

# NUTS & BOLTS



*'Every man needs a shed'*

Vol 7 | Issue 5 | December 2024



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## Message from the Editor

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At the end of another successful and productive shed year, I would like to thank all contributors to Nuts & Bolts this year and wish every shed member and their families a very happy, healthy, and safe Christmas break, until we return in the New Year.

*"Climate is what we expect, weather is what we get." - Mark Twain*

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Carina Men's Shed valued supporters include:

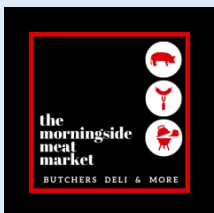


### XXXX Bus Trip *Thursday 03 October 2024*

With 21 thirsty members on board the bus it was a quick trip to the XXXX brewery, where we embarked on an obstacle course designed to test dodgy knees and hips and to explain the dark magic of the brewing process. We then spent 45 minutes recovering from the tour, sampling the brewer's magic in the bar. We then bussed it back to the Carina Leagues Club for a delicious lunch and more of the magic.



Carina Men's Shed valued supporters include:





**Stradbroke Island Bus Trip *Tuesday 29 October 2024***

The bus left the shed about 8:20 with 39 members and arrived at the ferry terminal about 9:00. The ferry was loaded and ready to depart by 9:40 and we arrived at Dunwich at 10:30 then stopped at Amity Point for morning tea, then off to Point Lookout to soak in the view, before arriving at the Beach Hotel at 12:15 where all our pre-ordered menu selections arrived on time and were delicious. We left hotel at 2:15 then back to Dunwich to catch the 3:00 ferry back to Cleavland and arrived back at shed about 4:30.



Members News



Members News

**Melbourne Cup Day BBQ *Tuesday 05 November 2024***

Melbourne Cup BBQ and Sweeps. Great day with several happy winners (especially the president). Big thanks to John Abbott ably supported by Peter Everest and Mark Peach.



*Poetry Corner -The Poems of A. B. "Banjo" Paterson**The Man from Snowy River*

There was movement at the station, for the word had passed around  
 That the colt from old Regret had got away,  
 And had joined the wild bush horses—he was worth a thousand pound,  
 So all the cracks had gathered to the fray.  
 All the tried and noted riders from the stations near and far  
 Had mustered at the homestead overnight,  
 For the bushmen love hard riding where the wild bush horses are,  
 And the stock-horse snuffs the battle with delight

There was Harrison, who made his pile when Pardon won the cup,  
 The old man with his hair as white as snow;  
 But few could ride beside him when his blood was fairly up—  
 He would go wherever horse and man could go.  
 And Clancy of the Overflow came down to lend a hand,  
 No better horseman ever held the reins;  
 For never horse could throw him while the saddle-girths would stand,  
 He learnt to ride while droving on the plains.

And one was there, a stripling on a small and weedy beast,  
 He was something like a racehorse undersized,  
 With a touch of Timor pony—three parts thoroughbred at least—  
 And such as are by mountain horsemen prized.  
 He was hard and tough and wiry—just the sort that won't say die—  
 There was courage in his quick impatient tread;  
 And he bore the badge of gameness in his bright and fiery eye,  
 And the proud and lofty carriage of his head.

But still so slight and weedy, one would doubt his power to stay,  
 And the old man said, 'That horse will never do  
 For a long and tiring gallop—lad, you'd better stop away,  
 Those hills are far too rough for such as you.'  
 So he waited, sad and wistful—only Clancy stood his friend—  
 'I think we ought to let him come,' he said;  
 'I warrant he'll be with us when he's wanted at the end,  
 For both his horse and he are mountain bred.

'He hails from Snowy River, up by Kosciusko's side,  
 Where the hills are twice as steep and twice as rough,  
 Where a horse's hoofs strike firelight from the flint stones every stride,  
 The man that holds his own is good enough.  
 And the Snowy River riders on the mountains make their home,  
 Where the river runs those giant hills between;  
 I have seen full many horsemen since I first commenced to roam,  
 But nowhere yet such horsemen have I seen.'

So he went— they found the horses by the big mimosa clump—  
 They raced away towards the mountain's brow,  
 And the old man gave his orders, 'Boys, go at them from the jump,  
 No use to try for fancy riding now.  
 And, Clancy, you must wheel them, try and wheel them to the right.  
 Ride boldly, lad, and never fear the spills,  
 For never yet was rider that could keep the mob in sight,  
 If once they gain the shelter of those hills.'

So Clancy rode to wheel them- he was racing on the wing  
 Where the best and boldest riders take their place,  
 And he raced his stock-horse past them, and he made the ranges ring  
 With the stockwhip, as he met them face to face.  
 Then they halted for a moment, while he swung the dreaded lash,  
 But they saw their well-loved mountain full in view,  
 And they charged beneath the stockwhip with a sharp and sudden dash,  
 And off into the mountain scrub they flew.

Then fast the horsemen followed, where the gorges deep and black  
 Resounded to the thunder of their tread,  
 And the stockwhips woke the echoes, and they fiercely answered back  
 From cliffs and crags that beetled overhead.  
 And upward, ever upward, the wild horses held their way,  
 Where mountain ash and kurrajong grew wide;  
 And the old man muttered fiercely, 'We may bid the mob good day,  
 NO man can hold them down the other side.'

When they reached the mountain's summit, even Clancy took a pull,  
 It well might make the boldest hold their breath,  
 The wild hop scrub grew thickly, and the hidden ground was full  
 Of wombat holes, and any slip was death.  
 But the man from Snowy River let the pony have his head,  
 And he swung his stockwhip round and gave a cheer,  
 And he raced him down the mountain like a torrent down its bed,  
 While the others stood and watched in very fear.

He sent the flint stones flying, but the pony kept his feet,  
 He cleared the fallen timber in his stride,  
 And the man from Snowy River never shifted in his seat—  
 It was grand to see that mountain horseman ride.  
 Through the stringy barks and saplings, on the rough and broken ground,  
 Down the hillside at a racing pace he went;  
 And he never drew the bridle till he landed safe and sound,  
 At the bottom of that terrible descent.

He was right among the horses as they climbed the further hill,  
 And the watchers on the mountain standing mute,  
 Saw him ply the stockwhip fiercely, he was right among them still,  
 As he raced across the clearing in pursuit.  
 Then they lost him for a moment, where two mountain gullies met  
 In the ranges, but a final glimpse reveals  
 On a dim and distant hillside the wild horses racing yet,  
 With the man from Snowy River at their heels.

And he ran them single-handed till their sides were white with foam.  
 He followed like a bloodhound on their track,  
 Till they halted cowed and beaten, then he turned their heads for home,  
 And alone and unassisted brought them back.  
 But his hardy mountain pony he could scarcely raise a trot,  
 He was blood from hip to shoulder from the spur;  
 But his pluck was still undaunted, and his courage fiery hot,  
 For never yet was mountain horse a cur.

And down by Kosciusko, where the pine-clad ridges raise  
 Their torn and rugged battlements on high,  
 Where the air is clear as crystal, and the white stars fairly blaze  
 At midnight in the cold and frosty sky,  
 And where around the Overflow the reedbeds sweep and sway  
 To the breezes, and the rolling plains are wide,  
 The man from Snowy River is a household word to-day,  
 And the stockmen tell the story of his ride.

*from The Bulletin, April 26, 1890*



*Members News***Bunnings BBQ Friday 08 November 2024**

Another very successful BBQ raising \$1003 helped by using up some of our soft drink stocks. Thanks to following volunteers – Phil Allen, Paul O'Connell, Peter Kucks, Eric Rountree, John Rossberg, Beres Dabelstein, Ron Webb, Roger Appleby, Adrian McDonnell, David Clarkson, Bill Eklund, Bob George and Paul Gardiner.

**CJC Swim Club Carnival BBQ Sunday 24 November 2024**

CJC Swim Club Carnival – BBQ using CJC BBQ's. Thanks to guys who volunteered the 8 hours of this event. Main aim was to support the CJC Swim Club. Raised about \$300. Thanks – Peter Kucks, Paul Gardiner, John Rossberg, Klaus Binder, Ken Casey and David Clarkson.



**Editor's Note:** This beautiful leadlight was crafted by the glass group's Rob Bennett.

The Tartan and Thistle will go in the "Other" kitchen door to complement last years "Rooster". This will not have as much direct light as the chook and hence there is a larger quantity of clear glass. John Rossberg helped me with planning and the fusing of the glass stringers for the tartan. Certainly without his help and experience, I would have found this a challenge. The tartans are... (red and green) Stuart of Bute (one style) which encompasses the Isles of Bute and Inchmarnoch and is a very old tartan, and the (red, blue, green and yellow) is MacPherson (one style) and is a relatively modern tartan and is the tartan of my wife's family. Besides the tartan I also tried (for the first time) the technique of copper foiling and combined it with standard leadlight techniques.

***Carina Men's Shed Health and Wellbeing Committee***

*The committee strives to improve the Health and Wellbeing of all members*

*Contact details for the committee*

Peter Everest	0415 406 540
Paul Gardiner	0405 627 171
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*Please feel free to contact any member of the committee to discuss any issues.*

**Family and Friends Open Day *Saturday 16 November 2024***

A very successful event for shed with over 150 family and friends visiting the shed between 11am to 2pm, the final tally for this year's Open Day was \$3,002.95 in total sales which was 35% up on last year's total. Thanks to those members providing the BBQ lunch who had to transfer the cooking inside due to the sudden heavy downpour.





*Some extra photos from XXXX Bus trip in October*



*Photos of the Month*



**October 2024 Photo Theme – Hats**  
This photo taken by Allan Johnson of “Sam and Paul at the Shed”

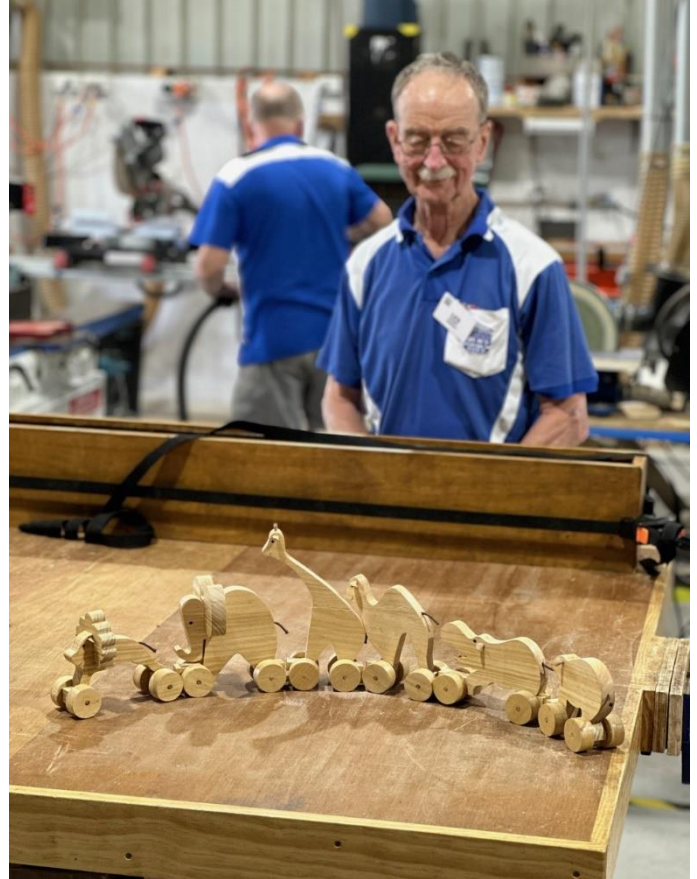


**November 2024 Photo Theme – Roads**  
This photo taken by Allan Johnson on a road trip to Monument Valley, Arizona

Members News



**Supplementary Winner Photo of the Month**  
Thanks, Ray Carter, for contributing his photo of a cobblestone paved street in Croatia.



Les Vear spent many hours in the workshop to create this beautifully crafted wooden toy as a gift for his daughter's friend's child.



**Carina Police Christmas Gift Appeal Thursday 28 November 2024**

Roger Appleby and Mike Arthur with Senior Sergeant Brendan Jorgensen after delivering four large containers of our shed members contributions of toys for the Police Christmas Gift Appeal. Brendan later emailed Stephen Look - "With great pleasure we accept these gifts from the pillars of our community. A very merry Christmas gentlemen, and best wishes for the new year"

### Bulimba Christmas Fair *Sunday 08 December 2024*

We raised \$792 at the Bulimba Christmas Fair this year. Big thanks especially for John Rossberg and his organization and planning, and the contribution for the other members attending; Peter Kucks, Eric Rountree, Ray Carter, Adrian Paolucci, Mike Arthur, Glen Watson, Michael Maverick, Graeme Fraser, Rex Gelfius and Roger Appleby. Ken Gillard and Brian Daley absconded to the RSL display.



### Ten Year Membership Certificates presented at our Shed's Christmas Party *Friday 13 December 2024*

The following members received their ten-year membership certificates at this year's Christmas Party: Rob Hennessy, Roger Medland, Garry Dean, Barry Cosgrove, Jim Wills, Rex Gelfius, Julian Collis, John Kirkwood, Klaus Binder and Tom Kenney.

### “Bravo the Glass Workers” submitted by Freddie Butler

Records inform us that the original glass workers were people in ancient Mesopotamia who stumbled upon the use of heat and soil to make visually pleasing glass like objects. Probably only globs of material that sparkled in the sunlight. A later period found that the Egyptians adopted the technology and made improvements to the process enabling them to make useful as well as attractive items in glass. Gradually the skill of glass work moved into Europe, and we now find excellent glass objects made in Italy and Germany and Czechoslovakia. Who'd have thought that a bunch of desert roamers with camels would provide the genesis of glass work worldwide?

Over the following centuries artistically gifted people gave mental and physical attention to doing things better than anybody else in the business. In more recent times we have within our membership people who, with diligence and artistic ability, can amuse themselves and educate others with glass work wizardry. Quite amazing what they do with sheets and shards of glass, mostly to please themselves, but also to make things for sale (at which they are rather good!)

But most of our glass workers and Shed members are unaware of a recent invention published in a technical magazine that glass is now constructive as well as being artistic. It is common knowledge in the construction industry that many clay fired bricks are used for building houses, factories, and that demolished brickwork can sometimes be cleaned, crushed and safely recycled. But it is not yet common knowledge that when the time comes for recycling, this newer type of brick can be MELTED in a furnace, remoulded and reused with no loss of physical attributes.



Recently, (in the last couple of years that is) a group of materials scientists' hell bent on carbon reduction, gas emission reduction and all things 'green', have invented and used **Glass Bricks** in a construction project. *That's right-glass bricks!* The product is bullet proof and resists other impact force, it has a compression strength of 300,000 psi. and can use mortar or silicone when building walls and light transmission features. These glass bricks are not to be confused with glass panels/blocks Of course, there is always a suggestion that they are likely to make serious money from the Patent (which they have) and subsequent worldwide use (which is happening). Just imagine the publicity: - we are building very useful stuff with little damage to the environment. No mining required, no polluting of atmosphere, and when the time comes that design and aesthetic requirements change, the old is recycled by **melting** into new construction material. The process can be repeated ad-infinitum thereby making impressive fortunes for the patent holders.

Technologists at MIT in America have spent much time (years) studying building materials which now includes glass. In their studies they included glass **3D printing** (they even built their own printer!) with recycled glass, putting the specimens through build-destroy-rebuild cycles. They did all manner of stress and strain tests and found that their glass bricks were equal to the current industry standard but were/are cheaper. They even built a partition wall with a fancy curved surface, just to show what a bunch of clever people they were. Try to imagine all the artists in the worldwide design industry claiming new ground for interpretations of the built world around us. These glass bricks are not yet in full-time production, so building houses and offices are not yet common features.

But when you and friends read next year's newspaper headlines extolling the glass brick and you can say "I already know about that! I'm a Men's Shed member of the glass department."

## Great Moments in Science with Dr. Karl Kruszelnicki

**Wood for the future**

G'day, Dr Karl here. We've been through the Stone Age, the Bronze Age, the Iron Age, and we are currently in the Hydrocarbon Age. But with a bit of clever thinking, we could be entering the Wood Age. Wood, which is renewable, has a surprising amount of potential. Semi-conductors, batteries, steel, concrete and even plastics can all be replaced by wood. We have even made a laser out of wood. Already, the tallest wooden building in the world is about 105 m high – a religious museum in Thailand, currently still under construction. That's roughly twice the height of student accommodation in Vancouver, also built of wood, and about 18 storeys high. And when you think about the urban infrastructure needed worldwide in the year 2030, only about a third of it has been built so far. So there's lots of room for further growth of wooden structures.

Now, if you find this hard to believe, let me tell you that we have already made wood to be three times sharper than steel, and almost as transparent as glass. Of course, while wood is light, strong, and flexible, it also can rot and crack – so if we want wood to replace other materials, we'd need to do a lot of processing to it. But already, we have to do a huge amount of processing to various raw materials to end up with steel, glass and concrete. And, once we can replace construction materials with wood, this would reduce global greenhouse gas emissions by about one billion tons a year or about 2-3%. Sustainable agriculture, balancing old growth timber, animal habitats, and human populations, will be the key. But, you see, there are about three trillion trees on our planet. And there are between one and six billion hectares of degraded and underused land available for new tree growth.

So, let's start by looking at natural wood. It has three major components - each with different mechanical and chemical properties. About 40% is nanocellulose, or plain cellulose – bundles of strong fibres that are similar to Kevlar (which is used in bullet-proof vests and high-performance sails). We humans use lots of cellulose each year – about 20 times the volume of steel produced annually. Cellulose is used already as a substitute for petrochemicals in electronics, nappies paints and even cosmetics. Next about 20-30% of wood is lignin – a varied mix of organic chemicals fairly similar to crude oil. At the moment, we tend to waste this precious resource – either by burning it or using it as an additive to make concrete. However, lignin has huge potential to replace very many oil-based products. Most of the rest is hemicellulose, chemically similar to starch or glucose. At the moment, our research on how to use hemicellulose is lagging – but there's a vast untapped potential to use it to replace plastics.

So, first, how do you process natural wood to make it harder than steel? The chemists and material scientists start off by removing some of the lignin and hemicellulose - by boiling the natural wood in a solution of sodium hydroxide and sodium sulphate. They then compress it, while it is still hot, to about one-fifth of its original volume. This makes it much denser, but more importantly, it neatly lines up most of the nano fibres of cellulose with each other. This modified wood is about 11 times tougher, and about 30 times harder, than natural wood. In terms of strength per weight, this modified wood beats lightweight titanium alloy – that's absolutely amazing. The densely packed microstructure of this modified wood also makes it suitable for bullet-proof armour. This modified wood is about three times harder than steel, so it makes a very nice knife, and also, very strong nails that will never rust – and yet is made from totally sustainable, and recyclable, materials.

Another really unexpected use for modified wood is to make glass. Glass has a few problems – it's brittle, it's not very strong, and it's a lousy insulator. In the USA, about one quarter of all of the energy used to control the temperatures of buildings simply leaks out through the hopelessly inefficient glass windows. Clever materials scientists worked out that the lignin component of wood was what made it opaque. They came up with a method to modify the lignin using simple hydrogen peroxide and the ultraviolet in sunlight to bleach it transparent. There is a little bit more chemistry (partially involving clear epoxy) before arriving at something that is very transparent. (Mind you, it's still not as perfectly transparent and haze-free as glass but give the scientists a bit more time and money, and they'll get there.) However, this transparent wood was four times better at insulating than top-quality double glazing. And it is 50 times stronger than glass, so it can be very easily used as a structural load-bearing material in domestic housing, and even skyscrapers. As a bonus, it's much better than regular glass at blocking ultraviolet – so your curtains won't fade, and your skin won't tan. Transparent wood will find applications in making solar panels, opto-electronic devices, energy-efficient building materials and even electronic touch panels.

By using sustainable materials, such as wood, for a circular economy, the way ahead suddenly seems very clear.

<https://www.abc.net.au/radionational/programs/greatmomentsinscience/>



Puzzles, Jokes & Trivia



The secret of enjoying a good wine:

1. Open the bottle to allow it to breathe.



2. If it does not look like it's breathing give it mouth-to-mouth.




At my age...  
**"Gettin' Any?"**  
means sleep!  
[www.cafepress.com/GeezerShop](http://www.cafepress.com/GeezerShop)

**Be nice to your kids.**  
They will choose your Nursing Home.  
[www.cafepress.com/GeezerShop](http://www.cafepress.com/GeezerShop)



Can you complete these four words using the same three letter sequence in each?

--- E  
B --- P  
C --- B  
S --- Y

Quiz & puzzle solutions next page

- Trivia Quiz**
1. Which two clubs merged to form the Brisbane Lions?
  2. Which classifieds website was founded in London in 2000 for Australians?
  3. The TV character Simon Templar was known by what pseudonym?
  4. Beginning with A what Latin word means "somewhere else"?
  5. Which Australian capital city had a form of prohibition between 1911 and 1928?
  6. Which band had a hit in 1978 asking the question "Who are You"?

Puzzles, Jokes & Trivia



"Yes, you were snoring again."



"I just heard a banging noise. Get up and check it out."

Trivia Quiz Answers

1. Brisbane Bears and Fitzroy Lions.
2. Gumtree.
3. The Saint.
4. Alibi.
5. Canberra.
6. The Who

Missing Letters

L I M E  
B L I M P  
C L I M B  
S L I M Y