BLACKALL RANGE WOODCRAFTERS GUILD
WOODIES
ESTD 1996
CONSERVATION & APPRECIATION

Flitch'n Chips

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PRESIDENT'S REPORT

G'day Woodies,

This must be one of the most miserable autumns in a very long time. It's certainly causing problems in the workshop trying to stop tools and equipment from rusting and going mouldy. A good cleanup with WD40 or similar and steel wool, then a coating of wax or oil will help. Watch out for the forgotten things in the bottom of your drawers that could be affected.

We have been successful in obtaining two grants recently. The first was $1609 from the Sunshine Coast Council Emergency Fund to purchase a Blade Guard for the Hammer Table Saw. This is an urgent requirement to make use of the saw safer for everyone. It has been ordered and should arrive this week

The second grant was for $1500 from the 2021 Volunteer Grants Reserve Round from the Social Services Department. This is to provide equipment that will help our volunteer efforts and suggestions are welcomed.

A huge effort by all concerned resulted in a great result from our Open Days which proved that we can use our facilities for that type of event and with the improved space in the carpark (if it ever dries) we can handle the number of cars comfortably.

And now it's time to plan our future events. Suggestions are listed below…..

Christmas in July - a daytime Club get together at the Shed for people to get to know each other.

Rangebow Festival - a stall at Montville during this festival in August as a sales opportunity.

Marquetry Course - a tutor from Gold Coast to do a two day course of Marquetry using knives to cut the veneer. Probably August and the fee for the course around $130 all inclusive.

October Woodies Competition - our Club Championships

Santa Shop

Next month we have a General Meeting so we look forward to some discussion on these and any other subjects you may wish to bring up.

At our Management Committee meeting on Saturday, it was decided to accept an offer of $1200 from a new member Joel Fergie to paint our large saw blade with scenery depicting the activities of the Club. Joel has recently moved to Hunchy and is an artist and photographer who has been painting silos around the country.

https://m.facebook.com/WEEKENDERTV/videos/180006649918138/?locale2=sw_KE

The blade will be acid cleaned and powder coated to prepare it for painting. The next step after that will be to choose where it will be hung.

That's it folks, to all Woodies and family not feeling up to scratch, we send our thoughts and love.

Regards

Max

Succession Planning

Now that the small matter of the running of the nation has been sorted out, its time to get down to the big one….the election of our committee for the next 12 months.
An interesting article appeared in a Sports Association newsletter recently and its very pertinent to us. Please read the article and think about the effort that you are prepared to put in to keep the Club ticking over in the fashion we all enjoy so much.

What is Succession

Succession planning is about looking at where your club has come from, where it is now, where it needs to go and what your club can do to get it there. Ultimately, succession planning should help you achieve the club's objectives over the next five, 10 or 15 years by ensuring that your club has the right volunteers with the right skills in the right positions at the right time.
It is about putting a system in place to ensure that when someone leaves (such as the club president, a secretary or the shed manager) the club is not left with a massive black hole of knowledge and expertise and that there is someone in the wings ready to step up into that role. It is not just about replacing the missing volunteer however - there is more to it than that. It is about knowing what skills or expertise are needed to fill key roles within the club, now and in the future, and making sure that others within the club possess these skills and knowledge so there is someone to fill the void if that key member has to retire. It is about identifying, recruiting, retaining, valuing, developing and preparing volunteers so that the club has a depth of knowledge and a pool of ready and able volunteers. In doing this, the club ensures that transitions are smooth as people come and go and it can continue to meet its strategic objectives into the future.

Why is this Important for your Club?

It is important for your club to succession plan because it:

- Enables your club to share the load among volunteers and avoid volunteer burnout.
- Allows a smoother handover of key positions.
- Improves your volunteer 'bench strength.
- Creates a more appealing environment for volunteers.
- Allows your club to deliver better services, improving the club culture.

In most small clubs across Australia, there are presidents, secretaries and other members who find they have to stay in the role much longer than they wanted because there is simply no one to take over from them. These volunteers are often doing far too much work for one person for far too long. They become the lynchpin in the club – they hold all the vital knowledge and don't feel they have anyone to share the load. This can sometimes lead to these volunteers becoming exhausted and resentful. When it comes time for them to leave, it can mean the club simply collapses because there is no one prepared to step up to the role. Even though there may be someone willing to take over, the task of taking over is often too great and their lack of skills or knowledge prevents them from doing so.

Shed Managers Report

Kev Devlin / John Isles

1. The riving knife for Woodman No 1 saw was bent again. This has been straightened but will need replacing. One is on order.
2. There was another incident of a kickback on Woodman No 2 saw. This was when cutting ply, with the blade lowered, and hence the riving knife not in play. We will investigate if higher riving knives can be fabricated for these saws, as this is an issue for thin material cuts. It seems to be a consequence of the mechanism, as the same issue is not present on the panel saw, which has a more complex mechanism for raising the riving knife.
3. John Henderson roof. More repairs were carried out to the joints, which stood up quite well in the recent rain. Still a few small niggling areas to locate and fix. There is considerable rust and paint blistering, which leads to ingress of water underneath, that is concerning. We will try a repair on a couple of areas and if successful will be calling on members to assist in completing the repairs.

Gifkin Dovetail Jig

How to maintain your cutters, bearings and collet

GIFKINS DOVETAIL

We recommend that all Gifkins Dovetail cutters be used only in a table-mounted router. The cutters are not guaranteed against breaking.

- The spiral cutter, in particular, has a fine tip. Always use it with a fence on the table, allowing the cutter to do the work.
- Take care to note the feed direction when using your router bits. In most cutting operations, the feed direction is against the rotation of the cutter.

Extend the life of your equipment and save money by following these simple steps...

Before every box making session:

[1] Scrub the cutter blades and the outside surface of the bearing, with a toothbrush, to remove resin and dirt build-up.

[2] Place a drop of sewing machine oil in the bearing to keep it moist [do not use a drying agent, like CRC]. The bearing is not sealed, so sawdust and grime build up over time. If left uncleaned, eventually the bearing will seize and explode—damaging the cutter and your template.

[3] Clean the router collet in the same way, placing a small drop of oil inside the collet to dissolve resins.

[4] Prolong the life of your cutter, bearing and template by regularly checking that the grub screw in the side of the cutter has not vibrated loose. Alternatively, we recommend that you use a product like 'Loctite'© to fix the grub screw in place.

Hint: Place a light-coloured cloth on your work surface so the grub screw doesn't bounce. Take out the grub screw. Line-up the screw hole over the flat edge on the black cutter sleeve. Place a small drop of 'Loctite' in the hole. Screw in the grub screw and tighten.

We are also cutting backing boards for each template. If you use the Gifkin Dovetail jig please change to the backing board that matches the template you are using. Do not disturb the shims that are in place. Report any issues with bearings or sleeve.
Finally on the subject of the Gifkin, can anyone help with instructions on how to use this jig, which was uncovered in the upstairs loft? It is apparently for doing dovetails for blanket boxes, which are wider than the normal jig. We can get it to make sense for the pin side, but can't make it work for the dovetail side. Can anyone help?

Ursula's world of animal jigsaws

COURSES INFO

BOWL TURNING: MON & WED 8a.m., Runs for 1 day, costs $5 plus shed costs. Instructor:Leigh Boynton

CURLY LEGGED TABLE:TUE, Instructor:Kev Devlin

PYROGRAPHY SAMPLER:FRIDAYS FOR 4 WEEKS, Instructor:Philippa Friend, costs $3 plus shed costs. Beginning date TBN.

KUMIKO DEMONSTRATION: WED a.m. probably in second week of June. Run by Gary Emmett

BOX MAKING: If you are interested, please contact Gary or Rob and when there is enough interest, the dates can be worked out.

WOODIES WONDERFUL WEEKEND OF WOOD

This weekend was a wonderful success. A huge thank you to all the volunteers and sellers, especially Julie Breen (what would we do without her?!)

WOODWORK SALES:	$15,840
TIMBER SALES:	$2,007
TOOL SALES:	$2,232
RAFFLE:	$1,246.
TOTAL:	$20,739

Peter, perfecting his guitar

Timber Bits

By Bruce Chapman

Overall our timber stocks are quite low at present. This is primarily due to the frequent wet weather. We have lost milling days and the drying process is extended. The sale of timber at the recent open day has not impacted on the stock of boards available. No boards were sold at the open day, only slabs. The slabs are excess stock as many have been available but unsold for quite some time.

For Sale -

A list of the timbers available in each bay.

1- Fiddlewood (new)
2- Norfolk Island Pine
3- Unknown species from local rainforest
4- Silky Oak
5- Silky Oak
6- Silky Oak
7- Silky Oak
8- Silky Oak
9- Silky Oak
10- Swamp Cypress
11- Swamp Cypress
12-
13- Magnolia
14- Fiddlewood
15- Fiddlewood
16- Jacaranda
17- Red Cedar
18-
19- Camphor Laurel
20- Camphor Laurel
21- Camphor Laurel
22- Camphor Laurel
23- Mexican Bean
24- Silver Ash slabs
25- Mango
26- Mango

Outside the green shed is wood for the turners and some slabs

Slabs available are: Avocado, Jacaranda and Silky Oak

Drying Rack –

NOT AVAILABLE for purchase. Timber here is stabilised after taken from kiln. Generally moved to sales area in one week. Please keep the front of this area clear. We need to access the timber here every Friday. Silky oak in rack will be available within a week.

Tips and Tricks

Outdoor Adhesives

By WoodMagazine.com

Think "outdoor adhesive" and the word "waterproof" may come to mind. But joints made with these adhesives need to survive more than mere rain. Climate extremes in parts of the U.S. go from subzero to 100°F-plus—challenging for any adhesive.

To discover which adhesives stand up to Mother Nature, we tested four types of products—a type-3 waterproof glue, a type-2 water-resistant glue, epoxy, and polyurethane—on dozens of half-lap and mortise-and-tenon joints in cedar. Why these joints? The half-lap exposes glue lines to the elements, as shown **below**, while mortise-and-tenons prove vulnerable to checking on the end grain closest to the mortise. And outdoor projects frequently call for one or the other of these joints.

Half the test group bore the brunt of nine months anchored to the roof of our Midwest offices, enduring snow and freezing rain, shirt-soaking humidity, and 39" of rainfall—9" above normal. To provide a baseline for comparison, we created another set of identical joints that suffered only a little sawdust inside our workshop.

Then came crunch time. At the Iowa State University Structural Materials Testing Facility, we fed both groups to a machine capable of applying and measuring thousands of pounds of force. We applied downward force against the short leg of each joint until the glue or the wood failed. If the break exposed more than half the joint, as measured with a 100-grid scale, we considered that a glue failure. Less than half signalled a wood failure.

So which adhesives worked best? We thought you'd never ask.

Type-3 wood glue: Equals epoxy without the mess

How type-3 glue works: Water in yellow glues carries microscopic polymer strands into the cells of the wood parts being joined. As the water evaporates, the strands harden to give the glue strength to hold parts together. In type-3 glues, a chemical reaction between the strands also locks them together to withstand severe moisture.

Test results: Outdoor half-laps and mortise-and-tenon joints tested nearly the same as both groups of indoor samples [**photo below**] as measured in both wood transfer and break strength.

▪ Paper-thin layers of wood transferred between the outdoor half-lap parts, but that doesn't signal lack of strength. The force required to break the outdoor type-3 half-laps was greater than that to break the outdoor epoxy joints, suggesting they'll perform about the same in real-world projects. Cracks on the ends of the half-laps left the joint unaffected.

▪ On the outdoor mortise-and-tenon samples, two tenons broke completely off before the glue joint failed [**photo below**]. That was despite moisture reaching the mortises through end checking.

▪ **Conclusion:** Despite peeling off thin layers of wood in places where the half-laps touched [**photo below**], it also tore off large chunks where the glue bond outlasted the strength of the weathered wood. Type-3 adhesive rivals the epoxy's strength in both types of outdoor joints without the mixing mess.

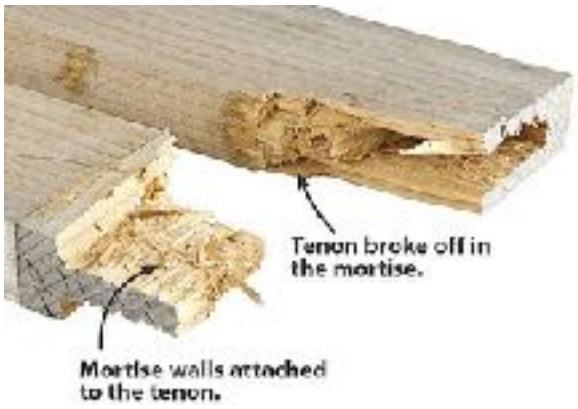
Type-2 wood glue: Resists water and deterioration

How type-2 glue works: Polymer strands penetrate the wood cells and intertwine like type-3 glues, but these strands don't interact with each other to become thoroughly waterproof. The glue finishes bonding when the water in it evaporates as the polyvinyl acetate formula penetrates the wood cells.

Test results: As with the type-3 glue, outdoor half-laps made using type-2 glue nearly equaled the strength of the joints left indoors for nine months. On outdoor mortise-and-tenon joints, wood transfer dropped only slightly from that of the indoor joints.

▪ Wood transferred in thin layers on both indoor and outdoor half-laps, but that signalled no lack of strength. Type-2 joints required as much or more force to break than joints using epoxy, which pulled off larger chunks. On some type-2 half-laps, most of the half-lap on one part remained bonded to the mating piece [**photo right**]. And type-2 glue works without mixing or messy cleanup.

▪ Outdoor mortise-and-tenon joints using type-2 glue retained more of their original strength than any other type of adhesive tested. Despite checking on the mortise piece ends, glue around the tenons still pulled off considerable material from the mortise sidewalls [**photo below**]. The glue bonds around the mortise shoulders also held up, despite glue-line exposure to the weather.



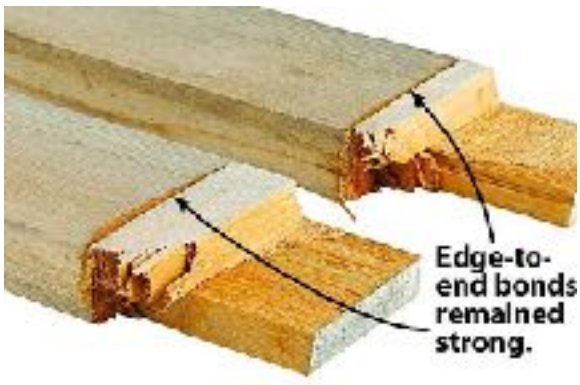
▪ **Conclusion:** Although type-2 glue isn't marketed as waterproof, outdoor half-lap joints made with it proved as strong as joints bonded with type-3. If the phrase "water-resistant" still leaves you uncertain about how it will weather, switch to a type-3 adhesive—which often has a longer working time—or thoroughly seal the project with multiple layers of primer and paint.

Epoxy: A strong adhesive that weathers well

How epoxy works: Epoxy resin and a curing agent, or "hardener," react chemically when mixed. That reaction forms a bond between the epoxy and the surface so strong that it displaces air or moisture, the reason some epoxy can cure underwater. The shape of the epoxy molecules also helps them form strong bonds with each other. For this test, we used an extended-time epoxy suitable for assembling large projects.

Test results: Epoxy joints left indoors tested the strongest of all four adhesives. On two of the three indoor mortise-and-tenons, the tenons snapped before the glue bond broke. But after nine months outside, joint strength tested about equal to type-2 and -3 glues. Of the three outdoor mortise-and-tenon samples, two tenons broke [**photo below**].

▪ End-grain checks on the outdoor mortise-and-tenons allowed water to reach the tenons, but apparently didn't affect the adhesive bond [**photo below**].



▪ The edges of one half-lap piece remained bonded to the end grain of the mating piece on both the indoor and outdoor samples [**photo left**], suggesting epoxy makes a good choice for outdoor half-lap joints partly because it creates water-repelling joint lines.

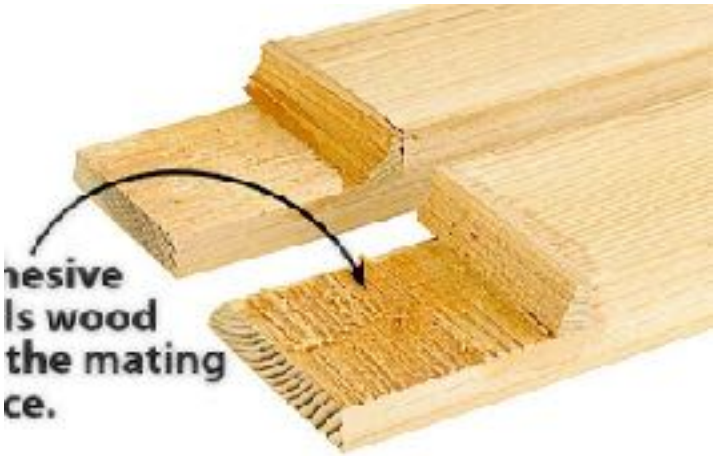
▪ **Conclusion:** Epoxy proved stronger than the wood in all but one outdoor half-lap. Use it for outdoor projects with less-than-perfect joints or for joining unlike materials.

Polyurethane: Its hold fades like the wood

How polyurethane works: Polyurethane adhesive cures in reaction with moisture, but water doesn't carry it into the wood cells as with type-2 and type-3 glues. Polyurethane sticks to a wide variety of surfaces, including wood and metal. Carbon dioxide released in the curing process causes foaming.
Test results: Indoor half-lap samples tested far stronger than indoor mortise-and-tenon samples, but both dropped in strength after exposure. All three outdoor mortise-and-tenon joints suffered glue failures.

- Although the tenon on one indoor mortise-and-tenon sample tore away chunks of the mortised piece, all three tenons from the weathered samples experienced glue failure [**photo below**].

- On indoor half-lap samples, polyurethane outlasted the wood where the faces met [**photo below**]. On the outdoor half-lap samples, half-lap shoulders also tore out mating wood on the opposite pieces, confirming test results suggesting they're stronger than mortise-and-tenon joints.



- Among the outdoor joints, mortise-and-tenon joints broke easier than the half-laps, which are simpler to make.
- **Conclusion:** Polyurethane does an excellent job of joining unlike materials, such as a metal cap on a wooden post, but you can find weather-hardy, less messy wood-to-wood joint choices.

Overall conclusions: Use yellow glue on most wood-to-wood joints

If you doubted type-2 and type-3 yellow glues would last if used to build an outdoor chair or garden arbor, worry no more. They might be a little shy of epoxy in initial strength, but exposure to the elements leaves type-3 glue with about the same holding power as epoxy, especially in mortise-and-tenon joints. Type-2 glue didn't equal epoxy mortise-and-tenon joints, but it held wood equally well in half-laps. What's more, these yellow glues offer easy application and cleanup, no mixing mess, low cost, and familiarity for most woodworkers.
For occasions when your joints are less than perfect, epoxy has the advantage of filling small gaps better than yellow glue, which likes a tight-fitted joint. It also bonds metals and plastic to wood.
And while polyurethane didn't retain as much of its original strength as the others and suffers foam-out problems, it's a lower-cost alternative to epoxy for joining wood to metal.

Who's Who in BRWG Inc 2021-2022		
Patrons - Andrew Powell MP, Andrew Wallace MP, Winston Johnston (Local Councillor)		
President	Max BARRENGER	
Vice President	Julie BREEN	
Secretary	Graham BEAUMONT	
Asst Secretary		
Treasurer	Tony GALLWEY	
Asst Treasurer	Danny NOLAN	
Newsletter Editor	Pam McLEOD	
Website Manager	David EDMOND	
Publicity Officers	David FRIEND, Peter RICH	
Recruitment Officers	Sarah ODGERS, John MULLER, Dave BANISTER, Julie BREEN, Max BARRENGER, Terry O'CONNOR, Graham BEAUMONT, David SLATTER	
Training / Demo Officer	Gary EMMETT	
Safety Officers	Russ MIDDLECOAT & Sarah ODGERS	
Welfare Officers	Pam McLEOD	
Events Organiser	Rick VICKERS	
Shed Managers	John ISLES, Kevin DEVLIN	
Providor	Kellie DENDLE and Vicki Shuley	
Purchasing Officer	Brian HARRIS	
Projects Officer	Kev DEVLIN	
Librarian	Max BARRENGER	
Social Media	Sarah ODGERS & Micheal BROSNAN	
Timber Management	Bruce CHAPMAN & Ron DONALD	
MVA Sportsground Committee Rep.	Keith CARTER, Max BARRENGER	