKE – finds the soccer ball too hard and will not be making one. He is interested in making little toys.

IAN – drew attention to a table saw like the Seggies on that is being offered for sale on Facebook for \$950. It appears to be in good condition, is a year old, and maybe a good buy as they are \$1600 new. He also found negative rake scraper cutters on Ali Express.

JON – has taken a new track with his CNC machine. The possibilities are endless. A vast variety of embellishing can be done. He is learning the software and in the process of acquiring a smoke box which will be necessary if he is going to do decorating for other members. Plaques and trophies could also be made. He made a crab drawing.



AITON – is struggling with his biscuit barrel'. A photo of the two halves is at the end of these notes. He brought in some 'pen blanks' for Tania and a small bit of African Blackwood for Noel to play around with as it is lovely to turn.

2023 MEETING DATES

NOVEMBER – **Sunday 5**, Thursday 16 and Sunday 26. Aiton will be an apology for 16/11 (Busselton) and 26/11 (Joondalup Motoring Festival).

DECEMBER – Sunday 3. Noel is arranging the annual wind-up, to be held at "The Seventh Avenue" pub in Midland. The 'Butterfly' vessel project to be completed and brought along for show & tell and most popular vote.

So far the following have indicated they will be attending. Syd & Cheryl Harvey, Noel & Val Moyes, Aiton & Pauline Sheppard, Ross & Marilyn Flint, Ian & Kaye Hamilton, Jon Braine, Tania Emmerson and Stan Nolan. Others wishing to attend please advise as soon as possible as we need to know the numbers for our booking.



Cut gap-free bevel joints (woodmagazine.com) October 03, 2016

Set your saw to cut accurate bevels for no-gap joints on projects with four or more sides.

Turn protractor readings into bevel angles			
<i>For projects with this many sides...</i>	<i>Saw bevel gauge reads...</i>	<i>Protractor reads...</i>	<i>Digital gauge reads...</i>
4	45°	45°	45°
5	36°	54/126°	54°
6	30°	60/120°	60°
7	25.7°	64.3/115.7°	64.3°
8	22.5°	67.5/112.5°	67.5°
10	18°	72/108°	72°
12	15°	75/105°	75°

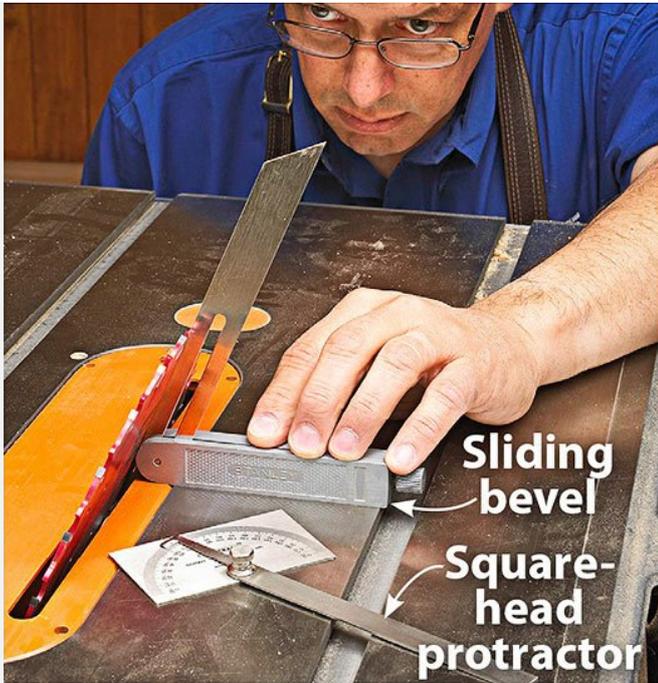
You can translate protractor or digital angle gauge readings into blade tilt angles on your tablesaw by subtracting them from 90°.

When cutting parts for multi-sided projects, success comes from setting your saw blade within fractions of a degree. With the tools and technique shown here, you'll achieve that accuracy in five easy steps.

Step 1: Make the throat plate flush with the saw table. Then mount a wooden extension on your miter gauge face, and square it 90 degrees to the blade.

Step 2: Unplug the saw and use its built-in gauge to tilt the blade to the approximate angle. Then fine-tune the angle one of two ways:

Step 3: Use a protractor and the conversion chart above to set a sliding bevel. Position the sliding bevel blade against the saw blade body, as shown below. Or you can zero a digital angle gauge on the saw table (not the throat plate), and then attach it to the blade. Keep the corner of the gauge against the throat plate, as shown second below, so it doesn't rotate with the blade.



Brace an electronic angle gauge against the throat plate so it doesn't accidentally rotate and produce a false reading.

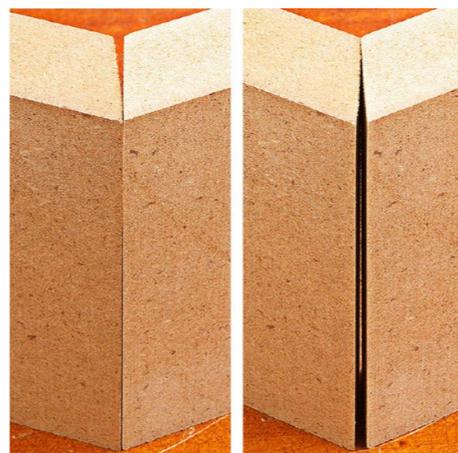
Put the halves together

Step 4: To test your settings, rip scrap strips the same width and thickness as your project parts, and divide them into sections about 8" long. Use your miter gauge to cut a bevel on one end of each test piece. Then attach a stop block to the miter fence, and cut a bevel at the opposite end of each piece so they're all the same length.

Step 5: Divide the pieces into two equal groups (or nearly equal, for odd-numbered sides). Tape the outside corners together to assemble each group, as shown below. Butt the untaped ends of each half-circle together and check for gaps along the edges and ends. If there's a gap at the inside or outside of the butted joints, adjust the blade tilt, as shown second below. Make small angle changes, though. You multiply each adjustment 16 times for an octagonal project, for example. Recut the test bevels until you achieve a gap-free fit.



Tape two halves made from test scraps; then butt the halves together to see where gaps develop. Avoid flexing the two halves.



If test bevels leave inside corner gaps (left), tilt the blade closer to vertical. To cure gaps on the outside corner, tilt the blade more.

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