



PRESIDENT'S REPORT

Hello all Woodies.

Once again, it has been a busy month. From all reports, the Santa Shop went well, and the members with items for sale appeared to be happy with their sales. Sarah and the organisers did a great job and set up an impressive display. The sausage sizzle was a big success this year, with the crew running out of sausages quite early. The Club appreciates those members who gave their time to ensure this event was a success.

2019 promises to be an extremely busy year for the Club. The Aussie Day Expo, our next event, will be at the Maleny Show Grounds. This event is purely for display items (no sales) and we usually demonstrate turning, pyrography and scroll saw work.

The big yearly event, The Maleny Wood Expo, occurs at the beginning of May. As well as the area for display and sales in the cow shed, we will again have a space in the fine art area in the Main Pavillion, so we will be looking for the finest examples of our workmanship to display in this area.

This year, Bayside Woodies will be joining the Expo and it will be a great opportunity to make new acquaintances and share woodwork experiences. We will be combining with the Bayside Woodies and the Maleny Men's Shed in the operation of The Kids' Workshop. Very soon, we will need to start producing the items for the young ones to assemble and add their magic touch.

There will be a huge amount of work in organising our participation in this event, including construction of screens and the provision of lighting to dress up the display areas. Once again, our dynamic Club will rise to the challenge and produce the volunteers to ensure the continuing success of this event.

This month saw the commencement of a new box making course and the visit by Michael Mogy with his box fittings and veneers and inlays. Some members picked up bargains and the Club purchased a good supply of hinges. We hope Michael will make a regular visit.

We also had Tony from Carbatec visit and demonstrate the Kreg Jig . Members were impressed with the jig and the specials on offer, so Tony had some good sales. We hope that Tony will be able to return in the new year to demonstrate the Leigh Dovetail Jig.

Don Richie, from the Caloundra Club, has offered to do a turning demo and run some turning courses in the new year, so I will probably arrange these for February. If you are interested or want more information, contact me.

We now have the defibrillator set up in the new shed and we ask all members to watch the DVD and arrange for guidance and instruction on its use from Julie Breen or Allan Friend.

Next year, notices will be going up on the board calling for volunteers to help with all the projects, so if you have some time and want to hone your skills, please join in.

The toys were picked up by the Salvos and I took Russ's trains down to Wish List at the Sunshine Coast University Hospital. The toy group do an outstanding job producing all these toys, and if any other member wishes to join the group, Hugh McKenna is the person to see.

Members were treated to a delicious Xmas lunch under the direction of Heather Andrews, in the appealing surroundings of The Orangery. This year, the president's awards were presented to John Holland, Keith Muirhead, Julie Breen and John Muller.

I would like to thank all members who continually give so much to make The Blackall Range Woodworkers' Guild such a wonderful club.

Merry Xmas and a Happy New Year to all.

Rob Otto

President



Maintenance Report *by Terry O'Connor*



1. Both of the jointers now have sharp blades in operation after work to rotate the spiral cutters was recently completed.
2. Kevin Devlin has kindly completed a new pine storage box to store our newly acquired Milwaukee Cordless Saw. Thank you Kevin for your effort.
3. Ray Bryant has built a new storage shelf to keep the cross-cut jigs in a handy place under the work bench nearest the Woodman Table Saw. Please ask one of the Shed Captains to show you how these can work for you.
4. And new shelves near the Hammer Panel Saw will also store the newly acquired Fritz and Franz cross-cutting jigs.

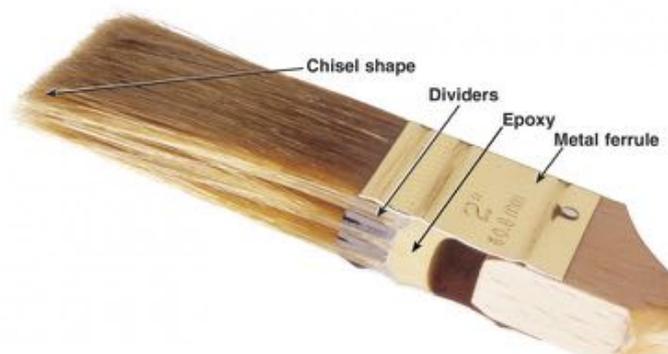
Tips and Tricks *by The Editor*



Finishing Brush Tips *with thanks to Wood Magazine*

When you apply a clear finish, your brush makes a difference. A cheap, throwaway model can cause problems, while a quality brush that suits your particular finish will help you achieve first-class results. You'll spend more up front, but that's not a decisive factor; take care of it properly, and a good brush will last much longer than a cheap one.

The photo provides a cutaway view of a finishing brush made by Elder & Jenks, brush makers since 1793. The bristles are set into a slightly convex base of epoxy, and then trimmed to complete the chisel shape. Double dividers give the bristles extra support. They also create reservoirs that hold a small amount of finish, feeding the brush as you use it.



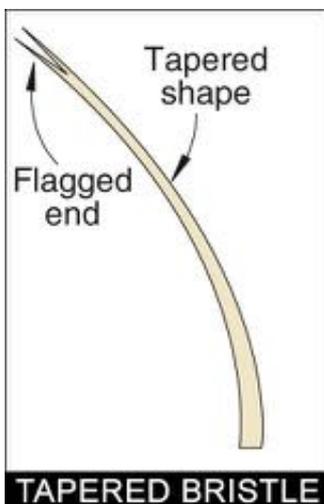
When you apply varnish or brushing lacquer, opt for a "China bristle" brush made with hog hairs from China. These bristles, as shown in the drawing *below*, have a natural taper that provides strength while putting more bristles in contact with the surface. Their "flagged" ends hold more finish than pointed ones, and dispense it more evenly.

Tapered bristles are strong, but capable of laying down a smooth finish. Flagged ends also help finish flow out evenly.

For water-based finishes, use synthetic bristles. Nylon bristles are softer and more flexible than polyester, or you can buy a combination of the two. Golden nylon gives great results with shellac. Some synthetic bristles also are tapered and flagged.

Once you have a top-notch brush, keep it in working order. It takes only a couple of minutes to clean and store it properly. When you're done applying a coat of finish, brush out as much finish as possible onto paper or a piece of scrap. Put on protective gloves, soak the bristles in the appropriate solvent, and work it in with your fingers. If you used the brush with varnish, clean it with mineral spirits, then lacquer thinner. If you applied lacquer, clean with lacquer thinner. A shellac brush benefits from a bath in ammonia and hot water. Use water to clean out water-based finishes. When the bristles feel clean, shake the brush to remove most of the solvent, or hold the handle between your palms and rub your hands to spin it.

Finally, no matter which solvent you started with, finish cleaning the brush with soap (shampoo works well) and water, as shown in **Photo A**. Rinse out the soap, and then spin the brush to remove the water. Before it dries completely, place the brush in its original cardboard jacket, or wrap it with paper from a grocery bag, as in **Photo B**, to keep the bristles straight and clean. The next time you need it, your brush will be as good as new.



Use the appropriate solvent to clean your brush after each use, and then complete the job with soap and water. Work the lather into the bristles, then rinse.

Cut your paper long enough so you can fold it back to the ferrule without bending the bristles. Wrap it tightly, fold it, and then hold it in place with a rubber band.

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It was once said that if a blank brick wall on a busy footpath was painted, with a large sign that read “wear eye protection at work”, and 100 people an hour passed it for a week, the odds are that, after a survey was done the following month to ask pedestrians what colour the wall was, and what did the sign say, less than a quarter would remember.

The point is that no matter how many times safety notes are typed up about the necessity for wearing eye protection ie safety glasses when in a workshop, less than a quarter of the people who read about it remember the golden rule “WEAR SAFTY GLASSES” or simply ignore the advice.

Yet your eyes are the most important part of your body. If you don’t believe this statement, try this little test. Wear an eye patch for a day around the home and carry out your normal routine. Can’t read the paper well? Find it difficult to focus on instructions on your medication? Find it annoying when you try to drive the car safely with reduced peripheral vision? Pleased when the patch comes off?

If you say “yes” to any of these questions after wearing the eye patch, then also take a minute to have a look at the following.

Approximately 4,700 eye injury cases occur in Queensland each year according to statistics by the Queensland Injury Surveillance Unit (QISU), located at the Mater Hospital.

The QISU bulletin revealed that occupational eye injuries represent 21% of all occupational injuries and is a common cause of workers compensation claims in Queensland and it is mostly IN MEN. Almost one third of occupational eye injuries occurred while using an angle grinder and the majority of eye injuries however, were related to foreign bodies hitting or entering the eye, accounting for 71% of all cases.

At the Woodies, the majority of potential eye injuries can be attributed to flying wood splinters from spinning machinery. In respect to eye injuries, tools such as saws, grinders, routers, thicknessers, and lathes are the most dangerous for the operator. **But don’t overlook the bloke standing next to you – he is in as much in danger of getting something in the eye as you are, from the same machine you’re using. Maybe he should be wearing eye protection too.**



Getting back to the “painted wall”. Take note of the warning there of potential damage to the eyes. Don’t look at the “painted wall” and see nothing. Take a look around at what you’re doing at the shed and see the dangers and don’t be smug. The dangers are as obvious as a “painted wall” you pass every day. Yet you don’t see it.

Look at the photo at the side. Is this similar to the outcome of your next eye injury? Is this likely to be you just because you “forgot” to use eye protection? Or you said, “well it is only a quick job I’m doing here. I don’t need to wear eye protection for something that takes only a minute”.

Club Events Calendar from Rick Vickers



Last year, with so much effort concentrated on the new shed, some of our routine, regular events were neglected to some extent (not that we still did not get a great outcome with some frantic action rather late). That is not going to happen again in 2019, so we are planning well in advance, and the current focus is on the Maleny Wood Expo, on **4, 5 and 6 May, 2019.**

We will again have the Cow Shed Sales; Fine Woodworking in the main pavilion, and the Kids Workshop on the oval. To ensure appropriate management for each activity, we are calling for Co-ordinators for the Cow Shed and the Fine Woodworking, with a huge thank you to Vicki for taking on the Kids Workshop.

The plan is for the Co-ordinators to start organising the resources, including volunteers, they need for another stand-out success, with early indications suggesting any even bigger show for 2019. If you are up for such an exciting role, please see Rick Vickers.

For the first time, Barung Landcare is offering a new category in the Wootha Prize, being Tiny Treasures, celebrating works of smaller dimensions, being small in scale but big on design and craftsmanship - beautifully designed and exquisitely crafted. First prize for Tiny Treasures is \$2,500, but entries are also eligible for the main prize of \$10,000. Get your designer caps on and start practicing !

If you don't win the Wootha or Tiny Treasures competition, Maleny Show is on **31 May and 1 June, 2019**, and you can enter your piece there, as the Show Committee wants to reinvigorate the wood working competition.

Plenty of opportunities to show off your work, with months to plan and build, so *just do it.*

Last but by no means least, is the Australia Day event at the Maleny Show Grounds, on, you guessed it, Australia Day !! We need volunteers to promote the Guild, with the opportunity to promote your own activities as related to wood working.

We also need members to loan a nice assortment of work for display to demonstrate to the public what we do and therefore what new members could expect to do as well.

If you can help with either, please see Lionel Tilley or Rick Vickers.



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Around the Shed



A great tip from John Muller on how to better see your pencil marks on dark timber; put a piece of light coloured tape on the timber and mark the tape. Thanks John

And speaking of the irrepressible Mr Muller, he did a beautiful job of three silky oak frames for Montville School for their recent art show. Thank you John !



Ron Fishwick has done a beautiful jobs planting and establishing the new gardens after being a significant contributor to the building of the new shed. A huge thank you to Ron, and also to all the wonderful people he enlisted to propagate and provide the plants, which resulted in a huge saving for the Guild.

Ron makes it to the club once a week, or sometimes once a fortnight, so if you have a few minutes to spare, the plants love a drink, particularly on these hot summer days.

Long time former member and supporter, Jenny Kerr of Mapleton, has donated her timber supply to the Guild. Thank you very much Jenny. It is predominately Beech, and in sizes most suitable for carving (Jenny is a past master) or turning, and now stored at the shed. If you would like to buy some, at \$1,500 a cubic metre, please see the Shed Captain.



Our good friends at Hyne Timber have kindly donated the cart in the photos, which we intend to renovate and use for promotional purposes. So if you are looking for your first 2019 project, this could just be it. If you are interested in assisting, please contact Rob Otto.



Tony Foord of Carbatec demonstrating the range of Kreg pocket hole jigs. Thanks for your time Tony. Bit of a shame for those who did not attend as Tony came bearing some lovely discounts, but fear not, the Guild picked up a bargain, and we now have the latest model !



A huge thank you to all those members, capably led by Sarah Odgers, who assisted with the set-up, sales, sausage sizzle, Santa's helpers and take-down for the annual Christmas Sale, which went off without a hitch. Great team effort !

As indicated earlier, we are commencing planning for all 2019 events, including the Christmas Shop. If you have any thoughts on how we can improve on our last effort, please pass them on to Sarah or Rick, as the show is yours, and your ideas are valuable.



Great to see the John Henderson Shed being used as intended.

We will kick off the new year with a number of projects aside from renovating the cart, which will be a priority as we would like to have it ready for the Australia Day event.

Others include renovating the kitchen table; a new top for a second kitchen table; a notice board; office filing cabinets; cabinets for hand tools; a first aid cabinet for the John Henderson building; and benches with adjustable heights.

If you would like to manage one of those projects, or participate in a team to complete the projects, please see a Committee Member.



A great afternoon was enjoyed by all at The Orangery restaurant for our Christmas Lunch. The meals (all gluten free) were delightful and the service was superb.

This was our first lunch in my short time at the club, and after the formalities I conducted a “straw poll” in respect of the venue, and lunch - v - dinner. To my amazement (and again a first in my time at the club) the response was unanimous in favour of holding the 2019 Christmas event at The Orangery, and that it be lunch.

If there are any dissenters (which would be those who did not attend and therefore missed a lovely get together), please let me know by the next Management Committee meeting 12 January 2019 as the Committee will be discussing booking the venue for 2019.

Some members suggested having the lunch earlier, in November, as by mid-December many people have other commitments. Any thoughts on **Saturday 23 December 2019 ?**

One great suggestion was car-pooling for those coming from locations such as Nambour, Palmwoods, Glass House etc to avoid some people having to drive, and the inevitable parking problem. Closer to the event, we will call for volunteer drivers, and notify members of available transport.

We all know that John Muller simply cannot stand still, and this time he planned a beautiful wooden plaque for the naming of the Montville School Hall after Andrew Frampton, our great friend and Janitor at the school who has provided superb assistance with our two mid-year events held at the hall. After 20 plus years as Janitor, Andrew is taking well deserved long service leave. We wish Andrew all the very best.

John supplied and prepared the timber, and a very big thank you to Micheal Brosnan for the laser work.

Now, John has held this piece of timber for 34 years, and he is putting out a challenge to all Woodies to identify the species (as he has no idea !) The prize for getting it correct is a ride in John's Toyota Landcruiser to Montville and back !!



Timber Tales by Bruce Chapman



1. There are good stocks of silky oak and camphor laurel in the racks. The kiln is due to be unloaded in a week. Nearly the entire kiln load is silky with a small amount of small boards of Jacaranda with one natural edge.
2. Most of the outside drying racks are also silky oak with some camphor and a small amount of Quandong.
3. There is allot of camphor to be milled as the stack from the carpark has been moved over to the mill.
4. Two very long Bunya pine logs were delivered last Friday.
5. Plans are in hand to sort existing the dry timber stock, and service the timber to remove material which will ultimately go in the bin so that only quality, usable timber will be offered for sale.
6. Good silky oak trees were inspected off Mountain View Rd, which are becoming available in the near future.
7. Blue Gum logs were inspected near Charlie Moreland Park. There is about 2 to 3 tonne involved and currently looking at a means to pick them up. This is worthwhile because we are not offered hardwood of this colour and durability very often.
8. Silky Oak logs collected from the Council dump are being milled now by the milling crew and will yield some very good stock, with a lot of clear wood.

Innovation Corner



The pace of change in the world continues to accelerate, and such it is with wood working. For those of us who struggle to turn our computers on, and maybe send an email, the thought of using a CNC machine, much less building one, would terrify most of us. But not so for the ever-adventurous Kev Devlin, who embarked on a journey to see what CNC had to offer, and finishing up building one. Here is his story:

If like me, you have been seeing countless bulletin boards about homemade CNC machines, and wondered how hard that can be, this article might interest you. If that thought has not occurred, you might be best skipping to the next article.

This is a summary of what I have learnt, and something I would have appreciated reading earlier in the year when I was looking around. The article concentrates on kit type machines, rather than ones I could build from a particular design, or a proprietary ready-to-use product. I was just more in to that sort of thing, and not really willing to take the punt on a design off the web of unknown quality.

The basic premise of a CNC machine (computer numeric control) is that you design a product on your computer, convert that design to CAM language (computer aided manufacturing), and then stream those instructions to a controller in the CNC machine that converts it into x, y and z movements. Sounds pretty simple, right.

The Range

I came to think that there are three standard of kit machines, and these can be grouped in price range.

- \$500 to \$1000 will get you some of the machines predominately made from ply, and some of the multitude coming directly from China. The accuracy of these machines is not great (people seemed to think half a mm was fine), and most are made to work with Dremel type tools.
- For about \$1500 to \$2000, you can get machines that are based on the 'Makerslide' aluminium extrusions. These are those complicated Xshaped aluminium sections, with precise corners for roller wheels to run on. See example below. These first became available in 2011, and a number of designs now trade in this space. More on this below. This type of machine is aimed at small workshop, or good quality hobby type use. Accuracy seems to be typically 0.1mm, although some models will quote smaller numbers.

I decided that I was probably after the middle range. I wanted something accurate, but not having any specific project in mind, I could not justify the better standard machine.

I decided that I was probably after the middle range. I wanted something accurate, but not having any specific project in mind, I could not justify the better standard machine.

So, I started getting quotes for the Makerslide machines. The history of those is interesting. It is a sort of open source design, and was first commercialised in 2011 as the Shapeoko. This first generation machine and its Shapeoko2 derivative was very popular, but had a few issues with the cross beam being a bit flexible. Being a start-up design, it was also a bit rough in how it handled the large number of control wires. A new design called XCarve came out in about 2015, which addressed the known issues with the Shapeoko.

However all these designs are sourced in the USA, and of recent years, the freight has been becoming prohibitive. I was therefore pleased to find an Australian supplier that was making their own version of the XCarve, called the 3DTekXYZ-Carve. Being Australian based, this had no freight or import issues and worked out cheaper than the American designs, and claimed to fix some of the remaining known issues. User feedback was generally very positive. So, I ordered one at the beginning of May 2018. See the following link for more details on this machine. <https://3dtek.xyz/products/x-carve>

This comes in three sizes, being 500mm by 500mm, 700mm by 700mm and 1000mm by 1000mm. You have to remember that the machining area is less, being limited by the width and depth of the tool and holder. Effectively, a 1000mm by 1000mm machine can machine about 800mm square. I had originally ordered the 700mm machine, but was offered a free upgrade to 1000mm which I accepted.

The original Shapeoko and XCarve were usually fitted with a DeWalt router as the spindle, but the 3DTek product uses a Makita 700W router because of its superior speed control. I notice from bulletin boards that some XCarve owners are also now changing.

The Build

The kit comes with all components cut to size, and only screwed connections necessary for electrics. The packing was brilliant, and it took me a long time to be convinced that all the components were indeed in a very tightly packed 1000mm by 250mm by 250mm box. The only bit you have to source separately is the MDF waste-board for the base plate.

There is a huge number of parts (over 400 for the mechanical build, and maybe near 100 for the electrical), but all are well labelled, and I had no issues with the build. The step by step instructions were very well written, and the process quite pleasurable. The quality of the machining of components and the standard of fit were outstanding.

The electrical set up is fairly straightforward, as the main board is assembled, and you really just have to connect the four motors, the limit switches, power supply and USB lead. A lot of wiring, but pretty straightforward if you keep it all labelled.

The software set-up was a little less well documented, but in hind sight, that was a good thing in that it forced you to become very well acquainted with how the software worked. This bit was a little frustrating, but the assistance from 3DTek was very good.

Software

It came as a bit of a surprise to me just how much software you have to master. This is not a suitable project for someone not comfortable with learning software. The basic programs you need, and the one I chose are as follows:

A CAD program

You need some form of CAD (computer aided drafting) program, as you can only carve something you have drawn. This can vary from the very simplistic such as MS Paint or Sketchup, to full 3D CAD packages such as Fusion 360 or Solidworks. I was familiar with the Autodesk products from Autocad (although I couldn't actually use it), so decided to go straight to Fusion. This has a couple of great advantages, and I have not regretted the time to learn it:

- It has an integrated CAM package
- It has integrated drawing production, and best of all
- Its free for home hobby use (this is hard to believe, but it is true)

That said, you should not underestimate the power of this package. You would easily be able to fully document the Joint Strike Fighter with it. However, for basic woodworking, I have found it quite easy to ignore most of the bells and whistles.

The other product in the CAD/CAM category was Easel, which is the proprietary package that comes with the XCarve. I had been warned that I would very quickly outgrow this, and this turned out to be the case. I used it to get the machine up and running, and it has some neat features with recommended feed rates for particular bits that you won't get with Fusion. However, I found it far too limiting for any real work.

- A CAM program

As I said above, I eventually used Fusion, and the integrated CAM component is very slick. Any changes to the base drawing are automatically updated in the CAM file. This is a big advantage since you will inevitably want to tweak things as you go along.

There are however a few free programs out there that will do this, but I have not bothered with them.

This step outputs the required file as a GCode file, which is the file required by the Arduino chip in the controller.

- A program to stream to the CNC machine

I am using a freeware program called UGS (Universal Gcode Sender). I have found that the feature I like most about this is the visualisation that it gives you of the progress on the job. There are other more complicated options out there, but I have not seen the need for anything more complicated.

The final build is shown below.



The Perspex bits are related to dust control and are not part of the kit. Without it, carving is a very messy business. I found I was getting tired of chasing the cutter around with a vacuum cleaner, and only getting half of the mess.

The other modification you will see is the dummy piece of waste board. It is such a pain to replace the main waste board that I think the sacrificial one is a good idea. It does cut down on your headroom, but I have not found that to be an issue so far.

What Can You Do With a CNC Machine

I am not sure I have fully explored this yet, but basically anything you can draw, you can build. Only having three dimensions available limits the shapes to avoiding re-entrant parts (lots of people are experimenting with 4 or 5 degrees of freedom to overcome this, but that might be next year's kits). I have found that you can do re-entrant shapes if they are symmetrical, by turning it over and doing it in two sections. This works surprisingly well.

This standard of machine will do any wood, all plastic, and softer metals such as brass or aluminium. I have not tried metal yet, but have no reason to not believe the stories.

Some Typical Reasons for not getting a CNC Machine

1. *I don't have enough room.*

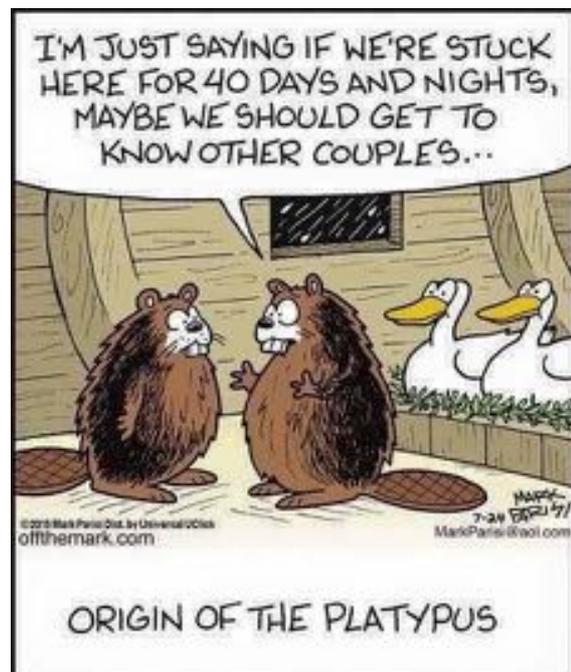
If you are like me, and have limited space in your workshop, this can be a fatal flaw, as a 1m square machine takes up a fair bit of real estate. I have beaten this issue by making it fold to vertical for storage. My workshop is not particularly weather proof, but I do have a dedicated storeroom. However, that meant that the machine had to move, and fold up. I built a frame that folds up on an L leg frame with wheels. It also meant that it would sit on a hardwood base, which I felt added a lot to stiffness. See below for the machine folded.

2. *It looks too complicated.*

Kit projects aren't really difficult if all the kit is there, and the instructions are good. I am still not sure how one would go building it from a random set of instructions on the web though. It has a hell of a lot of bits to procure, and you will invariably have questions that you need someone to ask.

3. *I don't like computers.*

If this is you, I think you just have to accept that CNC is not for you. You



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Monday	General Activities
Tuesday	Turning & Carving
Wednesday	General Workshop & Toys
Thursday	Furniture & Joinery
Friday	General Activities
Saturday	General Act. & Demo's

Shed Captain Roster - December 2018										
Monday		Tuesday		Wednesday		Thursday		Friday		Saturday
										1 Keith Muirhead
3	Rob Otto	4	Greg McCosker	5	AM Max Barrenger PM Terry O'Connor	6	Kevin Devlin	7	Dave Edmond	8 Graham Beaumont
10	John Muller	11	John Muller	12	AM Phil English PM Warne Wilson	13	Dick Graves	14	Michael Brosnan	15 Warne Wilson
17	Lionel Tilley	18	Bruce Chapman	19	AM Leigh Boynton PM Keith Carter	20	Ray Bryant	21	Sarah Odgers	22 Don Lear
24	Dave Banister	25	XMAS DAY Closed	26	Ron Turner Julie Breen	27	John Drewe	28	John Muller	29 Keith Muirhead

Shed Captain Roster - January 2019										
Monday		Tuesday		Wednesday		Thursday		Friday		Saturday
31	Ron Turner	1	New Years Day Closed	2	AM Max Barrenger PM Terry O'Connor	3	Kevin Devlin	4	Dave Edmond	5 Graham Beaumont
7	Lionel Tilley	8	Dave Southern	9	AM Max Barrenger PM Keith Carter	10	Dick Graves	11	Michael Brosnan	12 Warne Wilson
14	Dave Banister	15	Greg McCosker	16	AM Leigh Boynton PM Warne Wilson	17	Ray Bryant	18	Sarah Odgers	19 Don Lear
21	John Muller	22	John Muller	23	AM Ron Fishwick Julie Breen	24	John Drewe	25	Michael Brosnan	26 Keith Muirhead
28	Ron Turner	29	Bruce Chapman	30	AM Phil English PM Terry O'Connor	31	Kevin Devlin			

